

# Grand Canyon University Academic Catalog 2025-2026

Fall 2025

# Academic Catalog Version Record

The following is a record of the major changes made to the Grand Canyon University Academic Catalog. This is not a comprehensive itemization of all of the changes made in this revision cycle, but rather an overview of the more significant updates incorporated into the current version of the catalog.

Version	Updated	Changes Made
1	05/02/25	Other Changes
		Initial Update to Summer 2025
2	05/23/25	Programs/Minors Added
		Master of Science in Artificial Intelligence
		Programs/Minors Revised
		Bachelor of Science in Nutritional Sciences
3	05/30/25	Programs/Minors Added
		Bachelor of Arts in Game Design
		Bachelor of Science in Game Development
		Undergraduate Certificate in Programming in C#
		Undergraduate Certificate in Full-Stack Software Development
		Minor in Game Design
4	06/13/25	Programs/Minors Added
		Bachelor of Science in Electrical Engineering with an Emphasis in Power Systems
		Bachelor of Science in Software Development with an Emphasis in Mobile App Development
5	07/21/25	Programs/Minors Added
		Master of Science in Electrical Engineering
		Graduate Certificate in Cybersecurity
6	08/01/25	Programs/Minors Added
		Bachelor of Science in Justice Studies
7	08/15/25	Other Changes
		Updated Facilities and Locations – Miramar ABSN Location
		Updated Florida Commission for Independent Education
		Updated Programmatic Accreditations – CACREP
		Programs/Minors Retired
		Bachelor of Science in Athletic Training
8	08/19/25	Programs/Minors Added
		Graduate Certificate of Completion in English
		Graduate Certificate of Completion: Special Education, Mild to Moderate Graduate Certificate of Completion: Special Education, Moderate to Severe
	09/20/25	<u> </u>
9	08/29/25	Other Changes Initial Update to Fall 2025
		Programs/Minors Added
		Graduate Certificate in Software Engineering
10	09/12/25	Programs/Minors Revised
10	· · · · · · · · · · · · · · · · · · ·	Master of Arts in Higher Education Student Affairs
		Graduate Certificate in Instructional Coaching
		Master of Science in Instructional Technology
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Version	Updated	Changes Made
11	9/19/25	Programs/Minors Revised
		Bachelor of Science in Health Care Administration
		Master of Arts in Reading with an Emphasis in Elementary Education
12	10/17/25	Programs/Minors Added
		Bachelor of Science in Artificial Intelligence
		Programs/Minors Revised
		Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems
		Master of Science in Nursing with an Emphasis in Health Care Quality and Patient Safety
13	10/24/25	Programs/Minors Added
		Graduate Certificate in Artificial Intelligence
14	10/31/25	Programs/Minors Revised
		Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasi in Adult-Gerontology
		Master of Science in Nursing: Family Nurse Practitioner
		Programs/Minors Added
		Post-Master of Science in Nursing: Psychiatric Mental Health Nurse Practitioner Certificate
		Bachelor of Science in Nursing: Pre-Licensure (Colorado Accelerated Track)
15	11/07/25	Programs/Minors Revised
		Bachelor of Science in Educational Studies
		Programs/Minors Added
		Master of Science in Occupational Therapy
		Bridge (Master of Science in Occupational Therapy)
16	11/14/25	Programs/Minors Added
		Bachelor of Science in Medical Lab Sciences (MLT to MLS)
		Programs/Minors Revised
		Master of Science in Nursing with an Emphasis in Nursing Education
		Master of Science in Nursing with an Emphasis in Public Health Nursing
		Master of Science in Nursing with an Emphasis in Health Informatics
16	11/21/25	Programs/Minors Added
		Master of Science in Engineering Management
		Master of Science in Systems Engineering
		Programs/Minors Revised
		Bachelor of Arts in Commercial Music

#### **Right to Change Requirements:**

The University reserves the right to make changes of any nature to the calendar, admission requirements, degree requirements, fees, regulations, course offerings, programs, or academic schedules whenever they are deemed necessary or desirable, including changes or modification of course content, class scheduling, offering patterns, canceling of scheduled classes, or other academic activities.

The Grand Canyon University Academic Catalog does not establish a contractual relationship; rather, it sets forth academic and other requirements that students must meet to be granted a degree and, in some circumstances, to continue to be enrolled at the institution. While advisors and other Grand Canyon University personnel are available to guide students with respect to the requirements, students ultimately bear the responsibility of following the requirements.

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# **Contact Information**

# General Contact Information

#### Web Site

http://www.gcu.edu/

#### Main Switchboard

Phone: 1-602-639-7500 Toll-free: 1-800-800-9776

#### **Main Campus Mailing Address**

Grand Canyon University PO Box 11097 Phoenix, AZ 85061-1097

# **Main Campus Street Address**

Grand Canyon University – Main Campus 3300 West Camelback Road Phoenix, AZ 85017-3030

# **Student Contacts**

# **Admissions Representatives**

Responsibility: Assists students with their initial enrollment into a

program of study. Phone: 1-800-800-9776

# **Campus Operations**

Responsibility: Provide parking passes for campus students, faculty and staff along with issue campus ID cards

Phone: 602-639-7739

#### **Canyon Health and Wellness Clinic**

Responsibility: Assists campus students with health needs.

Phone: 602-639-6215 Fax: 602-639-7830

Website: http://www.gcu.edu/Campus-Resources/Health-and-

Wellness-Center.php

#### **Career Services**

Responsibility: GCU's Career Services team provides students and alumni with the resources, professional knowledge and support they need to successfully transition from academics into

purposeful and satisfying employment.

Phone: 602-639-6606

E-mail: careerservices@gcu.edu

# **Center for Learning and Advancement**

Responsibility: Provides learning resources for students through free face-to-face and online tutoring in writing, math (algebra, trigonometry, calculus), accounting, finance, statistics, APA, as well as workshops in test-taking techniques, reading strategies, time management, study skills, and note-taking techniques. The Center also oversees the First Year Experience (FYE) program, Study Abroad, Peer Mentoring, Lifelong Learning Assessment, and the Honors College.

Phone: 1-602-639-8901

Email: centerforlearning@gcu.edu

# **Additional Locations**

GCU Boswell

10484 W. Thunderbird, Suite 102 Sun City, Arizona 85351

Kyrene School District Office

8700 S. Kyrene Rd. Tempe, Arizona 85284

Mesa Community College 1833 W. Southern Avenue Mesa, Arizona 85202

Pima-Salt River High School 4827 N Country Club Dr Scottsdale, Arizona 85256

Website: http://www.gcu.edu/Learning-Resources/Center-for-Learning-and-Advancement.php

#### **GCU Bookstore**

Responsibility: Carries materials required in GCU courses along

with University-branded apparel and gifts.

Phone: 1-800-866-8917

# **GCU Library**

Responsibility: Provides learning resources through physical and

online libraries.

Phone: 602-639-6641 or 1-800-800-9776 ext. 639-6641

Website: <a href="http://library.gcu.edu">http://library.gcu.edu</a>

Ask A Librarian: <a href="http://library.gcu.edu/AskALibrarian">http://library.gcu.edu/AskALibrarian</a> Webinars/Workshops: <a href="http://www.gcu.edu/Student-">http://www.gcu.edu/Student-</a>

Affairs/Library/Webinar-Sign-Up.php

## **GCU Today**

Responsibility: Provides the news and events source for Grand

Canyon University students, updated daily.

Phone: 602-639-8011

Email: doug.carroll@gcu.edu Website: http://news.gcu.edu/

http://www.gcu.edu/News.php

#### **International Students Office**

Responsibility: Assists university students and staff in support of

F-1 students during their stay in the United States

Phone: 602-639-8105 Fax: 602-343-3771 E-mail: ISO@gcu.edu

#### Mail and Copy Center

Responsibility: Provide many services to the traditional campus students and staff, which includes mailing out letter and packages

along with photocopying services

Phone: 602-639-7905

Website: http://www.gcu.edu/Campus-Resources/Mail-and-Copy-

Center.php

#### Office of Academic Records

Responsibility: Tracks student progress to degree completion, evaluates transcripts, and admits students to the University.

Phone: 1-800-800-9776

E-mail: academicrecords@gcu.edu

#### Office of Residence Life

Responsibility: Assists students with campus housing

Phone: 602-639-6244 Email: residencelife@gcu.edu

Website: http://www.gcu.edu/Housing/Residence-Life-

Information.php

#### Office of Spiritual Life

Responsibility: Provides spiritual needs of the campus, coordinates Chapel programming and outreach ministry

Phone: 602-639-6750 Email: <a href="mailto:spirituallife@gcu.edu">spirituallife@gcu.edu</a>

Website: http://www.gcu.edu/Spiritual-Life.php

# Office of Student Engagement

Responsibility: Assists students with campus clubs, intramurals, Associated Students of GCU, and campus programming.

Phone: 602-639-7250

Email: Student.Engagement@gcu.edu

Website: http://www.gcu.edu/Events-and-Activities.php

#### **Public Safety**

Responsibility: Assists students, faculty and staff with issues

relating to campus and public safety.

Phone: 602-639-8100

Website: http://www.gcu.edu/Campus-Resources/Public-

Safety.php

#### **Student Disability Services**

Responsibility: Assists students with obtaining reasonable accommodations, based on student self-disclosure of disability.

Phone: 602-639-6342 or 1-800-800-9776 ext. 639-6342

Email: disabilityoffice@gcu.edu

#### **Student Services Counselors**

Responsibility: Assists students with planning financial resources

needed to fund their education along with planning and

maintaining their program of study.

Phone: 1-800-800-9776 **Technical Support** 

Responsibility: Assists students with technical issues regarding

the University systems.

Phone: 1-877-428-8447

Email: techsupport@gcu.edu

Website: http://www.gcu.edu/Learning-Resources/Tutorial-

Videos/Technical-Support.php

# Accreditation, Authorizations, and Approvals

# Accreditation

Accreditation is a third-party peer review process which provides the public an assurance that the university is providing a quality education which meets or exceeds the accreditors stated requirements and criteria. Accreditation is key factor which may be recognized by employers, other postsecondary institutions, and licensing bodies. The US Department of Education requires accreditation from a body recognized by the agency as a key requirement for a university being permitted to disperse federal financial aid. In short, in choosing a university, parents and students should ensure their university of choice is accredited.

#### **Institutional Accreditation**

Grand Canyon University has been accredited by the Higher Learning Commission (HLC) and its predecessor continually since 1968. Every ten years, HLC conducts a comprehensive review of the university to ensure the university continues to meet HLC's standards. In June 2021, HLC reaffirmed GCU's accreditation. The next comprehensive visit is scheduled for the 2026-2027 academic year. A listing of programmatic accreditations held within each college is provided below.

## **Higher Learning Commission**

The Higher Learning Commission accredits Grand Canyon University.

The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 Chicago, Illinois 60604-1411

Phone: 312-263-0456 Toll-free: 800-621-7440 http://www.ncahlc.org/

#### **Programmatic Accreditations**

GCU holds multiple programmatic accreditations for over 80 of its programs. These accreditations demonstrate that the accredited programs meet or exceed the standards for the profession set forth by the accrediting body. Programmatic accreditation may help graduates meet the educational requirements for professional licensure or certification. The programmatic accreditations by college are provided below.

#### Colangelo College of Business

# Accreditation Council for Business Schools and Programs (ACBSP)

The Accreditation Council for Business Schools and Programs (ACBSP), 7007 College Boulevard, Suite 420, Overland Park, KS 66211, 913-339-9356, accredits the following programs of the Colangelo College of Business: Bachelor of Science in Accounting, Bachelor of Science in Applied Management, Bachelor of Science in Business Administration, Bachelor of Science in Business Administration with an Emphasis in Business Intelligence, Bachelor of Science in Business Management, Bachelor of Science in Entrepreneurial Studies, Bachelor of Science in Finance and Economics, Bachelor of Science in Marketing and Advertising, Bachelor of Science in Sports and Entertainment Management, Master of Science in Accounting, Master of Business Administration with an Emphasis in Accounting, Master of Business Administration with an Emphasis in Finance, Master of Business Administration with an Emphasis in Health Systems Management, Master of Business Administration with an Emphasis in Marketing, Master of Business Administration with an Emphasis in Project Management, Master of Business Administration with an Emphasis in Strategic Human Resource Management, and Doctor of Business Administration with an Emphasis in Management. The ACBSP requires each school to Summer 2022 University Policy Handbook 10 © 2022 Grand Canyon University. All Rights Reserved. submit a periodic Quality Assurance Report that summarizes recent activity regarding compliance with ACBSP standards. View our most recent ACBSP Quality Assurance Report. View the results of the Undergraduate Business Field Test.

Grand Canyon University's Colangelo College of Business is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of Bachelor of Science in Business for Secondary Education.

#### **College of Education**

#### Association for Advancing Quality in Educator Preparation (AAQEP)

Grand Canyon University's College of Education is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of early childhood, elementary, secondary and special education teachers, as well as administrators.

Association for Advancing Quality in Educator Preparation (AAQEP)

Grand Canyon University is a member in good standing of the Association for Advancing Quality in Educator Preparation (AAQEP), a national accrediting organization recognized by the Council for Higher Education Accreditation. The programs listed below have been awarded full accreditation by AAQEP through June 30, 2026. Full accreditation acknowledges that a program prepares effective educators who continue to grow as professionals and has demonstrated the commitment and capacity to maintain quality.

AAQEP-Accredited Programs at GCU:

- Initial Programs
- · Advanced Programs

Association for Advancing Quality in Educator Preparation

P.O. Box 7511

Fairfax Station, VA 22039-9998

Email: aaqep@aaqep.org

aaqep.org

#### **College of Nursing and Health Care Professions**

#### Commission on Accreditation of Athletic Training Education (CAATE)

The Bachelor of Science in Athletic Training is currently accredited by the Commission on Accreditation of Athletic Training Education.

CAATE

2001 K Street NW, 3rd Floor North Washington, DC 20006 P: 512-733-9700

The program is currently applying to CAATE for a change in level of degree and is pending approval.

# Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)



The Health Information Management accreditor of Grand Canyon University is the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). The College's accreditation for the baccalaureate degree in Health Information Management has been reaffirmed through 2030-2031. All inquiries about the program's accreditation status should be directed by mail to CAHIIM, 200 East Randolph Street, Suite 5100, Chicago, IL, 60601; by phone at (312) 235- 3255; or by email at <a href="mailto:info@cahiim.org">info@cahiim.org</a>

#### Commission on Collegiate Nursing Education (CCNE)

The Commission on Collegiate Nursing Education (CCNE), recognized by ED, assesses the quality and integrity of nursing programs. Grand Canyon University's Bachelor of Science in Nursing (Pre-Licensure), Bachelor of Science in Nursing (RN to BSN), Master of Science in Nursing with an Emphasis in Health Informatics, Master of Science in Nursing with an Emphasis in Nursing Education, Master of Science in Nursing with an Emphasis in Public Health Nursing, Master of Science of Nursing with an Emphasis in Nursing Leadership in Health Care Systems, Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult Gerontology, Master of Science in Nursing: Family Nurse Practitioner, Post Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult Gerontology, Post Master of Science in Nursing: Family Nurse Practitioner, Doctor of Nursing Practice, and Doctor of Nursing Practice with an Emphasis in Educational Leadership are accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org).

Commission on Collegiate Nursing Education 655 K Street, NW, Suite 750 Washington, DC 20001 P: (202) 887-6791

# Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA)

The Master of Science in Speech Language Pathology (MS-SLP) at Grand Canyon University is a Candidate for Accreditation by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2071 or 301-296-5700. Candidacy is a "preaccreditation" status with the CAA, awarded to developing or emerging programs for a maximum period of 5 years.

#### Society for Simulation in Healthcare

The Grand Canyon University Pre-Licensure Nursing Immersive Simulation has been granted Provisional Accreditation from the Society for Simulation in Healthcare (SSH). The SSH accreditation is a peer-reviewed, customized evaluation of the simulation program. With obtaining accreditation, GCU is recognized for its expertise in simulation above and beyond domain expertise. https://www.ssih.org/.

Society for Simulation in Healthcare

P.O. Box 856114

Minneapolis, MN 55485-6114

Phone: 866.730.6127

#### **College of Humanities and Social Sciences**

#### Council on Social Work Education (CSWE) - BSW

Grand Canyon University's College of Humanities and Social Sciences' Bachelor of Social Work program is accredited by the Council on Social Work Education.

Accreditation of a baccalaureate or master's social work program by the Council on Social Work Education's Commission on Accreditation indicates that it meets or exceeds criteria for the assessment of program quality evaluated through a peer review process. An accredited program has sufficient resources to meet its mission and goals and the Commission on Accreditation has verified that it demonstrates compliance with all sections of the Educational Policy and Accreditation Standards. Spring 2024 University Policy Handbook 12 © 2024 Grand Canyon University. All Rights Reserved. Accreditation applies to all program sites and program delivery methods of an accredited

program. Accreditation provides reasonable assurance about the quality of the program and the competence of students graduating from the program.

For more information about social work accreditation, you may contact Accreditation.

Council on Social Work Education 1701 Duke Street, Suite 200 Alexandria, VA 22314-3457 Phone: 703-683-8080

https://www.cswe.org/

#### Council on Social Work Education (CSWE) - MSW

Grand Canyon University's Master of Social Work program is accredited by the Council on Social Work Education's Commission on Accreditation.

Accreditation of a baccalaureate or master's social work program by the Council on Social Work Education's Commission on Accreditation indicates that it meets or exceeds criteria for the assessment of program quality evaluated through a peer review process. An accredited program has sufficient resources to meet its mission and goals and the Commission on Accreditation has verified that it demonstrates compliance with all sections of the Educational Policy and Accreditation Standards.

Accreditation applies to all program sites and program delivery methods of an accredited program. Accreditation provides reasonable assurance about the quality of the program and the competence of students graduating from the program.

For more information about social work accreditation, you may contact Accreditation.

Council on Social Work Education 1701 Duke Street, Suite 200 Alexandria, VA 22314-3457 Phone: 703-683-8080 https://www.cswe.org/

#### National Addiction Studies Accreditation Commission (NASAC)

The Master of Science in Addiction Counseling program has been approved for accreditation through the National Addiction Studies

Accreditation Commission (NASAC). The Master of Science in Christian Counseling of Substance Use and Addictive Disorders has been approved for conditional accreditation through NASAC.

National Addiction Studies Accreditation Commission (NASAC)

44 Canal Center Plaza, Suite 301

Alexandria, VA 22314

#### Council for Accreditation of Counseling and Related Educational Programs (CACREP)

Grand Canyon University's Master of Science in Clinical Mental Health Counseling (CMHC) for both online and in-person delivery methods, and the Master of Education in School Counseling (SC) are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

CACREP is an independent accrediting organization recognized for its rigorous standards in counselor education. By maintaining accreditation through CACREP, institutions demonstrate the quality and integrity of their programs.

Council for Accreditation of Counseling and Related Educational Programs

500 Montgomery Street, Suite 350

Alexandria, VA 22314

(703) 535-5990

www.cacrep.org

#### **College of Engineering and Technology**

#### Accreditation Board for Engineering and Technology (ABET)

The College of Engineering and Technology's Bachelor of Science in Computer Science with an Emphasis in Business Entrepreneurship, Bachelor of Science in Computer Science with an Emphasis in Big Data Analytics, and Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development programs are accredited by the Computing Accreditation Commission of ABET, www.abet.org.

The College of Engineering and Technology's Bachelor of Science in Biomedical Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Engineering with an Emphasis in Robotics, and Bachelor of Science in Engineering programs are accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

The College of Engineering and Technology's Bachelor of Science in Electrical Engineering Technology and Bachelor of Science in Mechanical Engineering Technology programs are accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org.

ABET 415 North Charles Street Baltimore, MD 21201 410.347.7700

#### Accreditation Council for Education in Nutrition and Dietetics (ACEND)

GCU's Nutrition and Dietetics Education Program has been granted candidate status by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, 312-899-0040 ext. 5400

#### **Grand Canyon Theological Seminary**

#### Commission on Accrediting of the Association of Theological Schools (ATS)

Grand Canyon Theological Seminary, the embedded seminary of Grand Canyon University, is included within the university's accreditation by the Higher Learning Commission. The seminary is also accredited by the Commission on Accrediting of the Association of Theological Schools.

The Commission on Accrediting of the Association of Theological Schools has approved the following degree programs:

- · Master of Divinity
- Master of Arts in Christian Leadership
- · Master of Arts in Christian Ministry
- · Master of Arts in Youth and Family Ministry
- Master of Arts in Urban Ministry

The Commission contact information is:

The Commission on Accrediting of the ATS 10 Summit Park Drive Pittsburgh, PA 15275 Phone: 412.788.6505

Fax: 412.788.6510 www.ats.edu

# State Authorizations

#### **Arizona State Private Post-Secondary Education**

Grand Canyon University is licensed in Arizona by the Arizona State Board for Private Postsecondary Education.

Arizona State Board for Private Postsecondary Education

1740 W. Adams St., Suite 3008

Phoenix, AZ 85007 Phone: 602-542-5709 http://ppse.az.gov

#### California Bureau of Private Postsecondary Education

#### California Resident Students Rights and Responsibilities Related to the Student Tuition Recovery Fund (STRF)

The State of California established the Student Tuition Recovery Fund (STRF) to relieve or mitigate economic loss suffered by a student in an educational program at a qualifying institution, who is or was a California resident while enrolled, or was enrolled in a residency program, if the student enrolled in the institution, prepaid tuition, and suffered an economic loss. Unless relieved of the obligation to do so, you must pay the state-imposed assessment for the STRF, or it must be paid on your behalf, if you are a student in an educational program, who is a California resident, or are enrolled in a residency program, and prepay all or part of your tuition. You are not eligible for protection from the STRF and you are not required to pay the STRF assessment, if you are not a California resident, or are not enrolled in a residency program. It is important that you keep copies of your enrollment agreement, financial aid documents, receipts, or any other information that documents the amount paid to the school. Questions regarding the STRF may be directed to the Bureau for Private Postsecondary Education, 2535 Capitol Oaks Drive, Suite 400, Sacramento, CA 95833, (916) 431-6959 or (888) 370-7589.

To be eligible for STRF, you must be a California resident or are enrolled in a residency program, prepaid tuition, paid or deemed to have paid the STRF assessment, and suffered an economic loss as a result of any of the following:

- 1. The institution, a location of the institution, or an educational program offered by the institution was closed or discontinued, and you did not choose to participate in a teach-out plan approved by the Bureau or did not complete a chosen teach-out plan approved by the Bureau.
- 2. You were enrolled at an institution or a location of the institution within the 120 day period before the closure of the institution or location of the institution, or were enrolled in an educational program within the 120 day period before the program was discontinued.
- 3. You were enrolled at an institution or a location of the institution more than 120 days before the closure of the institution or location of the institution, in an educational program offered by the institution as to which the Bureau determined there was a significant decline in the quality or value of the program more than 120 days before closure.
- 4. The institution has been ordered to pay a refund by the Bureau but has failed to do so.
- 5. The institution has failed to pay or reimburse loan proceeds under a federal student loan program as required by law, or has failed to pay or reimburse proceeds received by the institution in excess of tuition and other costs.
- 6. You have been awarded restitution, a refund, or other monetary award by an arbitrator or court, based on a violation of this chapter by an institution or representative of an institution, but have been unable to collect the award from the institution.
- 7. You sought legal counsel that resulted in the cancellation of one or more of your student loans and have an invoice for services rendered and evidence of the cancellation of the student loan or loans.

To qualify for STRF reimbursement, the application must be received within four (4) years from the date of the action or event that made the student eligible for recovery from STRF. A student whose loan is revived by a loan holder or debt collector after a period of non-collection may, at any time, file a written application for recovery from STRF for the debt that would have otherwise been eligible for recovery. If it has been more than four (4) years since the action or event that made the student eligible, the student must have filed a written application for recovery within the original four (4) year period, unless the period has been extended by another act of law. However, no claim can be paid to any student without a social security number or a taxpayer identification number.

#### **Colorado Commission on Higher Education**

Grand Canyon University is provisionally authorized by the Colorado Commission on Higher Education to operate to offer laboratory and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

Grand Canyon University 10700 E Gaddes Avenue, Ste 200 Englewood, Colorado 80112

#### Florida Commission for Independent Education

Grand Canyon University is provisionally licensed by the Commission for Independent Education, Florida Department of Education. As a result, GCU is authorized to offer laboratory and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following locations:

Grand Canyon University 605 Crescent Executive Court, Suite 500 Lake Mary, FL 32746

Grand Canyon University 2901 Southwest 149th Avenue, Suite 200 Miramar, FL 33027

Grand Canyon University is provisionally licensed by the Commission for Independent Education, Florida Department of Education to offer the Bachelor of Science in Applied Management, Bachelor of Science in Business Management, Bachelor of Science in Homeland Security and Emergency Management, Bachelor of Science in Information Technology with an Emphasis in Cybersecurity, and Master of Business Administration programs at the Eglin Air Force Base.

Additional information regarding this institution may be obtained by contacting the Commission at 325 West Gaines Street, Suite 1414, Tallahassee, FL 32399-0400, toll-free telephone number (888) 224-6684

GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, students enrolled in FL programs may file a complaint with the Florida Commission for Independent Education by following the student concern instructions on their website which can be found at the following link: https://www.fldoe.org/policy/cie/student-concerns.stml or by contacting the Commission.

Commission for Independent Education 325 W. Gaines St, Suite 1414 Tallahassee. FL. 32399-0400

#### **Idaho State Board of Education**

Grand Canyon University is registered as a Postsecondary Educational Institution with the State Board of Education under Idaho Statute, Title 33, Chapter 24. As a result, Grand Canyon University is authorized to offer skills lab and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

Grand Canyon University 1144 S. Silverstone Way, Building 2 Meridian, ID 83642

GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, Idaho students may file an appeal with the Idaho State Board of Education by following their student compliant procedures which can be found at the following link: <a href="https://boardofed.idaho.gov/higher-education-private/private-colleges-degree-granting/student-complaint-procedures/">https://boardofed.idaho.gov/higher-education-private/private-colleges-degree-granting/student-complaint-procedures/</a>

#### **Missouri Department of Higher Education**

Grand Canyon University is certified to operate by the Missouri Coordinating Board for Higher Education. As a result, Grand Canyon University is authorized to offer skills lab and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

721 Emerson Rd. Suite 500, St. Louis, MO 63141

#### Nevada Commission on Postsecondary Education (CPE)

Grand Canyon University is licensed by the Nevada Commission on Postsecondary Education (CPE) to operate as a private postsecondary educational institution within the state of Nevada. As a result, Grand Canyon University is authorized to offer skills lab and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

Grand Canyon University 2485 Village View Drive Henderson, Nevada 89074 GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, students enrolled in the aBSN – NV program version may file a complaint with the Nevada Commission on Postsecondary Education by filling out the Student Complaint Form which can be found on their website or at the following link:

https://cpe.nv.gov/uploadedFiles/cpenvgov/content/Students/Complaint%20Form%20Initial%202021.pdf

This form can be submitted via email, fax, or mailed to the following address:

Nevada Commission on Postsecondary Education

2800 E. St. Louis Avenue

Las Vegas, NV 89104

#### **New Mexico Higher Education Department**

Grand Canyon University has been deemed by the New Mexico Higher Education Department to meet the standards for State Authorization through registration under the Post-Secondary Educational Institution Act (Section 21-23-1 et seq. NMSA 1978). As a result, Grand Canyon University is authorized to offer skills lab and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

Grand Canyon University

6200 Jefferson Street NE

Suite 300

Albuquerque, NM 87109

#### **Utah Division of Consumer Protection**

Grand Canyon University is registered under the Utah Postsecondary Proprietary School Act (Title 13, Chapter 34, Utah Code).

As a result, Grand Canyon University is authorized to offer skills lab and simulation components of the Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program at the following location:

Grand Canyon University

150 Civic Center Dr

Ste 100

Sandy, UT 84070

GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, Utah resident students may file a complaint with the Utah Division of Consumer Protection by following the instructions on their website which can be found at the following link: <a href="https://dcp.utah.gov/complaints.html">https://dcp.utah.gov/complaints.html</a>

The Utah Division of Consumer Protection

160 East 300 South, 2nd Floor

P.O. Box 146704 Salt Lake City, Utah 84114-6704

dcp.utah.gov

OR by fax to: (801) 530-6001

#### **Utah Division of Consumer Protection Surety Bond**

Grand Canyon University contributes to the Utah Division of Consumer Protection surety bond. This Utah requirement is used as protection against loss of unearned tuition, tuition paid for credits that a student earned but that are not transferrable to a comparable postsecondary school, book fees, supply fees, or equipment fees.

#### Wyoming Department of Education (WY DOE)

Grand Canyon University has been granted a Chapter 30 license by the Wyoming Department of Education (WYDOE) to offer educational services to Wyoming students. For more information, please visit the following link: <a href="https://edu.wyoming.gov/for-district-leadership/school-programs/private-school-licensing/">https://edu.wyoming.gov/for-district-leadership/school-programs/private-school-licensing/</a>

Wyoming Department of Education

122 W. 25th St

**STE E200** 

Cheyenne, WY 82002

https://edu.wyoming.gov/

GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, students enrolled in the program versions offered on the military base may file a complaint with the Wyoming Department of Education by completing the student complain form which can be found at the following link:

https://edu.wyoming.gov/for-district-leadership/school-programs/private-%20school-licensing/

#### State Authorization Reciprocity Agreements (SARA) Participant

Grand Canyon University is an institutional participant in the State Authorization Reciprocity Agreement (SARA) initiative. SARA is an agreement among member states, districts and territories that establishes comparable national standards for interstate offering of postsecondary distance education courses and programs. It is intended to make it easier for students to take online courses offered by postsecondary institutions based in another state. SARA is overseen by a National Council and administered by four regional education compacts. For more information and a list of member states, please visit <a href="http://nc-sara.org/">http://nc-sara.org/</a>.

# Program Approvals

Many of GCU's programs are approved by state licensing boards or national certifying agencies to meet the educational requirements for licensure or certification or to permit a graduate to sit for a professional exam. A list of agency approvals and registrations are provided below.

The presence of specific content in textbooks or resources does not imply endorsement by Grand Canyon University. The University complies with accreditation, state, and federal requirements to prepare students for licensure and other professional industry expectations. As these requirements evolve, GCU will update and continue to evaluate materials to align with these professional standards, ensuring students receive necessary content.

#### **Colangelo College of Business**

#### Arizona State Board of Education (ASBE/ADE)

GCU's Colangelo College of Business is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of Bachelor of Science in Business for Secondary Education.

#### Certified Financial Planner (CFP®) Board Registered Program

GCU's Bachelor's in Finance with an emphasis in Financial Planning is a Certified Financial Planner (CFP) Board Registered Program (https://www.cfp.net/get-certified/certification-process/education-requirement/certification-coursework-requirement/find-an-education-program). As such, the program meets the education requirements for CFP® certification. Individuals who meet the CFP Board's education requirement are eligible to sit for the CFP® Certification Examination. CFP Board Registered Programs meet the education coursework requirement and help provide the knowledge required to deliver professional, competent, and ethical financial planning services to clients. For more information visit <a href="https://www.cfp.net/contact">https://www.cfp.net/contact</a>.

#### College of Arts and Media

GCU's College of Arts and Media is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of Bachelor of Arts in Dance Education, Bachelor of Arts in Music Education and Bachelor of Arts in Theatre Education.

Arizona State Board of Education

1700 W. Washington St.

Phoenix, AZ 85007

https://azsbe.az.gov/

#### **College of Education**

#### Arizona State Board of Education (ASBE/ADE)

Grand Canyon University's College of Education is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of early childhood, elementary, secondary and special education teachers, as well as administrators.

Arizona State Board of Education

1700 W. Washington St.

Phoenix, AZ 85007

https://azsbe.az.gov/

#### Nevada Department of Education (NVDOE)

Grand Canyon University's College of Education is approved by the Nevada Department of Education to offer alternative route to licensure programs that lead to conditional licensure (credentials) for early childhood, elementary, secondary, and special education teachers.

Nevada Department of Education

700 E. Fifth St.

Carson City, NV 89701

https://doe.nv.gov/

#### College of Humanities and Social Sciences

#### Arizona Board of Behavioral Health Examiners (AZBBHE)

Grand Canyon University's Master of Science in Clinical Mental Health Counseling program is approved by the Arizona Board of Behavioral Health Examiners as being consistent with the curriculum requirements for LAC or LPC licensure.

Grand Canyon University's Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency and Substance Abuse is approved by the Arizona Board of Behavioral Health Examiners as being consistent with the curriculum requirements for LSAT licensure.

Arizona Board of Behavioral Health Examiners

1740 West Adams St

Phoenix, AZ 85007

http://www.azbbhe.us/

#### Arizona State Board of Education (ASBE/ADE)

Grand Canyon University's College of Humanities and Social Sciences is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of Bachelor of Arts in History for Secondary Education, Bachelor of Arts in English for Secondary Education and Bachelor of Science in Math for Secondary Education.

#### California Consortium of Addiction Programs and Professional (CCAPP)

Grand Canyon University has been approved as an Approved School/Program by the California Consortium of Addiction Programs and Professionals (CCAPP) for the following online programs: Master of Science in Addiction Counseling and Master of Science in Christian Counseling of Substance Use and Addictive Disorders. These programs are approved until February 28, 2025.

Grand Canyon University's Bachelor of Science in Counseling with an Emphasis in Chemical Dependency and Substance Abuse is an Approved School/Program by CCAPP. This program is approved until September 30, 2023.

California Consortium of Addiction Programs and Professionals

2400 Marconi Avenue, Suite C

Sacramento, CA 95821

PO Box 214127

https://www.ccapp.us/

#### Georgia Addiction Counselors Association (GACA)

Grand Canyon University has been approved as an Education Provider by the Georgia Addiction Counselors Association (GACA) for the Master of Science in Addiction Counseling and Bachelor of Science in Counseling with an Emphasis in Chemical Dependency and Substance Abuse programs.

Georgia Addiction Counselors Association

4015 South Cobb Drive

Suite 160

Smyrna, GA 30080 http://gaca.org/

#### Wisconsin Department of Safety and Professional Services (DSPS)

Grand Canyon University has been approved as a pre-certification education program for substance abuse counselors by the Wisconsin Department of Safety and Professional Services for the following online programs: Master of Science in Addiction Counseling, Master of Science in Christian Counseling of Substance Use and Addictive Disorders and Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency and Substance Abuse. These programs are approved through August 2026.

Wisconsin Department of Safety and Professional Services

4822 Madison Yards Way

Madison, WI 53705

https://dsps.wi.gov/Pages/BoardsCouncils/SubstanceAbuseCounselors/Default.aspx

#### **College of Nursing and Health Care Professions**

#### Arizona State Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing (Pre-licensure), Family Nurse Practitioner (Master of Science in Nursing and Post-Master of Science in Nursing options) and Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology (Master of Science in Nursing and Post-Master of Science in Nursing options) are currently approved by the Arizona State Board of Nursing. For more information, go to the following link: <a href="https://azbn.gov/education/nursing-programs-lists">https://azbn.gov/education/nursing-programs-lists</a>.

Arizona State Board of Nursing 1740 W. Adams St., Suite 2000

Phoenix, AZ 85007

https://azbn.gov/

#### California Board of Registered Nursing (CA BRN)

Grand Canyon University's Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology (ACNP) program is approved by the California Board of Registered Nursing. Grand Canyon University is also approved by the California Board of Registered Nursing to offer the course: NRS-431N Public Health Nursing for California Nurses. Graduates from GCU's RN-BSN program who complete this course will meet the educational requirements for Public Health Nursing Certification in California. For more information, go to the following link: <a href="https://www.rn.ca.gov/education/outofstatenp.shtml">https://www.rn.ca.gov/education/outofstatenp.shtml</a>

California Board of Registered Nursing

1747 N. Market Blvd., Suite 150

Sacramento, CA 95834-1924

https://www.rn.ca.gov/

#### Colorado Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program in Englewood, CO has been granted Interim Approval from the Colorado Board of Nursing.

#### Florida Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program has been granted approval by the Florida Board of Nursing.

Department of Health Board of Nursing

4052 Bald Cypress Way Bin C-02

Tallahassee, FL 32399-3252

#### Idaho State Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program is approved by the Idaho State Board of Nursing.

11341 W Chinden Blvd. P.O. Box 83720

Boise, ID 83720-0063 https://dopl.idaho.gov/bon/

## Maryland Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing (Pre-Licensure) program has been approved by the Maryland Board of Nursing. For more information, go to the following link: <a href="https://mbon.maryland.gov/Documents/approved-out-of-state-rn-lpn-nursing-education-programs.pdf">https://mbon.maryland.gov/Documents/approved-out-of-state-rn-lpn-nursing-education-programs.pdf</a>

Maryland Board of Nursing Education Department 4140 Patterson Avenue Baltimore, MD 21215

https://mbon.maryland.gov/Pages/education-index.aspx

#### Missouri State Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program has received initial approval from the Missouri State Board of Nursing and is listed on their website: https://pr.mo.gov/boards/nursing/schoolsofnursing.pdf . This level of approval is contingent on a successful site visit.

Missouri State Board of Nursing

P.O. Box 656

Jefferson City, MO 65102-0656

https://pr.mo.gov/nursing-schools-of-nursing.asp

#### Nevada State Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program has received approval from the Nevada State Board of Nursing and is listed on their website: <a href="https://nevadanursingboard.org/wp-content/uploads/2024/06/Nursing-Program-List-05.24.2024.pdf">https://nevadanursingboard.org/wp-content/uploads/2024/06/Nursing-Program-List-05.24.2024.pdf</a>. This level of approval is awarded to all new programs and allows the program to admit students.

Nevada State Board of Nursing 4220 S. Maryland Pkwy. Building B, Suite 300 Las Vegas, NV, 89119-7533 http://nevadanursingboard.org/

#### New Mexico Board of Nursing

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, accelerated (ABSN) program has received initial approval from the New Mexico Board of Nursing and is listed on their website: <a href="https://www.bon.nm.gov/approval-accreditation/">https://www.bon.nm.gov/approval-accreditation/</a>.

New Mexico Board of Nursing 6301 Indian School Rd NE Suite 710 Albuquerque, New Mexico 87110 https://www.bon.nm.gov/

#### Utah Division of Occupational and Professional Licensing (UT DOPL)

Grand Canyon University's Bachelor of Science in Nursing (RN to BSN), Master of Science in Nursing with an Emphasis in Public Health, Master of Science in Nursing with an Emphasis in Public Health Nursing, Master of Science in Nursing with an Emphasis in Health Informatics, Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems, Master of Business Administration & Master of Science in Nursing: Nursing Leadership in Health Care Systems, Master of Science in Nursing with an Emphasis in Nursing Education, Master of Science in Nursing with an Emphasis in Health Care Quality & Patient Safety, Post-Master of Science in Nursing: Nursing Education Certificate, Doctor of Nursing Practice, and Doctor of Nursing Practice with an Emphasis in Educational Leadership programs have satisfied the requirements for clinical placement of nursing students by programs located outside of the state of Utah.

Grand Canyon University's Bachelor of Science in Nursing: Pre-Licensure, Accelerated (aBSN) program is currently approved by the Utah Division of Occupational and Professional Licensing – Nursing.

State of Utah Department of Commerce Division of Occupational and Professional Licensing

160 East 300 South

P.O. Box 146741

Salt Lake City, UT 84114-6741

# Washington State Board of Nursing

Grand Canyon University is approved by the Washington State Board of Nursing to conduct practice experiences in the state of Washington for RN-BSN, MSN/Health Informatics, MSN/Nurse Educator, MSN/Nurse Leadership in Health Care Systems, MSN/Public Health, MBA-MSN: Nursing Leadership in Health Care Systems, and Post-graduate certificate in Nursing Education. For more information go to the following link: <a href="http://www.doh.wa.gov/LicensesPermitsandCertificates/NursingCommission/NursingPrograms.aspx">http://www.doh.wa.gov/LicensesPermitsandCertificates/NursingCommission/NursingPrograms.aspx</a>

Washington State Department of Health (Nursing)

111 Israel Rd

S.E. Tumwater, WA 98501

#### Wisconsin Department of Safety and Professional Services (DSPS)

Grand Canyon University's RN-Bachelor of Science in Nursing, Master of Business Administration/Master of Science in Nursing Leadership, Master of Science in Nursing in Health Care Informatics, Master of Science in Nursing in Health Informatics, Master of Science in Nursing in Health Care Quality and Patient Safety, Master of Science in Nursing in Public Health Nursing, Master of Science in Nursing in Leadership in Health Care Systems, Master of Science in Nursing Education, Doctor of Nursing Practice, and the Doctor of Nursing Practice in Educational Leadership programs have been approved by the Wisconsin Department of Safety and Professional Services

- Board of Nursing. For more information, go to the following link: https://dsps.wi.gov/Documents/ApprovedOutOfStateNursingSchools.pdf.

Wisconsin Board of Nursing 4822 Madison Yards Way Madison, WI 53705

www.dsps.wi.gov/pages/BoardsCouncils/Nursing/Default.aspx

GCU encourages students to follow the appeals process outlined in the University Policy Handbook. However, Wisconsin residents enrolled in one of GCU's nursing programs listed above may file a complaint with the Wisconsin Board of Nursing. The Board accepts online complaints at the following link: https://dspscomplaintform.wi.gov/dspslsconlinecomplaint.aspx or mailed at the following address:

Wisconsin Department of Safety and Professional Services

Division of Legal Services and Compliance

P.O. Box 7190

Madison, WI 53707-7190

#### College of Engineering and Technology

#### Arizona State Board of Education (ASBE/ADE)

Grand Canyon University's College of Engineering and Technology is approved by the Arizona State Board of Education to offer institutional recommendations (credentials) for the certification of Bachelor of Science in Biology for Secondary Education and Bachelor of Science in Chemistry for Secondary Education.

#### Cyber Defense Education (CAE-CD)

The College of Engineering, and Technology's Bachelor of Science in Cybersecurity and Bachelor of Science in Information Technology with an Emphasis in Cybersecurity programs were awarded the National Center of Academic Excellence in Cyber Defense Education (CAE-CD) designation.\* CAE-CD designation recognizes college programs that meet the standards of learning concepts and skills outlined by the National Security Agency (NSA) and Department of Defense (DoD), (<a href="https://www.nsa.gov/Academics/Centers-of-Academic-Excellence/">https://www.nsa.gov/Academics/Centers-of-Academic-Excellence/</a>).

# **Professional Licensure Disclosures and Field Experiences**

#### **Professional Licensure Disclosures**

GCU strives to provide accurate, transparent information to students enrolled in all programs intended to lead to a state-issued, professional license. Grand Canyon University periodically reviews the licensure requirements of its programs in all US states and territories. Each student's Enrollment Agreement provides professional licensure disclosures stating whether a program meets the educational requirements for licensure in the student's location. GCU also publishes licensure disclosures publicly on gcu.edu. The most current disclosures are available on each program's home page clicking the "State Disclosures" link under the "Accreditation and Compliance" header in the toolbar. Students may refer to the information on GCU.edu at any time for the current disclosures.

In addition to the public disclosures, GCU provides a direct and timely notification to students if a change to the licensure determination is identified.

#### **Location and Professional Licensure**

GCU is required to determine the location of distance education students, evidenced by a student's address. If you are considering relocating, or have relocated to another state, territory, or outside of the United States during your program, whether relocation is permanent or temporary, you must contact your Student Services Counselor immediately to determine whether your Program of Study is available in the new location and whether it will lead to professional licensure in the new location. Students must do this before incurring any/additional financial obligations. The new location may have additional requirements that would need to be completed in order to be eligible for certification or licensure. In addition, GCU encourages students to contact their state licensure board to ensure the program will meet their needs.

#### Field Placements within the United States

Students are expected to conduct all field placements, practicum, or student teaching within the state in which they are located at the time of enrollment. Students who seek to conduct field placements, practicum, or student teaching in a state other than the state in which they are located, or who intend to seek licensure in a different state, must disclose this to their Student Services Counselor to determine whether field placement or licensure is possible in the desired location.

# **International Military Field Placements**

Military students who are located outside of the United States who are enrolled in programs that contain field placement must complete all placements on a base or in a Department of Defense approved location. Students are advised to contact a Field Experience Counselor to

determine whether field experience can be completed. Students who cannot complete field placements on a base or in a DOD-approved location may be required to take a leave of absence until they return to a location at which placements are allowed.

#### **Professional Licensure Outside of the United States**

GCU programs are not designed nor intended to lead to licensure or certification outside of the United States. Student teaching, practicum, internship, or field experience is not permitted outside of the United States.

#### **Additional State-Specific Disclosures**

#### Iowa Board of Educational Examiners

Students seeking an Iowa license are advised that successful completion of Grand Canyon University's programs of educator preparation do not qualify you for initial educator licensure by the Iowa Board of Educational Examiners. Candidates seeking licensure in the state of Iowa must first be licensed/certified as educators in Arizona. Grand Canyon University will assist you in understanding the licensure requirements of the Arizona Department of Education prior to completion of your educational preparation program. Arizona Department of Education can be contacted at 800-352-4558 or <a href="http://www.azed.gov/">http://www.azed.gov/</a>. Candidates seeking subsequent licensure from the Iowa Board of Educational Examiners must contact that Board (515-281-5849; <a href="http://www.boee.iowa.gov/">http://www.boee.iowa.gov/</a>) for licensure requirements in Iowa.

#### Pennsylvania Department of Education (PADOE)

Teacher education programs have not been reviewed or approved by Pennsylvania. Candidates will have to apply for certification and meet requirements for certification as out-of-state candidates.

Residents of Pennsylvania should direct questions, complaints, or concerns to:

Pennsylvania Department of Education

http://www.education.pa.gov/Postsecondary-Adult/College%20and%20Career%20Education/Pages/Students-Complaints.aspx#tab-1

Pennsylvania Department of Education - Postsecondary and Adult Education

333 Market Street, 12th Fl

Harrisburg, PA 17126-0333

#### **Athletics**

#### **Intercollegiate Athletics (NCAA)**

Intercollegiate athletics function under the guidelines of the National Collegiate Athletic Association (NCAA) Division I, 700 W. Washington Street, P.O. Box 6222, Indianapolis, IN 46202, regarding eligibility to participate in intercollegiate sports. In the 2013-14 season, Grand Canyon University began the process of reclassifying from Division II to Division I as a member of the Western Athletic Conference.

#### **International Students**

#### Student Exchange Visitor Program (SEVP)

Grand Canyon University has applied for and received certification to enroll F nonimmigrant students per the Student Exchange Visitor Program (SEVP) under 8 CFR 214.3. The International Students Office has access to SEVIS and may issue Forms I-20, Certificate of Eligibility for Student Status, to prospective students. For more information see the International Students Office website.

#### Veteran's Administration

#### Veteran's Administration State Approval Agency (SAA)

Grand Canyon University is approved for the education and training of veterans under the provisions of Title 10 and 38, United States Code. We accept Chapter 30, 31, 33, 35, and 1606 recipients. Veterans are approved for benefits for numerous programs. For more information regarding using your VA benefits at Grand Canyon University, email Military.Billing@gcu.edu.

# Facilities and Locations

#### Arizona

#### Main Campus - Phoenix AZ

3300 West Camelback Road, Phoenix, AZ 85017

GCU's main campus encompasses over 300 acres in Phoenix, Arizona. Comprised of 9 colleges, the campus houses over 800,000 square feet of classrooms, labs and faculty space, as well as over 300,000 square feet of office and conference space, a basketball arena, soccer stadium, baseball and softball stadiums, cyber center, and 17,500 student bedspaces, both apartment and dorm style.

Classroom equipment includes webcams, high-definition projector, drop-down screen, instructor podium with equipment rack, instructor microphone, classroom speakers, dedicated instructor computer systems, instructor touch screen overlap-to-projector image, instructor touch audio and video switcher, and 8Mbps up/down wireless. Some classrooms have additional equipment, including dedicated large flat panel student group screens

# West Valley, Phoenix

2600 W. Camelback Rd. Phoenix, AZ 85017

#### **Auxiliary Locations**

In addition to the locations listed above, the following locations provide classroom space for various GCU cohorts of students. The Arizona State Board for Private Postsecondary Education has granted approval for Grand Canyon University's main Phoenix campus to operate at variable auxiliary locations.

Chandler 4100 W. Chandler Blvd. Chandler, AZ 85226

Kyrene School District 8700 S. Kyrene Road Tempe, AZ 85284

Mesa Community College 1833 West Southern Avenue Mesa, AZ 85202-4822

Phoenix VA Healthcare 650 East Indian School Road Phoenix, AZ 85012-1839

Pima Salt River High School 4827 N. Country Club Drive Scottsdale, AZ 85256-2915

#### **Boswell/Sun City aBSN Location**

10484 W Thunderbird Blvd #102, Sun City, AZ 85351

GCU's Sun City location is comprised of over 21,000 square feet of classroom, lab space, simulation space, and offices including two testing/study rooms, an accommodations testing room, a simulation lab with four simulation rooms, a clinical skills lab, a common area for general student interaction, and multiple small faculty and staff offices.

#### **Tucson aBSN Location**

3500 N Campbell Ave, Tucson, AZ 85719

GCU's Tucson location is comprised of over 16,000 square feet of classroom, lab space, simulation space, and offices including two testing/study rooms, an accommodations testing room, a simulation lab with four simulation rooms, a clinical skills lab, a common area for general student interaction, and multiple small faculty and staff offices.

#### Colorado

# **Denver ABSN Location**

10700 E. Geddes Ave Suite 200 Englewood, CO 80112

GCU's Colorado location is comprised of approx. 23,000 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, two simulation labs with eight simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### Florida

#### Miami (Miramar) ABSN Location

2901 Southwest 149th Ave Suite 200 Miramar, FL 33027

GCU's Miramar, FL location is comprised of approx. 22,000 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, a simulation lab with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### Orlando (Lake Mary) ABSN Location

605 Crescent Executive Court Suite 500 Lake Mary, FL 32746

GCU's Lake Mary, FL location is comprised of approx. 22,500 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, a simulation lab with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### Idaho

## **Boise ABSN Location**

1144 S. Silverstone Way, Suite 200 Meridian, ID 83642

GCU's Idaho location is comprised of approx. 21,000 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, one simulation lab with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### Missouri

#### St. Louis ABSN Location

721 Emerson Rd. Suite 500, St. Louis, MO 63141

GCU's Missouri location is comprised of approx. 20,000 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, one simulation lab with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### Nevada

#### Las Vegas aBSN Site

2485 Village View Drive, Henderson, Nevada 89074

GCU's Nevada location is comprised of over 21,000 square feet of classroom, lab space, simulation space, and offices including two testing/study rooms, an accommodations testing room, two simulation labs with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

#### **New Mexico**

#### **Albuquerque ABSN Location**

6200 Jefferson St NE, Suite 300, Albuquerque, NM 87109

GCU's New Mexico location is comprised of approx. 21,000 square feet of classroom, lab space, simulation space, and offices including testing/study rooms, an accommodations testing room, one simulation lab with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices

#### Utah

#### Sandy/Salt Lake City aBSN Location

150 Civic Center Dr, Ste 100, Sandy, UT 84070

GCU's Utah location is comprised of over 26,000 square feet of classroom, lab space, simulation space, and offices including two testing/study rooms, an accommodations testing room, two simulation labs with four simulation rooms, a common area for general student interaction, and multiple small faculty and staff offices.

# **About Grand Canyon University**

#### Vision

Grand Canyon University is a premier Christian University educating people to lead and serve.

#### Mission Statement

GCU is a missional, Christ-centered university with an innovative and adaptive spirit that addresses the world's deep needs by cultivating compassionate Christian community, empowering free and virtuous action, and serving others in ways that promote human flourishing.

Through academic excellence, the university equips students with knowledge of the Christian worldview, instilling in them a sense of purpose and vocational calling that enables them to be innovative thinkers, effective communicators, global contributors, and transformative leaders who change their communities by placing the interests of others before their own.

### Mission-Based Student Learning Competencies

Tied to the mission statement of GCU are mission-based competencies that faculty and administration believe are imperative for students to learn. GCU strives to ensure students who progress through their program at different times exit the program with the same foundational knowledge and demonstrable skills, and that graduates bring commensurate knowledge and practical skills to the workforce. Consistent competencies and objectives, regardless of the modality, are the foundation of every program design. All GCU courses provide foundational knowledge and then apply or synthesize the learning. Thus, all graduates of the same program will have developed comparable skill sets.

#### Mission-based Bachelor's Competencies

Domains	Competencies
Leadership Graduates of Grand Canyon University's bachelor's program will be able to demonstrate an understanding of the reality of the world, examine the consequences of choice, and provide unselfishly to help others meet their highest potential.	<ul> <li>Graduates of the bachelor's program will be able to apply leadership models and demonstrate the capacity for leadership.</li> <li>Graduates of the bachelor's program will be able to develop a clear vision that informs, inspires, and motivates others to achieve goals.</li> <li>Graduates of the bachelor's program will be able to determine various leadership styles and rationale for differences.</li> </ul>
Communication  Graduates of Grand Canyon University's bachelor's program will be able to develop and apply intrapersonal and professional communication behaviors essential to servant leadership and rooted in Christian ethical belief.	<ul> <li>Graduates of the bachelor's program will be able to recognize the power, ethical ramifications, and consequences of communication style as it relates to personal and professional success in a diverse society.</li> <li>Graduates of the bachelor's program will be able to design and disseminate compelling messages that create understanding and desired results using a variety of traditional and innovative modalities.</li> </ul>
Global Citizenship Graduates of Grand Canyon University's bachelor's program will be able to apply empathy, identify ethnocentrism, and defend the reality that people are different with different perspectives on history, religion, value-systems, and many other aspects of life and living.	<ul> <li>Graduates of the bachelor's program will be able to develop long-term relationships across cultures through effective communication.</li> <li>Graduates of the bachelor's program will be able to perform service initiatives from a tradition of servant leadership in an effort to foster positive interpersonal relationships and a dynamic global community.</li> <li>Graduates of the bachelor's program will be able to apply the necessary skills to work effectively with individuals from diverse cultural backgrounds.</li> </ul>

Domains	Competencies
Critical Thinking Graduates of Grand Canyon University's bachelor's program will be able to show clarity and logic in thought by asking questions and pursuing knowledge to avoid delusion and blind acceptance of ideas, to reduce vulnerability, and to work to find solutions rather than dwell on problems.	<ul> <li>Graduates of the bachelor's program will be able to use personal skill sets of critical thinking, risk assessment, decision-making, analytical skills, and creativity that promote effective judgment and actions.</li> <li>Graduates of the bachelor's program will be able to apply social judgment skills and knowledge gained through gathering, sorting, analyzing, applying, and evaluating information to solve problems in applied learning settings.</li> <li>Graduates of the bachelor's program will be able to make informed decisions based on historical, current, reliable, and valid information.</li> </ul>
Christian Heritage Graduates of Grand Canyon University's bachelor's program will be able to identify and express aspects of a Christian heritage which affect their relationships with others and the community, as well as their decision-making processes.	<ul> <li>Graduates of the bachelor's program will be able to articulate an awareness of a Christian heritage and its effects on Western society.</li> <li>Graduates of the bachelor's program will be able to identify and comprehend the moral and ethical foundations of Judeo-Christian thought, and analyze situations and problems from this basis.</li> <li>Graduates of the bachelor's program will be able to demonstrate the ability to make values-based decisions from the perspective of a Christian heritage.</li> </ul>
Technology Graduates of Grand Canyon University's bachelor's program will be able to demonstrate efficient and effective use of technological tools.	<ul> <li>Graduates of the bachelor's program will be able to retrieve, organize, assess, process, and safely secure information.</li> <li>Graduates of the bachelor's program will be able to demonstrate proficiency and adaptability in commonly accepted applications and devices.</li> <li>Graduates of the bachelor's program will be able to demonstrate competence in mediated communication, connect globally to present an "e-self" that is sensitive to audience and context, and analyze and interpret visual rhetoric.</li> </ul>

### **Mission-based Master's Competencies**

Domains	Competencies
Leadership Graduates of Grand Canyon University's master's program will be able to establish effective leadership by being grounded in the reality of the world, accepting the consequences of choice, and striving unselfishly to help others meet their highest potential.	<ul> <li>Graduates of the master's program will be able to utilize responsible leadership through the application of leadership models.</li> <li>Graduates of the master's program will be able to integrate leadership skills that inform, inspire, and motivate others to achieve their goals.</li> <li>Graduates of the master's program will be able to select effective leadership styles appropriate to the situation.</li> <li>Graduates of the master's program will be able to improve their leadership by applying initiative, political sensitivity, self-discipline, and perseverance.</li> </ul>
Communication  Graduates of Grand Canyon University's master's program will be able to identify and cultivate interpersonal and professional communication behaviors essential to servant leadership and rooted in Christian ethical belief.	<ul> <li>Graduates of the master's program will be able to operate in a pluralistic society developing authentic relationships and contributing to their discipline, while serving and promoting community.</li> <li>Graduates of the master's program will be able to formulate clear and compelling arguments, rationally constructed, prefaced by critical analysis, and composed with a conscious awareness of the power, ethical ramifications, and consequences of communication style.</li> <li>Graduates of the master's program will be able to design and execute clear communication, which creates understanding and achieves desired results through a variety of communication modalities.</li> </ul>

Domains	Competencies
Global Citizenship Graduates of Grand Canyon University's master's program will be able to propose empathy, refute ethnocentrism, and champion the reality that people are different with different perspectives on history, religion, value-systems, and many other aspects of life and living.	<ul> <li>Graduates of the master's program will be able to guide and manage global organizations, applying business knowledge within cross-cultural contexts.</li> <li>Graduates of the master's program will be able to support a global mindset that is sensitive to cultural differences and tolerant of differing perspectives, practices, and values.</li> <li>Graduates of the master's program will be able to value cultural diversity in order to build more innovative and competitive organizations.</li> <li>Graduates of the master's program will be able to construct responsible plans and decisions that balance the creation of economic wealth with the promotion of human welfare worldwide.</li> </ul>
Critical Thinking Graduates of Grand Canyon University's master's program will be able to champion clarity and logic in thought by asking questions and pursuing knowledge to avoid delusion and blind acceptance of ideas, to reduce vulnerability, and to work to find solutions rather than dwell on problems.	<ul> <li>Graduates of the master's program will be able to evaluate and synthesize personal skill sets of critical thinking, risk assessment, decision-making, analytical skills, and creativity to promote effective judgment and actions.</li> <li>Graduates of the master's program will be able to utilize social judgment skills and research through gathering, sorting, analyzing, applying, and evaluating information to solve problems.</li> <li>Graduates of the master's program will be able to evaluate information based on historical, current, reliable, and valid information and to utilize applications of research to impact decision-making.</li> </ul>
Values & Ethics Graduates of Grand Canyon University's master's program will be able to model and communicate the values and ethics formulated within the context of a global perspective by critically integrating them into their decision-making.	<ul> <li>Graduates of the master's program will be able to demonstrate cultural competence by synthesizing a variety of views and perspectives on values and ethics.</li> <li>Graduates of the master's program will be able to integrate course work, professional life, life experience, and educational experience into a coherent values-based worldview.</li> <li>Graduates of the master's program will be able to investigate the historical foundations of critical thought through the context of values and ethics to find meaning, construct knowledge, and deconstruct faulty thinking.</li> <li>Graduates of the master's program will be able to demonstrate the ability to communicate and model a holistic ethical system.</li> </ul>
Technology Graduates of Grand Canyon University's master's program will demonstrate the use of technological tools as well as efficient and effective use of the tools themselves, including retrieving, organizing, and assessing information; securing information; and analyzing information as the basis for evidence-driven action.	<ul> <li>Graduates of the master's program will be able to judge the quality of information to determine how it can be best used for problem solving, through development and application of data models, both quantitative and qualitative, to identify and project patterns and trends.</li> <li>Graduates of the master's program will be able to develop proficiency in practices that assure the confidentiality, quality, and continuing existence of information.</li> <li>Graduates of the master's program will be able to demonstrate efficiency in strategies, which will ensure efficient and effective analysis and use of information.</li> </ul>

### **Mission-based Doctoral Competencies**

Domains	Competencies
Leadership  Graduates of Grand Canyon University's doctoral program will be able to achieve effective leadership in their organization and discipline by making discoveries, contributing knowledge founded and rooted in proven theory through research, and making effective use of leadership to manage change.	<ul> <li>Graduates of the doctoral program will be able to act as leaders in their discipline through the active application of knowledge in an intelligent and effective way to lead and construct an inventive, original, and creative vision.</li> <li>Graduates of the doctoral program will be able to employ metathinking and self-evaluation to assess their current leadership style and leadership potential in order to develop clarity of vision, purpose, and action in the leading of self and others.</li> <li>Graduates of the doctoral program will be able to utilize compelling leadership styles and models to manage change, exercise influence, empower others, create interest, motivate followers, and have a greater impact in their field of study.</li> </ul>
Communication  Graduates of Grand Canyon University's doctoral program will be able to communicate effectively the results of their research in an academic environment, demonstrate a strong link between behaviors, beliefs and ethical values, and be good stewards of their words.	<ul> <li>Graduates of the doctoral program will be able to combine effective oral and written communication to disseminate clear and compelling research to the academic community though multiple modalities in a way that promotes excellence in their discipline.</li> <li>Graduates of the doctoral program will be able to design and execute succinct synthesis of ideas and data while guiding followers through skilled use of verbal imagery, active listening skill, and audience assessment.</li> </ul>
Global Citizenship Graduates of Grand Canyon University's doctoral program will be able to build practices and a culture which honor diversity, demonstrate cultural sensitivity, engage in globally focused leadership, and value international perspectives.	<ul> <li>Graduates of the doctoral program will be able to apply and analyze cultural implications rooted in diverse ethical and global systems to transcend geographical and cultural paradigms, allowing them to think in interconnected and important ways that expand beyond the organization's boundaries and into the global community.</li> <li>Graduates of the doctoral program will be able to become participants in the global academic community, view their scholarly area from a global perspective, approach scholarly activity from a global mindset, and pursue research beyond the academic traditions of a single culture.</li> </ul>
Critical Thinking Graduates of Grand Canyon University's doctoral program will be able to understand the history of ideas, employ empirical examples in order to provide relevance and validity to ideas, and judge their capacity to act based upon various scales of intelligence to create change.	<ul> <li>Graduates of the doctoral program will be able to use critical thinking skills to sustain research and analysis for the purpose of attaining new cognitive processes, critique opinions and assumptions using intellectual reasoning free of egocentrism, and research patterns and relationships in order to promote change.</li> <li>Graduates of the doctoral program will be able to create new knowledge through critical thinking by combining and integrating different opinions to further understanding in their field.</li> </ul>
Values & Ethics Graduates of Grand Canyon University's doctoral program will be able to model and communicate at the organizational level the values and ethics formulated within the context of a global perspective by critically integrating into their decision-making and other professional actions as leaders those values and ethics.	<ul> <li>Graduates of the doctoral program will be able to integrate a multiplicity of views and perspectives to develop cultural competence through values and ethics, while having the capacity to understand and synthesize other worldviews into their actions.</li> <li>Graduates of the doctoral program will be able to formulate leadership strategies through the context of the highest ethical standards to inform behavior.</li> <li>Graduates of the doctoral program will be able to effect change and align belief systems in their respective organizations relative to the highest values and ethical standards.</li> <li>Graduates of the doctoral program will be able to investigate the historical foundations of critical thought through the context of values and ethics to find meaning, construct knowledge, and deconstruct faulty thinking.</li> </ul>

Domains	Competencies
Technology Graduates of Grand Canyon University's doctoral program will demonstrate the leadership practices that guide the use of technological tools as well as efficient and effective use of the tools themselves, including retrieving, organizing, and assessing information; securing information; and analyzing information as the basis for evidence-driven action.	<ul> <li>Graduates of the doctoral program will be able to direct the formulation of policies and implementation strategies for efficient and effective retrieval and organization of information.</li> <li>Graduates of the doctoral program will be able to judge the quality of information to determine how it can be best used for organizational problem solving, through development and application of data models, both quantitative and qualitative, to identify and project patterns and trends.</li> <li>Graduates of the doctoral program will be able to develop and implement at the organizational level practices that assure the confidentiality, quality, and continuing existence of information.</li> <li>Graduates of the doctoral program will be able to demonstrate leadership dedicated to evidence-driven action by formulating policies and implement strategies at the organizational level which will ensure efficient and effective analysis and use of information.</li> </ul>

#### Historical Sketch

Grand Canyon College was chartered on August 1, 1949, with 16 faculty and approximately 100 students, many of them veterans. In 1951 the College put up its first permanent buildings on a 90-acre tract in west Phoenix. Grand Canyon College was fully accredited in 1968 by the Commission on Institutions of Higher Education, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504, 312-263-0456, 800-621-7440

Established as a Baptist-affiliated institution with a strong emphasis on religious studies, the school initially focused on offering bachelor's degree programs in education. Over the years, the school expanded its curricula to include programs in the sciences, nursing, business, music, and arts, and developed a strong reputation for producing some of the most effective teachers, nurses, health care professionals and fine-arts students in the Southwest.

During planning for the change in institutional organization and status from Grand Canyon College to Grand Canyon University, the institution identified several landmark events that had been and would be pivotal during this transition. These included, but were not limited to, the organization of programs and departments into multiple colleges, the offering of graduate degree programs, the formation of the Grand Canyon University Foundation, and the generosity of several individuals who pledged or gave unrestricted gifts valued at one million dollars or more to launch the University into the next decade and century. In May of 1984, the College trustees voted to prepare for transition to University status on the school's 40th anniversary in 1989. Another landmark event occurred at the turn of the century that moved the University away from being owned and operated by the Arizona Southern Baptist Convention to being self-owned by the Board of Trustees.

By the early 2000's, though, GCU was struggling with maintaining its operations in light of dwindling financial support. In September 2003, the University was at a critical juncture, teetering on the verge of insolvency and facing the prospect of bankruptcy with a limited student body. In early 2004, a small group of investors acquired the University and undertook a mission to salvage GCU by focusing primarily on offering online programs to working adults. With an improving financial structure, but a languishing student body and campus, the University recruited a new leadership team in 2008 to envision a future for GCU that centered around a hybrid campus strategy that combined a thriving, traditional student body with a growing nontraditional student body focused primarily on working adults studying at the graduate level. To generate the additional capital necessary to improve its online campus infrastructure and begin the expansion of its ground, traditional campus, the University completed an initial public offering in 2008.

The University began to implement its vision in earnest by making significant investments in its campus. The University began to see a transformation in the quality and growth of its traditional student body which grew from less than 1,000 students attending its campus in 2009 to approximately 19,000 students in fall 2017, with an incoming GPA of approximately 3.5. GCU's nontraditional student body also made tremendous strides during this time as well, growing from approximately 22,000 students at the beginning of 2009 to approximately 70,000 students at the end of 2017, with greater than 50% studying in graduate programs. Almost 70% of the University's traditional students are studying in rigorous science, technology, engineering, math and business programs and the University expects to see its overall traditional student body expand to approximately 25,000 students by 2025.

In total, since 2009, the University has invested over one billion dollars in facilities and technology infrastructure. The University continues to invest in full-time faculty teaching both traditional and nontraditional students, improved technology infrastructure and programmatic expansion in high-growth, high-demand areas such as engineering, computer science, and information technology. Importantly, the University has been able to self-fund these investments with only nominal increases in tuition for nontraditional students while freezing tuition for traditional students for 10 straight years.

GCU's unique history and recent transformation are distinctive in higher education today as no other university in the country has seen such dramatic change. This is further evidenced in 2018 when GCU transitioned back to a tax-exempt IRS 501(c)(3) institution. This decision provided faculty and students equitable opportunities to participate in academic and co-curricular opportunities with peer-institutions, to operate a philanthropic foundation and provide grant writing and research opportunities for faculty and students, to invest in educational infrastructure allowing the University to continue offering tuition at levels that make private higher education affordable to all socioeconomic classes of Americans, to provide employment and career growth opportunities for faculty and staff, and continue to invest in the

communities the University serves. This transition also allowed student-athletes to participate in governance opportunities afforded by the NCAA.

#### **Board of Trustees**

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Shawn Boskie CEO, Canyon Productions B.S., Grand Canyon University

Jerry Colangelo Partner, JDM Partners, LLC

Bachelor of Education, University of Illinois Urbana-Champaign

Mike Ingram

Chairman & Founder, El Dorado Holdings, Inc.

#### Contributors

- Dave Brazell Stadium: David and Mildred Brazell
- The Cooke Health Center: Alumni Association
- Ethington Memorial Theatre: Peter and Anna Ethington
- Fleming Classroom Building and Library: Mr. and Mrs. William Fleming
- College of Nursing and Health Care Professions: Samaritan Foundation
- Tim Salmon Baseball Clubhouse: Tim and Marci Salmon
- Smith Arts Complex: C. J. and Thelma Smith
- Smithey-Parker Building: Jerry and Sarah Smithey along with Bill and Joyce Parker
- Tell Science Building: Mr. and Mrs. Andrew P. Tell
- Williams Building: Dr. Bill and Shirley Williams
- Hegel Hall: Dr. Joni Hegel

### University Seal

When the Grand Canyon College seal was adopted in 1950, two of its major components were the cross and the cactus. The saguaro cactus rises from its desert setting to signify the intellectual opportunity for Grand Canyon University students, counteracting the arid mental state of uneducated man. The cross stands prominently on the horizon as a guide for spiritual enlightenment. Between the outer circle representing the earth and the inner circle representing the wheel of progress, the name of the University and its location are inscribed. The use of the seal is permitted only with approval of the Chief Executive Officer of the University.



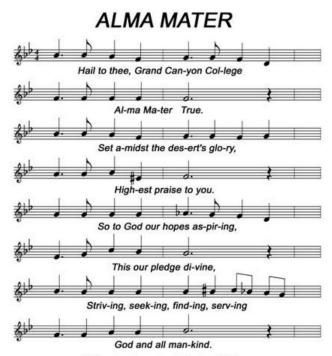
### University Mascot and Colors

The University mascot is the antelope. Antelope are native to the region surrounding Prescott, Arizona, near the college's first campus. The mascot reminds us of our heritage and humble beginnings. School colors are purple, black, and white. Students, employees, or contractors of the University shall not use the Grand Canyon University name, logo, or mascot in connection with any commercial venture without written approval of the Chief Executive Officer.



### Statement of Principle

The words of the Alma Mater summarize the attitude and spirit of Grand Canyon University:



Words and music composed by Dr. Chester S. Bagg

## University Calendar

Fall 2025: 9/2/25 – 12/14/25
Move in Date August 25, 2025 – August 27, 2025
Instruction begins
Labor Day
Veteran's Day
Final Drop Date*
Instruction Moves to Asynchronous Online for Most Courses $\Omega$
Thanksgiving Break November 27, 2025 – November 28, 2025
Face-to-face Instruction ends December 12, 2025
Living Area Closure for ALL studentsDecember 14, 2025
End of Term December 14, 2025
Final Course Grades DueDecember 21, 2025
Christmas Eve/DayDecember 24-25, 2025
Christmas Break December 15, 2025 – January 4, 2026
See Policy Handbook Refund PolicyVariable Dates
Spring 2026: 1/5/26 – 4/26/26
Move in DateJanuary 3, 2026
Instruction begins
Martin Luther King, Jr. DayJanuary 19, 2026
President's DayFebruary 16, 2026
Spring BreakMarch 9, 2026 – March 15, 2026
Final Drop DateMarch 29, 2026
Good FridayApril 3, 2026
Face-to-face Instruction endsApril 24, 2026
Move out DeadlineApril 27, 2026
End of TermApril 26, 2026
Final Course Grades DueMay 3, 2026
Summer BreakApril 27, 2026 – May 3, 2026
See Policy Handbook Refund PolicyVariable Dates
Summer 2026: 5/3/26 – 8/16/26
Instruction begins
Move in Date
Memorial Day May 25, 2026
Session A*May 3, 2026 - June 21, 2026
Session B*June 22, 2026 - August 9, 2026
Independence Day
Final Drop Date Summer A**June 7, 2026
Final Drop Date Summer B**July 26, 2026
Final Drop Date Summer 15 Week Courses**4 weeks prior to end of 15 week term
Summer Residents Move to Fall HousingJuly 31, 2026
Face-to-face Instruction endsAugust 14, 2026
Move out Date for Non-Fall ResidentsAugust 15, 2026

End of Term August 16, 2026				
Final Course Grades Due August 23, 2026				
Fall Break August 17, 2026 – September 7, 2026				
See Policy Handbook Refund PolicyVariable Dates				
Fall Nontraditional Campus Commencements***				
All CollegesWeek of October 13, 2025				
Winter Traditional Campus Commencements***				
All Colleges Week of December 8, 2025				

# Nontraditional Campus Students (Online, Evening-Satellite, and Evening-Campus)

Please note that online, onsite and offsite cohort students have classes that begin frequently. Therefore, students are encouraged to contact their University Counselor or Student Services Counselor for more information on class starts.

#### 2025 Online Christmas Break Schedule+

Graduates	.December 25, 2025 – December 31, 202	25
Undergraduates	.December 22, 2025 – December 28, 202	25

- \*For courses shorter than 15 weeks, please refer to the course drop policy in the <u>Policy Handbook</u>.......Variable Dates
- \*\*The Traditional Campus spring break does not apply to Traditional Campus Students taking online courses scheduled during the spring break.
- $\sp{***}\sp{Dates}$  and times of commencement ceremonies may be subject to change.
- •Students who begin a course during the Christmas break have a shortened break.
- $\Omega$  During this asynchronous instructional period some courses require in-person attendance (i.e Nursing, Sciences, Engineering, etc.) Faculty will notify students.

### Holiday Schedule

Holiday	Campus Offices Closed	Evening Classes <u>do not</u> Meet	Online Classes Meet	Traditional students on campus <u>do</u> <u>not</u> meet
New Year's Day 1/1/25	X	X	X	X
Martin Luther King Day 1/20/25	X	Х	X	X
President's Day 2/17/25	X	X	X	X
Good Friday 4/18/25	X	X	X	X
Memorial Day 5/26/25	X	X	X	X
Independence Day 7/4/25	X	X	X	X
Labor Day 9/1/25	X	X	X	X
Veteran's Day Observed 11/11/25		Х	X	Х
Thanksgiving and the following Friday 11/27-11/28/25	X	X	X	Х
Christmas Day 12/25/25	X	X	X	X

Online Note: Online students are encouraged to submit work early if an assignment due date falls directly on a holiday. Students are still responsible for timely submission of work.

Evening Classes Note: Classes with scheduled meeting days of the listed holidays will not meet in-person the week of the holiday. During that week, faculty members and students will participate in the online classroom, following the online participation requirements including posting substantively throughout the week.

Evening Classes and Traditional Students Note: In observation of holidays that fall on weekend days, classes <u>do not</u> meet on the Friday before a Saturday holiday, or the Monday after a Sunday holiday.

# Degrees Offered

The University offers curricula leading to the degrees of Doctor of Business Administration, Doctor of Education, Doctor of Nursing Practice, Doctor of Philosophy, Master of Arts, Master of Business Administration, Master of Divinity, Master of Education, Master of Public Administration, Master of Public Health, Master of Science, Bachelor of Arts, and Bachelor of Science, as well as offering graduate and undergraduate certificates. Please refer to the university website (<a href="www.gcu.edu">www.gcu.edu</a>) for the locations/modalities in for each program. Students should be advised that some degree programs at GCU have competitive admissions or require college-specific admission requirements beyond the University level admission requirements. If a program is offered on campus and online, the courses within the program are the same regardless of modality.

### **Doctoral Programs**

#### **Doctor of Business Administration**

The Doctor of Business Administration (D.B.A.) is designed for those who desire a deeper understanding of business theory and its application to their area of professional interest. Grand Canyon University offers the following emphases for this degree:

- Data Analytics Qualitative
- Data Analytics Quantitative
- Innovation and Corporate Entrepreneurship (Qualitative Research)
- Innovation and Corporate Entrepreneurship (Quantitative Research)
- Management Qualitative
- Management Quantitative
- Marketing Qualitative
- Marketing Quantitative

#### **Doctor of Education in Organizational Leadership**

The Doctor of Education (Ed.D.) in Organizational Leadership program is delivered through a combination of online courses and face-to-face residencies. Aspects of the program's curriculum and instruction are shared by the College of Education, College of Humanities and Social Sciences, College of Nursing and Health Care Professions, College of Theology and the Colangelo College of Business, meeting the needs of master's-prepared professionals seeking a terminal degree in leadership. Grand Canyon University offers the following emphases for this degree:

- Behavioral Health Qualitative
- Behavioral Health Quantitative
- Christian Ministry Qualitative
- · Christian Ministry Quantitative
- Health Care Administration Qualitative
- Health Care Administration Quantitative
- Higher Education Leadership Qualitative
- Higher Education Leadership Quantitative
- K-12 Leadership Qualitative
- K-12 Leadership Quantitative
- Organizational Development Qualitative
- Organizational Development Quantitative
- Special Education Qualitative
- Special Education Quantitative

# Doctor of Education in Teaching and Learning with an Emphasis in Adult Learning

The Doctor of Education in Teaching and Learning program develops educators capable of generating new knowledge and responsibly applying knowledge to achieve educational outcomes as well as mentoring, coaching, and collaborating from the perspective of the Christian worldview. Students will study the major bodies of literature in educational theory and philosophy,

will reflect critically on existing theory, will identify appropriate applications of theory, and will conceptualize philosophy from its theoretic foundation. Students will develop academic and research expertise through the study of research methodology. The program of study is consistent with Grand Canyon University's mission to develop students who are global citizens, critical thinkers, effective communicators, and responsible leaders. Grand Canyon University offers the following emphases for this degree:

- Adult Learning Qualitative
- Adult Learning Quantitative

#### **Doctor of Health Administration**

The doctorate in health administration is a terminal research degree that allows for the development of theoretical knowledge in the healthcare industry and application of that knowledge to the improvement of practice. The program will prepare established professionals to design innovative operational approaches to leadership within healthcare organizations through addressing technology, efficiency, quality, safety, and outcomes. The program will prepare students for careers in health system management, healthcare operations, healthcare research, and health policy. Credits: 60+. Grand Canyon University offers the following emphases for this degree:

- Operational Leadership Qualitative
- · Operational Leadership Quantitative

#### **Doctor of Nursing Practice**

The Doctor Nursing Practice Degree (DNP) encompasses a mixture of didactic courses and mentored practicum experiences. Each course allows for the demonstration and achievement of programmatic competencies and objectives through real-world health care systems application. The curriculum and instruction meet the needs of master's-prepared nurses seeking a terminal-practice degree. Grand Canyon University offers the following emphasis for this degree:

• Educational Leadership

# **Doctor of Philosophy in Counselor Education and Supervision**

The doctoral degree in Counselor Education and Supervision is intended to prepare graduates to work as counselor educators, supervisors, researchers, and practitioners in academic and clinical settings. The standards for this program are intended to accommodate the unique strengths of students seeking to enhance their leadership and counseling skills. Grand Canyon University offers the following emphases for this degree:

- Qualitative
- Quantitative

#### **Doctor of Philosophy in General Psychology**

The Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human actions in the past and present. Grand Canyon University offers the following emphases for this degree:

- Cognition and Instruction Qualitative
- Cognition and Instruction Quantitative
- Industrial and Organizational Psychology Qualitative
- Industrial and Organizational Psychology Quantitative
- · Integrating Technology, Learning, and Psychology Qualitative
- Integrating Technology, Learning, and Psychology Quantitative
- Performance Psychology Qualitative
- Performance Psychology Quantitative

### **Professional Programs**

#### **Education Specialist**

The Education Specialist (Ed.S.) in K-12 Leadership program develops and enhances the learner's ability to grasp, process, and apply doctoral-level constructs that positions them for organizational governance, capacity building, and vision casting.

### Master Programs

#### **Master of Arts**

The Master of Arts is granted to those students who have completed a bachelor's degree at an accredited, GCU-approved institution and are seeking a Master of Arts degree.

- Autism Spectrum Disorders
- Christian Leadership
- Christian Ministry
- · Christian Studies
- CommunicationEmphasis in Education
- · Curriculum and Instruction
- English
  - o Emphasis in Education
- Higher Education Student Affairs
- History
  - o Emphasis in Education
- Reading
  - o Emphasis in Elementary Education
- Reading Education K-12
- Teaching English to Speakers of Other Languages
- Urban Ministry
- Youth and Family Ministry

#### **Master of Business Administration**

The Master of Business Administration is designed for those students who have previously completed a bachelor's degree at an accredited, GCU-approved institution.

- Emphases in:
  - o Accounting
  - o Business Analytics
  - Cybersecurity
  - o Finance
  - o Health Systems Management
  - o Leadership

- Marketing
- o Project Management
- o Sports Business
- o Strategic Human Resource Management
- o Supply Chain Management

# Master of Business Administration and Master of Science in Leadership

The Master of Business Administration and Master of Science in Leadership is designed for those students who have previously completed a bachelor's degree at an accredited, GCU-approved institution.

# Master of Business Administration and Master of Science in Nursing

The Master of Business Administration and Master of Science in Nursing is designed for those students who have previously completed a bachelor's degree at an accredited, GCU-approved institution.

- Emphasis in:
  - o Nursing Leadership in Health Care Systems

#### **Master of Divinity**

The Master of Divinity is the standard degree for professional ministry preparation and is designed for students who intend to serve in local churches, Christian organizations, and other ministerial roles. The Master of Divinity program offers comprehensive biblical and theological knowledge while developing skills necessary for effective Christian ministry. This degree features a foundational, pastorally oriented program of study that emphasizes the centrality of the gospel, the significance of the church, and the pressing need to advance the Kingdom of God through missions.

#### Master of Education

The Master of Education degree is designed for students who have previously completed a bachelor's degree at an accredited, GCU-approved institution and may be seeking certification at the elementary or secondary level. An advanced Program of Study is included in that preparation or can be obtained after certification requirements are completed. This degree is available in the following specialized areas:

- · Early Childhood Education
- Early Childhood Education and Early Childhood Special Education
- Educational Administration
  - o Emphasis in Christian Education
  - o Emphasis in School Business and Finance
- Educational Leadership
  - o Emphasis in K-12 Christian Education
- Elementary Education
- Elementary Education and Special Education
- School Counseling
- Secondary Education
- o Emphasis in Humanities\*
- o Emphasis in Humanities¢
- Emphasis in Science Technology Engineering and Mathematics\*
- Emphasis in Science Technology Engineering and Mathematics¢
- Secondary Humanities Education

- Secondary STEM Education
- Special Education
- Special Education: Moderate to Severe
- \* Initial Program Leads to Initial Teacher Licensure
- ¢ Initial Program Does Not Lead to Initial Teacher Licensure

#### **Master of Public Administration**

The Master of Public Administration is designed for those students who have previously completed a bachelor's degree at an accredited, GCU-approved institution.

- Emphases in:
  - o Government and Policy
  - o Health Care Management
  - o Non-Profit Management

#### **Master of Public Health**

The Master of Public Health is designed for those students who have previously completed a bachelor's degree at an accredited, GCU-approved institution.

#### **Master of Science**

The Master of Science is granted to those students who have completed a bachelor's degree at an accredited, GCU-approved institution and are seeking a Master of Science degree.

- Accounting
  - o Emphasis in Tax Compliance and Planning
- Addiction Counseling
- Artificial Intelligence
- Athletic Training
- Biology
  - o Emphasis in Education
- Business Analytics
- Chemistry
  - o Emphasis in Education
- Christian Counseling
  - o Emphasis in Substance Use and Addiction Disorders
- Clinical Mental Health Counseling
  - o Emphasis in Childhood and Adolescence Disorders
  - o Emphasis in Christian Counseling
  - o Emphasis in Marriage and Family Therapy
  - o Emphasis in Trauma
- Computer Science
- Criminal Justice
  - o Emphasis in Law Enforcement
  - o Emphasis in Legal Studies
- Cybersecurity
- Cybersecurity Management
- Data Science
- · Electrical Engineering
- Engineering Management
- · Exercise Physiology
- Forensic Science
- Health Informatics
- Information Assurance and Cybersecurity
- Information Technology
- Instructional Design
- Instructional Technology
- Leadership
  - Emphasis in Disaster Preparedness and Executive Fire Leadership

- Emphasis in Homeland Security and Emergency Management
- Mathematics
  - o Emphasis in Education
- Mental Health and Wellness
  - o Emphasis in Christian Ministry
  - o Emphasis in Community Mental Health Administration
  - o Emphasis in Family Dynamics
  - o Emphasis in Grief and Bereavement
  - o Emphasis in Integrated Health
  - o Emphasis in Prevention
- Nursing
  - Emphasis in Acute Care Nurse Practitioner with an Emphasis in Adult Gerontology
  - o Emphasis in Family Nurse Practitioner
  - o Emphasis in Health Care Quality and Patient Safety
  - o Emphasis in Health Informatics
  - o Emphasis in Leadership in Health Care Systems
  - o Emphasis in Nursing Education
  - o Emphasis in Psychiatric Mental Health Nurse Practitioner
  - o Emphasis in Public Health Nursing
- · Nutrition and Dietetics
- Occupational Therapy
- Professional Counseling
- Psychology
  - o Emphasis in Forensic Psychology
  - Emphasis in General Psychology
  - o Emphasis in GeroPsychology
  - o Emphasis in Health Psychology
  - o Emphasis in Human Factors Psychology
  - o Emphasis in Industrial and Organizational Psychology
  - o Emphasis in Life Coaching
- Sociology
  - o Emphasis in Education
- Software Development
- Software Engineering
- Speech-Language Pathology
- Sustainability
- Systems Engineering

#### Master of Science in Health Administration

- Emphasis in:
  - o Health Care Quality and Patient Safety

#### Master of Social Work

- Emphasis in:
  - Advanced Standing

#### Post-Master of Arts Graduate Diploma/Certificate

The Post-Master of Arts in Theology Certificate provides experienced professionals with fundamental understandings and skills that prepare them to properly interpret and communicate the biblical text for the sake of ministry within a local church.

- Theology
  - o Emphasis in Introductory Biblical Languages

# Post-Master of Science Graduate Diploma/Certificate

- Counseling
  - o Emphasis in Addiction Counseling
  - o Emphasis in Childhood and Adolescence Disorders

- o Emphasis in Marriage and Family Therapy
- o Emphasis in Trauma
- Nursing
  - Emphasis in Acute Care Nurse Practitioner Certificate with an Emphasis in Adult Gerontology
  - o Emphasis in Family Nurse Practitioner Cert
  - o Emphasis in Nursing Education Certificate
  - Emphasis in Psychiatric Mental Health Nurse Practitioner Certficate

# Graduate Certificates of Completion

Graduate certificates of completion are designed for working professionals who hold a bachelor's and/or master's degree. These programs provide the opportunity for students to gain credits in master's-level coursework without having to enroll in and complete a graduate program of study. Coursework is designed to give students advanced knowledge and skills in a particular area of study that is pertinent to their career and life goals.

- Innovation and Corporate Entrepreneurship
- Leadership
- Performance Psychology
- · Advanced Biblical Languages
- Artificial Intelligence
- Christian Theology
- Cybersecurity
- Data Science
- Instructional Coaching
- · Learning Behavior Specialist 1
- Ministry Education
- Servant Leadership
- Software Engineering
- Canyon L.E.A.P. to Teach Pathway, Elementary Education
- Canyon L.E.A.P. to Teach Pathway, Secondary Education
- Biblical Foundations
- · Christian Counseling
- Communication
- Distance Learning
- English
- · Forensic Psychology
- GeroPsychology
- · Health Care Quality and Patient Safety
- Health Psychology
- History
- · Homeland Security and Emergency Management
- Human Factors Psychology
- · Industrial and Organizational Psychology
- Life Coaching
- Mathematics
- Mental Health and Wellness
  - o Community Mental Health Administration
  - o Christian Ministry
  - o Family Dynamics
  - o Grief and Bereavement
  - o Integrated Health
- Project Management
- Sociology
- · Teaching English to Speakers of Other Languages

Special Education: Mild to ModerateSpecial Education: Moderate to Severe

### Baccalaureate Programs

#### **Bachelor of Arts**

The Bachelor of Arts degree is granted to majors who complete all requirements in one the following areas:

- Advertising and Graphic Design
- Broadcasting
- · Christian Ministry
- Christian Studies
  - Emphasis in Biblical Studies
  - Emphasis in Biblical Studies
  - o Emphasis in Global Ministry
  - o Emphasis in Global Ministry
  - o Emphasis in Philosophy
  - o Emphasis in Philosophy
  - o Emphasis in Worship Leadership
  - o Emphasis in Worship Leadership
  - o Emphasis in Youth Ministry
  - o Emphasis in Youth Ministry
- · Commercial Music
- Communication
  - o Emphasis in Broadcasting and New Media
  - Emphasis in Interpersonal Communication and Human Relationships
- Dance
- Dance Secondary Education
- Digital Design
  - o Emphasis in Animation
  - o Emphasis in Web Design
- Digital Film
  - o Emphasis in Editing and Visual Effects
  - o Emphasis in Production
  - o Emphasis in Screenwriting
- English
- English for Secondary Education
- Game Design
- Government
  - o Emphasis in Legal Studies
  - o Emphasis in Public Administration
- History
- · History for Secondary Education
- Music
  - o Emphasis in Instrumental Performance
  - o Emphasis in Piano Performance
  - o Emphasis in Voice Performance
- Music Education
  - o Emphasis in Choral: Voice\*
  - Emphasis in Instrumental: Brass, Woodwind, Percussion, or Strings\*
- · Professional Writing for New Media
- Social Media
- Spanish
- Theatre
  - o Emphasis in Theatre and Drama
- Theatre Secondary Education
- Worship Arts
  - o Emphasis in Media and Production Ministry
  - o Emphasis in Media and Production Ministry

- o Emphasis in Worship Ministry
- Emphasis in Worship Ministry
- \* Initial Program Leads to Initial Teacher Licensure

#### **Bachelor of Science**

The Bachelor of Science degree is granted to majors who complete all requirements in one the following areas:

- Accounting
  - o Emphasis in Public Accounting
- Applied Business Analytics
- Applied Business Information Systems
- Applied Cybersecurity Management
- Applied Entrepreneurship
- · Applied Human Resources Management
- Applied Management
- · Applied Marketing and Advertising
- Applied Technology
- · Artificial Intelligence
- Behavioral Health Science
  - o Emphasis in Childhood and Adolescence Disorders
  - Emphasis in Family Dynamics
  - o Emphasis in Infancy and Early Childhood Studies
  - o Emphasis in Substance Use Disorders
  - o Emphasis in Trauma
- · Biological Sciences
- Biology
  - o Emphasis in Pre-Dentistry
  - o Emphasis in Pre-Medicine
  - o Emphasis in Pre-Pharmacy
  - o Emphasis in Pre-Physician Assistant
  - o Emphasis in Pre-Veterinary Medicine
- Biology for Secondary Education
- · Biomedical Engineering
- Business Administration
- · Business Analytics
- Business Information Systems
- · Business Management
- Chemistry
- · Communication Sciences and Disorders
- Computer Engineering
- Computer Science
  - Emphasis in Big Data Analytics
  - o Emphasis in Business Entrepreneurship
  - o Emphasis in Game and Simulation Development
- Counseling
  - Emphasis in Addiction, Chemical Dependency, and Substance Abuse
- · Cybersecurity
- Cybersecurity Management
- Early Childhood Education
- Early Childhood Education and Early Childhood Special Education
- Economics
- · Educational Studies
- Electrical Engineering
  - o Emphasis in Power Systems
- Elementary Education
  - o Emphasis in Christian Education\*
  - o Emphasis in English as a Second Language\*
  - Emphasis in Science Technology Engineering and Mathematics\*

- Emphasis in Teaching Reading\*
- Elementary Education and Special Education
- Engineering
  - Emphasis in Project Management
- Entrepreneurial Studies
  - o Emphasis in Engineering Management
  - o Emphasis in Technology Management
- Environmental Science
- o Emphasis in Environmental Chemistry
- Exercise Science
  - o Emphasis in Pre-Athletic Training
  - o Emphasis in Pre-Physical Therapy
  - o Emphasis in Sports Performance
- Finance
- o Emphasis in Financial Planning
- Finance and Economics
- Fire Science
- Forensic Science
- Game Development
- Health Care Administration
- Health Information Management
- Health Science
- · Health Sciences
- Homeland Security and Emergency Management
- Hospitality and Tourism Management
- Hospitality Management
- Industrial Engineering
- Information Technology
- o Emphasis in Cybersecurity
- Justice Studies
- Law Enforcement Advancement
- Marketing and Advertising
- Mathematics for Secondary Education
- Mechanical Engineering
  - Emphasis in Aerospace
  - o Emphasis in Robotics
- Mechanical Engineering Technology
  - o Emphasis in Mechatronics
- Medical Laboratory Science
- Emphasis in MLT to MLS Molecular and Cellular Biology
- Nursing
  - o Emphasis in Pre-Licensure
- o Emphasis in Pre-Licensure
- o Emphasis in RN to BSN
- Nutritional Sciences
- Occupational Therapy Assistant
- Physical Education
- · Professional Sales and Marketing
- Psychology
  - o Emphasis in Forensic Psychology
  - o Emphasis in Performance and Sport Psychology
- Public Health
- Risk Management
- Sociology
- Software Development
- o Emphasis in Mobile Application Development
- Software Engineering
- Sports and Entertainment Management
- Sports Management
- Supply Chain and Logistics Management

- \* Initial Program Leads to Initial Teacher Licensure
- ¢ Initial Program Does Not Lead to Initial Teacher Licensure

#### **Bachelor of Social Work**

# Undergraduate Diploma/Certificate - Undergraduate

- Biblical Studies
- C#.NET Programming
- Christian Theology
- Christian Worldview Studies
- CNC Machinist
- · Cybersecurity Foundations
- Elec
- Full-Stack Software Development
- Java Programming
- Programming in C#

#### **Minors**

- Accounting
- Advertising and Graphic Design
- African American Experiences
- Air Force (ROTC)
- · Animation Design
- Army (ROTC)
- Athletic Coaching
- Behavioral Health Sciences
- Biblical Studies
- Biological Sciences
- · Business Analytics
- Business Management
- Chemistry for Chemical and Structural Analysis
- Chemistry for Life Sciences
- Chemistry for Physical Science and Engineering
- · Child and Family Services
- Christian Ministry (Pre-Seminary)
- Christian Theology
- Christian Worldview Studies
- Communication
- Counseling
- Criminal Justice
- · Cybersecurity
- Dance
- Dietetic Preparation
- Digital Design
- Digital Film
- Entrepreneurial Studies
- Exercise Science
- Faith and Free Markets

- Finance and Economics
- · Food and Nutrition Management
- Forensic Psychology
- Forensic Science
- General Business
- Hispanic Experiences
- History
- Hospitality Management
- Human Services Case Management
- Literature
- Marketing
- Mathematics
- Media and Production Ministry
- Music Instrumental
- Music Piano
- Music Vocal
- · Musical Theatre
- · Networking Technology
- Nutrition
- Object Oriented Programming in C#
- Object Oriented Programming in Java
- · Performance and Sport Psychology
- Philosophy
- Photography
- Pre-Athletic Training
- Pre-Law
- Pre-Medicine
- Professional Writing
- Psychology
- · Public Administration
- Short-Term Missions
- Social Media
- Social Work
- · Sports and Entertainment Management
- Sports Performance
- Spanish
- · Spiritual Formation and Discipleship
- · Supply Chain and Logistics Management
- Theatre
- Web Application Development
- Web Design
- Weight Management and Health
- Worship Arts
- Worship Ministry

Note: Students should contact a University Counselor or Student Services Counselor for more information about program availability.

# General Education Requirements

General Education coursework prepares Grand Canyon University graduates to think critically, communicate clearly, live responsibly in a diverse world, and thoughtfully integrate their faith and ethical convictions into all dimensions of life. These competencies, essential to an effective and satisfying life, are outlined in the General Education Learner Outcomes. General Education courses embody the breadth of human understanding and creativity contained in the liberal arts and sciences tradition. Students take an array of foundational knowledge courses that promote expanded knowledge, insight, and the outcomes identified in the University's General Education Competencies. The knowledge and skills students acquire through these courses serve as a foundation for successful careers and lifelong journeys of growing understanding and wisdom.

### General Education Information

#### **Requirements for Minnesota Students**

Minnesota students should refer to the Minnesota-specific General Education requirements below, and consult their Student Services Counselor if necessary.

#### **Recommended Sequence for Online Students**

It is recommended that online students at Grand Canyon University use the suggested GCU Course Options identified in the table below and complete the sequence of general education courses in the following order:

Bachelor of Arts	Bachelor of Science
UNV-103/303 <sup>Ω</sup>	UNV- $103/303^{\Omega}$
UNV-104	UNV-104
PSY-102	PHI-105
ENG-105 <sup>∆</sup>	ENG-105 <sup>∆</sup>
SOC-100	PSY-102
CWV-101/301 <sup>Ω</sup>	CWV-101/301 <sup>Ω</sup>
Major Course 1	Major Course 1
ENG-106 <sup>∆</sup>	ENG-106 <sup>∆</sup>
MAT-144	BIO-220
Major Course 2	Major Course 2
INT-244	SOC-100
COM-263	MAT-154 or MAT-144*

Students enrolled in the traditional campus may have a wider variety of options available in which to satisfy their general education requirements. Please contact your Student Services Counselor.

<sup>\*</sup>Math requirement is dependent on Program of Study.

### Bachelor of Arts

Competency	Requirements	GCU Course Options	Total Credits	
University Foundations	Upon completion of Grand Canyon University's University Foundation experience, students will be able to demonstrate competency in the areas of academic skills and self-leadership. They will be able to articulate the range of resources available to assist them, explore career options related to their area of study, and have knowledge of Grand Canyon's community. Students will be able to:  • Demonstrate foundational academic success skills • Explore GCU resources (CLA, library, Career Center, ADA office, etc.)  • Articulate strategies of self-leadership and self-management • Recognize opportunities to engage in the GCU community.  Students with fewer than 24 credits will fulfill the University Foundations requirement with a specified lower-division course. An upper-division selection will be made available to students who enter the university with more than 24 credits.	UNV-103/303: University Success, 4 credits     UNV-106: University On-Campus Success, 4 credits	4	
Effective Communication	Graduates of Grand Canyon University will be able to construct rhetorically effective communications appropriate to diverse audiences, purposes, and occasions (English composition, communication, critical reading, foreign language, sign language, etc.). Students are required to take 3 credits of English grammar or composition.	<ul> <li>UNV-104: 21<sup>st</sup> Century Skills: Communication and Information Literacy, 4 credits</li> <li>ENG-105: English Composition I, 4 credits<sup>△</sup></li> <li>ENG-106: English Composition II, 4 credits<sup>△</sup></li> <li>COM-263: Elements of Intercultural Communication, 4 credits</li> </ul>	13-16	
Christian Worldview	Graduates of Grand Canyon University will be able to express aspects of Christian heritage and worldview. Students are required to take CWV-101 or CWV-301.	CWV-101/301: Christian Worldview, 4 credits	4	
Critical Thinking	Graduates of Grand Canyon University will be able to use various analytic and problem-solving skills to examine, evaluate, and/or challenge ideas and arguments. Students are required to take 3 credits of college mathematics or higher.	MAT-144: College Mathematics, 4 credits	3-4	
Global Awareness, Perspectives, and Ethics	Graduates of Grand Canyon University will be able to demonstrate awareness and appreciation of and empathy for differences in arts and culture, values, experiences, historical perspectives, and other aspects of life (psychology, sociology, government, Christian studies, Bible, geography, anthropology, economics, political science, child and family studies, law, ethics, cross-cultural studies, history, art, music, dance, theater, applied arts, literature, health, etc.).	<ul> <li>INT-244: World Religions, 4 credits</li> <li>PSY-102: General Psychology, 4 credits</li> <li>SOC-100: Everyday Sociology, 4 credits</li> <li>If the predefined course is a part of the major, students need to take an additional course.</li> </ul>	10-12	

### Bachelor of Science

Competency	Requirements	GCU Course Options	Total Credits
University Foundations	Upon completion of Grand Canyon University's University Foundation experience, students will be able to demonstrate competency in the areas of academic skills and self-leadership. They will be able to articulate the range of resources available to assist them, explore career options related to their area of study, and have knowledge of Grand Canyon's community. Students will be able to:  • Demonstrate foundational academic success skills • Explore GCU resources (CLA, library, Career Center, ADA office, etc.)  • Articulate strategies of self-leadership and self-management • Recognize opportunities to engage in the GCU community.  Students with fewer than 24 credits will fulfill the University Foundations requirement with a specified lower-division course. An upper-division selection will be made available to students who enter the university with more than 24 credits.	UNV-103/303: University Success, 4 credits (Required)     UNV-106: University On-Campus Success, 4 credits     UNV-108: University Success in the College of Education, 4 credits     UNV-112: Success in Science, Engineering and Technology & Lab, 4 credits	4
Effective Communication	Graduates of Grand Canyon University will be able to construct rhetorically effective communications appropriate to diverse audiences, purposes, and occasions (English composition, communication, critical reading, foreign language, sign language, etc.). Students are required to take 3 credits of English grammar or composition.	<ul> <li>UNV-104: 21<sup>st</sup> Century Skills: Communication and Information Literacy, 4 credits</li> <li>ENG-105: English Composition I, 4 credits<sup>△</sup></li> <li>ENG-106: English Composition II, 4 credits<sup>△</sup></li> </ul>	9-12
Christian Worldview	Graduates of Grand Canyon University will be able to express aspects of Christian heritage and worldview. Students are required to take CWV-101 or CWV-301.	CWV-101/301: Christian Worldview, 4 credits	4
Critical Thinking	Graduates of Grand Canyon University will be able to use various analytic and problem-solving skills to examine, evaluate, and/or challenge ideas and arguments (mathematics, biology, chemistry, physics, geology, astronomy, physical geography, ecology, economics, logic, philosophy, technology, statistics, accounting, etc.). Students are required to take 3 credits of intermediate algebra or higher.	PHI-105: 21st Century Skills:     Critical Thinking and Problem     Solving, 4 credits     MAT-144: College     Mathematics or MAT-154:     Applications of College     Algebra, 4 credits     BIO-220: Environmental     Science, 4 credits	11-12
Global Awareness, Perspectives, and Ethics	Graduates of Grand Canyon University will be able to demonstrate awareness and appreciation of and empathy for differences in arts and culture, values, experiences, historical perspectives, and other aspects of life (psychology, sociology, government, Christian studies, Bible, geography, anthropology, economics, political science, child and family studies, law, ethics, cross-cultural studies, history, art, music, dance, theater, applied arts, literature, health, etc.).	HIS-144: U.S. History     Themes, 4 credits     PSY-102: General     Psychology, 4 credits     SOC-100: Everyday     Sociology, 4 credits  If the predefined course is a part of the major, students need to take an additional course.	6-8

## Honors College

### Honors College Description

The Honors College at Grand Canyon University oversees the success of honors students as they progress through and complete required coursework in the honors program. Each college has a unique set of courses that must be taken to successfully complete the honors program and to earn a certificate of honors from the Honors College. Each college's honors program is designed to challenge students in the areas of personal and academic growth, as well as influence students' mental paradigms for viewing the world in which they live. This is accomplished by holistically developing competencies in the areas of decision-making and research, ethics, leadership, service, and cultural awareness. In particular, students will drive change that affects their community.

### Honors College Mission

The Honors College at Grand Canyon University is dedicated to cultivating a learner-centric environment that promotes character and integrity, intellectual growth and practical application through interdisciplinary collaboration. We empower students to amplify their purpose through intentional curricula and comprehensive co-curricular experiences. Honors graduates emerge as adept communicators, evidence-based decision-makers and deliberate global contributors while becoming good stewards of their faith and purpose.

### Honors College Goals

While the outcomes of the honors program cannot be confined to a list of specific tangible targets, servant leadership and scholarship are its overarching goals. The honors program:

- Focuses on transforming students academically through a broad exposure to many disciplines while being challenged to higher levels of thinking within those disciplines.
- Expects students to acquire Habits of Mind and novel ways of thinking that prepare them to analyze relevant issues and to become change agents who problem-solve solutions to realworld applications in innovative ways.
- Provides avenues for students to represent the university as ambassadors who display servant leadership through experiential learning and service opportunities.

### Programs Requirements

The following expectations for coursework must be completed in order to earn a special designation upon graduation from the Honors College. The honors program requires 28 credits of honors coursework as well the successful completion of an HON prefix course.

Students that transfer in an approved equivalent of an honors general education course through GCU dual-enrollment or from a college or university must complete an additional honors course.

For questions, please review the Honors College website for additional details at <a href="www.gcu.edu/honors">www.gcu.edu/honors</a> or contact the Honors College at GCUHonors@gcu.edu.

#### **Degree Requirements - Freshman**

Total Honors C	ollege Coursework	28 credits
Honors General	<b>Education Coursework</b>	
$\underline{\text{HUM-109HN}}^{\Omega}$	Knowledge and Technology in th Humanities	e 4 credits
<u>CWV-106HN<sup>≠Ω</sup></u>	Christianity: Story, Theology, and Mission	d 4 credits
$\underline{\text{HUM-201HN}^{\not \Omega}}$	Intersections of the Humanities and Sciences	4 credits
COM-211HN	Honors Public Speaking	4 credits
HON-110 <sup>‡</sup> Ω	Honors Symposium	0 credits

#### Degree Requirements - Transfer Student

Total Honors College Coursework

28 credits\*

All Honors General Education Coursework will apply to the General Education or elective requirement.

\*If the student has already completed UNV-103, CWV-101 or ENG-106 as non-honors prior to being accepted into the Honors College, he/she will make up the honors credits by completing honors addenda or honors enrichment contracts for other courses in his/her program.

\*Internal transfer students must complete the full honors application and be accepted to the Honors College prior to reaching their final 40 credits of coursework within their program.

Total Honors College Coursework

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# The Colangelo College of Business

### College Description

The Colangelo College of Business (CCOB) focuses on providing cutting-edge and innovative courses designed to meet students' career needs. The College offers Programs of Study for those who desire the traditional four-year baccalaureate degree, accelerated degree-completion programs for working adults, and graduate degrees for working professionals. The College's academically qualified faculty has relevant business and teaching experience and is committed to providing an excellent business education through the primacy of teaching, offering small class sizes, and building student-faculty relationships that foster the student's academic and professional growth.

### College Mission

The Colangelo College of Business challenges and inspires students to be servant leaders with the business skills and values necessary to drive organizational success and positively impact society.

### College Features

The Colangelo College of Business is comprised of two academic schools. Each school serves a unique set of students and offers quality programs to meet specific students' career needs.

### School of Business Studies

The School of Business Studies exists to serve both undergraduates who are preparing to initiate careers and working professionals who are seeking to develop their careers further. All programs within the School of Business Studies are developed in accordance with the accreditation standards of the Accreditation Council of Business Schools and Programs (ACBSP), which requires that a program be in existence for two or more years before it receives accreditation. Programs in the School of Business Studies that have reached this threshold and received ACBSP accreditation include the Bachelor of Science in Accounting, Bachelor of Science in Business Administration, Bachelor of Science in Entrepreneurial Studies, Bachelor of Science in Finance and Economics, Bachelor of Science in Marketing and Advertising, and Master of Business Administration.

# School of Business Studies: Undergraduate Programs

The School of Business Studies offers a Bachelor of Science degree with majors in Accounting, Business Administration, Entrepreneurial Studies, Finance and Economics, Marketing, and Sports and Entertainment Management. The accounting major and the finance and economics major are designed to prepare students for professional practice in corporate accounting and finance or for management positions in business. Completing the requirements for the accounting major qualifies students to sit for the Certified Management Accountant (CMA) examination and for the Certified Public Accountant (CPA) exam in most states. The entrepreneurship major is designed for students who desire to start their own business, or be a change agent for innovation within larger organizations. The business administration major is a broadly-based degree that emphasizes technical, human, and conceptual skills that encompass all functional areas of business. The marketing major combines a strong business core with special emphasis in market forces, marketing strategy, and sales management. The sports and entertainment management major

prepares students to become professional managers in areas such as sports marketing, sports media, amateur and professional athletics, and sports and entertainment event planning.

#### **Bachelor of Science in Accounting**

The Bachelor of Science in Accounting program prepares graduates for a future career working as an accountant. Upon completing the bachelor's degree in accounting, students possess the skills necessary to work in a variety of careers, such as corporate accounting, financial analysis, tax preparation, and internal auditing. Learning the core foundations of accounting principles and procedures, students qualify to sit for the Certified Management Accountant (CMA) exam. Coursework for the bachelor's degree in accounting includes a focus on accounting principles and theories necessary for preparing financial statements in the United States. Principles of management accounting, including decision making, financial analysis, and cost accounting are also examined in this bachelor's degree in accounting.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Accounting Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Accounting Program Credits	120 credits

#### **Accounting Major**

Accounting Major

BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
BUS-352	Business Statistics	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
ECN-361	Microeconomics	4 credits
ACC-370	Intermediate Accounting I	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
ECN-362	Macroeconomics	4 credits
ACC-360	Cost Accounting	4 credits
ACC-371	Intermediate Accounting II	4 credits
MGT-420	Organizational Behavior and	4 credits
	Management	
ACC-486	Financial Statement Analysis	4 credits
<u>BUS-485<sup>≠∆</sup></u>	Strategic Management	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Bachelor of Science in Accounting with an Emphasis in Public Accounting

Grand Canyon University's Bachelor of Science in Accounting with an Emphasis in Public Accounting prepares graduates for a future career working as an accountant. Immediately upon completing the bachelor's degree in accounting, students will be provided with the skills necessary to work in a variety of careers within public accounting, such as a staff accountant, tax accountant, or auditor. Graduates may qualify to sit for the Certified Public Accountant (CPA) exam in most states, while continuing to work toward the 150-credit-hour minimum required for licensure. It is recommended that that students continue on to the Master of Science in Accounting in order to meet the educational requirements for becoming licensed as a CPA.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Accounting with an Emphasis in Public Accounting Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Accounting with an Emphasis in Public Accounting Program Credits	120 credits

#### Accounting with an Emphasis in Public Accounting Major

<u>BIT-200</u> <sup>≠</sup>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
ACC-335	Accounting Information Systems	4 credits
BUS-352	Business Statistics	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
ECN-361	Microeconomics	4 credits
ACC-361	Intermediate Managerial Accounting	4 credits
ACC-370	Intermediate Accounting I	4 credits
ACC-337	Introduction to Accounting Analytics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
ECN-362	Macroeconomics	4 credits
ACC-371	Intermediate Accounting II	4 credits
ACC-460	Taxation	4 credits
ACC-491	Auditing	4 credits
MGT-420	Organizational Behavior and	4 credits
BUS-485 <sup>₹∆</sup>	Management Strategic Management	4 credits
ACC-465	Taxation II	4 credits
ACC-425	Ethics in Accounting	4 credits

Accounting with an Emphasis in Public Accounting  $\overline{80}$  credits Major

#### **Bachelor of Science in Applied Business Analytics**

Grand Canyon University's Bachelor of Science in Applied Business Analytics program prepares students for career options that include business analytics analyst, business intelligence analyst, data analyst, business analytics manager, and business intelligence manager. Students examine the fundamentals of database structures, data mining, business analytics, and project management. Students also examine the role of governance and ethics within information technology with specific emphasis on preparing for an audit, complying with government regulations, and understanding data-privacy issues. Graduates are prepared to extract, analyze, and interpret data to help enable decision making within data-driven business environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Business Analytics Major	44 credits
Total Electives	36-42 credits
Total Bachelor of Science in Applied	120 credits

#### **Applied Business Analytics Major**

**Business Analytics Program Credits** 

<u>BIT-205</u>	Introduction to Computer Technology and Analytics	4 credits
BUS-352	Business Statistics	4 credits
SYM-400	Introduction to Relational Databases	4 credits
<u>SYM-408</u>	Relational Databases for Business Applications	4 credits
<u>BIT-320</u>	Introduction to Programming for Data Science	4 credits
BIT-431	Data Visualization	4 credits
BIT-446	Data Mining Foundations	4 credits
BIT-415	IT Project Management	4 credits
<u>BIT-417</u> <sup>∆</sup>	IT Governance and Ethics	4 credits
BIT-435	Advanced Business Analytics	4 credits
BIT-456	Special Topics in Business Analytics	4 credits

Applied Business Analytics Major 44 credits

This GCU degree is included in the Air University Associate Baccalaureate Cooperative (AU-ABC) partnership which offers baccalaureate degree opportunities to Community College of the Air Force graduates.

# **Bachelor of Science in Applied Business Information Systems**

Grand Canyon University's Bachelor of Science in Applied Business Information Systems will examine the fundamentals of business information systems and technology, including programming, principles of database management, networking, IT project management, and ethical considerations related to IT governance.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Business Information Systems	52 credits
Major	
Total Electives	28-34 credits

Total Bachelor of Science in Applied 120 credits Business Information Systems Program Credits

#### **Applied Business Information Systems Major**

CST-111	Introduction to Computer Science and	4 credits
	Information Technology Lecture	
<u>ITT-116</u>	Platforms and Network Technologies	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>ITT-121</u>	System Administration and Maintenance	4 credits
BUS-352	Business Statistics	4 credits
<u>BIT-210</u>	Object-Oriented Programming for Business	4 credits
SYM-400	Introduction to Database Structures	4 credits
SYM-408	Relational Databases for Business	4 credits
<u>BIT-310</u>	Applications Information Systems Design and Development	4 credits
BIT-415	IT Project Management	4 credits
<u>BIT-417</u> <sup>∆</sup>	IT Governance and Ethics	4 credits
MGT-455	Production/Operations Management	4 credits
BIT-460	Enterprise Systems Integration	4 credits
BIT-470 <sup>∆‡</sup>	Strategic Information Systems Management	4 credits
Applied Busin	ness Information Systems Major	52 credits

This GCU degree is included in the Air University Associate Baccalaureate Cooperative (AU-ABC) partnership which offers baccalaureate degree opportunities to Community College of the Air Force graduates.

#### **Bachelor of Science in Applied Cybersecurity** Management

Grand Canyon University's Bachelor of Science in Applied Cybersecurity Management program prepares students to compete for leading positions in IT security-related fields by developing skills to become an effective managerial liaison between the technical and non-technical cybersecurity spaces. Students focus on cybersecurity management principles that relates to an organization's processes, technology, and stakeholders.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Cybersecurity Management	48 credits
Major	
Total Electives	32-38 credits
Total Bachelor of Science in Applied	120 credits
Cybersecurity Management Program Credits	

#### **Applied Cybersecurity Management Major**

II		
<u>BIT-205</u>	Introduction to Computer Technology and Analytics	4 credits
<u>CYB-220</u>	Cyber Law and Privacy in a Digital Age	4 credits
CYB-300	Fundamentals in Cybersecurity	4 credits
MKT-315	Introduction to Marketing	4 credits
BUS-317	Financial Decision Making	4 credits
<u>CBM-350</u>	Quality Management of Information Security	4 credits
BIT-415	IT Project Management	4 credits
BIT-417	IT Governance and Ethics	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
<u>MGT-420</u>	Organizational Behavior and Management	4 credits
BUS-470	Applied Business Project	4 credits

<u>CBM-490</u>	Cybersecurity Management and Leadership	4 credits
Applied Cyb	ersecurity Management Major	48 credits

#### **Bachelor of Science in Applied Entrepreneurship**

The Bachelor of Science in Applied Entrepreneurship program addresses the areas of innovation, entrepreneurial spirit, and business skills in order to develop the global citizens, critical thinkers, effective communicators, and responsible leaders required in today's global economy. The program is built on the principles of personal integrity, values, and innovation. It provides students with the personal and business skills to think analytically, ask the right questions, solve problems, and function as entrepreneurs in their own business or intrapreneurs in larger companies.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Entrepreneurship Major	36 credits
Total Electives	44-50 credits
Total Bachelor of Science in Applied Entrepreneurship	120 credits

#### Applied Entrepreneurship Major

Applied Entrepreneurship Major

MKT-315	Introduction to Marketing	4 credits
ENT-320	Public Relations and Networking Skills	4 credits
BUS-317	Financial Decision Making	4 credits
MGT-420	Organizational Behavior and Management	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
ENT-446	Business Execution	4 credits
MGT-440	Project Management	4 credits
ENT-420	New Venture Financing	4 credits
<u>BUS-470</u>	Applied Business Project	4 credits
Applied Entr	repreneurship Major	36 credits

#### **Bachelor of Science in Applied Human Resources** Management

Grand Canyon University's Bachelor of Science in Applied Human Resources Management program prepares graduates to possess the skills necessary for careers in talent management – one of the essential business functions. Learning the core foundations of Human Resources Management (HRM) principles and procedures, students gain an understanding of how employees are motivated to accomplish organizational goals. Students explore how to align talent with an organization's strategic mission. The program is based on theory interwoven with practice in order for students to gain an understanding of the strategies and skills needed to successfully execute HRM tasks. Students study the theories and best practices of employee recruitment, selection, placement, retention, total compensation, training, development, and performance management.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Human Resources Management	36 credits
Maior	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Total Electives		44-50 credits
Total Bachelor of Science in Applied Human Resources Management		120 credits
Applied Entr	epreneurship Major	
MKT-315	Introduction to Marketing	4 credits
BUS-317	Financial Decision Making	4 credits
MGT-325	Managing Business Communications and Change	4 credits
MGT-420	Organizational Behavior and Management	4 credits
MGT-434	Human Resources	4 credits
MGT-440	Project Management	4 credits
MGT-460	Workforce Planning	4 credits
MGT-465	Employee Relations	4 credits
<u>BUS-470</u>	Applied Business Project	4 credits
Applied Hum	an Resources Management Major	36 credits

#### **Bachelor of Science in Applied Management**

Grand Canyon University's Bachelor of Science in Applied Management program is designed to provide working professionals skills and concepts that will be immediately applicable to their organizations. The program emphasizes organizational behavior, real-world management, leadership and supervision, marketing concepts, managerial accounting, and effective oral and written business communications required of business managers.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Management Major	36 credits
Total Electives	44-50 credits
Total Bachelor of Science in Applied Management Credits	120 credits

#### **Applied Management Major**

MKT-315	Introduction to Marketing	4 credits
MGT-325	Managing Business Communications and Change	4 credits
BUS-317	Financial Decision Making	4 credits
MGT-410	Servant Leadership	4 credits
BUS-390	Global Business	4 credits
ENT-436 <sup>∆</sup>	Entrepreneurship and Innovation	4 credits
MGT-420	Organizational Behavior and Management	4 credits
MGT-440	Project Management	

Applied Business Project must be the last course taken in this program.

$BUS-470^{\Omega\Delta}$	Applied Business Project	4 credits
Applied Man	agament Major	36 credits

Applied Management Major

This GCU degree is included in the Air University Associate Baccalaureate Cooperative (AU-ABC) partnership which offers baccalaureate degree opportunities to Community College of the Air Force graduates.

#### **Bachelor of Science in Applied Marketing and** Advertising

Bachelor of Science in Applied Marketing and Advertising program prepares students to compete for entry-level management and advertising positions in corporate marketing, digital marketing communications, and advertising for products and services markets. The program emphasizes marketing, advertising, and digital marketing strategies and tactics. Students learn how to make data-driven marketing and advertising decisions in global business environments.

#### **Degree Requirements**

Total General Education		34-40 credits
Total Applied Marketing and Advertising Major		40 credits
Total Electives		40-46 credits
Total Bachel and Advertis	or of Science in Applied Marketing	120 credits
Applied Marl	keting and Advertising Major	
MKT-315	Introduction to Marketing	4 credits
MKT-345	Buyer and Consumer Behavior	4 credits
BUS-317	Financial Decision Making	4 credits
MKT-415	Promotion and Advertising	4 credits
MGT-420 <sup>‡</sup>	Organizational Behavior and Management	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
MKT-450	Marketing Management	4 credits
MGT-440	Project Management	4 credits
MKT-462	Digital Marketing and Advertising	4 credits

40 credits Applied Marketing and Advertising Major

4 credits

#### **Bachelor of Science in Business Administration**

Applied Business Project

Grand Canyon University's Bachelor of Science in Business Administration program prepares students to compete for entrylevel management positions in business through coursework that addresses small business management and development, entrepreneurship, and project management.

#### **Degree Requirements**

**BUS-470** 

Total General Education	34-40 credits
Total Business Administration Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Science in Business Administration	120 credits

#### **Business Administration Major**

BIT-200 <sup>*</sup>	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
BIT-301	Fundamentals in Business Analytics	4 credits
ECN-361	Microeconomics	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
BUS-332	Customer Engagement	4 credits
FIN-375	Introduction to Investments	4 credits
BUS-390	Global Business	4 credits
<u>MGT-420</u> <sup>≠</sup>	Organizational Behavior and Management	4 credits
MGT-455	Production/Operations Management	4 credits
ACC-486	Financial Statement Analysis	4 credits
<u>BUS-485<sup>≠∆</sup></u>	Strategic Management	4 credits

**Business Administration Major** 

64 credits

#### **Bachelor of Science in Business Analytics**

Grand Canyon University's Bachelor of Science in Business Analytics program prepares students for career options that include business analyst, business analytics analyst, business intelligence analyst, data analyst, business analytics manager, and business intelligence manager. Students examine foundational aspects in business, including marketing, accounting, finance, economics, and management. Within the context of business disciplines, students address core areas of business analytics, including data visualization, data mining, and predictive and prescriptive models. Project management and information governance and ethics are also explored. Graduates are prepared to extract, analyze, and interpret data to help enable decision making within data-driven business environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Business Analytics Major	68 credits
Total Electives	12-18 credits
Total Bachelor of Science in Business Analytics	120 credits

<b>Business Analytics Major</b>			
BIT-205	Introduction to Computer Technology and Analytics	4 credits	
ACC-240	Fundamentals of Accounting	4 credits	
MKT-315	Introduction to Marketing	4 credits	
BUS-352	Business Statistics	4 credits	
ECN-351	Essentials of Economics	4 credits	
FIN-350	Fundamentals of Business Finance	4 credits	
SYM-400	Introduction to Database Structures	4 credits	
BIT-320	Introduction to Programming for Data Science	4 credits	
BIT-431	Data Visualization	4 credits	
BIT-446	Data Mining Foundations	4 credits	
BIT-415 <sup>‡</sup>	IT Project Management	4 credits	
<u>BIT-417</u> <sup>₹∆</sup>	IT Governance and Ethics	4 credits	
BIT-435	Advanced Business Analytics	4 credits	
MGT-420	Organizational Behavior and Management	4 credits	
MGT-455	Production/Operations Management	4 credits	
BIT-456	Special Topics in Business Analytics	4 credits	
BUS-485 <sup>∆</sup>	Strategic Management	4 credits	

**Business Analytics Major** 

### **Bachelor of Science in Business Information Systems**

68 credits

Grand Canyon University's Bachelor of Science in Business Information Systems combines a solid business foundation with the technical skills necessary to compete for entry-level management positions in information systems and technology management. Business coursework will address functional area skills such as accounting, economics, statistics, finance, and marketing. Students will also examine the fundamentals of business information systems and technology, including programming, principles of database management, networking, IT project management, and ethical considerations related to IT governance. Innovation and entrepreneurship will be a key focus of the program.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Business Information Systems Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Science in Business	120 credits
Information Systems	

#### **Business Information Systems Major**

imadon Systems Major		
Introduction to Computer Science and Information Technology	4 credits	
Platforms and Network Technologies	4 credits	
System Administration and Maintenance	4 credits	
Object-Oriented Programming for Business	4 credits	
Fundamentals of Accounting	4 credits	
Introduction to Marketing	4 credits	
Business Statistics	4 credits	
Essentials of Economics	4 credits	
Fundamentals of Business Finance	4 credits	
Introduction to Database Structures	4 credits	
Relational Databases for Business Applications	4 credits	
Information Systems Design and Development	4 credits	
IT Project Management	4 credits	
IT Governance and Ethics	4 credits	
Organizational Behavior and Management	4 credits	
Production/Operations Management	4 credits	
Enterprise Systems Integration	4 credits	
Strategic Information Systems Management	4 credits	
Business Information Systems Major		
	Introduction to Computer Science and Information Technology Platforms and Network Technologies System Administration and Maintenance Object-Oriented Programming for Business Fundamentals of Accounting Introduction to Marketing Business Statistics Essentials of Economics Fundamentals of Business Finance Introduction to Database Structures Relational Databases for Business Applications Information Systems Design and Development IT Project Management IT Governance and Ethics Organizational Behavior and Management Production/Operations Management Enterprise Systems Integration Strategic Information Systems Management	

#### **Bachelor of Science in Business Management**

Grand Canyon University's Bachelor of Science in Business Management program addresses the areas of servant leadership, innovation, entrepreneurial spirit, and business skills in order to develop the global citizens, critical thinkers, effective

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

communicators, and responsible leaders required in today's global economy. The program prepares students to compete for entry-level management positions in business through coursework that addresses the key functional areas of management, accounting, finance, marketing, operations, and human resources.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Business Management Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Science in Business Management	120 credits
Management	

#### **Business Management Major**

**Business Management Major** 

Dusiness Management Major			
<u>BIT-200</u> <sup>≠</sup>	Introduction to Computer Technology	4 credits	
ACC-240	Fundamentals of Accounting	4 credits	
MKT-315	Introduction to Marketing	4 credits	
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits	
BUS-352	Business Statistics	4 credits	
MGT-325	Managing Business Communications and Change	4 credits	
BUS-332	Customer Engagement	4 credits	
ECN-351	Essentials of Economics	4 credits	
BUS-390	Global Business	4 credits	
FIN-350	Fundamentals of Business Finance	4 credits	
MGT-420 <sup>‡</sup>	Organizational Behavior and Management	4 credits	
MGT-455	Productions/Operations Management	4 credits	
MGT-410	Servant Leadership	4 credits	
MGT-434	Human Resources	4 credits	
MGT-440	Project Management	4 credits	
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits	

# **Bachelor of Science in Business for Secondary Education (IP/TL)**

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Business for Secondary Education prepares students to become a junior high or high school business teacher. This program provides initial teacher licensure. The format and courses of this regionally accredited and Arizona State Board of Education approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Teacher candidates must have access to a grade 6-12 classroom to complete the program and practicum assignments, which guide them through 85 hours of observational experiences. The final semester of this Secondary Education program includes a full-time, 15-week student teaching component. Candidates are responsible for contacting their state department of education for licensure requirements and program approval.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Business for Secondary Education Major	77 credits

Total Electives	0-6 credits
Total Bachelor of Science in Business for	120 credits
Secondary Education	
Total Practicum/Field Experience	80 hours

#### **Required General Education**

ECN-361

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

SEC-201 Early Adolescent and Adolescent 4 credits Psychology

4 credits

77 credits

(Included in General Education total credits, applied to the Critical Thinking competency.)

Microeconomics

<b>Business for</b>	Secondary Education Major	
BIT-200	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
<u>SPD-200</u>	Survey of Special Education: Mild to Moderate Disabilities	4 credits
POS-301	U.S. and Arizona Constitutions	2 credits
EDU-330 <sup>∆</sup>	Social Justice for Educators	4 credits
FIN-210	Personal Finance	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
<u>SEC-345</u>	Content Area Literacy for Middle and Secondary Teachers	4 credits
BUS-352	Business Statistics	4 credits
<u>SEC-355</u>	Middle and Secondary Curriculum and Assessment	4 credits
<u>ESL-445N</u>	Methods of Structured English Immersion for Secondary Education	3 credits
<u>SEC-455</u>	Classroom Engagement and Management for Middle and Secondary Teachers	4 credits
ECN-362	Macroeconomics	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-435</u>	Methods of Teaching Business in Middle and Secondary Schools	4 credits
MGT-420 <sup>‡</sup>	Organizational Behavior and Management	4 credits
<u>SEC-450</u>	Data Driven Instructional Methods for Middle and Secondary Teachers	4 credits
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits
<u>SEC-490</u>	Student Teaching for Secondary Education	8 credits

#### **Bachelor of Science in Cybersecurity Management**

Business for Secondary Education Major

Grand Canyon University's Bachelor of Science in Cybersecurity Management program prepares students to compete for leading positions in IT security-related fields by developing skills to become an effective managerial liaison between the technical and non-technical cybersecurity spaces. In addition to fundamental business principles such as accounting, finance, economics, management, and marketing, students focus on cybersecurity management principles that relate to an organization's processes, technology, and stakeholders.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Degree Requ	irements		BUS-340	Ethical and Legal Issues in Business	4 credits	
Total Gener	al Education 3	4-40 credits	BUS-352	Business Statistics	4 credits	
Total Cyber	security Management Major	60 credits	ECN-361	Microeconomics	4 credits	
Total Electi	ves 2	0-26 credits	ECN-362	Macroeconomics	4 credits	
	lor of Science in Cybersecurity it Program Credits	120 credits	FIN-350	Fundamentals of Business Finance	4 credits 4 credits	
· ·	ty Management Major		ECN-460	Economics of Money, Banking, and Financial Markets	4 creatts	
BIT-205	Introduction to Computer Technolog and Analytics	y 4 credits	<u>MGT-420</u>	Organizational Behavior and Management	4 credits	
CYB-220	Cyber Law and Privacy in a Digital	4 credits	ECN-461	Intermediate Microeconomics	4 credits	
1 GG 240	Age Fundamentals of Accounting	4 credits	ECN-462	Intermediate Macroeconomics	4 credits	
ACC-240	· ·	4 credits	ECN-465	Public Policy	4 credits	
<u>CYB-300</u>	Fundamentals in Cybersecurity		ECN-466	Applied Econometrics	4 credits	
<u>MKT-315</u>	Introduction to Marketing	4 credits	BUS-485	Strategic Management	4 credits	
BUS-352	Business Statistics	4 credits	Economics M	lajor (	72 credits	
<u>CBM-350</u>	Quality Management of Information Security	4 credits			4 1!	
ECN-351	Essentials of Economics	4 credits		of Science in Entrepreneurial St	luaies	
BIT-415	IT Project Management	4 credits		n University's Bachelor of Science in	of corvent	
FIN-350	Fundamentals of Business Finance	4 credits		Entrepreneurial Studies program addresses the areas of servant leadership, innovation, entrepreneurial spirit, and business skills		
BIT-417	IT Governance and Ethics	4 credits	in order to develop the global citizens, critical thinkers, effective communicators, and responsible leaders required in today's global economy. The program is built on the principles of personal integrity, values, and innovation. It provides students			
MGT-420	Organizational Behavior and Management	4 credits				
MGT-455	Production/Operations Management	4 credits		onal and business skills to think analytical		
<u>CBM-490</u>	Cybersecurity Management and Leadership	4 credits	right questions, solve problems, and function as entrepreneurs in their own business or intrapreneurs in larger companies.			
BUS-485	Strategic Management	4 credits	Degree Requ	irements		
Cybersecurit	y Management Major	60 credits	Total Gener	al Education	34-40 credi	
Rachelor o	of Science in Economics		Total Entrep	oreneurial Studies Major	60 credi	
Dachelli (	of Science in Economics				20.26 1:	

Grand Canyon University's Bachelor of Science in Economics program trains students in economic theory along with data analysis and critical thinking skills required to understand and navigate real world economic and business problems. This degree prepares students for careers in business and government, including high-growth industries such as healthcare, finance, and e-commerce. The analytical and business decision making skills developed through this program also help prepare students planning to pursue graduate studies in business, law and public policy.

#### **Degree Requirements**

Total Genera	al Education	34-40 credits		
Total Economics Major		72 credits		
Total Electiv	ves	8-14 credits		
Total Bachelor of Science in Economics 120 credits Program Credits				
Economics Major				
BIT-200	Introduction to Computer Tech	nology 4 credits		

ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
MAT-251	Brief Calculus	4 credits
MKT-315	Introduction to Marketing	4 credits

Total General Education	34-40 credits
Total Entrepreneurial Studies Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Entrepreneurial	120 credits
Studies	

#### **Entrepreneurial Studies Major**

BIT-200	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
MGT-420	Organizational Behavior and	4 credits
MGT-455	Management Production/ Operations Management	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
ENT-320	Public Relations and Networking Skills	4 credits
ENT-446	Business Execution	4 credits
ENT-420	New Venture Financing	4 credits
BUS-485 <sup>‡∆</sup>	Strategic Management	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

60 credits

# Bachelor of Science in Entrepreneurial Studies with an Emphasis in Engineering Management

Grand Canyon University's Bachelor of Science in Entrepreneurial Studies with an Emphasis in Engineering Management program addresses solving real-world problems with the tools of technology by partnering business students with electrical, mechanical, and biomedical engineering students at the start of the program and for the final capstone projects. The program embraces servant leadership, innovation, an entrepreneurial spirit, and business skills in order to develop the global citizens, critical thinkers, effective communicators, and responsible leaders required in today's global economy. The program is built on the principles of personal integrity, values, and innovation. It provides students with the personal and business skills to think analytically, ask the right questions, solve problems, and function as entrepreneurs in their own business or intrapreneurs in larger companies.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Entrepreneurial Studies with an Emphasis in Engineering Management Major	62 credits
Total Electives	18-24 credits
Total Bachelor of Science in Entrepreneurial Studies with an Emphasis in Engineering Management	120 credits

### **Entrepreneurial Studies with an Emphasis in Engineering Management Major**

unugement	1120,01	
BIT-200	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>ESG-209L</u>	Introduction to Product Design Lab for Non-Engineers	1 credit
ESG-210	Engineering Innovation & Lab	2 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
<u>MGT-420</u>	Organizational Behavior and Management	4 credits
MGT-455	Production/ Operations Management	4 credits
ENT-320	Public Relations and Networking Skills	4 credits
ENT-446	Business Execution	4 credits
<u>ENT-496A</u>	Entrepreneurial Studies Capstone Project I	1 credit
ENT-420	New Venture Financing	4 credits
ENT-495	Research for Angel Investors	1 credit
<u>BUS-485<sup>‡∆</sup></u>	Strategic Management	4 credits
ENT-496B	Entrepreneurial Studies Capstone Project II	1 credit

Entrepreneurial Studies with an Emphasis in 62 credits Engineering Management Major Grand Canyon University's Bachelor of Science in Entrepreneurial Studies with an Emphasis in Technology Management program addresses solving real-world problems with the tools of computation and computer hardware by partnering entrepreneurial technology students with computer programing and computer science students at the start of the program and for the final capstone project. The program embraces servant leadership, innovation, an entrepreneurial spirit, and business skills in order to develop the global citizens, critical thinkers, effective communicators, and responsible leaders required in today's global economy. The program, which is built on the principles of personal integrity, values, and innovation, provides students with the personal and business skills to think analytically, ask the right questions, solve problems, and function as entrepreneurs in their own businesses or as intrapreneurs in larger companies.

#### **Degree Requirements**

81	
Total General Education	34-40 credits
Total Entrepreneurial Studies with an Emphasis in Technology Management Major	63 credits
Total Electives	17-23 credits
Total Bachelor of Science in Entrepreneurial Studies with an Emphasis in Technology	120 credits

### **Entrepreneurial Studies with an Emphasis in Technology Management Major**

BIT-200	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
MGT-420	Organizational Behavior and	4 credits
MGT-455	Management Production/ Operations Management	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
ENT-320	Public Relations and Networking Skills	4 credits
ENT-446	Business Execution	4 credits
ENT-496A	Entrepreneurial Studies Capstone Project I	1 credit
ENT-420	New Venture Financing	4 credits
ENT-495	Research for Angel Investors	1 credit
BUS-485 <sup>‡∆</sup>	Strategic Management	4 credits
ENT-496B	Entrepreneurial Studies Capstone Project II	1 credit
Entrepreneur	ial Studies with an Emphasis in	63 credits

Entrepreneurial Studies with an Emphasis in Technology Management Major

Bachelor of Science in Entrepreneurial Studies with an Emphasis in Technology Management

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Bachelor of Science in Finance**

This degree prepares students to enter financial positions in corporations, financial institutions, brokerage firms, and government. Earning a degree in Finance enables students to identify the functions of financial markets and institutions and their integration on a global basis; understand the impact of changing interest rates; determine the value of stocks, bonds, and securities; analyze the appropriate measures of risk and return for various financial instruments; and understand the regulation of the financial industry.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Entrepreneurial Studies Major	76 credits
Total Electives	4-10 credits
Total Bachelor of Science in Finance	120 credits

#### **Finance Major**

BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
MAT-251	Brief Calculus	4 credits
ACC-260	Management Accounting	4 credits
BUS-340	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
FIN-375	Introduction to Investments	4 credits
MGT-420 <sup>≠</sup>	Organizational Behavior and	4 credits
FIN-450	Management Intermediate Finance	4 credits
FIN-431	Financial Risk Management and Insurance	4 credits
FIN-432	Real Estate	4 credits
FIN-451	Investments and Portfolio	4 credits
ECN-450	Management International Trade and Finance	4 credits
ECN-460	Economics of Money, Banking, and Financial Markets	4 credits
<u>BUS-485<sup>≠∆</sup></u>	Strategic Management	4 credits

# **Bachelor of Science in Finance with an Emphasis in Financial Planning**

The Bachelor of Science in Finance with an Emphasis in Financial Planning is an industry-supported program which provides students with an education in the financial planning field and the opportunity to meet both the coursework and the degree requirement to sit for the CERTIFIED FINANCIAL PLANNER(TM) exam—an important step in the path to CFP(R) certification. The curriculum teaches students about the process of personal financial planning. Students learn how to assess clients' personal current and future financial needs, develop goals, evaluate alternatives, develop a comprehensive action plan in alignment with their values to achieve their goals, and monitor

and adjust plans in a changing environment. The program focuses on personal financial management, investing, retirement planning, taxes, estate planning, risk management, client communication, and ethics.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Entrepreneurial Studies Major	80 credits
Total Electives	0-6 credits
Total Rachelor of Science in Finance with an	120 credits

Total Bachelor of Science in Finance with an Emphasis in Financial Planning

#### **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

ACC-250	Financial Accounting	4 credits
MAT-251	Brief Calculus	4 credits

#### Finance with an Emphasis in Financial Planning Major

BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
BUS-352	Business Statistics	4 credits
FIN-210	Personal Finance	4 credits
ACC-260	Management Accounting	4 credits
ECN-361	Microeconomics	4 credits
MKT-315	Introduction to Marketing	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
ECN-362	Macroeconomics	4 credits
<u>FIN-431</u>	Financial Risk Management and Insurance	4 credits
ACC-460	Taxation	4 credits
FIN-355	Retirement Planning and Employee Benefits	4 credits
FIN-375	Introduction to Investments	4 credits
MGT-420 <sup>≠</sup>	Organizational Behavior and Management	4 credits
FIN-440	Estate Planning and Special Topics	4 credits
BUS-340	Ethical and Legal Issues in Business	4 credits
RSM-445	Life and Health Insurance	4 credits
<u>FIN-451</u>	Investments and Portfolio Management	4 credits
FIN-432	Real Estate	4 credits
$\overline{\text{FIN-490}^{\Omega}}$	Financial Planning Capston	4 credits
BUS-485 <sup>≠∆</sup>	Strategic Management	4 credits

Finance with an Emphasis in Financial Planning Major

#### **Bachelor of Science in Finance and Economics**

Grand Canyon University's Bachelor of Science in Finance and Economics program addresses the fundamental concepts in Finance, Investment Management, and Micro, Macro and International Economics. Due to the combined nature of this degree, there is a specific focus on financial markets and monetary economics. The program prepares students to compete for entry-level positions in financial services, corporate finance, banking, and insurance.

Finance Major

76 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Degree Require	ements	
Total General Education		34-40 credits
Total Finance and Economics Major		64 credits
Total Electives		16-22 credits
	Total Bachelor of Science in Finance and Economics Credits	
Finance and Ec	onomics Major	
<u>BIT-200</u>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
MAT-251	Brief Calculus	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
<u>MGT-420</u>	Organizational Behavior and Management	4 creduts
<u>FIN-450</u>	Intermediate Finance	4 credits
FIN-375	Introduction to Investments	4 credits
ECN-460	Economics of Money, Banking, and Financial Markets	4 credits
<u>ECN-450</u>	International Trade and Finance	4 credits
BUS-485 <sup>₹∆</sup>	Strategic Management	4 credits

64 credits Finance and Economics Major

### **Bachelor of Science in Homeland Security and Emergency Management**

The Bachelor of Science in Homeland Security and Emergency Management program offers students an understanding of the fundamentals of emergency management, while providing an interdisciplinary course of study in the business and leadership skills and practices related to emergency planning and management. The program highlights the application of strategies and techniques related to protection, prevention, mitigation, response, and recovery; the utilization of communication skills at the personal, professional, and public level; and the development of professional skills and knowledge in the fields of Homeland Security and emergency management.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Homeland Security and Emergency	36 credits
Management Major	
Total Electives	44-50 credits
Total Bachelor of Science in Homeland Security and Emergency Management Credits	120 credits

#### Homeland Security and Emergency Management Major

EMM-301	Introduction to Homeland Security	4 credits
	and Emergency Management	
MGT-420	Organizational Behavior and	4 credits
	Management	

EMM-306 <sup>∆</sup>	Protection and Security	4 credits
EMM-311	Hazard Mitigation Planning	4 credits
EMM-400	Terrorism Prevention	4 credits
EMM-412	Emergency Response Operations and Techniques	4 credits
EMM-450	Disaster Recovery	4 credits
MGT-440	Project Management	4 credits
$\underline{\text{EMM-485}^{\Omega\Delta}}$	Emergency Management Capstone	4 credits
Homeland Sec Major	urity and Emergency Management	36 credits

#### **Bachelor of Science in Hospitality Management**

Grand Canyon University's Bachelor of Science in Hospitality Management program prepares students to compete for entrylevel and supervisory positions in the hospitality industry. Core business courses incorporate servant leadership, innovation, and ethical decision-making, and address the key functional areas of management, accounting, finance, marketing, and human resources. The major courses offer a broad-based curriculum specific to hospitality management, including hotel and restaurant management, event planning, tourism activities, and revenue management.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Hospitality Management Major	68 credits
Total Electives	12-18 credits
Total Bachelor of Science in Hospitality	120 credits
Management Credits	

#### Hospitality Management Major

Hospitality Management Major			
BIT-200	Introduction to Computer Technology	4 credits	
HOS-200	Introduction to Hospitality	4 credits	
ACC-240	Fundamentals of Accounting	4 credits	
MKT-315	Introduction to Marketing	4 credits	
<u>BUS-340</u> <sup>∆</sup> <sup>≴</sup>	Ethical and Legal Issues in Business	4 credits	
BUS-352	Business Statistics	4 credits	
ECN-351	Essentials of Economics	4 credits	
FIN-350	Fundamentals of Business Finance	4 credits	
<u>MGT-420</u>	Organizational Behavior and Management	4 credits	
MGT-434	Human Resources	4 credits	
<u>HOS-440</u>	Hotel and Lodging Management and Operations I	4 credits	
<u>BUS-332</u>	Customer Engagement	4 credits	
HOS-455	Events and Tourism Management	4 credits	
HOS-460	Food and Beverage Service Management and Operations	4 credits	
HOS-466	Revenue Management for Hospitality	4 credits	
HOS-470	Hospitality Services Marketing	4 credits	
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits	
Hospitality Management Major		68 credits	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Bachelor of Science in Hospitality and Tourism Management**

Grand Canyon University's Bachelor of Science in Hospitality and Tourism Management program prepares students to compete for entry-level and supervisory positions in the hospitality and tourism industries. Core business courses incorporate servant leadership, innovation, and ethical decision-making, and address the key functional areas of management, accounting, finance, marketing, and human resources. The major courses offer a broad-based curriculum specific to hospitality and tourism management, including hotel and restaurant management, event planning, club management, tourism destination and activity management, and revenue management.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Hospitality and Tourism Management Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Science in Hospitality and Tourism Management Credits	120 credits

#### **Hospitality Management Major**

BIT-200	Introduction to Computer Technology	4 credits
<u>HTM-200</u>	Introduction to Hospitality and Tourism	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup> <sup>≴</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-351	Essentials of Economics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
<u>MGT-420</u>	Organizational Behavior and Management	4 credits
MGT-434	Human Resources	4 credits
<u>HTM-440</u>	Hotel and Lodging Management and Operations I	4 credits
BUS-332	Customer Engagement	4 credits
<u>HTM-450</u>	Food and Beverage Service Management and Operations	4 credits
<u>HTM-460</u>	Event Management	4 credits
<u>HTM-465</u>	Revenue Management for Hospitality	4 credits
HTM-470	Club Management	4 credits
HTM-480	Tourism Management	
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits

#### **Bachelor of Science in Marketing and Advertising**

Hospitality and Tourism Management Major

Grand Canyon University's Bachelor of Science in Marketing and Advertising program prepares students to compete for entrylevel management and advertising positions in corporate marketing, digital marketing communications, and advertising for global products and services markets. The program emphasizes marketing, advertising, and communications strategies and

tactics. Students learn how to make data-driven marketing and advertising decisions in global business environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Marketing and Advertising Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Marketing and	120 credits
Advertising	

#### Marketing and Advertising Major

Marketing a	na Aaverusing Major	
BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-351	Essentials of Economics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
MKT-345	Buyer and Consumer Behavior	4 credits
<u>MGT-420</u> <sup>≠</sup>	Organizational Behavior and Management	4 credits
MKT-415	Promotion and Advertising	4 credits
MKT-445	Marketing Research and Reporting	4 credits
MGT-455	Production/ Operations Management	4 credits
MKT-462	Digital Marketing and Advertising	4 credits
MKT-450	Marketing Management	4 credits
BUS-485 <sup>∆</sup>	Strategic Management	4 credits
Markating ar	nd Advertising Major	60 credits

Marketing and Advertising Major

#### **Bachelor of Science in Professional Sales and** Marketing

Grand Canyon University's Bachelor of Science in Professional Sales and Marketing program prepares students to compete for sales, customer relationship management, and customer service positions in global corporations and small to medium size product and service businesses across diverse industries. The program emphasizes engagement with customers, prospects, suppliers, and internal stakeholders using the communications strategies and tactics needed to build and sustain long-term and mutually satisfying relationships that add value in today's economy. Students learn how market-driven data enhances and improves decision making in domestic and global business environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Professional Sales and Marketing Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Professional Sales and Marketing	120 credits

#### Professional Sales and Marketing Major

BIT-200*	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-351	Essentials of Economics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
MGT-420 <sup>‡</sup>	Organizational Behavior and Management	4 credits
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits
BUS-332	Customer Engagement	4 credits
MKT-433	Sales Management	4 credits
MKT-345	Buyer and Consumer Behavior	4 credits
MKT-443	Customer Relationship Management	4 credits
MKT-415	Promotion and Advertising	4 credits
MKT-462	Digital Marketing and Advertising	4 credits

#### **Bachelor of Science in Risk Management**

Professional Sales and Marketing Major

The Bachelor of Science in Risk Management program prepares graduates for a future career working in risk management. Upon completing the degree, graduates will be able to identify, analyze, and manage risks within an organization, and begin careers in the insurance, corporate finance, or banking industry. The curriculum may prepare student for a certificate in risk management.

#### **Degree Requirements**

Total General Education

Risk Management Major

Total Genera	ar Education	
Total Risk Management Major		72 credits
Total Electives		8-14 credits
Total Bache	lor of Science in Risk Management	120 credits
Risk Manage	ement Major	
BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
BUS-352	Business Statistics	4 credits
MAT-251	Brief Calculus	4 credits
ECN-361	Microeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
ECN-362	Macroeconomics	4 credits
MKT-315	Introduction to Marketing	4 credits
BUS-340 <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
MGT-420 <sup>*</sup>	Organizational Behavior and Management	4 credits
<u>FIN-431</u>	Financial Risk Management and Insurance	4 credits
<u>BUS-485</u> <sup>∆</sup>	Strategic Management	4 credits
BUS-332	Customer Engagement	4 credits
RSM-435	Property and Casualty Insurance	4 credits
RSM-445	Life and Health Insurance	4 credits
RSM-465	Global Risk Management Practices	4 credits
<u>RSM-485</u>	Implementing Risk Management Strategies	4 credits

# **Bachelor of Science in Sports and Entertainment Management**

Grand Canyon University's Bachelor of Science in Sports and Entertainment Management program is uniquely positioned within the Colangelo College of Business. The business-based curriculum prepares students for an array of potential career path opportunities in the multi-billion dollar sports and entertainment industry. Coursework emphasizes key skills specific to sports business, including sales, marketing, revenue generation, and event operations.

#### **Degree Requirements**

60 credits

34-40 credits

Total General Education	34-40 credits
Total Sports and Entertainment Management Major	68 credits
Total Electives	12-18 credits
Total Bachelor of Science in Sports and	120 credits

#### **Sports and Entertainment Management Major**

BIT-200	Introduction to Computer Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
<u>SPT-230</u>	Introduction to Sports and Entertainment Management	4 credits
MKT-315	Introduction to Marketing	4 credits
<u>BUS-340</u> <sup>∆</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
SPT-350	Sports and Entertainment Analytics	4 credits
ECN-351	Essentials of Economics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
MGT-420	Organizational Behavior and Management	4 credits
MGT-455	Production/ Operations Management	4 credits
<u>SPT-370</u>	Sports and Entertainment Marketing	4 credits
<u>SPT-375</u>	Sports and Entertainment Event Planning	4 credits
BUS-332	Customer Engagement	4 credits
SPT-360	Sports and Entertainment Law	4 credits
BUS-485 <sup>‡∆</sup>	Strategic Management	4 credits
<u>SPT-460</u>	Sports and Entertainment Revenue Generation	4 credits
Sports and Entertainment Management Major		68 credits

# **Bachelor of Science in Supply Chain and Logistics Management**

Grand Canyon University's Bachelor of Science in Supply Chain and Logistics Management program addresses servant leadership, innovation, entrepreneurial spirit, and business skills in order to develop the global citizens, critical thinkers, effective communicators, and responsible leaders required in today's global economy. The program prepares students to compete for entry-level positions that focus on both optimizing organizational effectiveness and managing/analyzing global supply chains. In addition to foundational courses in business, students are required to complete courses addressing lean operations, business process management (BPM), and enterprise optimization. Other courses focus on procurement, logistics, and systems aspects of global

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

supply chains. Coverage of topics also encompasses knowledge areas addressed by Lean Six Sigma Green Belt certification.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Marketing Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Science in Supply Chain and	120 credits
Logistics Management	

#### **Supply Chain and Logistics Management Major**

BIT-200 <sup>‡</sup>	Introduction to Computer Technology	4 credits
ACC-250	Financial Accounting	4 credits
MKT-315	Introduction to Marketing	4 credits
ACC-260	Management Accounting	4 credits
BUS-340 <sup>≠</sup>	Ethical and Legal Issues in Business	4 credits
BUS-352	Business Statistics	4 credits
ECN-361	Microeconomics	4 credits
BUS-390	Global Business	4 credits
ECN-362	Macroeconomics	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
<u>SCM-400</u> <sup>∆</sup>	Global Supply Chain Operations	4 credits
MGT-420 <sup>≠</sup>	Organizational Behavior and	4 credits
	Management	
SCM-410	Lean and Quality Management	4 credits
SCM-450	Procurement and Global Supply Chain	4 credits
SCM-452	Management Global Logistics and Transportation	4 credits
<u>5CWI-432</u>	Management	
SCM-454	Manufacturing Planning and Control	4 credits
	Systems	
SCM-460	Supply Chain Modeling and Analysis	4 credits
<u>BUS-485</u> <sup>∆</sup> <sup>‡</sup>	Strategic Management	4 credits
Supply Chain	and Logistics Management Major	72 credits

#### **Bridge to Master of Science in Accounting**

This Bridge to the Master of Science in Accounting program enables students who have earned a bachelor's degree in business disciplines other than accounting to pursue the Master of Science in Accounting degree. The program includes the undergraduate coursework in accounting and management necessary to prepare students for the rigor of the Master's degree. The Bridge to Master of Science in Accounting prepares graduates for a career in the field of public accounting. The degree is designed to enhance theoretical and practical accounting skills for practitioners, researchers and educators. Graduates may qualify to sit for the Uniform Certified Public Accountant (CPA) exam in most states.

#### **Degree Requirements**

ACC-250	Financial Accounting	4 credits
ACC-260	Management Accounting	4 credits
ACC-360	Cost Accounting	4 credits
ACC-370	Intermediate Accounting I	4 credits
ACC-371	Intermediate Accounting II	4 credits

ACC-460	Taxation	4 credits
ACC-491	Auditing	4 credits

Bridge to Master of Science in Accounting

28 credits

2 credits

### School of Business Studies: **Dual-Degree Programs**

The Colangelo College of Business offers two dual-degree graduate programs: the Master of Business Administration and Master of Science in Leadership, as well as the Master of Business Administration and Master of Science-Nursing with an Emphasis in Nursing Leadership in Health Care Systems.

Information concerning the Master of Science in Nursing: Nursing Leadership in Health Care Systems program is located in the College of Nursing and Health Care Professions section of the Academic Catalog.

#### Master of Business Administration and Master of Science in Leadership

Grand Canyon University's Master of Business in Administration and Master of Science in Leadership (MBA/MSL) dual degree program is designed for students who desire to pursue a traditional MBA degree and a leadership degree concurrently. Graduates will be able to integrate a conceptual foundation for an executive leadership role that emphasizes the immediate application of ethical and practical leadership skills. They will be able to identify patterns, connections, and relationships across business practices within organizational systems in order to address organizational performance challenges. Students will combine their business management and leadership skills to successfully analyze and evaluate structures, processes, and systems within changing organizational environments in order to build highly effective organizations.

Introduction to Graduate Studies in

#### **Degree Requirements**

<u>UNV</u>-504<sup>Ω</sup>

	the College of Business	
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
SYM-506	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
LDR-630	Servant Leadership	4 credits
LDR-640	Leadership and Innovation	4 credits
<u>LDR-612</u>	Coaching, Mentoring, and Leadership Development	4 credits
<u>LDR-615</u>	Organizational Development and Change	4 credits
<u>LDR-670</u>	Global Leadership	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# School of Business Studies: Graduate Programs

The Colangelo College of Business offers the Master of Business Administration (MBA) program provides emphases in Accounting, Finance, Health Systems Management, Leadership, Marketing, and Strategic Human Resource Management. The Master of Business Administration (MBA) degree is designed for working professionals who desire to complete their graduate degree without interrupting their professional careers. The program consists of 39-51 graduate credit hours. It affords students the opportunity to develop cross-functional businessmanagement skills, preparing business practitioners for advanced management and executive positions. Students have the option of completing two emphasis areas as part of their MBA degree. Students with the necessary academic or professional background who complete two courses per semester on a trimester basis will be able to complete the MBA program in just over two years. The Colangelo College of Business MBA Program is fully accredited by the Accreditation Council of Business Schools and Programs (ACBSP).

The Master of Science in Accounting program prepares students to sit for the CPA exam and provides opportunities for current CPAs and accountants to advance their skills in theory, practice, and research.

#### **Master of Business Administration**

The Master of Business Administration program is designed for working professionals who desire to complete a program of study that allows focus across technical, human, and conceptual skills that encompass the functional areas of business. The core courses in the MBA program allow the student to develop strong foundations across accounting, economics, finance, information systems, management, marketing and quantitative methods provided in the core courses. Courses in the critical areas of leadership and human resources management will provide the student the broad management perspective as well as the analytical and interpersonal skills needed to succeed in global business.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits

Master of Business Administration

#### Master of Business Administration with an Emphasis in Accounting

Grand Canyon University's Master of Business Administration with an Emphasis in Accounting program provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications, emerging technologies, and ecommerce applications combine with essential business principles that encompass finance, accounting, economics, marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program prepares students to compete for advanced management positions in corporate accounting through emphasis coursework that addresses the areas of financial accounting and reporting, management accounting and reporting, and specialized accounting and emerging topics.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
MCT 605	the College of Business Leadership and Organizations	4 credits
MGT-605	· · ·	
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
SYM-506	Applied Business Probability and	4 credits
	Statistics	
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
ACC-660	Advanced Financial Accounting	4 credits
ACC-670	Advanced Financial Statement Analysis	4 credits
Master of Bu	siness Administration with an Emphasis	54 credits

Master of Business Administration with an Emphasis in Accounting

#### Master of Business Administration with an Emphasis in Business Analytics

The Master of Business Administration with an Emphasis in Business Analytics program provides the foundation of an MBA, including emphasis on accounting, finance, organizational leadership, management, marketing, and strategic planning, as well as two courses in business analytics. The two business analytics courses address implementation of database functions in relation to performing data analytics along with techniques for extracting knowledge from large data sets. Emphasis is on hands-on application of key concepts.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

$\underline{\text{UNV-}504^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
MIS-600	Applied Analytics for Business	4 credits
MIS-620	Descriptive and Diagnostic Analytics	4 credits

Master of Business Administration with an Emphasis 54 credits in Business Analytics

# Master of Business Administration with an Emphasis in Cybersecurity

The Master of Business Administration with an Emphasis in Cyber Security program provides the foundation of an MBA, including emphasis on accounting, finance, organizational leadership, management, marketing, and strategic planning, as well as two courses in cyber security. These two courses address cyber security concepts and methodologies specific to enterprise security design such as the NIST Cybersecurity Framework, enterprise governance and compliance, cyber-attacks and countermeasures, and the confidentiality, integrity, and availability of information. Courses utilize case studies and current issues in the field related to a variety of industries and perspectives on cyber security.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
CYB-505	Cyber Warfare and Applications	4 credits
<u>CYB-515</u>	Enterprise Security Infrastructure Design	4 credits

Master of Business Administration with an Emphasis 54 credits in Cybersecurity

# Master of Business Administration with an Emphasis in Finance

Grand Canyon University's Master of Business Administration with an Emphasis in Finance program provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications, emerging technologies, and ecommerce applications combine with essential business principles that encompass finance, accounting, economics, marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program provides students with the skills necessary to demonstrate proficiency in corporate financial management and investments in order to ensure corporate solvency, profitability, and efficiency.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
SYM-506	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
FIN-655	Investments	4 credits
FIN-660	Advanced Financial Strategies	4 credits
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Master of Business Administration with an Emphasis 54 credits in Finance

#### Master of Business Administration with an Emphasis in Health Systems Management

Grand Canyon University's Master of Business Administration with an Emphasis in Health Systems Management program provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications,

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

emerging technologies, and e-commerce applications combine with essential business principles that encompass finance, accounting, economics, marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program prepares students to compete for critical leadership roles in current and future organizations through coursework that addresses leadership theory, problem solving, organizational leadership, self-leadership, and highly effective teams. The program prepares students for advanced management or senior administration positions in the health care industry through coursework that addresses the legal and ethical concerns in health care and health care policies and economics.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
<u>HLT-520</u>	Legal and Ethical Principles in Health Care	4 credits
HCA-530	Health Care Policies and Economics	4 credits

Master of Business Administration with an Emphasis in Health Systems Management

# Master of Business Administration with an Emphasis in Leadership

Grand Canyon University's Master of Business Administration with an Emphasis in Leadership program provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications, emerging technologies, and ecommerce applications combine with essential business principles that encompass finance, accounting, economics, marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program prepares students to compete for critical leadership roles in current and future organizations through coursework that addresses leadership

theory, problem solving, organizational leadership, self-leadership, and highly effective teams.

#### **Degree Requirements**

in Leadership

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
LDR-600	Leadership Styles and Development	4 credits
LDR-615	Organizational Development and Change	4 credits
Master of Bus	54 credits	

# Master of Business Administration with an Emphasis in Leadership *Effective May 2025*

Grand Canyon University's Master of Business Administration with an Emphasis in Leadership program provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications, emerging technologies, and ecommerce applications combine with essential business principles that encompass finance, accounting, economics. marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program prepares students to compete for critical leadership roles in current and future organizations through coursework that addresses leadership theory, problem solving, organizational leadership, selfleadership, and highly effective teams.

#### **Degree Requirements**

Introduction to Graduate Studies in	2 credits
the College of Business	
Leadership and Organizations	4 credits
Accounting Practices	4 credits
Finance Principles	4 credits
Applied Business Probability and	4 credits
Economics	4 credits
	the College of Business Leadership and Organizations Accounting Practices Finance Principles

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
<u>LDR-615</u>	Organizational Development and Change	4 credits
LDR-670	Global Leadership	4 credits

Master of Business Administration with an Emphasis 54 credits in Leadership

# Master of Business Administration with an Emphasis in Marketing

Grand Canyon University's Master of Business Administration with an Emphasis Marketing provides students with the capacity for transformational leadership through the application of business practices. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of organizational resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence that diverse cultures have on it. The use of telecommunications, emerging technologies, and ecommerce applications combine with essential business principles that encompass finance, accounting, economics, marketing, and management, providing students with the capacity to lead and manage business enterprises both effectively and ethically. The program encourages students to be informed critical thinkers and decision makers through active research and the application of quantitative methods that transform raw data into useful information. The program prepares students to compete for advanced management positions in corporate marketing or brand management through emphasis coursework that addresses the areas of services marketing, marketing management, and technology as tool.

#### **Degree Requirements**

Degree Requ	n ements	
$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
MKT-650	Services Marketing	4 credits
MKT-660	International Marketing	4 credits
Master of Bu	siness Administration with an Emphasis	54 credits

# Master of Business Administration with an Emphasis in Project Management

The Master of Business Administration with an Emphasis in Project Management degree prepares students for leadership positions specifically in areas of project management. The program is designed for working professionals who desire to complete a program of study that allows students to focus across the technical, human, and conceptual skills that encompass the functional areas of business. The core courses in the MBA program allow the student to develop strong foundations across accounting, economics, finance, information systems, management, marketing, and quantitative methods provided in the core courses. Courses in the critical areas of leadership and human resources management will provide the student the broad management perspective as well as the analytical and interpersonal skills needed to succeed in global business. The emphasis courses in project management are based upon the Project Management Institute's (PMI) project management body of knowledge (PMBOK), and include coverage of the PMBOK topics covered in the required Certified Associate in Project Management (CAPM), Project Management Professional (PMP), and Agile Certified Practitioner (ACP) exams.

#### **Degree Requirements**

$\underline{\text{UNV-}504^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
MGT-640	Fundamentals of Project Management	4 credits
MGT-641	Agile Project Management	4 credits
Master of Bu	siness Administration with an Emphasis	54 credits

Master of Business Administration with an Emphasis 54 cr in Project Management

# Master of Business Administration with an Emphasis in Sports Business

The Grand Canyon University MBA with Sports Business emphasis is specifically designed for ambitious students who seek to further develop their business knowledge and skills in order to maximize career opportunities within the multi-billion dollar global sports business industry. Graduates receive an MBA diploma from the GCU Colangelo College of Business that is intended for relevance and utility in the modern sports business world. The degree program is immersed with Christian-based business values and entrepreneurism, which are foundations of the GCU experience.

The MBA with Sports Business emphasis examines a broad range of business topics and principles with specific application

in Marketing

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

to some of the sports industry's major job category areas such as sports sales and marketing, entrepreneurship, athletic administration, media, as well as trades and services. While giving a healthy respect to the notable pioneers of the industry, the curriculum primarily explores the current trends and future strategies that seek to help sports organizations remain competitive in a global marketplace. The program highlights the impact of the global economy on organizational decision making, planning, and sourcing of administrative resources. Students draw upon interpersonal skills to address each practice, as well as to comprehend the influence diverse cultures have on it. Coursework addresses how the use of emerging digital, social, and e-commerce technologies combine with essential business principles that encompass finance, accounting, economics, marketing, and management. Graduates from the GCU Colangelo College of Business with an MBA Sports Business emphasis are provided with the capacity to lead and manage sports business enterprises both effectively and ethically.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
SYM-506	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
BUS-635	Sports Business Revenue Generation	4 credits
<u>BUS-655</u>	Sports Business Analytics	4 credits
Master of Bu	siness Administration with an Emphasis	54 credits

# Master of Business Administration with an Emphasis in Strategic Human Resource Management

The Master of Business Administration with an Emphasis in Strategic Human Resource Management covers the Society for Human Resource Management's critical competencies. By aligning this program to the human resource competencies identified by the Society of Human Resource Management (SHRM), students will be well-prepared for careers as senior human resources specialists or as general managers with strong strategic HR acumen.

#### **Degree Requirements**

in Sports Business

UNV- $504^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Business	
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits

SYM-506	Applied Business Probability and Statistics	4 credits
EGN CO1	Economics Economics	4 credits
ECN-601	Leonomies	4 Cicuits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
HRM-635	Acquiring, Developing, and	4 credits
	Leveraging Human Capital	
HRM-640	Designing HR for Competitive	4 credits
22222	Advantage	

Master of Business Administration with an Emphasis 54 credits in Strategic Human Resource Management

# Master of Business Administration with an Emphasis in Supply Chain Management

The Master of Business Administration with an Emphasis in Supply Chain Management program provides the foundation of an MBA, including emphasis on accounting, finance, organizational leadership, management, marketing, and strategic planning, as well as two courses in supply chain management. These two courses focus on supply chain management as the lynchpin in the global economy, and connects product design and development with procurement, inventory management, manufacturing, logistics, quality, and continuous improvement.

#### **Degree Requirements**

in Supply Chain Management

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
MGT-605	Leadership and Organizations	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits
SCM-650	The Global Supply Chain	4 credits
SCM-660	Strategic Supply Chain Management	4 credits
Master of Bu	siness Administration with an Emphasis	54 credits

# Master of Business Administration & Master of Science in Nursing: Nursing Leadership in Health Care Systems

Master of Business Administration and Master of Science in Nursing with an Emphasis in Nursing Leadership in Health Care Systems dual-degree program is designed to afford students the

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

opportunity to develop cross functional business management skills, preparing business practitioners for advanced management and executive positions combined with specialized study in leadership theory and application.

#### **Degree Requirements**

$UNV-504^{\Omega}$	Introduction to Graduate Studies in the College of Business	2 credits
NUR-513	Introduction to Advanced Registered Nursing	4 credits
<u>NUR-514</u>	Organizational Leadership and Informatics	4 credits
<u>NUR-550</u>	Translational Research and Population Health Management	4 credits
NUR-590	Evidence Based-Practic Project	4 credits
<u>LDR-615</u>	Organizational Development and Change	4 credits
<u>NUR-621</u>	Principles of Health Care Financial Management	4 credits
<u>NUR-630</u>	Performance Improvement and Quality in Health Care	4 credits
<u>HRM-635</u>	Acquiring, Developing, and Leveraging Human Capital	4 credits
<u>NUR-674</u>	Leadership in Health Care Systems Practicum	4 credits
ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
ECN-601	Economics	4 credits
BUS-660	Quantitative Methods	4 credits
MKT-607	Marketing Management	4 credits
ACC-650	Managerial Accounting	4 credits
MGT-655	Operations Management	4 credits
FIN-650	Managerial Finance	4 credits
MGT-660	Strategic Management	4 credits

Master of Business Administration & Master of Science in Nursing: Nursing Leadership in Health Care Systems

#### **Master of Science in Accounting**

Grand Canyon University's Master of Science in Accounting program is designed to enhance theoretical and practical accounting skills for Certified Public Accountant (CPA) candidates. The program prepares students to sit for the Uniform CPA exam through reinforcing content covered in the CPA Exam Core and presenting material covered in the CPA Discipline of Business Analysis and Reporting (BAR).

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
ACC-614	Accounting Research	2 credits
ACC-657	Advanced Data Analytics	4 credits
$ACC-680^{\Omega}$	Auditing and Data Analytics Core	4 credits
ACC-656	Advanced Accounting	4 credits
$ACC-681^{\Omega}$	Tax Core	4 credits
ACC-658	Governmental and Not-For-Profit Accounting	4 credits
$\underline{ACC-682^{\Omega}}$	Accounting and Data Analytics Core	4 credits

Accounting  ACC- $685^{\Omega}$ BAR Discipline Capstone	4 credits

Master of Science in Accounting

34 credits

# Master of Science in Accounting with an Emphasis in Tax Compliance and Planning

Grand Canyon University's Master of Science in Accounting with an Emphasis in Tax Compliance and Planning program is designed to enhance theoretical and practical accounting skills for Certified Public Accountant (CPA) candidates. The program prepares students to sit for the Uniform CPA Exam through reinforcing content covered in the CPA Exam Core and presenting material covered in the CPA Discipline of Tax Compliance and Planning (TCP).

#### **Degree Requirements**

$\underline{\text{UNV-}504^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits
ACC-614	Accounting Research	2 credits
ACC-657	Advanced Data Analytics	4 credits
$ACC-680^{\Omega}$	Auditing and Data Analytics Core	4 credits
ACC-669	Corporate Taxation	4 credits
$ACC-682^{\Omega}$	Accounting and Data Analytics Core	4 credits
ACC-661	Flow-Through Entities and Planning	4 credits
$ACC-681^{\Omega}$	Tax Core	4 credits
ACC-663	Personal Financial Advisory Services	4 credits
ACC-683	TCP Discipline Capston	2 credits
		24 1:4-

Master of Science in Accounting with an Emphasis in Tax Compliance and Planning

34 credits

# Master of Science in Cybersecurity Management

The Master of Science in Cybersecurity Management will prepare students to become a global cutting-edge managerial expert. Featured areas of study includes laws/compliance, governance, leadership/management, and prevention/recovery. Coursework will cover topics such as information security, risk management, compliance, governance, consumer theft, corporate/government data breaches, cybercrime, and cyberterrorism.

#### **Degree Requirements**

UNV- $504^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Business	
<u>CYB-505</u>	Cyber Warfare and Applications	4 credits
CYB-515	Enterprise Security Infrastructure	4 credits
	Design	
CYB-535	Policy Management for Security	4 credits
	Solutions	
MIS-602	Innovation in Information Technology	4 credits
	and Data Management	
LDR-604	IT Management and Leadership	4 credits
CYB-630	Enterprise Cyber Law and	4 credits
<u>012 000</u>	Compliance Strategies	
MIS-657	Information Security and Risk	4 credits
<u> </u>	Management	
$\underline{\text{LDR-665}^{\Omega}}$	Cybersecurity Leadership Capstone	4 credits
Master of Sci	ence in Cybersecurity Mangement	34 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

74 credits

# **Graduate Certificate of Completion in Homeland Security and Emergency Management**

The Graduate Certificate of Completion in Homeland Security and Emergency Management provides graduates with foundational skills in homeland security and emergency management. Coursework includes leadership and organizations, emergency planning, economics and human issues, and law and legal issues related to emergency management.

#### **Degree Requirements**

MGT-605	Leadership and Organizations	4 credits
EMM-600	Emergency Planning and Management	4 credits
EMM-605	Economics and Human Issues	4 credits
EMM-610	Law and Legal Issues	4 credits
	ificate of Completion in Homeland Emergency Management	16 credits

# **Graduate Certificate of Completion in Project** Management

Grand Canyon University's Graduate Certificate of Completion in Project Management provides graduates with foundational knowledge and skills necessary to serve as a project manager. The coursework includes concepts related to traditional & agile project management, leadership, and finance fundamentals. Courses in the program align with key aspects of PMI®'s A Guide to the Project Management Body of Knowledge (PMBOK®).

#### **Degree Requirements**

LDR-604	IT Management and Leadership	4 credits
LDR-615	Organizational Development and Change	4 credits
MGT-640	Fundamentals of Project Management	4 credits
MGT-641	Agile Project Management	4 credits
Graduate Cert Management	ificate of Completion in Project	16 credits

#### **Graduate Certificate in Servant Leadership**

The Graduate Certificate in Servant Leadership provides graduates with foundational skills in leadership. Coursework includes leadership styles and development, coaching and developing leaders, servant leadership, and conscious capitalism.

#### **Degree Requirements**

MGT-605	Leadership and Organizations	4 credits
LDR-630	Servant Leadership	4 credits
LDR-670	Global Leadership	4 credits
<u>BUS-676</u>	Advanced Conscious Capitalism: Free Market Perspectives	4 credits
Graduate Certificate in Servant Leadership		16 credits

# School of Professional Studies

For working adults seeking an undergraduate degree, the School of Professional Studies offers the following undergraduate degree programs:

Bachelor of Science in Applied Management

The School of Professional Studies also offers the following graduate-level degree programs:

- · Master of Public Administration with Emphases in
  - o Government and Policy
- o Health Care Management
- Master of Science in Leadership
- Master of Science in Leadership with an Emphasis in Homeland Security and Emergency Management

In addition to its degree offerings, the Colangelo College of Business offers students the opportunity to be a member of Alpha Sigma Lambda. Alphas Sigma Lambda is a national honor society open to both graduate and undergraduate students by invitation only, based primarily upon scholastic achievement.

# School of Professional Studies: Graduate Programs

### **Master of Science in Business Analytics**

The Master of Science in Business Analytics program will prepare students for a career in business analytics with a focus on using big data to help organizations make tactical and strategic decisions. Students study topics related to databases, data mining, descriptive analytics, data visualization, predictive analytics, prescriptive analytics, and ethical aspects of using data. Emphasis is on hands-on application using industry tools.

#### **Degree Requirements**

$\underline{\text{UNV-504}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
	the College of Business	4 114
MIS-600	Applied Analytics for Business	4 credits
MIS-605	Introduction to Databases	4 credits
MIS-615	Statistics for Business Analytics	4 credits
WID OID	Professionals	
MIS-620	Descriptive and Diagnostic Analytics	4 credits
	Douforming Analystics Using a	4 1:4-
MIS-650	Performing Analytics Using a	4 credits
	Statistical Language	
MIS-655	Data Mining	4 credits
MIS-661	Predictive Analytics	4 credits
	D 141 A 141 - 1A1 - 1	4 11.
MIS-665	Prescriptive Analytics and Advanced	4 credits
	Topics	
$\overline{\text{MIS-690}^{\Omega}}$	Applied Capstone Project	4 credits
N	· · · D · · · · · · · · · · · ·	38 cradits

Master of Science in Business Analytics

38 credits

#### Master of Science in Leadership

Grand Canyon University's Master of Science in Leadership program provides students with the skills to develop professionally and gain self-confidence in their own leadership styles. Students learn to integrate a conceptual foundation for an executive leadership role that emphasizes the immediate application of ethical and practical leadership skills as well as the ability to create, communicate, and influence decisions using critical thinking and problem-solving skills that are grounded in theory and research. The program emphasizes establishing and maintaining relationships based on intrapersonal and interpersonal communication skills in order to lead diverse and global organizations.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Degree Requirements		AES-101A	Heritage and Values I	2 credits	
$\underline{\text{UNV-}504^{\Omega}}$	Introduction to Graduate Studies in the College of Business	2 credits	AES-102	Leadership Laboratory	0 credit
MGT-605	Leadership and Organizations	4 credits	<u>AES-103A</u>	Heritage and Values II	2 credits
LDR-630	Servant Leadership	4 credits	<u>AES-104</u>	Leadership Laboratory	0 credit
LDR-612	Coaching, Mentoring, and Leadership Development	4 credits	<u>AES-201A</u>	Team and Leadership Fundamentals I	2 credits
LDR-615	Organizational Development and	4 credits	<u>AES-202A</u>	Leadership Laboratory	0 credit
<u>LDR-640</u>	Change Leadership and Innovation	4 credits	<u>AES-203A</u>	Team and Leadership Fundamentals II	2 credits
HRM-635	Acquiring, Developing, and Leveraging Human Capital	4 credits	<u>AES-204</u>	Leadership Laboratory	0 credit
<u>LDR-670</u>	Global Leadership	4 credits	<u>AES-301A</u>	Leading People an dEffective Communication I	2 credits
<u>BUS-676</u>	Advanced Conscious Capitalism: Free Market Perspectives	4 credits	<u>AES-302</u>	Leadership Laboratory	0 credit
Master of Sci	ience in Leadership	34 credits	<u>AES-303A</u>	Leading People an dEffective Communication II	3 credits
Master of S	Science in Leadership with an En	nnhasis	<u>AES-304</u>	Leadership Laboratory	0 credit
	nd Security and Emergency	inpitusis	<u>AES-401A</u>	National Security, Leadership Responsibilities Commissioning	3 credits
	f Science in Leadership with an emphasis in	n	AES-402	Preparation I Leadership Laboratory	0 credit
Homeland Sec you a degree i	curity and Emergency Management program in leadership while providing advanced skil	m offers lls and	<u>AES-403B</u>	National Security, Leadership Responsibilities Commissioning	3 credits
	nalysis and emergency planning and manag highlights the application of disaster respor		AEG 404	Preparation II Leadership Laboratory	0 credit
recovery and	in-depth analysis of the strategic, human, e	conomic,	<u>AES-404</u>	Air Force Physical Fitness	2 credits
legal, political, and environmental issues that impact the field.			<u>AES-294A</u> <u>AES-294B</u>	Air Force Physical Fitness	2 credits
Degree Requ	Introduction to Graduate Studies in	2 credits	AES-294C	Air Force Physical Fitness	2 credits
$UNV-504^{\Omega}$	the College of Business	2 credits	AES-294D	Air Force Physical Fitness	2 credits
MGT-605	Leadership and Organizations	4 credits	AES-294E	Air Force Physical Fitness	2 credits
<u>LDR-612</u>	Coaching, Mentoring, and Leadership Development	4 credits	AES-294F	Air Force Physical Fitness	2 credits
<u>LDR-670</u>	Global Leadership	4 credits	AES-294G	Air Force Physical Fitness	2 credits
LDR-615	Organizational Development and	4 credit	<u>AES-294H</u>	Air Force Physical Fitness	2 credits
EMM-600	Change Emergency Planning and Management	4 credits		Force (ROTC)	36 credits
EMM-605	Economic and Human Issues	4 credits	Minor in A	rmy (ROTC)	
EMM-610	Law and Legal Issues	4 credits	<u>MSL-101N</u>	Introduction to the Army	3 credits
$\underline{\text{EMM-685}^{\Omega}}$	Leadership in Emergency Management Capstone	4 credits	<u>MSL-102N</u>	Foundations of Agile and Adaptive Leadership	3 credits
Master of Sci	ience in Leadership with an Emphasis in	34 credits	MSL-201N	Leadership and Decision Making	3 credits
	ecurity and Emergency Management		MSL-202N	Army Doctrine and Team Development	3 credits
Minors			MSL-301N	Training Management and the Warfighting Functions	3 credits
The Colangelo College of Business offers minors in the following areas:			MSL-302N	Applied Leadership in Small Unit Operations	3 credits
Minor in Air Force (ROTC)		MSL-401N	The Army Officer	3 credits	
The U.S. Armed Forces are more sophisticated than ever,		•	MSL-402N	Company Grade Leadership	3 credits
demanding we	ell-educated personnel. To meet this deman	nd, GCU	HIS-231	American Military History Military Science Leadership Leb	3 credits
offers a robust and relevant education designed specifically for Army and Air Force military service students. Pursue an Army or			MSL-300A	Military Science Leadership Lab I	1 credit
Air Force min	or to sharpen your abilities in team leaders		MSL-300B	Military Science Leadership Lab	1 credit
military histor	ry, defense policy and other key areas.		MSL-300C	II Military Science Leadership Lab III	1 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

III

MSL-300D	Military Science Leadership Lab	1 credit
MSL-300E	Military Science Leadership Lab	1 credit
MSL-300F	Military Science Leadership Lab	1 credit
MSL-300G	Military Science Leadership Lab	1 credit
MSL-300H	Military Science Leadership Lab MVIII	1 credit
Minor in Arn	ny (ROTC)	35 credits

#### **Minor in Accounting**

ACC-250	Financial Accounting	4 credits
ACC-260	Managerial Accounting	4 credits
ACC-370	Intermediate Accounting I	4 credits
ACC-371	Intermediate Accounting II	4 credits
ACC-360	Cost Accounting	4 credits
Minor in Ac	counting	20 credits

Minor in Accounting

#### **Minor in Business Analytics**

The Business Analytics minor consists of courses that cover database, data visualization, predictive & perspective analytics, and data mining topics. Emphasis is placed on hands-on learning

BIT-200	Introduction to Computer Technology	4 credits
BUS-352	Business Statistics	4 credits
SYM-400	Introduction to Database Structure	4 credits
BIT-430	Introduction to Business Analytics	4 credits
BIT-415	IT Project Management	4 credits
Minor in Business Analytics		20 credits

#### **Minor in Business Management**

MGT-410	Servant Leadership	4 credits
MGT-325	Managing Business Communications and Change	4 credits
MGT-420	Organizational Behavior and	4 credits
BUS-390	Management Global Business	4 credits
<u>воз-390</u> МGТ-434	Human Resources	4 credits
1013434		

20 credits Minor in Business Management

### **Minor in Church Planting and Church** Revitalization

This minor is intended to equip the student with the entrepreneurial skills to start a church or revitalize an existing church using God's miracle of business principles. Whether the student wants to be a pastor, help plant a church, help grow existing churches or start a company that helps churches, this minor will provide a template and skills that can be used to help the church effectively execute the Great Commandment and the Great Commission.

<u>CWV-101</u>	Christian Worldview	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
BUS-325	Church Planting and Revitalization	4 credits

CWV-316	Christian Life: The Way of Jesus	4 credits
<u>MIN-480</u>	Pastoral Leadership	4 credits
Minor in Chu	rch Planting and Church Revitalization	20 credits
Minor in E	Entrepreneurial Studies	
ENT-320	Public Relations and Networking Skills	4 credits
ENT-420	New Venture Financing	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
<u>ENT-446</u>	Business Execution	4 credits
Minor in Entr	repreneurial Studies	16 credits

#### **Minor in Faith and Free Markets**

Minor in Entrepreneurial Studies

The minor in faith and free markets is founded on the Christian worldview and free market capitalism. Courses include a crosscollege experiences such as theology, entrepreneurship and innovation, eliminating poverty, American government, human flourishing and prosperity, living out one's Christian faith, and conscious/stakeholder capitalism

CWV-101	Christian Worldview	4 credits
GOV-140	American Government and Politics	4 credits
CWV-316	Christian Life: The Way of Jesus	4 credits
ECN-449	Poverty of Nations	2 credits
BUS-476	Free Market Capitalism	4 credits
Minor in Fai	th and Free Markets	18 credits

#### **Minor in Finance and Economics**

BUS-352	Business Statistics	4 credits
ECN-351	Essentials of Economics	4 credits
ACC-240	Fundamentals of Accounting	4 credits
FIN-350	Fundamentals of Business Finance	4 credits
FIN-450	Intermediate Finance	4 credits
FIN-375	Introduction to Investments	4 credits
ECN-450	International Trade and Finance	4 credits
Minor in Finance and Economics		28 credits

#### **Minor in General Business**

BIT-200	Introduction to Technology	4 credits
ACC-240	Fundamentals of Accounting	4 credits
BUS-352	Business Statistics	4 credits
ECN-351	Essentials of Economics	4 credits
MGT-420	Organizational Behavior and	4 credits
	Management	
Minor in General Business		20 credits

#### **Minor in Hospitality Management**

HOS-200	Introduction to Hospitality	4 credits
HOS-440	Hotel and Lodging Management and	4 credits
	Operations I	
HOS-455	Event and Tourism	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

HOS-460	Food and Beverage Service	4 credits
	Management and Operations	

Minor in Hospitality Management

16 credits

### Minor in Hospitality and Tourism Management

The minor in Hospitality and Tourism Management prepares students for careers in the hospitality and tourism industries. The minor courses offer a broad-based curriculum specific to hospitality and tourism management, including hotel and restaurant management, event planning, and tourism destination and activity management.

<u>HTM-200</u>	Introduction to Hospitality and Tourism	4 credits
<u>HTM-440</u>	Hotel and Lodging Management and	4 credits
HTM-450	Operations Food and Beverage Service	4 credits
HTTM 460	Management and Operationg Event Management	4 credits
HTM-460	Tourism Management	4 credits
Minor in Hos		20 credits
Minor in Hospitality Management		20 Cledits

#### **Minor in Marketing**

Minor in Marketing

MKT-315	Introduction to Marketing	4 credits
MKT-345	Buyer and Consumer Behavior	4 credits
MKT-415	Promotion and Advertising	4 credits
MKT-450	Marketing Management	4 credits
MKT-462	Digital Marketing and Advertising	4 credits
Minor in Marketing		20 credits

#### **Minor in Sports and Entertainment Management**

Grand Canyon University's Bachelor of Science in Sports The minor in Sports and Entertainment Management prepares

students to compete for entry-level positions in both the sports and entertainment industry. Students will gain knowledge of the business operations of sports from youth and recreational sport, through professional sport leagues. In addition, students will learn about live entertainment and the association with the sports industry. Students learn how to engage with customers, sales, venue management, event planning and marketing.

MKT-315	Introduction to Marketing	4 credits
<u>SPT-230</u>	Introduction to Sports and Entertainment Management	4 credits
SPT-350	Sport and Entertainment Analytics	4 credits
SPT-370	Sports and Entertainment Marketing	4 credits
<u>SPT-375</u>	Sport and Entertainment Event Planning	4 credits
Minor in Spe	orts and Entertainment Management	20 credits

Minor in Sports and Entertainment Management

### Minor in Supply Chain and Logistics Management

The minor in supply chain and logistics management focuses on procurement, logistics and systems aspects of global supply chains. This minor will prepare you to be a competitive candidate for positions that focus on optimizing organizational effectiveness and managing and analyzing global supply chains..

BUS-352	Business Statistics	4 credits
SCM-400	Global Supply Chain Operations	4 credits
SCM-410	Lean and Quality Management	4 credits
SCM-450	Procurement and Global Supply Chain Management	4 credits
<u>SCM-454</u>	Manufacturing Planning and Control Systems	4 credits

20 credits Minor in Supply Chain and Logistics Management

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# The College of Doctoral Studies

# College Description

The College of Doctoral Studies provides planning, administration, and evaluation of GCU doctoral programs. The College is responsible for operations concerning doctoral learners including screening applications, assessing students' needs for support services, interfacing with Enrollment, planning and participating in residencies, helping to develop course materials, and providing support throughout the doctoral process. The College provides oversight to the selection of doctoral faculty and contributes to faculty training and evaluation.

# College Mission

The College develops expert practitioners and researchers who become leaders in the disciplines and communities they serve.

# College Vision

Through innovative uses of technology, collaboration, and learning communities, the College of Doctoral Studies will be the premier provider of online doctoral education.

# College Features

Innovative programs in the College of Doctoral Studies are designed to develop scholars through instruction in theory and research, and through practitioners' knowledge. These activities prepare learners to produce scholarly literature, solve problems, and enhance performance in professional roles. The doctoral programs leverage the knowledge and expertise of faculty, learners, and experts external to the University through learning communities specific to the issues, concepts, and methods of a given discipline. Furthermore, the College of Doctoral Studies emphasizes that graduates apply their professional knowledge and services to the benefit of the community.

# **Doctoral Program Goals**

The College of Doctoral Studies expects its graduates to:

- Be experts in the concepts and methods of their disciplines.
- Create new ways to explain, predict, and improve performance within their areas of expertise.
- Conduct scholarly research that creates knowledge and leads to effective actions.
- Exercise ethical and effective leadership.
- Lead through critical analysis and creative solutions.

# **Doctoral Programs**

# Bridge to Doctor of Business Administration with an Emphasis in Data Analytics

Offered online by the College of Doctoral Studies, Grand Canyon University's Bridge to Doctor of Business Administration (DBA) program is designed for ambitious learners with a Master's degree in a field other than business administration. Bridge courses taken prior to the DBA program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Business Administration with an emphasis in Data Analytics program includes coursework in probability, statistics, finance, accounting, marketing and relational database to help the learner prepare to successfully complete the DBA degree program.

ACC-502 Accounting Practices	
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FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
MKT-607	Marketing Management	4 credits
MIS-605	Introduction to Databases	4 credits
Bridge to D	octor of Business Administration	20 credits

Bridge to Doctor of Business Administration with an Emphasis in Data Analytics

Entrepreneurship

# Bridge to Doctor of Business Administration with an Emphasis in Innovation and Corporate

Offered online by the College of Doctoral Studies, Grand Canyon University's Bridge to Doctor of Business Administration (DBA) program is designed for ambitious learners with a Master's degree in a field other than business administration. Bridge courses taken prior to the DBA program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Business Administration with an emphasis in Innovation and Corporate Entrepreneurship program includes coursework in probability, statistics, finance, accounting, and marketing to help prepare the learner to successfully complete the DBA degree program.

ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
MKT-607	Marketing Management	4 credits
Bridge to De	octor of Rusiness Administration	16 credits

Bridge to Doctor of Business Administration with an Emphasis in Innovation and Corporate Entrepreneurship

# Bridge to Doctor of Business Administration with an Emphasis in Management

Offered online by the College of Doctoral Studies, Grand Canyon University's Bridge to Doctor of Business Administration (DBA) program is designed for ambitious learners with a Master's degree in a field other than business administration. Bridge courses taken prior to the DBA program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Business Administration with an emphasis in Management program includes coursework in probability, statistics, finance, accounting, and marketing to help prepare the learner to successfully complete the DBA degree program.

ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits

4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
MKT-607	Marketing Management	4 credits
-	octor of Business Administration phasis in Management	16 credits

# Bridge to Doctor of Business Administration with an Emphasis in Marketing

Offered online by the College of Doctoral Studies, Grand Canyon University's Bridge to Doctor of Business Administration (DBA) program is designed for ambitious learners with a Master's degree in a field other than business administration. Bridge courses taken prior to the DBA program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Business Administration with an emphasis in Management program includes coursework in probability, statistics, finance, accounting, and marketing to help prepare the learner to successfully complete the DBA degree program.

ACC-502	Accounting Practices	4 credits
FIN-504	Finance Principles	4 credits
<u>SYM-506</u>	Applied Business Probability and Statistics	4 credits
MKT-607	Marketing Management	4 credits
Bridge to Do	octor of Business Administration	16 credits

# Doctor of Business Administration: Data Analytics (Qualitative Research)

with an Emphasis in Marketing

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Data Analytics (Qualitative Research) will be able to create and manage the deployment of data analytics in a variety of industries with the intent to secure competitive advantage. Students will conceptualize enterprise data analytics; apply analytic techniques and software to interpret data; evaluate methods of data and analytic modeling; and apply analytics to support data-driven business decision making. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820E^{\Omega}$	The Literature Landscape:	3 credits
	Business	
DBA-820	Emerging Issues in Financial	3 credits
	Management	
MGT-820	Using Business Analytics for	3 credits
	Competitive Advantage	
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
DBA-831	Analytic Foundations for	3 credits
<u> </u>	Business Leaders	
<b>DBA-833</b>	Predictive Modeling	3 credits
DBA-815	Economics for Business	3 credits
2211 010	Decisions	
$\underline{\text{RES-841}^{\Omega}}$	Designing a Qualitative Study 1	3 credits

<u>RES-843<sup>Ω</sup></u>	Designing a Qualitative Study 2	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
DBA-839	Enterprise Data Complexity	3 credits
DBA-955 Ω	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
DBA-960 Ω	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits
Doctor of Business Administration: Data Analytics (Qualitative Research)		60 credits

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

$\overline{DBA-966E^{\Omega}}$	Research Continuation I	3 credits
$\overline{DBA-967E^{\Omega}}$	Research Continuation II	3 credits
$\overline{DBA-968E^{\Omega}}$	Research Continuation III	3 credits
$\overline{DBA-969E^{\Omega}}$	Research Continuation IV	3 credits
$\overline{DBA-970E^{\Omega}}$	Research Continuation V	3 credits
$\overline{DBA-971E^{\Omega}}$	Research Continuation VI	3 credits
$\overline{DBA-972E^{\Omega}}$	Research Continuation VII	3 credits
$\overline{DBA-973E^{\Omega}}$	Research Continuation VIII	3 credits
$DBA-974E^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Business Administration: Data Analytics (Quantitative Research)**

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Data Analytics (Quantitative Research) will be able to create and manage the deployment of data analytics in a variety of industries with the intent to secure competitive advantage. Students will conceptualize enterprise data analytics; apply analytic techniques and software to interpret data; evaluate methods of data and analytic modeling; and apply analytics to support data-driven business decision making. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

$RES-815^{\Omega}$	Introduction to Research	3 credits
RES- $820E^{\Omega}$	The Literature Landscape:	3 credits
	Business	
DBA-820	Emerging Issues in Financial	3 credits
	Management	
MGT-820	Using Business Analytics for	3 credits
1101 020	Competitive Advantage	
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
DBA-831	Analytic Foundations for	3 credits
<u>DDIT 031</u>	Business Leaders	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

DBA-833	Predictive Modeling	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
<b>DBA-835</b>	The Sustainable Future	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
<b>DBA-839</b>	Enterprise Data Complexity	3 credits
DBA-955 Ω	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
DBA-960 Ω	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
DBA-965 <sup>Ω</sup>	Dissertation III	3 credits

Doctor of Business Administration: Data	60
Analytics (Quantitative Research)	credits

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

Research Continuation I	3 credits
Research Continuation II	3 credits
Research Continuation III	3 credits
Research Continuation IV	3 credits
Research Continuation V	3 credits
Research Continuation VI	3 credits
Research Continuation VII	3 credits
Research Continuation VIII	3 credits
Research Continuation IX	3 credits
	Research Continuation II Research Continuation III Research Continuation IV Research Continuation V Research Continuation VI Research Continuation VIII Research Continuation VIII

# **Doctor of Business Administration: Innovation and Corporate Entrepreneurship (Qualitative Research)**

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Innovation and Corporate Entrepreneurship (Qualitative) will learn how to create a company-wide innovation culture. Students learn to encourage and reward participation in the process of proposing new products or processes that result in significant competitive advantage that is difficult for other companies to replicate. Coursework specifically focuses on creating innovation, organizational structure, and prototyping an innovation, product, or process. Moreover, students will learn to secure organizational commitment of advocates resulting in the execution of a scalable solution. Students will apply qualitative methodology to the completion of the student's research dissertation.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820E}^{\Omega}}$	The Literature Landscape: Business	3 credits
<u>DBA-820</u>	Emerging Issues in Financial	3 credits
<u>INN-812</u> <sup>Ω</sup>	Management Innovation and Organizational Structures	3 credits

RES-831 $^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 <sup>Ω</sup>	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
<u>INN-817</u> <sup>Ω</sup>	Designing Corporate Entrepreneurial Solutions	3 credits
<u>INN-822</u> <sup>Ω</sup>	Achieving Corporate Entrepreneurial Commitment	3 credits
RES-841 $^{\Omega}$	Designing a Qualitative Study 1	3 credits
RES-843 $^{\Omega}$	Designing a Qualitative Study 2	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
<u>INN-827</u> <sup>Ω</sup>	Corporate Entrepreneurial Complexity	3 credits
<u>DBA-955 Ω</u>	Dissertation I	3 credits
<u>RES-873<sup>Ω</sup></u>	Qualitative Data Collection and Management	3 credits
DBA-960 Ω	Dissertation II	3 credits
<u>RES-883</u> <sup>Ω</sup>	Qualitative Data Analysis, Results and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits

Doctor of Business Administration: Innovation	60
and Corporate Entrepreneurship (Qualitative	credits
Research)	

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

$\overline{\mathrm{DBA-966E}^{\Omega}}$	Research Continuation I	3 credits
$\overline{DBA-967E^{\Omega}}$	Research Continuation II	3 credits
$\overline{DBA-968E^{\Omega}}$	Research Continuation III	3 credits
$\overline{DBA-969E^{\Omega}}$	Research Continuation IV	3 credits
$\overline{DBA-970E^{\Omega}}$	Research Continuation V	3 credits
$\overline{DBA-971E^{\Omega}}$	Research Continuation VI	3 credits
$\overline{DBA-972E^{\Omega}}$	Research Continuation VII	3 credits
$\overline{DBA-973E^{\Omega}}$	Research Continuation VIII	3 credits
$\overline{DBA-974E^{\Omega}}$	Research Continuation IX	3 credits

# Doctor of Business Administration: Innovation and Corporate Entrepreneurship (Quantitative Research)

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Innovation and Corporate Entrepreneurship (Quantitative) will learn how to create a company-wide innovation culture. Students learn to encourage and reward participation in the process of proposing new products or processes that result in significant competitive advantage that is difficult for other companies to replicate. Coursework specifically focuses on creating innovation, organizational structure, and prototyping an innovation, product, or process. Moreover, students will learn to secure organizational commitment of advocates resulting in the execution of a scalable solution. Students will apply qualntitative methodology to the completion of the student's research dissertation.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820E^{\Omega}$	The Literature Landscape: Business	3 credits
$INN-812^{\Omega}$	Innovation and Organizational Structures	3 credits
RES-831 $^{Ω}$	Foundations of Research Design 1	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$INN-817^{\Omega}$	Designing Corporate	3 credits
<u>INN-822</u> <sup>Ω</sup>	Entrepreneurial Solutions Achieving Corporate Entrepreneurial Commitment	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
<u>INN-827</u> <sup>Ω</sup>	Corporate Entrepreneurial Complexity	3 credits
$\overline{\text{DBA-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
DBA-960 <sup>Ω</sup>	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits

60 Doctor of Business Administration: Innovation and Corporate Entrepreneurship (Quantitative credits Research)

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

$\overline{DBA-966E^{\Omega}}$	Research Continuation I	3 credits
<u>DBA-967Ε</u> <sup>Ω</sup>	Research Continuation II	3 credits
$\overline{DBA-968E^{\Omega}}$	Research Continuation III	3 credits
DBA-969E $^{\Omega}$	Research Continuation IV	3 credits
DBA-970E $^{\Omega}$	Research Continuation V	3 credits
$\underline{DBA-971E^\Omega}$	Research Continuation VI	3 credits
$\underline{DBA-972E^\Omega}$	Research Continuation VII	3 credits
DBA-973E $^{\Omega}$	Research Continuation VIII	3 credits
$\overline{DBA-974E^{\Omega}}$	Research Continuation IX	3 credits

# **Doctor of Business Administration: Management** (Qualitative Research)

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Management (Qualitative Research) will be able to create and manage the deployment of organizational structures in a variety of industries with the intent to secure competitive advantage. Students will apply theoretical foundations to address complex interconnected management issues; propose organizational structures to achieve optimal organizational performance; propose change

management strategies; analyze the implications of law in business management, and analyze complexities of management. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820E^{\Omega}$	The Literature Landscape: Business	3 credits
<u>DBA-820</u>	Emerging Issues in Financial Management	3 credits
<u>DBA-805</u>	Management Theory in a Global Economy	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
<u>MGT-805</u>	Designing Organizational Structures	3 credits
MGT-825	Contemporary Business Law	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
MGT-830	Management of Business Complexity	3 credits
<u>DBA-955 Ω</u>	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
<u>DBA-960 Ω</u>	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits

60 Doctor of Business Administration: Management (Qualitative Research)

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

Research Continuation I	3 credits
Research Continuation II	3 credits
Research Continuation III	3 credits
Research Continuation IV	3 credits
Research Continuation V	3 credits
Research Continuation VI	3 credits
Research Continuation VII	3 credits
Research Continuation VIII	3 credits
Research Continuation IX	3 credits
	Research Continuation II Research Continuation III Research Continuation IV Research Continuation V Research Continuation VI Research Continuation VII Research Continuation VIII

## **Doctor of Business Administration: Management** (Quantitative Research)

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Management

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

(Quantitative Research) will be able to create and manage the deployment of organizational structures in a variety of industries with the intent to secure competitive advantage. Students will apply theoretical foundations to address complex interconnected management issues; propose organizational structures to achieve optimal organizational performance; propose change management strategies; analyze the implications of law in business management, and analyze complexities of management. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820E}^{\Omega}}$	The Literature Landscape:	3 credits
<u>DBA-820</u>	Emerging Issues in Financial Management	3 credits
<u>DBA-805</u>	Management Theory in a Global Economy	3 credits
RES-831 $^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 <sup>Ω</sup>	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
MGT-805	Designing Organizational Structures	3 credits
MGT-825	Contemporary Business Law	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
MGT-830	Management of Business Complexity	3 credits
<u>DBA-955 Ω</u>	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
<u>DBA-960 Ω</u>	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits
Doctor of Busi	ness Administration: Management	60

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

$\overline{DBA-966E^{\Omega}}$	Research Continuation I	3 credits
<u>DBA-967Ε</u> <sup>Ω</sup>	Research Continuation II	3 credits
<u>DBA-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
<u>DBA-969E</u> Ω	Research Continuation IV	3 credits
$\overline{DBA-970E^{\Omega}}$	Research Continuation V	3 credits
$\overline{DBA-971E^{\Omega}}$	Research Continuation VI	3 credits
$\overline{DBA-972E^{\Omega}}$	Research Continuation VII	3 credits
DBA-973E $^{\Omega}$	Research Continuation VIII	3 credits

DBA- $974^{\Omega}$  Research Continuation IX

# 3 credits

# **Doctor of Business Administration: Marketing** (Qualitative Research)

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Marketing (Qualitative Research) will be able to create and manage data-driven marketing in a variety of industries with the intent to secure competitive advantage. Students will integrate the history, philosophy, and theories of marketing; assess the influence of digital technologies; evaluate data-driven marketing management strategies and analyze the complexities of global marketing. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

# **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820E}^{\Omega}}$	The Literature Landscape: Business	3 credits
<u>DBA-820</u>	Emerging Issues in Financial Management	3 credits
<u>MKT-830</u>	The History and Philosophy of Marketing	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
MKT-832	Digital Technology and Consumer Behavior	3 credits
MKT-834	Data-Driven Marketing Management	3 credits
<u>DBA-815</u>	Economics for Business Decisions	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
DBA-835	The Sustainable Future	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
MKT-838	Complexity of Marketing	3 credits
<u>DBA-955 Ω</u>	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
<u>DBA-960 Ω</u>	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
<u>DBA-965 Ω</u>	Dissertation III	3 credits
Doctor of Bus	iness Administration: Marketing	60

Doctor of Business Administration: Marketing	60
(Qualitative Research)	credits

Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$  must take one or more of the following in order to complete their dissertation:

<u>DBA-966Ε</u> <sup>Ω</sup>	Research Continuation I	3 credits
<u>DBA-967E</u> Ω	Research Continuation II	3 credits
<u>DBA-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
$\overline{DBA-969E^{\Omega}}$	Research Continuation IV	3 credits
$DBA-970E^{\Omega}$	Research Continuation V	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

credits

(Quantitative Research)

$\overline{DBA-971E^{\Omega}}$	Research Continuation VI	3 credits	$\overline{DBA-968E^{\Omega}}$	Research Continuation III	3 credits
<u>DBA-972Ε</u> <sup>Ω</sup>	Research Continuation VII	3 credits	$\overline{DBA-969E^{\Omega}}$	Research Continuation IV	3 credits
<u>DBA-973E</u> <sup>Ω</sup>	Research Continuation VIII	3 credits	$\overline{\mathrm{DBA-970E^{\Omega}}}$	Research Continuation V	3 credits
<u>DBA-974Ε</u> <sup>Ω</sup>	Research Continuation IX	3 credits	$\overline{\text{DBA-971E}^{\Omega}}$	Research Continuation VI	3 credits
Doctor of R	usiness Administration: M	arkating	$DBA-972E^{\Omega}$	Research Continuation VII	3 credits
	ve Research)	ai Keung	$\overline{\mathrm{DBA-973E}^{\Omega}}$	Research Continuation VIII	3 credits
. •	1.G. H.:	CD :	$\overline{\mathrm{DBA-974E^{\Omega}}}$	Research Continuation IX	3 credits

# D ((

Graduates of Grand Canyon University's Doctor of Business Administration Program with an emphasis in Marketing (Quantitative) will be able to create and manage data-driven marketing in a variety of industries with the intent to secure competitive advantage. Students will integrate the history, philosophy, and theories of marketing; assess the influence of digital technologies; evaluate data-driven marketing management strategies and analyze the complexities of global marketing. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

# Degree Requirements

Degree Require	ements		
$RES-815^{\Omega}$	Introduction to Research	3 credits	
$\underline{\text{RES-820E}^{\Omega}}$	The Literature Landscape: Business	3 credits	
<u>DBA-820</u>	Emerging Issues in Financial Management	3 credits	
<u>MKT-830</u>	The History and Philosophy of Marketing	3 credits	
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits	
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits	
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits	
<u>MKT-832</u>	Digital Technology and Consumer Behavior	3 credits	
<u>MKT-834</u>	Data-Driven Marketing Management	3 credits	
<u>DBA-815</u>	Economics for Business Decisions	3 credits	
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits	
$\underline{\text{RES-844}^{\Omega}}$	Designing a Quantitative Study 2	3 credits	
DBA-835	The Sustainable Future	3 credits	
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits	
MKT-838	Complexity of Marketing	3 credits	
DBA-955 Ω	Dissertation I	3 credits	
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits	
<u>DBA-960 Ω</u>	Dissertation II	3 credits	
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits	
<u>DBA-965 Ω</u>	Dissertation III	3 credits	
Doctor of Business Administration: Marketing 60 (Quantitative Research) credits			
Doctoral learners who did not complete their dissertation in DBA-965 $^{\Omega}$ must take one or more of the following in order to complete their dissertation:			
DBA-966E $^{\Omega}$	Research Continuation I	3 credits	
<u>DBA-967Ε</u> <sup>Ω</sup>	Research Continuation II	3 credits	

# **Doctor of Education in Organizational Leadership: Behavioral Health (Qualitative** Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Behavioral Health will advance the study of leadership within the field of behavior health with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

Degree Require	ements	
$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
LDR-800	Ethical Dilemmas and Stewardship	3 credits
PCE-812	Behavioral Health Management	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
PCE-820	Behavioral Health Clinical Supervision	3 credits
PCE-822	Behavioral Health Entrepreneurship	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
PCE-805	Consultation for Behavioral Health Professionals	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
		60

Doctor of Education in Organizational 60 Leadership: Behavioral Health (Qualitative credits Research)

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$\overline{\text{DIS-967E}^{\Omega}}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
$\overline{\text{DIS-969E}^{\Omega}}$	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
$\underline{\text{DIS-974E}^{\Omega}}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Behavioral Health (Quantitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Behavioral Health will advance the study of leadership within the field of behavior health with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820A^{\Omega}$	The Literature Landscape:	3 credits
	Organizational Leadership	
LDR-800	Ethical Dilemmas and	3 credits
	Stewardship	
PCE-812	Behavioral Health Management	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits

RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
PCE-820	Behavioral Health Clinical	3 credits
PCE-822	Supervision Behavioral Health Entrepreneurship	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
PCE-805	Consultation for Behavioral Health Professionals	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
D ( CE1		60

Doctor of Education in Organizational 60 Leadership: Behavioral Health (Quantitative credits Research)

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
<u>DIS-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
DIS-969E <sup>Ω</sup>	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974F $\Omega$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Christian Ministry (Qualitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Emphasis in Christian Ministry will advance the study of leadership within the field of Christian ministry with an in-depth research-based approach to facilitate leadership within Christian ministry and society.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
<u>LDR-800</u>	Ethical Dilemmas and Stewardship	3 credits
MIN-812	Theology of Leadership	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
MIN-817	Christian Ministry and Culture	3 credits
MIN-822	Trends and Issues in Christian Ministry	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
MIN-827	Practical Considerations in Christian Ministry	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Deater of Edu	action in Organizational	60

Doctor of Education in Organizational	60
Leadership: Christian Ministry (Qualitative	credits
Research)	

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

$DIS-966E^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$\underline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$\underline{\text{DIS-972E}^{\Omega}}$	Research Continuation VII	3 credits
$\underline{\text{DIS-973E}^{\Omega}}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

## **Doctor of Education in Organizational Leadership: Christian Ministry (Quantitative** Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and

responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Christian Ministry will advance the study of leadership within the field of Christian ministry with an in-depth research-based approach to facilitate leadership within Christian ministry and society.

#### **Degree Requirements**

81		
RES- $815^{\Omega}$	Introduction to Research	3 credits
$RES-820A^{\Omega}$	The Literature Landscape:	3 credits
LDR-800	Organizational Leadership Ethical Dilemmas and Stewardship	3 credits
MIN-812	Theology of Leadership	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
MIN-817	Christian Ministry and Culture	3 credits
MIN-822	Trends and Issues in Christian Ministry	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
MIN-827	Practical Considerations in Christian Ministry	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\rm DIS-960^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
$\overline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Doctor of Edu	cation in Organizational	60
	hristian Ministry (Quantitative	credits

Leadership: Christian Ministry (Quantitative

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

$DIS-966E^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$\overline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$\overline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Health Care Administration (Qualitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Health Care Administration will advance the study of leadership within the field of health care with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
LDR-800	Ethical Dilemmas and Stewardship	3 credits
HCA-812	Health Care Regulation	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design 1	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
<u>HCA-817</u>	Professional Development and Leadership in Health Care	3 credits
HCA-822	Building a Culture of Community in Health Care	3 credits
$\underline{\text{RES-841}^{\Omega}}$	Designing a Qualitative Study 1	3 credits
$\underline{\text{RES-843}^{\Omega}}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
<u>LDR-804</u>	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
<u>HCA-827</u>	Sustainability of Health Care Organizations	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\underline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits

$RES-883^{\Omega}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Doctor of Ed	ucation in Organizational	60
Leadership: Health Care Administration		credits
(Qualitative	Research)	

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$\underline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
$DIS-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Health Care Administration (Quantitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Health Care Administration will advance the study of leadership within the field of health care with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

RES- $815^{\Omega}$	Introduction to Research	3 credits
$RES-820A^{\Omega}$	The Literature Landscape:	3 credits
LDR-800	Organizational Leadership Ethical Dilemmas and Stewardship	3 credits
HCA-812	Health Care Regulation	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
HCA-817	Professional Development and Leadership in Health Care	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>HCA-822</u>	Building a Culture of Community in Health Care	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$RSD-884^{\Omega}$	Residency: The Quantitative Dissertation	3 credits
<u>HCA-827</u>	Sustainability of Health Care Organizations	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits

Doctor of Education in Organizational 60
Leadership: Health Care Administration
(Quantitative Research)

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
DIS-969E <sup>Ω</sup>	Research Continuation IV	3 credits
$\overline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$\underline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
$DIS-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Higher Education Leadership (Qualitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Higher Education Leadership will advance the study of leadership within the field of higher education leadership with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

#### **Degree Requirements**

RES- $815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
<u>LDR-800</u>	Ethical Dilemmas and Stewardship	3 credits
EDU-805	History and Politics of Higher Education	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
EDU-812	Governance and Structures in Higher Education	3 credits
EDU-822	Fiscal Management in Higher Education	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
RES-843 $^{\Omega}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
EDU-827	Strategic Planning in Higher Education	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\overline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Doctor of Edu	action in Organizational	60

Doctor of Education in Organizational 60 Leadership: Higher Education Leadership credits (Qualitative Research)

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
$DIS-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Higher Education Leadership (Quantitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities

<sup>&</sup>lt;sup>Δ</sup>Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Higher Education Leadership will advance the study of leadership within the field of higher education leadership with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

Introduction to Research

#### **Degree Requirements**

RES- $815^{\Omega}$ 

$RES-820A^{\Omega}$	The Literature Landscape:	3 credits	
<u>LDR-800</u>	Organizational Leadership Ethical Dilemmas and Stewardship	3 credits	
EDU-805	History and Politics of Higher Education	3 credits	
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits	
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits	
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits	
EDU-812	Governance and Structures in Higher Education	3 credits	
EDU-822	Fiscal Management in Higher Education	3 credits	
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits	
$\underline{\text{RES-844}^{\Omega}}$	Designing a Quantitative Study 2	3 credits	
LDR-825	Strategic Planning and Change	3 credits	
LDR-804	Leading Across Cultures	3 credits	
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits	
EDU-827	Strategic Planning in Higher Education	3 credits	
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits	
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits	
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits	
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits	
$\overline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits	
Doctor of Educ	cation in Organizational	60	
Leadership: Higher Education Leadership credits			
(Quantitative Research)			
Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to			
complete their dissertation:			
DIS-966E $^{\Omega}$	Research Continuation I	3 credits	
$\overline{\text{DIS-967E}^{\Omega}}$	Research Continuation II	3 credits	

Research Continuation III

$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
DIS-970E $^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
DIS-972E $^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Education in Organizational Leadership: K-12 Leadership (Qualitative** Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in K-12 Leadership will advance the study of leadership within the field of K-12 education leadership with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

Degree Require	ements	
$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape:	3 credits
<u>LDR-800</u>	Organizational Leadership Ethical Dilemmas and Stewardship	3 credits
EDL-807	History and Politics of K-12 Education	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
EDL-812	Governance and Structures in K- 12 Education	3 credits
EDL-822	Trends and Issues in K-12 Education	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
EDL-827	Strategic Planning in K-12 Education	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

3 credits

3 credits

DIS-968E $^{\Omega}$ 

$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Dooton of Edu	action in Organizational V 12	60

Doctor of Education in Organizational K-12 60 Leadership (Qualitative Research) credits

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

$DIS-966E^{\Omega}$	Research Continuation I	3 credits
$\underline{\text{DIS-967E}^{\Omega}}$	Research Continuation II	3 credits
$\overline{\text{DIS-968E}^{\Omega}}$	Research Continuation III	3 credits
$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$\overline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$\overline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
$DIS-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: K-12 Leadership (Quantitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in K-12 Leadership will advance the study of leadership within the field of K-12 education leadership with an in-depth, research-based approach to facilitate the leadership abilities and role as a strategic professional.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820A^{\Omega}$	The Literature Landscape:	3 credits
	Organizational Leadership	
LDR-800	Ethical Dilemmas and	3 credits
	Stewardship	
EDL-807	History and Politics of K-12	3 credits
<u>LDL-007</u>	Education	
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
EDL-812	Governance and Structures in K- 12 Education	3 credits

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Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

$DIS-966E^{\Omega}$	Research Continuation I	3 credits
$\overline{\text{DIS-967E}^{\Omega}}$	Research Continuation II	3 credits
$\overline{\text{DIS-968E}^{\Omega}}$	Research Continuation III	3 credits
$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$\overline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$\overline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$\underline{\text{DIS-972E}^{\Omega}}$	Research Continuation VII	3 credits
$\underline{\text{DIS-973E}^{\Omega}}$	Research Continuation VIII	3 credits
$DIS-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Education in Organizational Leadership: Organizational Development (Qualitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Organizational Development will examine organizational culture, communication, and leader/follower interaction, and will analyze organizational models using

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

constructs from research to explain behaviors and events in an organizational setting.

#### **Degree Requirements**

$\frac{\text{RES-815}^{\Omega}}{1}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape:	3 credits
<u>LDR-800</u>	Organizational Leadership Ethical Dilemmas and Stewardship	3 credits
ORG-807	Stakeholders: Roles in Organizations	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
ORG-812	Organizational Theory, Structure, and Process	3 credits
ORG-817	Systems Thinking: Building Organizations That Last	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
ORG-827	Strategic Decision Making	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
	cation in Organizational: Development (Qualitative	60 credits

Research) Doctoral learners who did not complete their dissertation in

DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E <sup>Ω</sup>	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
<u>DIS-969Ε</u> <sup>Ω</sup>	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Education in Organizational Leadership: Organizational Development** (Quantitative Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and

develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Organizational Development will examine organizational culture, communication, and leader/follower interaction, and will analyze organizational models using constructs from research to explain behaviors and events in an organizational setting.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
<u>LDR-800</u>	Ethical Dilemmas and Stewardship	3 credits
ORG-807	Stakeholders: Roles in Organizations	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
ORG-812	Organizational Theory, Structure, and Process	3 credits
ORG-817	Systems Thinking: Building Organizations That Last	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
ORG-827	Strategic Decision Making	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>DIS-965</u> <sup>Ω</sup>	Dissertation III	3 credits
Doctor of Edu	cation in Organizational:	60

credits Organizational Development (Quantitative Research) Doctoral learners who did not complete their dissertation in

DIS-965 must take one or more of the following in order to complete their dissertation:

$DIS-966E^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$\underline{\text{DIS-968E}^{\Omega}}$	Research Continuation III	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

$DIS-969E^{\Omega}$	Research Continuation IV	3 credits
$\underline{\text{DIS-970E}^{\Omega}}$	Research Continuation V	3 credits
$\underline{\text{DIS-971E}^{\Omega}}$	Research Continuation VI	3 credits
$\underline{\text{DIS-972E}^{\Omega}}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Education in Organizational Leadership: Special Education (Qualitative** Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders. Graduates who earn the Doctor of Education in Organizational Leadership with an Emphasis in Special Education will advance the study of leadership within the field of special education with an in-depth research-based approach to facilitate the leadership abilities and role as a strategic professional.

Introduction to Descenda

#### **Degree Requirements**

RES-820A <sup>Ω</sup> The Literature Landscape: Organizational Leadership3 creditsLDR-800Ethical Dilemmas and Stewardship3 creditsSPE-812Special Education Law3 creditsRES-831 <sup>Ω</sup> Foundations of Research Design 1 Residency: Dissertation3 creditsRES-832 <sup>Ω</sup> Foundations of Research Design 2 Supervision and Administration of Special Education3 creditsSPE-817Supervision and Administration of Special Education3 creditsSPE-822Fiscal Management in Special Education3 creditsRES-841 <sup>Ω</sup> Designing a Qualitative Study 1 Designing a Qualitative Study 2 Strategic Planning and Change LDR-8043 creditsLDR-804Leading Across Cultures Dissertation3 creditsSPE-827Perspectives in Special Education Dissertation I3 creditsSPE-827Dissertation I3 creditsDIS-955 <sup>Ω</sup> Dissertation I3 creditsRES-873 <sup>Ω</sup> Qualitative Data Collection and Management Dissertation II3 credits	RES- $815^{\Omega}$	Introduction to Research	3 credits
LDR-800Ethical Dilemmas and Stewardship3 creditsSPE-812Special Education Law3 creditsRES-831ΩFoundations of Research Design 13 creditsRSD-851ΩResidency: Dissertation3 creditsRES-832ΩFoundations of Research Design 23 creditsSPE-817Supervision and Administration of Special Education3 creditsSPE-822Fiscal Management in Special Education3 creditsRES-841ΩDesigning a Qualitative Study 13 creditsRES-843ΩDesigning a Qualitative Study 23 creditsLDR-825Strategic Planning and Change3 creditsLDR-804Leading Across Cultures3 creditsRESD-883ΩResidency: The Qualitative Dissertation3 creditsSPE-827Perspectives in Special Education3 creditsDIS-955ΩDissertation I3 creditsRES-873ΩQualitative Data Collection and Management3 credits	$\underline{\text{RES-820A}^{\Omega}}$		3 credits
RES-831 <sup>Ω</sup> Foundations of Research Design 1       3 credits         RSD-851 <sup>Ω</sup> Residency: Dissertation       3 credits         RES-832 <sup>Ω</sup> Foundations of Research Design 2       3 credits         SPE-817       Supervision and Administration of Special Education       3 credits         SPE-822       Fiscal Management in Special Education       3 credits         RES-841 <sup>Ω</sup> Designing a Qualitative Study 1       3 credits         RES-843 <sup>Ω</sup> Designing a Qualitative Study 2       3 credits         LDR-825       Strategic Planning and Change       3 credits         LDR-804       Leading Across Cultures       3 credits         RSD-883 <sup>Ω</sup> Residency: The Qualitative Dissertation       3 credits         SPE-827       Perspectives in Special Education       3 credits         DIS-955 <sup>Ω</sup> Dissertation I       3 credits         RES-873 <sup>Ω</sup> Qualitative Data Collection and Management       3 credits	LDR-800	Ethical Dilemmas and	3 credits
RSD-851 <sup>Ω</sup> Residency: Dissertation       3 credits         RES-832 <sup>Ω</sup> Foundations of Research Design 2       3 credits         SPE-817 Supervision and Administration of Special Education       3 credits         SPE-822 Fiscal Management in Special Education       3 credits         RES-841 <sup>Ω</sup> Designing a Qualitative Study 1       3 credits         RES-843 <sup>Ω</sup> Designing a Qualitative Study 2       3 credits         LDR-825 Strategic Planning and Change       3 credits         LDR-804 Leading Across Cultures       3 credits         RSD-883 <sup>Ω</sup> Residency: The Qualitative Dissertation       3 credits         SPE-827 Perspectives in Special Education       3 credits         DIS-955 <sup>Ω</sup> Dissertation I       3 credits         RES-873 <sup>Ω</sup> Qualitative Data Collection and Management       3 credits	<u>SPE-812</u>	Special Education Law	3 credits
RES-832 <sup>Ω</sup> Foundations of Research Design 2       3 credits         SPE-817       Supervision and Administration of Special Education       3 credits         SPE-822       Fiscal Management in Special Education       3 credits         RES-841 <sup>Ω</sup> Designing a Qualitative Study 1       3 credits         LDR-825       Strategic Planning and Change       3 credits         LDR-804       Leading Across Cultures       3 credits         RSD-883 <sup>Ω</sup> Residency: The Qualitative Dissertation       3 credits         SPE-827       Perspectives in Special Education       3 credits         DIS-955 <sup>Ω</sup> Dissertation I       3 credits         RES-873 <sup>Ω</sup> Qualitative Data Collection and Management       3 credits	$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
SPE-817 Supervision and Administration of Special Education SPE-822 Fiscal Management in Special Education RES-841\(^\Omega\$ Designing a Qualitative Study 1 3 credits RES-843\(^\Omega\$ Designing a Qualitative Study 2 3 credits LDR-825 Strategic Planning and Change 3 credits LDR-804 Leading Across Cultures 3 credits RSD-883\(^\Omega\$ Residency: The Qualitative 3 credits Dissertation SPE-827 Perspectives in Special Education 3 credits DIS-955\(^\Omega\$ Dissertation I 3 credits RES-873\(^\Omega\$ Qualitative Data Collection and Management	$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
of Special Education  SPE-822 Fiscal Management in Special Education  RES-841 <sup>Ω</sup> Designing a Qualitative Study 1 3 credits  RES-843 <sup>Ω</sup> Designing a Qualitative Study 2 3 credits  LDR-825 Strategic Planning and Change 3 credits  LDR-804 Leading Across Cultures 3 credits  RSD-883 <sup>Ω</sup> Residency: The Qualitative 3 credits  Dissertation  SPE-827 Perspectives in Special Education 3 credits  DIS-955 <sup>Ω</sup> Dissertation I 3 credits  RES-873 <sup>Ω</sup> Qualitative Data Collection and Management	$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
SPE-822Fiscal Management in Special Education3 creditsRES-841ΩDesigning a Qualitative Study 13 creditsRES-843ΩDesigning a Qualitative Study 23 creditsLDR-825Strategic Planning and Change3 creditsLDR-804Leading Across Cultures3 creditsRSD-883ΩResidency: The Qualitative Dissertation3 creditsSPE-827Perspectives in Special Education3 creditsDIS-955ΩDissertation I3 creditsRES-873ΩQualitative Data Collection and Management3 credits	<u>SPE-817</u>		3 credits
RES-843 <sup>Ω</sup> Designing a Qualitative Study 2       3 credits         LDR-825       Strategic Planning and Change       3 credits         LDR-804       Leading Across Cultures       3 credits         RSD-883 <sup>Ω</sup> Residency: The Qualitative Dissertation       3 credits         SPE-827       Perspectives in Special Education       3 credits         DIS-955 <sup>Ω</sup> Dissertation I       3 credits         RES-873 <sup>Ω</sup> Qualitative Data Collection and Management       3 credits	<u>SPE-822</u>	Fiscal Management in Special	3 credits
LDR-825       Strategic Planning and Change       3 credits         LDR-804       Leading Across Cultures       3 credits         RSD-883 $^{Ω}$ Residency: The Qualitative Dissertation       3 credits         SPE-827       Perspectives in Special Education       3 credits         DIS-955 $^{Ω}$ Dissertation I       3 credits         RES-873 $^{Ω}$ Qualitative Data Collection and Management       3 credits	$\underline{\text{RES-841}^{\Omega}}$	Designing a Qualitative Study 1	3 credits
LDR-804 Leading Across Cultures 3 credits  RSD-883\(\Omega\) Residency: The Qualitative 3 credits  Dissertation Perspectives in Special Education 3 credits  DIS-955\(\Omega\) Dissertation I 3 credits  RES-873\(\Omega\) Qualitative Data Collection and Management	$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
RSD-883Ω       Residency: The Qualitative Dissertation       3 credits         SPE-827       Perspectives in Special Education       3 credits         DIS-955Ω       Dissertation I       3 credits         RES-873Ω       Qualitative Data Collection and Management       3 credits	LDR-825	Strategic Planning and Change	3 credits
Dissertation Perspectives in Special Education 3 credits  DIS-955 $^{\Omega}$ Dissertation I 3 credits  RES-873 $^{\Omega}$ Qualitative Data Collection and Management 3 credits	LDR-804	Leading Across Cultures	3 credits
	$\underline{\text{RSD-883}^{\Omega}}$	,	3 credits
RES-873 <sup>\Omega</sup> Qualitative Data Collection and 3 credits Management	<u>SPE-827</u>	Perspectives in Special Education	3 credits
Management	$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
DIS-960 <sup>\Omega</sup> Dissertation II 3 credits	$\underline{\text{RES-873}^{\Omega}}$		3 credits
	<u>DIS-960</u> <sup>Ω</sup>	Dissertation II	3 credits

$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits
Doctor of Education in Organizational: Special Education (Qualitative Research)		60 credits

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
DIS-969E <sup>Ω</sup>	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
$DIS-972E^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Education in Organizational Leadership: Special Education (Quantitative** Research)

The Doctor of Education in Organizational Leadership program develops the learner's ability to generate new knowledge and responsibly apply knowledge to achieve high-performing entities that allow organizational employees and followers to grow and develop to their full potential. Learners will study the major bodies of literature in leadership, reflect critically on existing theory, and identify appropriate applications of theory in education, business, and other organizational cultures. Learners will develop academic and organizational research expertise through the study of statistical and research methodologies. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop learners who are global citizens, critical thinkers, effective the Doctor of Education in Organizational Leadership with an Emphasis in Special Education will advance the study of leadership within the field of special education with an in-depth research-based approach to facilitate the leadership abilities and role as a strategic professional.

Degree Requirements		
$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
<u>LDR-800</u>	Ethical Dilemmas and Stewardship	3 credits
SPE-812	Special Education Law	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
<u>SPE-817</u>	Supervision and Administration of Special Education	3 credits
<u>SPE-822</u>	Fiscal Management in Special Education	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

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$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
LDR-825	Strategic Planning and Change	3 credits
LDR-804	Leading Across Cultures	3 credits
$RSD-884^{\Omega}$	Residency: The Quantitative Dissertation	3 credits
SPE-827	Perspectives in Special Education	3 credits
$\overline{\text{DIS-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\text{DIS-960}^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
$\overline{\text{DIS-965}^{\Omega}}$	Dissertation III	3 credits

Doctor of Education in Organizational: Special	60
Education (Quamntitative Research)	credits

Doctoral learners who did not complete their dissertation in DIS-965 must take one or more of the following in order to complete their dissertation:

DIS-966E $^{\Omega}$	Research Continuation I	3 credits
$DIS-967E^{\Omega}$	Research Continuation II	3 credits
$DIS-968E^{\Omega}$	Research Continuation III	3 credits
<u>DIS-969E</u> <sup>Ω</sup>	Research Continuation IV	3 credits
$DIS-970E^{\Omega}$	Research Continuation V	3 credits
$DIS-971E^{\Omega}$	Research Continuation VI	3 credits
DIS-972E $^{\Omega}$	Research Continuation VII	3 credits
$DIS-973E^{\Omega}$	Research Continuation VIII	3 credits
DIS-974E $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Education in Teaching and Learning: Adult Learning (Qualitative Research)**

The Doctor of Education in Teaching and Learning program develops educators capable of generating new knowledge and responsibly applying knowledge to achieve educational outcomes as well as mentoring, coaching, and collaborating from the perspective of the Christian worldview. Students will study the major bodies of literature in educational theory and philosophy, will reflect critically on existing theory, will identify appropriate applications of theory, and will conceptualize philosophy from its theoretic foundation. Students will develop academic and research expertise through the study of research methodology. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop students who are global citizens, critical thinkers, effective communicators, and responsible leaders.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
RES-820B $^{\Omega}$	The Literature Landscape:	3 credits
	Teaching and Learning	
TLC-801	History and Philosophy of	3 credits
	Teaching and Learning	
TLC-802	Learning Theories	3 credits

RES-831 <sup>Ω</sup>	Foundations of Research Design 1	3 credits
RSD-851 <sup>Ω</sup>	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
TLA-830	Adult Learning Theory	3 credits
TLA-832	Worldview and Adult Learning	3 credits
RES-841 $^{\Omega}$	Designing a Qualitative Study 1	3 credits
RES-843 $^{\Omega}$	Designing a Qualitative Study 2	3 credits
TLA-836	Transformational Learning	3 credits
<u>TLC-803</u>	Coaching, Mentoring, and Collaboration	3 credits
$RSD-883^{\Omega}$	Residency: The Qualitative Dissertation	3 credits
TLA-838	Applications of Adult Learning	3 credits
TLC-955 Ω	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
TLC-960 Ω	Dissertation II	3 credits
$RES-883^{\Omega}$	Qualitative Data Analysis, Results and Findings	3 credits
TLC-965 Ω	Dissertation III	3 credits
D (CE)	· · · · · · · · · · · · · · · · · · ·	60

Doctor of Education in Teaching and Learning:	60
Adult Learning (Qualitative Research)	credits

Doctoral learners who did not complete their dissertation in TLC-965 must take one or more of the following in order to complete their dissertation:

$\underline{\text{TLC-966}}^{\Omega}$	Research Continuation I	3 credits
TLC-967 Ω	Research Continuation II	3 credits
TLC-968 Ω	Research Continuation III	3 credits
TLC-969 Ω	Research Continuation IV	3 credits
TLC-970 Ω	Research Continuation V	3 credits
TLC-971 Ω	Research Continuation VI	3 credits
TLC-972 Ω	Research Continuation VII	3 credits
TLC-973 Ω	Research Continuation VIII	3 credits
TLC-974 Ω	Research Continuation IX	3 credits

# Doctor of Education in Teaching and Learning: Adult Learning (Quantitative Research)

The Doctor of Education in Teaching and Learning program develops educators capable of generating new knowledge and responsibly applying knowledge to achieve educational outcomes as well as mentoring, coaching, and collaborating from the perspective of the Christian worldview. Students will study the major bodies of literature in educational theory and philosophy, will reflect critically on existing theory, will identify appropriate applications of theory, and will conceptualize philosophy from its theoretic foundation. Students will develop academic and research expertise through the study of research methodology. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. The program of study is consistent with Grand Canyon University's mission to develop students who are global citizens, critical thinkers, effective communicators, and responsible leaders.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$RES-820B^{\Omega}$	The Literature Landscape:	3 credits
TLC-801	Teaching and Learning History and Philosophy of Teaching and Learning	3 credits
<u>TLC-802</u>	Learning Theories	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design 1	3 credits
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
TLA-830	Adult Learning Theory	3 credits
TLA-832	Worldview and Adult Learning	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
TLA-836	Transformational Learning	3 credits
<u>TLC-803</u>	Coaching, Mentoring, and Collaboration	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
TLA-838	Applications of Adult Learning	3 credits
TLC-955 $^{\Omega}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
TLC-960 Ω	Dissertation II	3 credits
$\overline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
TLC-965 Ω	Dissertation III	3 credits
Doctor of Edu	cation in Teaching and Learning:	60
= setter or Edu		11.4

Doctoral learners who did not complete their dissertation in TLC-965 must take one or more of the following in order to complete their dissertation:

Adult Learning (Quantitative Research)

TLC-966 Ω	Research Continuation I	3 credits
TLC-967 Ω	Research Continuation II	3 credits
TLC-968 Ω	Research Continuation III	3 credits
TLC-969 Ω	Research Continuation IV	3 credits
TLC-970 Ω	Research Continuation V	3 credits
TLC-971 Ω	Research Continuation VI	3 credits
TLC-972 Ω	Research Continuation VII	3 credits
TLC-973 Ω	Research Continuation VIII	3 credits
$\underline{\text{TLC-974}^{\Omega}}$	Research Continuation IX	3 credits

# Doctor of Health Administration: Operational Leadership (Qualitative Research)

The doctorate in health administration is a terminal research degree that allows for the development of theoretical knowledge in the healthcare industry and application of that knowledge to the improvement of practice. The program will prepare established professionals to design innovative operational approaches to leadership within healthcare organizations through addressing technology, efficiency, quality, safety, and outcomes. The program will prepare students for careers in health system

management, healthcare operations, healthcare research, and health policy.

#### **Degree Requirements**

$\underline{\text{RES-815}^{\Omega}}$	Introduction to Research	3 credits
$RES-820G^{\Omega}$	The Literature Landscape: Health	3 credits
	Administration	
<u>DHA-801</u>	Healthcare Economics	3 credits
<u>DHA-802</u>	Innovation in Healthcare Technology	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design 1	3 credits
$\underline{\text{RSD-851}}^{\Omega}$	Residency: Dissertation	3 credits
$\underline{\text{RES-832}^{\Omega}}$	Foundations of Research Design 2	3 credits
DHL-821	Organizational Initiatives	3 credits
<u>DHA-803</u>	Policy and Regulation in Healthcare	3 credits
<u>DHA-804</u>	Strategic Healthcare Management and Leadership	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$\underline{\text{RES-843}^{\Omega}}$	Designing a Qualitative Study 2	3 credits
<u>DHL-823</u>	Risk Management	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
<u>DHL-825</u>	Resource Management	3 credits
$\underline{\text{DHA-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
<u>DHA-960</u> <sup>Ω</sup>	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis,	3 credits
<u>DHA-965</u> <sup>Ω</sup>	Results, and Findings Dissertation III	3 credits

Doctor of Health Administration: Operational 60 Leadership (Qualitative Research) credits

Doctoral learners who did not complete their dissertation in DHA-965 must take one or more of the following in order to complete their dissertation:

DHA-966 $^{\Omega}$	Research Continuation I	3 credits
DHA-967 $^{\Omega}$	Research Continuation II	3 credits
$\overline{\mathrm{DHA-968^{\Omega}}}$	Research Continuation III	3 credits
$\overline{\mathrm{DHA-969^{\Omega}}}$	Research Continuation IV	3 credits
$\overline{\mathrm{DHA-970^{\Omega}}}$	Research Continuation V	3 credits
DHA-971 $^{\Omega}$	Research Continuation VI	3 credits
$\underline{\text{DHA-972}^{\Omega}}$	Research Continuation VII	3 credits
<u>DHA-973</u> Ω	Research Continuation VIII	3 credits
DHA-974 $^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Health Administration: Operational Leadership (Quantitative Research)**

A doctorate in healthcare administration is a terminal degree within health administration. The program will prepare established professionals to design innovative approaches to healthcare operations that address efficiency, quality, safety and outcome. Students will apply theoretical and research knowledge to real-world situations and settings to influence existing

credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

practices and policies. The program will prepare students for careers in health system management, health care operations, health care research, and health policy.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820G}^{\Omega}}$	The Literature Landscape: Health Administration	3 credits
DHA-801	Healthcare Economics	3 credits
<u>DHA-802</u>	Innovation in Healthcare Technology	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
DHL-821	Organizational Initiatives	3 credits
DHA-803	Policy and Regulation in Healthcare	3 credits
<u>DHA-804</u>	Strategic Healthcare Management and Leadership	3 credits
RES-842 $^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
DHL-823	Risk Management	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
DHL-825	Resource Management	3 credits
$\overline{\text{DHA-955}^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\overline{\mathrm{DHA-960^{\Omega}}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>DHA-965</u> <sup>Ω</sup>	Dissertation III	3 credits
	lth Administration: Operational	60
Leadership (Q	uantitative Research)	credits

Doctoral learners who did not complete their dissertation in DHA-965 must take one or more of the following in order to complete their dissertation:

<u>DHA-966</u> <sup>Ω</sup>	Research Continuation I	3 credits
<u>DHA-967</u> Ω	Research Continuation II	3 credits
DHA-968 <sup>Ω</sup>	Research Continuation III	3 credits
DHA-969 <sup>Ω</sup>	Research Continuation IV	3 credits
$\underline{\text{DHA-970}^{\Omega}}$	Research Continuation V	3 credits
$\underline{\text{DHA-971}^{\Omega}}$	Research Continuation VI	3 credits
$\overline{\text{DHA-972}^{\Omega}}$	Research Continuation VII	3 credits
DHA-973 <sup>Ω</sup>	Research Continuation VIII	3 credits
DHA-974 <sup>Ω</sup>	Research Continuation IX	3 credits

# **Doctor of Philosophy in General Psychology: Cognition and Instruction (Qualitative Research)**

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human behavior and mental processes. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of instruction include five emphasis courses in cognition, research methods as well as history and systems in psychology, personality, and social, biological, and developmental psychology. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820C}^{\Omega}}$	The Literature Landscape: Psychology	3 credits
<u>PSY-810</u>	History and Systems of Psychology	3 credits
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$\underline{\text{RES-832}^{\Omega}}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
PSY-820	Cognitive Science	3 credits
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
PSY-863	Cognition and Instruction	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
PSY-866	Social Cognition	3 credits
$PSY-955^{\Omega}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$PSY-960^{\Omega}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$PSY-965^{\Omega}$	Dissertation III	3 credits
	osophy in General Psychology:	60 credits

Cognition and Instruction (Qualitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

$PSY-966E^{\Omega}$	Research Continuation I	3 credits
PSY-967E $^{\Omega}$	Research Continuation II	3 credits
$PSY-968E^{\Omega}$	Research Continuation III	3 credits
$PSY-969E^{\Omega}$	Research Continuation IV	3 credits
$PSY-970E^{\Omega}$	Research Continuation V	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
PSY-973E $^{\Omega}$	Research Continuation VII	3 credits
PSY-974E $^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Philosophy in General Psychology: Cognition and Instruction (Quantitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human behavior and mental processes. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of instruction include five emphasis courses in cognition, research methods as well as history and systems in psychology, personality, and social, biological, and developmental psychology. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself.

#### **Degree Requirements**

$\frac{RES-815}{\Omega}$	Introduction to Research	3 credits
$\frac{1}{\text{RES-820C}^{\Omega}}$	The Literature Landscape: Psychology	3 credits
PSY-810	History and Systems of Psychology	3 credits
PSY-802	Psychoanalysis and Psychodynamic Theory	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
PSY-820	Cognitive Science	3 credits
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
$\underline{\text{RES-842}^{\Omega}}$	Designing a Quantitative Study	3 credits
$\underline{\text{RES-844}^{\Omega}}$	Designing a Quantitative Study 2	3 credits
PSY-863	Cognition and Instruction	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
PSY-866	Social Cognition	3 credits
$\underline{PSY-955^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\underline{PSY-960^{\Omega}}$	Dissertation II	3 credits

$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
$\underline{PSY-965^{\Omega}}$	Dissertation III	3 credits
Doctor of Philosophy in General Psychology:		60 credits

Doctor of Philosophy in General Psychology: Cognition and Instruction (Quantitative

Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

<u>PSY-966E</u> <sup>Ω</sup>	Research Continuation I	3 credits
$PSY-967E^{\Omega}$	Research Continuation II	3 credits
$PSY-968E^{\Omega}$	Research Continuation III	3 credits
$PSY-969E^{\Omega}$	Research Continuation IV	3 credits
$PSY-970E^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
$PSY-973E^{\Omega}$	Research Continuation VII	3 credits
$PSY-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Philosophy in General Psychology: Industrial and Organizational Psychology (Qualitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province. Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human behavior and mental processes. The program prepares individuals to engage their knowledge and skills in the areas of industrial and organizational psychology in applied business-related settings. Core areas of instruction include five emphasis courses in industrial/organizational psychology, research methods, quantitative and qualitative statistics, as well as history and systems of psychology, personality, and social, biological, and developmental psychology. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself.

RES- $815^{\Omega}$	Introduction to Research	3 credits
$RES-820C^{\Omega}$	The Literature Landscape: Psychology	3 credits
$\underline{\text{PSY-810}^{\Omega}}$	History and Systems of Psychology	3 credits
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

$\underline{\text{RES-832}^{\Omega}}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
PSY-830	Principles of Industrial/ Organizational Psychology	3 credits
$\underline{\text{RES-841}^{\Omega}}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
PSY-804	Humanistic, Transpersonal and Existential Psychology	3 credits
<u>PSY-834</u>	Psychology of Consulting and Coaching	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
<u>PSY-836</u>	Principles of Personnel and Human Resource Management	3 credits
$PSY-955^{\Omega}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\underline{PSY-960^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{PSY-965^{\Omega}}$	Dissertation III	3 credits
Doctor of Philo	osophy in General Psychology:	60 credits

Doctor of Philosophy in General Psychology: Industrial and Organizational Psychology (Qualitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

<u>PSY-966E</u> <sup>Ω</sup>	Research Continuation I	3 credits
<u>PSY-967E</u> <sup>Ω</sup>	Research Continuation II	3 credits
$PSY-968E^{\Omega}$	Research Continuation III	3 credits
<u>PSY-969E</u> <sup>Ω</sup>	Research Continuation IV	3 credits
$PSY-970E^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
$PSY-973E^{\Omega}$	Research Continuation VII	3 credits
$PSY-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Philosophy in General Psychology: Industrial and Organizational Psychology (Quantitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province. Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human behavior and mental processes. The program prepares individuals to engage their knowledge and skills in the areas of industrial and organizational psychology in applied business-related settings. Core areas of instruction include five emphasis courses in industrial/organizational psychology, research methods, as well

as history and systems of psychology, personality, and social, biological, and developmental psychology. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself.

#### **Degree Requirements**

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820C}^{\Omega}}$	The Literature Landscape: Psychology	3 credits
$\underline{PSY-810^{\Omega}}$	History and Systems of Psychology	3 credits
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$\underline{\text{RES-832}^{\Omega}}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
<u>PSY-830</u>	Principles of Industrial/ Organizational Psychology	3 credits
$RES-842^{\Omega}$	Designing a Quantitative Study 1	3 credits
$RES-844^{\Omega}$	Designing a Quantitative Study 2	3 credits
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
<u>PSY-834</u>	Psychology of Consulting and Coaching	3 credits
$RSD-884^{\Omega}$	Residency: The Quantitative Dissertation	3 credits
<u>PSY-836</u>	Principles of Personnel and Human Resource Management	3 credits
$\underline{PSY-955^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$PSY-960^{\Omega}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>PSY-965</u> <sup>Ω</sup>	Dissertation III	3 credits

Doctor of Philosophy in General Psychology: Industrial and Organizational Psychology (Quantitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

60 credits

$PSY-966E^{\Omega}$	Research Continuation I	3 credits
<u>PSY-967E<sup>Ω</sup></u>	Research Continuation II	3 credits
<u>PSY-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
<u>PSY-969E</u> <sup>Ω</sup>	Research Continuation IV	3 credits
PSY-970E $^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
PSY-972E $^{\Omega}$	Research Continuation VII	3 credits
PSY-973E $^{\Omega}$	Research Continuation VII	3 credits
PSY-974 $E$ <sup>Ω</sup>	Research Continuation IX	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Doctor of Philosophy in General Psychology: Integrating Technology, Learning, and Psychology (Qualitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province. Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human actions in the past and present. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of knowledge include history and systems of psychology and cognition, as well as personality, abnormal, social, multicultural, and developmental psychology. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself. Entry to this program requires a graduate degree and related coursework. Graduates of Grand Canyon University's Doctor of Philosophy in General Psychology program with an Emphasis in Integrating Technology, Learning, and Psychology will be able to integrate psychology with technology, instruction, and learning to inform research and create solutions to optimize opportunities for

#### **Degree Requirements**

stakeholders.

$\underline{\text{RES-815}^{\Omega}}$	Introduction to Research	3 credits
$\underline{\text{RES-820C}^{\Omega}}$	The Literature Landscape: Psychology	3 credits
<u>PSY-810</u>	History and Systems of Psychology	3 credits
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
RES-831 $^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
<u>PSY-807</u>	Theories of Cognition, Motivation, Collaboration, and Learning	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
<u>PSY-817</u>	Technologies for Learning and Communication	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative Dissertation	3 credits
<u>PSY-827</u>	Integrating for Learning and Communication	3 credits
$\underline{PSY-955^{\Omega}}$	Dissertation I	3 credits

RES-873 $^{\Omega}$	Qualitative Data Collection and	3 credits
	Management	
$PSY-960^{\Omega}$	Dissertation II	3 credits
RES-883 $^{\Omega}$	Qualitative Data Analysis, Results	3 credits
	and Findings	
$\underline{PSY-965^{\Omega}}$	Dissertation III	3 credits

Doctor of Philosophy in General Psychology: 60 credits
Integrating Technology, Learning, and

Psychology (Qualitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

<u>PSY-966E</u> <sup>Ω</sup>	Research Continuation I	3 credits
<u>PSY-967E</u> <sup>Ω</sup>	Research Continuation II	3 credits
<u>PSY-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
PSY-969E <sup>Ω</sup>	Research Continuation IV	3 credits
PSY-970E $^{\Omega}$	Research Continuation V	3 credits
<u>PSY-971Ε</u> <sup>Ω</sup>	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
PSY-973E $^{\Omega}$	Research Continuation VII	3 credits
PSY-974E $^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Philosophy in General Psychology: Integrating Technology, Learning, and Psychology (Quantitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province. Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human actions in the past and present. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of knowledge include history and systems of psychology and cognition, as well as personality, abnormal, social, multicultural, and developmental psychology. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself. Entry to this program requires a graduate degree and related coursework. Graduates of Grand Canyon University's Doctor of Philosophy in General Psychology program with an Emphasis in Integrating Technology, Learning, and Psychology will be able to integrate psychology with technology, instruction, and learning to inform research and create solutions to optimize opportunities for stakeholders.

RES- $815^{\Omega}$	Introduction to Research	3 credits
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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

$\underline{RES-820C^\Omega}$	The Literature Landscape:	3 credits
<u>PSY-810</u>	Psychology History and Systems of	3 credits
PSY-802	Psychology Psychoanalysis and Psychodynamic Theory	3 credits
RES-831 $^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
RES-832 $^{\Omega}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
PSY-807	Theories of Cognition, Motivation, Collaboration, and	3 credits
RES-842 $^{\Omega}$	Learning Designing a Quantitative Study 1	3 credits
$\overline{\text{RES-844}^{\Omega}}$	Designing a Quantitative Study 2	3 credits
PSY-804	Humanistic, Transpersonal and Existential Psychology	3 credits
<u>PSY-817</u>	Technologies for Learning and Communication	3 credits
$\underline{\text{RSD-884}^{\Omega}}$	Residency: The Quantitative Dissertation	3 credits
<u>PSY-827</u>	Integrating for Learning and Communication	3 credits
$\underline{PSY-955^{\Omega}}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\underline{PSY-960^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>PSY-965</u> <sup>Ω</sup>	Dissertation III	3 credits
	osophy in General Psychology asis in Integrating Technology,	60 credits

Learning, and Psychology

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

<u>PSY-966E</u> <sup>Ω</sup>	Research Continuation I	3 credits
PSY-967E $^{\Omega}$	Research Continuation II	3 credits
$PSY-968E^{\Omega}$	Research Continuation III	3 credits
$PSY-969E^{\Omega}$	Research Continuation IV	3 credits
PSY-970E $^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
PSY-973E $^{\Omega}$	Research Continuation VII	3 credits
$PSY-974E^{\Omega}$	Research Continuation IX	3 credits

# **Doctor of Philosophy in General Psychology:** Performance Psychology (Qualitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human actions in the past and

present. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of knowledge include history and systems of psychology, cognition, research methods, as well as personality, abnormal, social, multicultural, and developmental psychology. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself. Entry to this program requires a graduate degree and related coursework. Graduates of Grand Canyon University's Doctor of Philosophy in General Psychology program with an Emphasis in Performance Psychology will be able to apply theory and practice to conduct original research or work in applied settings such as sport, military, or medical industries to enhance performance of individuals and groups.

### **Degree Requirements**

$\frac{1}{\text{RES-815}^{\Omega}}$	Introduction to Research	3 credits
$\overline{\text{RES-820C}^{\Omega}}$	The Literature Landscape: Psychology	3 credits
<u>PSY-810</u>	History and Systems of Psychology	3 credits
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
$RES-831^{\Omega}$	Foundations of Research Design 1	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
<u>PSY-831</u>	Foundations of Performance Psychology	3 credits
$RES-841^{\Omega}$	Designing a Qualitative Study 1	3 credits
$RES-843^{\Omega}$	Designing a Qualitative Study 2	3 credits
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
PSY-833	Psychomotor Performance	3 credits
<u>RSD-883</u> <sup>Ω</sup>	Residency: The Qualitative Dissertation	3 credits
PSY-839	Performance Enhancement	3 credits
$PSY-955^{\Omega}$	Dissertation I	3 credits
$\underline{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits
$\underline{PSY-960^{\Omega}}$	Dissertation II	3 credits
$\underline{\text{RES-883}^{\Omega}}$	Qualitative Data Analysis, Results and Findings	3 credits
$\underline{PSY-965^\Omega}$	Dissertation III	3 credits

60 credits Doctor of Philosophy in General Psychology: Performance Psychology (Qualitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

$PSY-966E^{\Omega}$	Research Continuation I	3 credits
<u>PSY-967E<sup>Ω</sup></u>	Research Continuation II	3 credits
PSY-968E $^{\Omega}$	Research Continuation III	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>PSY-969E<sup>Ω</sup></u>	Research Continuation IV	3 credits
$PSY-970E^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
$PSY-973E^{\Omega}$	Research Continuation VII	3 credits
$PSY-974E^{\Omega}$	Research Continuation IX	3 credits

# Doctor of Philosophy in General Psychology: Performance Psychology (Quantitative Research)

This degree is not intended for those seeking licensure in clinical practice. Those interested in licensure or certification should identify the applicable requirements by inquiring directly with their state or province.

Grand Canyon University's Doctor of Philosophy (Ph.D.) in General Psychology program offers a broad array of courses that increase the understanding of human actions in the past and present. The program prepares individuals to engage their knowledge and skills in cognition and instruction in applied settings of teaching and/or conducting psychological research in business, government, or institutions of higher education. Core areas of knowledge include history and systems of psychology, cognition, research methods, as well as personality, abnormal, social, multicultural, and developmental psychology. Students will be able to employ qualitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation. Students are advised to inquire directly with their state if they intend to pursue licensure, as this degree does not lead directly to licensure in and of itself. Entry to this program requires a graduate degree and related coursework. Graduates of Grand Canyon University's Doctor of Philosophy in General Psychology program with an Emphasis in Performance Psychology will be able to apply theory and practice to conduct original research or work in applied settings such as sport, military, or medical industries to enhance performance of individuals and groups.

#### **Degree Requirements**

$\underline{\text{RES-815}}^{\Omega}$	Introduction to Research	3 credits
RES-820 $C^{\Omega}$	The Literature Landscape:	3 credits
	Psychology	
<u>PSY-810</u>	History and Systems of	3 credits
	Psychology	2 1:4-
<u>PSY-802</u>	Psychoanalysis and Psychodynamic Theory	3 credits
RES-831 $^{\Omega}$	Foundations of Research Design 1	3 credits
	ě	2 1'4
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits
$RES-832^{\Omega}$	Foundations of Research Design 2	3 credits
PSY-803	Behaviorism	3 credits
PSY-831	Foundations of Performance	3 credits
	Psychology	2 1.
<u>PSY-804</u>	Humanistic, Transpersonal and Existential Psychology	3 credits
RES-842 $^{\Omega}$	Designing a Quantitative Study 1	3 credits
RES-844 $^{\Omega}$	Designing a Quantitative Study 2	3 credits
PSY-833	Psychomotor Performance	3 credits
RSD-884 $^{\Omega}$	Residency: The Quantitative	3 credits
	Dissertation	
PSY-839	Performance Enhancement	3 credits

$PSY-955^{\Omega}$	Dissertation I	3 credits
$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
<u>PSY-960<sup>Ω</sup></u>	Dissertation II	3 credits
$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis, Results, and Findings	3 credits
<u>PSY-965</u> <sup>Ω</sup>	Dissertation III	3 credits

Doctor of Philosophy in General Psychology: 60 credits Performance Psychology (Quantitative Research)

Doctoral learners who did not complete their dissertation in PSY-965 must take one or more of the following in order to complete their dissertation:

$PSY-966E^{\Omega}$	Research Continuation I	3 credits
<u>PSY-967Ε</u> <sup>Ω</sup>	Research Continuation II	3 credits
<u>PSY-968E</u> <sup>Ω</sup>	Research Continuation III	3 credits
<u>PSY-969E</u> <sup>Ω</sup>	Research Continuation IV	3 credits
$PSY-970E^{\Omega}$	Research Continuation V	3 credits
$PSY-971E^{\Omega}$	Research Continuation VI	3 credits
$PSY-972E^{\Omega}$	Research Continuation VII	3 credits
PSY-973E $^{\Omega}$	Research Continuation VII	3 credits
$PSY-974E^{\Omega}$	Research Continuation IX	3 credits

# Advanced Graduate Certificate in Innovation and Corporate Entrepreneurship

This graduate-level certificate program provides instruction that specifically focuses on creating innovation, optimizing organizational structures, and prototyping an innovation, product, or process. Those who complete the certificate and want to further explore complex theories of business and innovation can transfer the credits directly into GCU's Doctor of Business Administration: Innovation and Corporate Entrepreneurship program.

#### **Degree Requirements**

INN-812	Innovation and Organizational	3 credits
	Structures	
<u>INN-817</u>	Designing Corporate	3 credits
	Entrepreneurial Solutions	
INN-822	Achieving Corporate	3 credits
	Entrepreneurial Commitment	
INN-827	Corporate Entrepreneurial	3 credits
	Complexity	

Advanced Graduate Certificate in Innovation and 12 credits Corporate Entrepreneurship

#### **Advanced Graduate Certificate in Leadership**

This graduate-level certificate program provides instruction in advanced leadership theories and concepts. Existing managers, directors, and executives can build skills in strategic planning and change management, how to navigate complex ethical situations, and how to manage aspects of leading global and diverse workforces. Those who complete the certificate and want to further explore complex theories of leadership can transfer the credits directly into GCU's Doctor of Education in Organizational Leadership program.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **Degree Requirements**

LDR-800	Ethical Dilemmas and	3 credits
	Stewardship	
LDR-804	Leading Across Cultures	3 credits
LDR-825	Strategic Planning and Change	3 credits

Advanced Graduate Certificate in Leadership 9 credits

### **Advanced Graduate Certificate in Performance Psychology**

This graduate-level certificate program provides instruction in advanced psychology theories and concepts. The certificate contains an array of courses that increase the understanding of human actions in the past and present with a focus on the enhancement of human performance in a variety of areas. Performance psychology digs deeper into the principles of behavior modification to determine how to improve work and leadership. Those who complete the certificate and want to further explore complex theories of psychology can transfer the credits directly into GCU's Doctor of Philosophy in General Psychology: Performance Psychology program.

PSY-831	Foundations of Performance	3 credits
	Psychology	
PSY-833	Psychomotor Performance	3 credits
PSY-839	Performance Enhancement	3 credits
Advamced	Graduate Certificate in Performance	9 credits
Psychology		

#### **Professional Programs**

### **EdEducation Specialist in K-12 Leadership**

Grand Canyon University's Education Specialist in K-12 Leadership program is designed to prepare educators to assume a variety of leadership roles in economically and culturally diverse 21st century K-12 educational communities. After foundational instruction in ethics, research, and theory, coursework focuses on educational policy development and decision making, staffing, and organizational leadership, supervision of teaching and learning, instructional and curricular supervision, department and unit management, and other areas related to leadership at the building or district level. The program is aligned with the standards of the Educational Leadership Constituent Council (ELCC) and is consistent with the University's mission to develop learners who are global citizens, critical thinkers, effective communicators, and responsible leaders in a technologically advanced world.

#### **Degree Requirements**

RES- $815^{\Omega}$	Introduction to Research	3 credits
$\frac{\text{RES-}}{820\text{A}^{\Omega}}$	The Literature Landscape: Organizational Leadership	3 credits
LDR-802	Progressions in Leadership Thought	3 credits
LDR-800	Ethical Dilemmas and Stewardship	3 credits
EDL-807	History and Politics of K-12 Education	3 credits
EDL-812	Governance and Structures in K-12 Education	3 credits
EDL-817	Building a K-12 Community	3 credits
EDL-822	Trends and Issues in K-12 Education	3 credits
EDL-827	Strategic Planning in K-12 Education	3 credits
$EDL-912^{\Omega}$	EDS K-12 Capstone	3 credits
Educational	Specialist in K-12 Leadership	30 credits

#### **Education Specialist in Teaching and Learning**

Building a collaborative community focused on student learning requires research, knowledge and the ability plan strategically. Grand Canyon University's Education Specialist (EdS) in Teaching and Learning program is designed to prepare you to assume a expert role in economically and culturally diverse 21st century educational communities. Offered by the College of Doctoral Studies, this accelerated EdS online program streamlines a rigorous curriculum. Unlike the Doctor of Education in Organizational Leadership with an Emphasis in K-12 Leadership, the EdS degree program does not require a residency or dissertation. With an in-depth analysis-based approach, the Education Specialist degree emphasizes theories and models of teaching, learning and leading in elementary, junior high and high school learning environments. Examine the global politics of education and intervention facilitated by government entities. Study professional learning communities, theories of pedagogy, and explore ways to train and develop the team you will lead and support. Students will learn to excel in teaching with the advanced ability to study industry trends, implement new effective teaching strategies based on original research and apply findings to foster greater classroom success.

RES- $811^{\Omega}$	Introduction to Advanced Graduate	3 credits
	Studies and Scholarship	
TLC-801	History and Philosophy of Teaching	3 credits
	and Learning	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

TLC-802	Learning Theories	3 credits	LDR-800	Ethical Dilemmas and Stewardship	3 credits
EDL-861	Analysis of Educational Research	3 credits	TLC-804	Globalization, Innovation, and	3 credits
EDL-817	Building a K-12 Community	3 credits		Change EDS Capstone	3 credits
EDL-822	Trends and Issues in K-12 Education	3 credits	EDL-910 <sup>Ω</sup> Educational	Specialist in Teaching and Learning	30
TLC-803	Coaching, Mentoring, and Collaboration	3 credits	<u> </u>	Specialist in Touring and Zomining	credits
	Conadoration				

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# The College of Education

# College Description

The preparation of teachers and administrators for the public and private schools of this nation is a significant responsibility for the College of Education. The programs seek to ensure the highest level of professional and academic competence of the graduate in the classroom. Consequently, most education courses require a certain number of practicum hours. For more detailed information, please refer to the College of Education Web site at: http://www.gcu.edu/College-of-Education.php.

# College Mission

The College of Education ("the College" or "COE") at Grand Canyon University ("GCU") is part of a rich heritage of service to the community. For over 60 years, the COE has proudly maintained its place as a prestigious teaching college, ensuring our academic programs meet the changing, diverse needs in education and local communities, and provide opportunities that create meaningful learning experiences for education candidates from a Christ-centered perspective. In addition, the College places great importance on the development of authentic partnerships through practicum/field experience, student teaching, and internships. This work extends from embedded partnerships in the greater Phoenix area to affiliation agreements with schools and districts across the United States. With each partnership, knowing what schools and districts value and what our candidates require to have the best learning experiences and to flourish as practitioners in the field of education remains at the forefront of the College of Education's academic and clinical field work.

The Mission of COE is to inspire excellence in pedagogy and scholarship; advance reflective, innovative, and collaborative teaching practices to maximize student learning and achievement; promote servant leadership in educational communities and engage a diverse and global community of learners with purpose and passion.

Learning, Leading, and Serving are the foundational components of COE's Conceptual Framework. These words symbolize the College's diverse learning opportunities where faculty and staff diligently work alongside candidates to develop a culture of mutual respect, fellowship, and servant leadership within the educational community. COE's Conceptual Framework directly reflects GCU's commitment to serving educational communities in ways that promote human flourishing:

#### Learning

We believe that all students can learn and that educators who inspire excellence engage in best practices and maximize student learning achievements. Effective educators are highly experienced and skilled communicators who are dedicated and compassionate, ensuring all students learn to the best of their ability.

#### Leading

We believe education is a powerful tool with which to purposefully transform and uplift communities. As our candidates find their purpose and calling within education, the College aims to support candidates to reach their God-given potential and fulfill their passion in education by helping them lead with a keen focus on addressing the world's deep needs.

#### Serving

We believe in the spirit of servant leadership and are committed to serving all candidates to enable them to become global contributors who change their communities and the world. As faculty, staff, and candidates, we believe in serving educational communities with an innovative and adaptive spirit and a strong dedication to professional conduct and ethics, respect for the diversity of others, and excellence for all.

# College of Education Promise

Grand Canyon University College of Education's programs are designed to prepare and equip students for a career in the field of education. However, the College of Education's faculty, staff, and college leaders understand the unique opportunities and challenges a career in education might occasionally present. Since 1984, we have upheld the promise to assist COE graduates who need support in an educational setting. The need for assistance may be requested by the Grand Canyon University graduate, the principal, or superintendent. The appropriate assistance will be determined by the College of Education and can range from content-area teaching materials, certification testing resources, course curriculum assistance, or faculty mentoring.

# College Features

The College of Education provides learners with special program features. Practical classroom experience begins as early as the freshman year with a minimum of 100+ hours in the elementary and/or secondary classroom prior to student teaching. Student teaching is offered in semester-long courses.

The Faculty has significant experience in the K-12 school system and many adjunct faculty hold concurrent employment in the classroom and administrative positions.

The courses in education are planned to provide curricula for licensure and continuing professional education of elementary teachers, secondary teachers, special education teachers, and principals. The learner is strongly advised to contact the College of Education and/or the Arizona State Department of Education regarding licensure information. The Grand Canyon University College of Education is approved by the Arizona State Board of Education to offer initial programs leading to initial teacher licensure of elementary, secondary, and special education teachers, and an advanced program for principal licensure. The Arizona state-approved programs lead to licensure in Arizona. College of Education learners are responsible for contacting their state Department of Education or Licensing Department for licensure requirements and program approval.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Benchmarks

Based upon requirements established by the Arizona State Board of Education, all teacher candidates, (i.e., COE learners who are in teacher-education programs), will have to demonstrate competency with essential knowledge, skills, and dispositions that are based upon the Interstate Teacher Assessment and Support Consortium (InTASC). Consequently, certain critical assignments in each course will be developed as benchmarks that serve as check points of learner competencies. Some of the benchmarks will be practicum-based, and others will not. Benchmark rubrics inform learners and instructors of the preestablished levels of competency performance for benchmark assignments.

### **Endorsements**

Grand Canyon University does not issue endorsements.

Several different types of endorsements are made available through the various State Departments of Education. Learners should contact their respective state agency to determine the range and requirements of endorsements that are offered.

The College of Education offers the following courses for teacher candidates to obtain a full Arizona SEI Endorsement:

- ESL-223N SEI English Language Teaching: Foundations and Methodologies
- ESL-433N Advanced Methodologies and Assessments of Structured English Immersion

The College of Education offers the following courses for practicing teachers to obtain a full Arizona SEI Endorsement:

- ESL-523 English Language Teaching Foundations & Methodologies
- ESL-533 Advanced Methodologies of SEI

# Undergraduate Programs

Learners are given the choice of undergraduate study in the areas of early childhood education, elementary education, and secondary education with an emphasis in an academic content area, and elementary/special education. The Arizona state-approved programs lead to initial teacher licensure in Arizona. College of Education learners are responsible for contacting their state Department of Education or Licensing Department for licensure requirements and program approval.

The programs are designed to enable learners to demonstrate competency in essential pedagogical and content knowledge, skills, and dispositions that are based upon the Interstate Teacher Assessment and Support Consortium (InTASC) principles and/or the standards of specialized professional associations, depending on the program.

Eligibility for initial educator certification in Washington is based on completion of a state-approved educator preparation program. This program is approved in Arizona. Even though you may be residing in Washington while in this program, your application for educator certification in Washington will be processed as an out-of-state application. Go to

http://pathway.pesb.wa.gov/outofstate for more information.

Teachers are advised to contact their individual school districts as to whether this program may qualify for teacher advancement.

# **Bachelor of Science in Early Childhood Education** (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Early Childhood Education program is designed for students seeking initial licensure in the field of early childhood education. The format and courses of this regionally accredited program include instructional strategies, Montessori and other teaching methodologies, assessment techniques, theories of early childhood growth and development, and the effect of family and cultural diversity on early childhood. Courses are taught by experts in their respective fields who share knowledge and experience in areas of early childhood education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the National Association for the Education of Young Children (NAEYC). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in early childhood field experiences that guide students through 130 hours of observational and practice-based experiences. Teacher candidates also complete a 16-week student teaching experience that includes eight weeks in a Birth - Pre-K classroom and eight weeks in a K-3 classroom. Graduates of this program are eligible for an early childhood teaching credential in the state of Arizona.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Early Childhood Education Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Early Childhood Education	120 credits
Total Practicum/Field Experience	160 hours

# Required General Education

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

HIS-144	U.S. History Themes	•	4 credits
EDU-354	Child Development: Prenatal to Adolescence		4 credits

#### **Early Childhood Education Major**

ECE-120	Early Childhood Foundations and the	4 credits
SPD-208	Teaching Profession Survey of Special Education: Teaching Children with	4 credits
ECE-130	Exceptionalities Educational and Developmental Psychology for Early Childhood Educators	4 credits
ECE-210	Instructional Planning for Young Children	4 credits
GOV-260	Arizona Constitution & Government	1 credit
ECE-222	Typical and Atypical Behaviors in Young Children	4 credits
ECE-232	Child Development in Health, Safety and Nutrition	4 credits
ECS-430	Early Childhood Phonics and Science of Reading Development	4 credits
ECE-402	Child Guidance and Classroom Management in Early Childhood	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

ECE-332	Assessing, Monitoring, and Reporting Progress of Young Learners	4 credits		Childhood and Early Childhood acation Major	80 credits
ECE-362	Family, Community, and Cultural	4 credits	Total Electi		0-6 credits
EDU-330	Awareness Supporting Early Childhood Social Justice for Educators	4 credits		elor of Science in Early and Early Childhood Special	120 credits
ECE-462	Early Childhood Instructional	4 credits		cum/Field Experience	190 hours
ECE 452	Methodologies: Science Early Childhood Instructional	4 credits		-	
ECE-452	Methodologies: ELA and the Arts	4 credits	<del>-</del>	eneral Education	1 4 - 41 -
ECE-472	Early Childhood Instructional Methodologies: Social Studies	4 credits		General Education total credits, applied eness, Perspectives, and Ethics compete U.S. History Themes	
ECE-442	Early Childhood Instructional Methodologies: Mathematics	4 credits	EDU-354	Child Development: Prenatal to	4 credits
REA-350	Reading Remediation and	4 credits	EDU-334	Adolescence	· croures
<u>KLA-330</u>	Intervention in Early Childhood Development		Early Childl Major	nood and Early Childhood Special Ed	ucation
<u>ESL-436N</u>	Methods of Structured English Immersion for Early Childhood Education	3 credits	ECS-125	Foundations of Early Childhood and Special Education	4 credits
ECE-470	Birth through Preschool Early Childhood Practicum	4 credits	<u>SPD-208</u>	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
Student teach	hing must be taken as the last course in the	-	ECS-210	Instructional Planning for Early	4 credits
$\underline{\text{ECE-490}^{\Omega}}$	Student Teaching – Kindergarten to Age 8/Grade3	8 credits		Childhood and Early Childhood Special Ed	
Early Childh	2	80 credits	ECS-425	Language, Literacy and	4 credits
•	-	l 4 <b>.</b>		Communication in Early Childhood/Special Education	
	of Science in Early Childhood Ed Childhood Special Education (I		<u>ECS-320</u> <sup>∆</sup>	Child Guidance and Classroom Management for Typical and Atypica	4 credits
(Initial Prog	ram–Leads to Initial Teacher Licensure	e)		Behaviors	
	of Science in Early Childhood/Early Chil		GOV-260	Arizona Constitution & Government	1 credit
	ation dual licensure program is a degree fo		ECS-220	Legal Aspects of Special Education	4 credits
	eking to build skills and knowledge of peo- logies in the field of early childhood/early		EGI 426N	with an Emphasis in Early Childhood Methods of Structured English	3 credits
	tion development and teaching. The curric		<u>ESL-436N</u>	Immersion for Early Childhood	3 cicuits
	y childhood development in the cognitive			Education	
	d social/emotional domains; early languag lopment, interventions and support, includ		ECS-430	Early Childhood Phonics and Science of Reading Development	4 credits
	behavioral interventions; assessment, eva-		ECS-435	Assessment, Evaluation and	4 credits
	progress; and child, family, and commun			Reporting for Early	
	and advocacy to promote the education of and without exceptionalities. All courses		EGG 225	Childhood/Special Education Child Development Including Health,	4 credits
	ed with specialized professional teacher pr		ECS-235	Safety, and Nutrition	, 4 cicuits
	terstate Teacher Assessment and Support	oparation.	EDU-330 <sup>∆</sup> <sup>≴</sup>	Social Justice for Educators	4 credits
	InTASC) principles, International Society		ECS-450	Developmentally Appropriate	4 credits
	n Education Standards for Teachers (ISTE ociation for the Education of Young Child		<u>LCD-430</u>	Instruction: ELA, Social Studies, and	
	Initial and Advanced Early Childhood Pro		ECC 460	Arts Early Childhood Special Ed.	4 credits
Programs (Na	AEYC), and the Council for Exceptional C	Children	ECS-462	Practicum I: Birth – Preschool	4 Cledits
	te Based Standards Early Interventionists/		ECS-325	Child, Family, Cultural, Community	4 credits
	pecial Education (EI/ECSE). This regiona		<u> 200 020</u>	Relationships, and Advocacy	
	d Arizona Department of Education appro am includes field experiences in special ed		<u>REA-350</u>	Reading Remediation and Intervention in Early Childhood	4 credits
:	1 D: 4 - C 1 - 2 - 1			mor vention in burry childriood	

# certification in Arizona. **Degree Requirements**

**Total General Education** 

inclusive, and general education Birth – Grade 3 classrooms.

Teacher candidates also complete a 15-week student teaching

experience in an inclusive environment with children Birth to

Grade 3. Graduates of this program are eligible for early

childhood and early childhood special education teaching

34-40 credits

Early Childhood Special Ed.

Practicum II: Kindergarten -

4 credits

4 credits

Developmentally Appropriate

**Instruction: STEM Subjects** 

Grade 3

ECS-455

ECS- $465^{\Omega}$ 

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

ECS-481A $^{\Omega}$	Student Teaching- Kindergarten	6 credits
	to Age 8/Grade 3: General	
	Education Setting	
ECS- $481B^{\Omega}$	Student Teaching- Birth to Age	6 credits
	8/Grade 3: Special Education Setting	

Early Childhood and Early Childhood Special **Education Major** 

80 credits

### **Bachelor of Science in Educational Studies** (IP/Non-TL)

#### (Initial Program-Does Not Lead to Initial Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those who already licensed as teachers.

Grand Canyon University's Bachelor of Science in Educational Studies develops students for educational opportunities outside of the traditional classroom. An educational studies degree provides foundational skills that focus on developing and applying fundamental pedagogical practices to a variety of settings. The bachelor's degree in educational studies also includes study of educational psychology, literacy, diversity, instructional technology, communications and classroom management. Teaching skills are a cornerstone for a variety of career opportunities. Traditionally, students graduating with an educational studies degree have been interested in educationrelated jobs that do not require traditional teacher certifications, including parks and recreation, non-profits, workplace training and community programs. After understanding the fundamentals of teaching and learning, students develop skills to effectively teach and train in diverse learning environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Educational Studies Major	35 credits
Total Electives	45-51 credits
Total Bachelor of Science in Educational Studies	120 credits

#### **Educational Studies Major**

**Educational Studies Major** 

Educational Studies Major		
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
EDU-315	Family and Community in a	3 credits
EDU-354	Supportive Learning Environment Child Development: Prenatal to Adolescence	4 credits
REA-305	Children's Literature	4 credits
ELM-463	STEM Tools in the Modern Classroom	4 credits
REA-365	Methods and Strategies for Reading	4 credits
ELM-462	Instruction Interdisciplinary Teaching and Learning in STEM	4 credits
COM-451	Relational Communication	4 credits
MGT-410	Servant Leadership	4 credits
Educational	Studies Major	35 credits

# **Bachelor of Science in Educational Studies** (IP/Non-TL) Effective January 2026

#### (Initial Program-Does Not Lead to Initial Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those who already licensed as teachers.

Grand Canyon University's Bachelor of Science in Educational Studies develops students for educational opportunities outside of the traditional classroom. An educational studies degree provides foundational skills that focus on developing and applying fundamental pedagogical practices to a variety of settings. The bachelor's degree in educational studies also includes study of educational psychology, literacy, diversity, instructional technology, communications and classroom management. Teaching skills are a cornerstone for a variety of career opportunities. Traditionally, students graduating with an educational studies degree have been interested in educationrelated jobs that do not require traditional teacher certifications, including parks and recreation, non-profits, workplace training and community programs. After understanding the fundamentals of teaching and learning, students develop skills to effectively teach and train in diverse learning environments.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Educational Studies Major	36 credits
Total Electives	44-50 credits
Total Bachelor of Science in Educational	120 credits
Studies	

#### **Educational Studies Major**

<u>EDU-330</u> <sup>Δ</sup>	Social Justice for Educators	4 credits
ECE-362	Family, Community, and Cultural Awareness Supporting Early	4 credits
EDU-354	Childhood Child Development: Prenatal to	4 credits
<u>REA-370</u>	Adolescence Children's Literature	4 credits
ELM-463	STEM Tools in the Modern Classroom	4 credits
REA-366	Methods for Reading Instruction	4 credits
ELM-462	Interdisciplinary Teaching and Learning in STEM	4 credits
COM-451	Relational Communication	4 credits
MGT-410	Servant Leadership	4 credits
Educational	Studies Major	36 credits

# **Bachelor of Science in Elementary Education and Special Education (IP/TL)**

#### (Initial Program-Leads to Initial Teacher Licensure)

This program is designed for students who seek an elementary or cross-categorical teaching license to teach children with special needs in the elementary classroom setting. The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, emotional and behavioral disabilities, and other physical and cognitive

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, Association for Childhood International standards, and/or Council for Exceptional Children standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through observational and practice-based experiences. Teacher candidates must have access to an elementary and elementaryspecial education classroom to complete the program assignments. Graduates of the program are prepared to work with special needs populations and implement individualized educational plans to accommodate the students' various learning, behavioral, and social needs. Teacher candidates must be prepared to complete a full-time, 16-week student teaching component at the end of the program. Eight weeks of student teaching are completed in a regular education setting. In addition, eight weeks are completed in an inclusion classroom, resource room, self-contained class, or in a special school, serving students with mild to moderate disabilities and must be completed with a certified special educator. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Furthermore, applicants should consult the University Policy Handbook and a Student Services Counselor to obtain information regarding current policies and procedures inherent in a teacher licensure program.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Elementary and Special Education Major	80 credits
Total Electives	0-6 credits
Bachelor of Science in Elementary Education and Special Education	120 credits
Total Practicum/Field Experience	115 hours

#### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

ELM-201 <sup>#</sup>	Child and Early Adolescent	4 credits
	Development and Psychology	
HIS-144	U.S. History Themes	4 credits

#### **Elementary Education and Special Education Major**

ELM-211	Instructional Planning and Assessments for Elementary Teachers	4 credits
<u>MAT-150</u>	Mathematics for Elementary Teachers I	4 credits
<u>SPD-208</u>	Survey of Special Education: Teaching Children with	4 credits
ELM-251 <sup>₹Δ</sup>	Exceptionalities Creating and Managing Equitable and Engaging Learning Environments	4 credits
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>MAT-151</u>	Mathematics for Elementary Teachers II	4 credits
MMS-300	Assessment and Eligibility in Special Education	4 credits
ELM-316	Foundational Literacy Skills: Phonics and the Science of Reading	4 credits

MMS-310	Language Development Disabilities and Disorders	4 credits
GOV-260	Arizona Constitution & Government	1 credit
<u>ESL-440N</u>	Methods of Structured English Immersion for Elementary Education	3 credits
MMS-320	Professional, Ethical and Legal Practices and Policies in Special	4 credits
	Education	
ELM-455	Instructional Methods and Strategies for Integrating Science and Health	4 credits
MMS-465	Research-Based Methods and Strategies for Teaching Math	4 credits
MMS-330	Case Management and Transition Planning	4 credits
MMS-400	Classroom Management and Collaboration	4 credits
<u>MMS-475</u>	Research-Based Instruction, Remediation, and Intervention in	4 credits
ELM-485	ELA Methods and Strategies for Integrating Social Studies and the Arts	4 credits
Student teaching must be taken as the last course in the program.		
$ELM-490A^{\Omega}$	Student Teaching for Elementary Education: Session A	6 credits
<u>SPD-491Β</u> <sup>Ω</sup>	Student Teaching – K-Grade 12 Special Education Mild to Moderate Setting	6 credits

# **Bachelor of Science in Elementary Education**

Elementary and Special Education Major

(IP/TL)

80 credits

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Elementary Education program is designed for students seeking initial licensure and preparing for a career as an elementary teacher. The format and courses of this regionally accredited and Arizona State Board of Education approved program include studies and practices in lesson planning and assessments, classroom management, social justice, family and cultural diversity, English as a Second Language, and instructional methods and strategies for a variety of content areas. Courses are taught by experts in their respective fields who share knowledge and experience in areas of elementary education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC), the Association for Childhood Education International (ACEI), and the International Society for Technology in Education (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in elementary education field experiences that guide students through 120 hours of observational and practice-based experiences. Teacher candidates also complete a 15-week student teaching experience. Graduates of this program are eligible for an elementary education teaching credential in the state of Arizona.

Total General Education	34-40 credits
Total Elementary Education Major	68 credits
Total Electives	12-18 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>†</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

	Science in Elementary Education	120 credits		eriences that guide students through 130 l and practice-based experiences. Teach		
Major Total Practicum/Field Experience		100 hours	also complete a 15-week student teaching experience. Graduates of this program are eligible for an Elementary Education			
Elementary 1	Education Major			the state of Arizona.	uton	
MAT-150	Mathematics for Elementary	4 credits	Degree Requ	uirements		
ELM 201/	Teachers I Child and Early Adolescent	4 credits	Total Gene	ral Education 3	4-40 credits	
<u>ELM-201</u> \$	Development and Psychology	4 credits		entary Education with an	80 credits	
ELM-211	Instructional Planning and	4 credits	=	n Christian Education Major	0-6 credits	
	Assessments for Elementary Teachers		Total Electi		120 credits	
HIS-144	U.S. History Themes	4 credits		elor of Science in Elementary with an Emphasis in Christian	120 credits	
<u>MAT-151</u>	Mathematics for Elementary Teachers II	4 credits	Education		120 h	
SPD-208	Survey of Special Education:	4 credits		icum/Field Experience	120 hours	
	Teaching Children with		-	eneral Education		
<u>ELM-251</u> Δ≠	Exceptionalities Creating and Managing Equitable	4 credits		General Education total credits, applied eness, Perspectives, and Ethics compet		
LEWI-231A	and Engaging Learning		HIS-144	U.S. History Themes	4 credits	
EDU-330 <sup>∆</sup>	Environments Social Justice for Educators	4 credits	(Included in	General Education total credits, applie	plied to the	
	Foundational Literacy Skills: Phonics	4 credits	Critical Thir	nking competency.)		
<u>ELM-316</u>	and the Science of Reading	4 credits	MAT-150	Mathematics for Elementary	4 credits	
GOV-260	Arizona Constitution & Government	1 credit	F1 4	Teachers I		
<u>ESL-440N</u>	Methods of Structured English Immersion for Elementary Education	3 credits	Elementary Education N	Education with an Emphasis in Chri Aajor	stian	
REA-326	Literacy Intervention and	4 credits	<u>ELM-201</u> <sup>‡</sup>	Child and Early Adolescent	4 credits	
	Remediation for Elementary Education		ELM-211	Development and Psychology Instructional Planning and	4 credits	
ELM-455	Instructional Methods and Strategies	4 credits	<u>BENT BIT</u>	Assessments for Elementary Teacher		
ELM 465	for Integrating Science and Health Methods and Strategies for Teaching	4 credits	<u>BIB-100</u>	Bible Survey	4 credits	
<u>ELM-465</u>	Mathematics	4 cicuits	<u>MAT-151</u>	Mathematics for Elementary Teacher II	s 4 credits	
ELM-475	Methods and Strategies for Teaching English Language Arts	4 credits	<u>SPD-208</u>	Survey of Special Education: Teaching Children with	4 credits	
ELM-485	Methods and Strategies for	4 credits		Exceptionalities		
	Integrating Social Studies and the Arts		ELM-251	Creating and Managing Equitable an	d 4 credits	
<u>ELM-490</u> Ω	Student Teaching for Elementary	8 credits	CWV-316	Engaging Learning Environments Christian Life: The Way of Jesus	4 credits	
	Education Teacher Candidates	68 credits	ELM-316	Foundational Literacy Skills: Phonic	s 4 credits	
Elementary I	Education Major	06 Cledits	EEW 510	and the Science of Reading		
	of Science in Elementary Educa sis in Christian Education (IP/		<u>REA-326</u>	Literacy Intervention and Remediation for Elementary	4 credits	
_			HENT 220	Education Christian Ethics	4 credits	
_	ram—Leads to Initial Teacher Licensure of Science in Elementary Education wi		<u>HTH-330</u>	Arizona Constitution & Government	1 credit	
	Christian Education is designed for stud		GOV-260	Methods of Structured English	3 credits	
initial licensure in the field of Elementary Education. The format and courses of this regionally accredited program include instructional strategies, teaching methodologies, assessment			<u>ESL-440N</u>	Immersion for Elementary Education		
			ELM-455	Instructional Methods and Strategies		
techniques, and Christian values and ethics. Courses are taught		are taught	ELM 465	for Integrating Science and Health Methods and Strategies for Teaching	4 credits	
by experts in their respective fields who share knowledge and experience in areas of elementary education, Christian studies,			<u>ELM-465</u>	Mathematics		
	onal practices prepared for a Christian le		MIN-320	Christian Character Formation	4 credits	
environment. All courses are directly aligned with standards from		andards from	EDU-330	Social Justice for Educators	4 credits	
the Interstate Teacher Assessment and Support Consortium (InTASC), Association for Childhood Education Internation			ELM-475	Methods and Strategies for Teaching English Language Arts	4 credits	
(ACEI), and t	the Association of Christian Schools Int	ernational	ELM-485	Methods and Strategies for	4 credits	
	ortunities are provided to apply concepts			Integrating Social Studies and the		
and research	throughout the program, particularly in	ciememary		Arts		

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EDU-456	Christian Education: Philosophies and Methods	4 credits
<u>ELM-490</u> Ω	Student Teaching for Elementary Education Teacher Candidates	8 credits

Elementary Education with an Emphasis in Christian 80 credits Education Major

#### Bachelor of Science in Elementary Education with an Emphasis in English as a Second Language (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

This program is designed for students who seek an elementary teaching license to teach children who are English Learners in an elementary classroom setting. The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience in areas of linguistics, second language acquisition, and curriculum development. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, and Teachers of English to Speakers of Other Languages (TESOL) standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through 160 hours of observational and practice-based experiences. Teacher candidates must have access to an elementary and an ESL classroom to complete the program assignments. Graduates of the program qualify for the English as a Second Language (ESL) endorsement in the state of Arizona, as well as their Elementary Teacher license. Teacher candidates must be prepared to complete a full-time, 15-week student teaching component at the end of the program. The 15-week student teaching will be completed in a grades 1-8 ESL classroom and must be completed with a certified ESL teacher. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Furthermore, applicants should consult the University Policy Handbook and a Student Services Counselor to obtain information regarding current policies and procedures inherent in a teacher licensure program.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Elementary Education with an Emphasis in English as a Second Language Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Elementary Education with an Emphasis in English as a Second Language	120 credits
Total Practicum/Field Experience	120 hours

#### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

HIS-144

U.S. History Themes

4 credits

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-150 Mathematics for Elementary 4 credits
Teachers I

### Elementary Education with an Emphasis in English as a Second Language Major

Second Lang	guage Major	
ELM-201 <sup>‡</sup>	Child and Early Adolescent Development and Psychology	4 credits
ELM-211	Instructional Planning and	4 credits
ESL-251	Assessments for Elementary Teachers School, Community, and Family Culture	4 credits
<u>MAT-151</u>	Mathematics for Elementary Teachers	4 credits
<u>SPD-208</u>	Survey of Special Education: Teaching Children with	4 credits
ELM-251	Exceptionalities Creating and Managing Equitable and Engaging Learning Environments	4 credits
GOV-260	Arizona Constitution & Government	1 credits
<u>ESL-440N</u>	Methods of Structured English Immersion for Elementary Education	3 credits
ELM-316	Foundational Literacy Skills: Phonics and the Science of Reading	4 credits
ESL-341	Linguistics	4 credits
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>REA-326</u>	Literacy Intervention and Remediation for Elementary Education	4 credits
ESL-353	Literacy Development for English Learners	4 credits
ELM-455	Instructional Methods and Strategies for Integrating Science and Health	4 credits
ELM-465	Methods and Strategies for Teaching Mathematics	4 credits
ESL-458	Curriculum and Methods of Instruction for English Learners	4 credits
ELM-475	Methods and Strategies for Teaching English Language Arts	4 credits
ELM-485	Methods and Strategies for Integrating Social Studies and the Arts	4 credits
ESL-465	Assessment for English Learners	4 credits
ESL-490 Ω	Student Teaching for Elementary Education with an ESL Emphasis	8 credits
		00 11

Elementary Education with an Emphasis in English 80 credits as a Second Language Major

### Bachelor of Science in Elementary Education with an Emphasis in STEM (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Elementary Education with an Emphasis in STEM program is designed for students seeking initial licensure and preparing for a career as a K-8 elementary teacher who is also seeking a special focus on STEM education. The format and courses of this program include studies and practices in lesson planning and assessments, classroom management, family and cultural diversity, English as a Second Language, and instructional methods and strategies for a variety of content areas. This program emphasizes content knowledge to meet the needs of 21st century learners by specializing in STEM. Courses are taught by experts in their respective fields who share knowledge and experience in areas of elementary education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Assessment and Support Consortium (InTASC) and the International Society for Technology in Education (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in elementary education field experiences that guide students through 120 hours of observational and practice-based experiences. Teacher candidates also complete a full-time, 15-week student teaching component at the end of the program. Graduates of this program are eligible for an elementary education teaching credential in the state of Arizona. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Furthermore, applicants should consult the University Policy Handbook and a Student Services Counselor to obtain information regarding current policies and procedures inherent in a teacher licensure program.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Elementary Education with an Emphasis in STEM Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Elementary Education with an Emphasis in STEM	120 credits
Total Practicum/Field Experience	120 hours

#### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

<u>HIS-144</u> U.S. History Themes 4 credits

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-150	Mathematics for Elementary	4 credits
	Teachers I	

#### Elementary Education with an Emphasis in STEM Major

	Child and Early Adalasses	4 114
ELM-201*	Child and Early Adolescent	4 credits
	Development and Psychology	
ELM-211	Instructional Planning and	4 credits
	Assessments for Elementary Teachers	
MAT-151	Mathematics for Elementary Teachers	4 credits
	II	
SPD-208	Survey of Special Education:	4 credits
	Teaching Children with	
	Exceptionalities	
ELM-251	Creating and Managing Equitable and	4 credits
ELIVI 231	Engaging Learning Environments	
EDU-330 <sup>∆</sup>	Social Justice for Educators	4 credits
EDU-330		
ELM-316	Foundational Literacy Skills: Phonics	4 credits
	and the Science of Reading	
GOV-260	Arizona Constitution & Government	1 credit
ESL-440N	Methods of Structured English	3 credits
LDL-440IN	Immersion for Elementary Education	
DEA 226	Literacy Intervention and	4 credits
REA-326	Remediation for Elementary	· crearis
	Education	
EL M. 451	Three-Dimensional Teaching in	4 credits
ELM-451	STEM Classrooms	4 Cledits
		4 1:4
ELM-455	Instructional Methods and Strategies	4 credits
	for Integrating Science and Health	4 44.
ELM-457	Instructional Methods for STEM	4 credits

ELM-465	Methods and Strategies for Teaching	4 credits
ELM-463	Mathematics STEM Tools in the Modern Classroom	4 credits
ELM-475	Methods and Strategies for Teaching English Language Arts	4 credits
ELM-485	Methods and Strategies for Integrating Social Studies and the	4 credits
ELM-462	Arts Interdisciplinary Teaching and Learning in STEM	4 credits
ELM-466	Project-Based Learning and Design Thinking in STEM Education	4 credits
ELM-490 Ω	Student Teaching for Elementary Education Teacher Candidates	8 credits
Elementary E	ducation with an Emphasis in STEM	80 credits

Elementary Education with an Emphasis in STEM 80 cred Major

### Bachelor of Science in Elementary Education with an Emphasis in Teaching Reading (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Elementary Education with an Emphasis in Teaching Reading program is designed for students seeking initial teacher licensure and are preparing for a career as an elementary teacher. The format and courses of this regionally accredited and Arizona State Board of Education approved program include studies and practices in lesson planning and assessments, classroom management, social justice, family and cultural diversity, English as a Second Language, reading instruction and assessment and instructional methods and strategies for a variety of content areas crossing the span of Kindergarten through Grade 8. Courses are taught by experts in their respective fields who share knowledge and experience in areas of elementary education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC), the Association for Childhood Education International (ACEI), and the International Society for Technology in Education (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly supporting reading during elementary education field experiences that guide teacher candidates through 120 hours of observational and practice-based experiences. Teacher candidates will be exposed to elementary learning environment practicums completed in a 15-week student teaching experience. Graduates of this program are eligible for an elementary education teaching credential in the state of Arizona.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Elementary Education with an Emphasis in Teaching Reading Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Elementary Education with an Emphasis in Teaching Reading	120 credits
Total Practicum/Field Experience	160 hours

#### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

HIS-144

U.S. History Themes

4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

(Included in General Education total credits, applied to the Critical Thinking competency.)

Mathematics for Elementary 4 credits MAT-150 Teachers I

#### **Elementary Education with an Emphasis in Teaching Reading Major**

<u>ELM-201</u> <sup>‡</sup>	Child and Early Adolescent	4 credits
	Development and Psychology	4 11.
ELM-211	Instructional Planning and	4 credits
	Assessments for Elementary Teachers	4 11.
<u>MAT-151</u>	Mathematics for Elementary Teachers	4 credits
		4 11.
<u>SPD-208</u>	Survey of Special Education:	4 credits
	Teaching Children with	
	Exceptionalities	
REA-366	Methods for Reading Instruction	4 credits
ELM-251	Creating and Managing Equitable and	4 credits
<u> </u>	Engaging Learning Environments	
ELM-316	Foundational Literacy Skills: Phonics	4 credits
<u> </u>	and the Science of Reading	
REA-326	Literacy Intervention and	4 credits
	Remediation for Elementary	
	Education	
REA-370	Children's Literature	4 credits
EDU-330 <sup>△</sup>	Social Justice for Educators	4 credits
GOV-260	Arizona Constitution & Government	1 credit
ESL-440N	Methods of Structured English	3 credits
	Immersion for Elementary Education	
REA-411	Assessment and Remediation of	4 credits
	Reading Proficiencies	
ELM-455	Instructional Methods and Strategies	4 credits
	for Integrating Science and Health	
ELM-465	Methods and Strategies for Teaching	4 credits
	Mathematics	
ELM-475	Methods and Strategies for Teaching	4 credits
	English Language Arts	
REA-421	Reading Development and	4 credits
	Interventions	
ELM-485	Methods and Strategies for	4 credits
	Integrating Social Studies and the	
	Arts	
REA-461	Diagnosis and Remediation of	4 credits
	Reading Proficiencies	
$ELM-490^{\Omega}$	Student Teaching for Elementary	8 credits
	Education Teacher Candidates	

80 credits Elementary Education with an Emphasis in Teaching Reading Major

#### Graduate Programs

Learners are given the choice of graduate study for a Master of Education in the areas of elementary education, secondary education, early childhood education, special education, and educational administration. The Arizona state approved programs lead to initial teacher licensure in Arizona. College of Education learners are responsible for contacting their state Department of Education or Licensing Department for licensure requirements and program approval.

Master of Education (IP/Non-TL) programs are available in the areas of elementary education, secondary education, early childhood education, and special education. Master of Education

(AP/CPE) programs are available in the following areas: special education for certified special educators; curriculum and instruction: reading/elementary or secondary; curriculum and instruction: technology; educational leadership; and teachers of English to speakers of other languages (TESOL). A Master of Arts in Teaching (AP/CPE) with an emphasis either in professional learning communities or teacher leadership is available as well. These programs do not lead to licensure.

The graduate program framework provides for the professional growth of the practitioner and permits demonstration of competency in essential pedagogical knowledge, skills, and dispositions that are based upon Interstate Teacher Assessment and Support Consortium (InTASC) principles, Interstate School Leaders Licensure Consortium/Educational Leadership Constituent Council (ISLLC/ELCC) standards, and/or the standards of specialized professional associations, depending on the program. The framework is a cyclical process of inquiry. reflection, application, evaluation, and additional reflection. These elements are incorporated into activities and assessments in each course of a program through a combination of collaborative and individual work. Graduate programs in education are provided in two learning formats; both online and traditional campus courses are available to the learner.

Eligibility for initial educator certification in Washington is based on completion of a state-approved educator preparation program. This program is approved in Arizona. Even though you may be residing in Washington while in this program, your application for educator certification in Washington will be processed as an out-of-state application. Go to

http://pathway.pesb.wa.gov/outofstate for more information. Teachers are advised to contact their individual school districts as to whether this program may qualify for teacher advancement.

The following programs are not intended to lead to teacher certification. Teachers in Washington are advised to contact their individual school districts as to whether this program may qualify for salary advancement. Programs: Master of Education in Early Childhood Education (IP/Non-TL); Master of Education in Educational Leadership (AP/CPE); Master of Education in Elementary Education (IP/Non-TL); Master of Education in Secondary Education (IP/Non-TL); Master of Education in Special Education (IP/Non-TL); and Master of Education in Teaching English to Speakers of Other Languages (AP/CPE).

#### **Master of Arts in Autism Spectrum Disorders** (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component. and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

During the program of study, professional educators survey the unique characteristics of students with autism spectrum disorders (ASD) and the core challenges associated with language and communication, social skills, behavior, and processing. From this foundational knowledge, educators design and implement program planning and service delivery. As a result, educators demonstrate knowledge, skills, and abilities in implementing evidence-based and multi-faceted methodologies and strategies necessary in teaching and engaging students with ASD. In addition, educators collaborate as a member of a multidisciplinary team with service providers and effectively interact with families.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

UNV- $501^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Education	
SPD-504	Survey of Special Education:	3 credits
	Autism Spectrum Disorder	
SPD-507	Inclusive Practices for Autism	3 credits
	Spectrum Disorder	
SPD-511	Instructional Strategies and	3 credits
	Interventions for Autism Spectrum	
	Disorder	
SPD-517	Data-Driven Assessment for Autism	3 credits
	Spectrum Disorder	
SPD-567	Assistive Tech and Communication	3 credits
	Strategies for Autism Spectrum	
	Disorder	
SPD-527	Positive Behavior Support for	3 credits
	Autism Spectrum Disorder	
SPD-557	Transitions and Life Skills for	3 credits
	Autism Spectrum Disorder	
SPD-537	Advocacy, Policy and Ethics for	3 credits
	Autism Spectrum Disorder	
SPD-547	Collaboration and Leadership in	3 credits
	Autism Spectrum Disorder	
SPD-577 $^{\Omega}$	Capstone and Action Research in	3 credits
	Autism Spectrum Disorder	

## Master of Arts in Curriculum and Instruction (AP/CPE)

Master of Arts in Autism Spectrum Disorders

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Arts in Curriculum and Instruction program is designed for educators who seek to further develop the strategies and skills needed to be curriculum designers or instructional leaders in a variety of professional settings. The program of study includes coursework, research, and practical field experiences that provide graduates with a scholar/practitioner approach to curriculum development, professional development, and assessment of learning. Graduates from the Master of Arts in Curriculum and Instruction program are prepared to research, develop, and implement standards-based curriculum to increase student academic achievement. Coursework and field experiences are prepared for individuals who are already licensed as teachers and/or who have at least one year of teaching or related experience. Program applicants must submit a copy of a current teaching license or provide evidence of a minimum of one year of verified, full-time experience in curriculum or instruction. This curriculum and instruction program does not lead to licensure. The assignments within each course will guide students through 60 hours of observational and practice-based experiences. Candidates must have access to a classroom under the supervision of a certified teacher to complete the field experience and capstone course.

#### **Degree Requirements**

UNV- $501^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Education	
TCH-520	Brain-Based Learning	3 credits
TCH-539	Introduction to Educational	3 credits
	Research	

EDU-527	Leadership in Curriculum	3 credits
EDU-522	Curriculum Design Theories	3 credits
EDU-556	Methods of Instruction and	3 credits
EDU-557	Assessment Differentiated and Culturally Responsive Instruction	3 credits
EDU-559	Curriculum Mapping	3 credits
EDU-585	Designing Effective Professional Development	3 credits
EDU-584	Instructional Coaching	3 credits
<u>EDU-589</u> <sup>Ω</sup>	Curriculum and Instruction Capstone	3 credits
Master of Ar	ts in Curriculum and Instruction	32 credits

### Master of Arts in Higher Education Student Affairs

The Master of Arts in Higher Education Student Affairs prepares professionals for a career in student affairs administration at higher education institutions. Graduates of this program will understand how student affairs administrators directly contribute to the social development, academic success, and overall well-being of students. Coursework includes foundational knowledge in student development theory and the history of Student Affairs while introducing topics relevant to the major service areas within student affairs. Areas of focus include operations management, campus community, health and safety, crisis management, spiritual life, housing, legal aspects of student affairs, and campus partnerships.

#### **Degree Requirements**

$\underline{\text{UNV-501}^{\Omega}}$	Introduction to Graduate Studies in the College of Education	2 credits
EDU-518	Introduction to Student Affairs	3 credits
EDU-528	Laws and Ethics in Student Affairs	3 credits
EDU-538	Servant Leadership in Student Affairs	3 credits
EDU-547	Student Development	3 credits
EDU-558	Crisis Management and Intervention	3 credits
EDU-567	Developing Student Leaders	3 credits
EDU-568	Operational Resource Management	3 credits
EDU-578	Culture and Team Building	3 credits
EDU-587	Community Development and Engagement on a University	3 credits
<u>EDU-595</u> <sup>Ω</sup>	Campus Higher Education Student Affairs Capstone	3 credits
Master of Arts in Higher Education Student		32 credits

### Master of Arts in Higher Education Student Affairs *Effective December 2025*

The Master of Arts in Higher Education Student Affairs program prepares professionals for a career in student affairs at higher education institutions. Graduates of this program will understand how student affairs directly contribute to the social development, academic success, and overall well-being of students. Coursework establishes and builds upon a strong foundation in student affairs exploring topics in leadership, resource

32 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

management, student development, law and ethics, professionalism, and strategic planning.

#### **Degree Requirements**

$\underline{\text{UNV-501}^{\Omega}}$	Introduction to Graduate Studies in the College of Education	2 credits
EDU-518	Introduction to Student Affairs	3 credits
EDU-528	Laws and Ethics in Student Affairs	3 credits
EDU-538	Servant Leadership in Student Affairs	3 credits
EDU-547	Student Development	3 credits
EDU-558	Crisis Management and Intervention	3 credits
EDU-567	Developing Student Leaders	3 credits
EDU-568	Operational Resource Management	3 credits
EDU-561	Culture and Team Building	3 credits
EDU-562	Community Development and Engagement on a University Campus	3 credits
<u>EDU-579</u> <sup>Ω</sup>	Higher Education Student Affairs Capstone	3 credits

Master of Arts in Higher Education Student Affairs

### Master of Arts in Reading Education K-12 (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Arts in Reading Education K-12 degree is designed for current teaching professionals who would like to become reading specialists or interventionists to increase the educational success of K-12 students. Candidates focus on working with students to develop their reading abilities through a process of screening, intervening, remediating, and monitoring the progress of reading skills. Applicants to this program are required to submit a copy of a current teaching license or provide evidence of a minimum of one year of teaching experience. The format and courses of this regionally accredited program are aligned to the International Literacy Association (ILA) and the Interstate Teacher Assessment and Support Consortium (InTASC) standards. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of curriculum and instruction, cognition, emergent literature, linguistics, phonics, and developmental and corrective reading processes. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through observational and practice-based experiences. Students must have access to K-12 classrooms to complete the practicum courses and program assignments.

#### **Degree Requirements**

UNV- $501^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Education	
REA-500	Foundations in Language and	3 credits
	Literacy	
REA-510	Survey of Reading Assessments	3 credits
REA-512	Introduction to K-12 Reading	3 credits
	Instructional Methods	

<u>REA-522</u>	Advanced K-12 Reading	3 credits
<u>REA-532</u>	Assessment and Diagnostics Advanced Methods for K-12 Reading and Writing Instruction and Remediation	3 credits
REA-550	Literate Environments	3 credits
REA-552	Leadership in Literacy Intervention and Remediation	3 credits
$REA-582^{\Omega}$	Practicum in K-12 Reading	3 credits
TCH-520	Brain-Based Learning	3 credits
TCH-539	Introduction to Educational Research	3 credits
Master of Arts in Reading Education K-12		32 credits

### Master of Arts in Reading with an Emphasis in Elementary Education (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Arts in Reading with an Emphasis in Elementary Education degree is designed for current teaching professionals who would like to become reading specialists or literacy coaches to increase the educational and literacy success of grade K-8 students by working with them to develop and enhance their reading abilities. Other topics of focus include: foundational theory and research, developmental learning and assessments, corrective reading assessment, and instructional leadership and literacy coaching. Applicants to this program are required to submit a copy of a current teaching license or provide evidence of a minimum of one year of teaching experience. The format and courses of this regionally accredited program are aligned to the International Literacy Association (ILA) and the Interstate Teacher Assessment and Support Consortium (InTASC) standards. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of curriculum and instruction, cognition, emergent literature, linguistics, phonics, literacy, assessments, and developmental and corrective reading processes. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through observational and practice-based experiences. Students must have access to an elementary classroom to complete the practicum course and program assignments.

#### **Degree Requirements**

UNV- $501^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the College of Education	
TCH-539	Introduction to Educational	3 credits
	Research	
TCH-520	Brain-Based Learning	3 credits
REA-500	Foundations in Language and	3 credits
	Literacy	
REA-510	Survey of Reading Assessments	3 credits
REA-515	Advanced Studies in Reading	3 credits
<u>11271 5 15</u>	Assessment Systems	
REA-550	Literate Environments	3 credits
REA-560	Professional Learning and	3 credits
1127 300	Leadership in Literacy	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

32 credits

REA-520	Introductory Instructional Methods	3 credits	
	for Elementary Reading and		
	Writing		
REA-540	Advanced Studies in Methods for	3 credits	
	Elementary Content Reading and		
	Writing		
$\underline{\text{REA-570}^{\Omega}}$	Elementary Practicum in Reading	3 credits	
Master of Arts in Reading with an Emphasis in		32 credits	
Elementary Education			

## Master of Arts in Reading with an Emphasis in Elementary Education (AP/CPE) *Effective*November 2025

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Arts in Reading with an Emphasis in Elementary Education program is designed for current teaching professionals who would like to become reading specialists to increase the educational and literacy success of Grade K-8 students by working with them to develop and enhance their reading abilities. Topics of focus include: foundational knowledge; curriculum and instruction; assessment and evaluation; diversity and equity; learners and the literacy environment; professional learning and leadership. Applicants to this program are required to submit a copy of a current teaching license or provide evidence of a minimum of one year of teaching experience. The course content of this regionally accredited program is aligned to the International Literacy Association (ILA) and the Interstate Teacher Assessment and Support Consortium (InTASC) standards. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of curriculum and instruction, cognition, emergent literature, linguistics, phonics, literacy, assessments, and developmental and corrective reading processes and interventions. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through observational and practice-based experiences. Students must have access to an elementary classroom to complete the practicum course and program assignments.

#### **Degree Requirements**

$\underline{\text{UNV-501}^{\Omega}}$	Introduction to Graduate Studies in the College of Education	2 credits
TCH-539	Introduction to Educational Research	3 credits
TCH-520	Brain-Based Learning	3 credits
<u>REA-500</u>	Foundations in Language and Literacy	3 credits
REA-510	Survey of Reading Assessments	3 credits
<u>REA-521</u>	Instructional Methods for Elementary Literacy	3 credits
<u>REA-516</u>	Advanced Studies in Reading Assessment Systems	3 credits
<u>REA-541</u>	Advanced Methods for Elementary Literacy	3 credits
REA-550	Literate Environments	3 credits
<u>REA-561</u>	Professional Leadership and Learning in Literacy	3 credits
$\underline{\text{REA-571}^{\Omega}}$	Elementary Practicum in Reading	3 credits

Master of Arts in Reading with an Emphasis in 32 credits Elementary Education

### Master of Arts in Teaching English to Speakers of Other Languages (TESOL) (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Arts in Teaching English to Speakers of Other Languages (TESOL) is designed for teaching professionals with an interest in working with English language learners (ELLs) in or out of the classroom. The format and courses of this regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the working educator possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of linguistics, second language acquisition, and curriculum development. All courses are directly aligned with the Interstate Teacher Assessment and Support Consortium (InTASC) and the Standards for the Recognition of Initial TESOL Programs in P-12 ESL Teacher Education (TESOL). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in TESOL field experiences and a practicum that guide students through 110 hours of observational and practicebased experiences. Candidates must have access to a P-12 classroom with ESL students to complete the practicum course and program assignments. Graduates of the program may be eligible for the ESL and/or the BLE endorsement in the state of Arizona, and are prepared to become leaders in ESL/BLE/TESOL at the P-12 classroom, school, and district

#### **Degree Requirements**

$\underline{\text{UNV-501}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
TCH-539	the College of Education Introduction to Educational Research	3 credits
TCH-520	Brain-based Learning	3 credits
<u>TSL-532</u>	Foundations of Instruction for English Language Learners	3 credits
<u>TSL-550</u>	School, Community, and Family Culture	3 credits
TSL-541	Linguistics	3 credits
TSL-552	Literacy in Bilingual Settings	3 credits
<u>TSL-558</u>	ELL and Bilingual Curriculum and Methods of Instruction	3 credits
TSL-565	ELL and Bilingual Assessment	3 credits
<u>TSL-568</u>	Methods of Teaching and Evaluating ELLs with Exceptionalities	3 credits
<u>TSL-590</u> Ω	BLE or TESOL Practicum	3 credits
Master of Arts in Teaching English to Speakers of Other Languages (TESOL)  32 credits		

### Master of Education in Early Childhood Education (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Early Childhood Education program is designed for students seeking

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

initial licensure in the field of early childhood education. The format and courses of this program include developmentally appropriate instructional strategies, child-centered and other teaching methodologies, assessment and data literacy, theories of early childhood growth and development, and the effect of family and cultural diversity on early childhood. Courses are taught by experts in their respective fields who share knowledge and experience in areas of early childhood education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the National Association for the Education of Young Children (NAEYC). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in early childhood field experiences that guide students through 130 hours of observational and practice-based experiences. Teacher candidates also complete a birth to preschool practicum and a 15-week student teaching experience in a K-3 classroom. Graduates of this program are eligible for an early childhood teaching credential in the state of Arizona.

Introduction to Early Childhood

#### **Degree Requirements**

ECE-501 $\Omega$ 

ECE-501-	introduction to Early Childhood	3 cicuits
	Foundations and Graduate Studies	
ECE-515	Typical and Atypical Child	3 credits
	Development	3 credits
POS-501	U.S. and Arizona Constitutions for	2 114
	Teacher Candidates	3 credits
ECE-522	Instructional Planning and	2 11.
	Assessment in Early Childhood	3 credits
ECE-532	Child Growth and Development in	2 11
	Health, Safety, and Nutrition	3 credits
ESL-536	Methods of Structured English	
<u> </u>	Immersion for Early Childhood	
	Education	3 credits
ECS-575	Early Childhood Phonics and	3 credits
<u> 200 373</u>	Science Reading Development	
ECE-562	Family Engagement and Cultural	
<u>LCL-302</u>	Awareness Supporting Early	
	Childhood	3 credits
ECE-602	Managing and Guiding a Positive	
ECE 002	Early Childhood Environment	3 credits
ECE-550	Literacy Intervention and	
ECE-330	Remediation	3 credits
ECE-650	Early Childhood Instructional	
ECE-050	Methodologies: ELA, Social	
	Studies, and Arts	3 credits
ECE-660	Early Childhood Instructional	
<u>LCL-000</u>	Methodologies: STEM	3 credits
<u>ECE-568</u> <sup>Ω</sup>	Birth through Preschool Early	
ECE-308	Childhood Practicum	3 credits
<u>ECE-598</u> <sup>Ω</sup>	Student Teaching - Kindergarten to	
ECE-370	Age 8/Grade 3	8 credits
Mostor of E		47 credits
Master of Education in Early Childhood 4/ credits Education 4/		
		1201
Total Practicum/Field Experience Hours		130 hours

### Master of Education in Early Childhood Education (IP/Non-TL)

#### (Initial Program-Does Not Lead to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Early Childhood Education NITL program is designed for students seeking information in the field of early childhood education. The format and courses of this regionally accredited program include instructional strategies, Montessori and other teaching methodologies, assessment techniques, theories of early childhood growth and development, and the effect of family and cultural diversity on early childhood. Courses are taught by experts in their respective fields who share knowledge and experience in areas of early childhood education, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the National Association for the Education of Young Children (NAEYC). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in early childhood field experiences that guide students through 118 hours of observational and practice-based experiences (36 credits). This program does not lead to licensure.

#### **Degree Requirements**

$\underline{\text{ECE-501}}^{\Omega}$	Introduction to Early Childhood Foundations and Graduate Studies	3 credits	
EGE #1#	Typical and Atypical Child		
ECE-515	Development	3 credits	
DOC 501	U.S. and Arizona Constitutions for		
POS-501	Teacher Candidates	3 credits	
ECE 522	Instructional Planning and		
ECE-522	Assessment in Early Childhood	3 credits	
ECE-532	Child Growth and Development in		
ECE-332	Health, Safety, and Nutrition	3 credits	
ESL-536	Methods of Structured English		
ESE-330	Immersion for Early Childhood		
	Education	3 credits	
ECS-575	Early Childhood Phonics and	3 credits	
ECS-373	Science Reading Development	o credits	
ECE-562	Family Engagement and Cultural		
ECE-302	Awareness Supporting Early		
	Childhood	3 credits	
ECE-602	Managing and Guiding a Positive		
ECE-002	Early Childhood Environment	3 credits	
ECE-550	Literacy Intervention and		
<u>LCL-330</u>	Remediation	3 credits	
ECE-650	Early Childhood Instructional		
<u>ECE 030</u>	Methodologies: ELA, Social		
	Studies, and Arts	3 credits	
ECE-660	Early Childhood Instructional		
<u>LCL-000</u>	Methodologies: STEM	3 credits	
Master of Education in Early Childhood		36 credits	
Education			
Total Practic	118 hours		
10tal 1 lactic	110110415		

#### Master of Education in Early Childhood Education and Early Childhood Special Education (IP/TL)

#### (Initial Program-Leads to Teacher Licensure)

Grand Canyon University's Master of Education in Early Childhood and Early Childhood Special Education dual licensure program is a degree for candidates seeking to build skills and apply best-practice pedagogy and methodologies in the field of early childhood education and early childhood special education development. Graduates of this master's program are prepared to become informed educators in public and private schools and other settings requiring a teaching license. The curriculum includes early childhood development in the cognitive, physical, linguistic, and social/emotional domains, including strategies for behavioral interventions; early language and literacy

3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

development, interventions and support; assessment, evaluation and reporting progress; and child, family, and community collaboration and advocacy to promote the education of young children with and without exceptionalities. All courses are directly aligned with specialized professional teacher preparation standards: Interstate Teacher Assessment and Support Consortium (InTASC) principles, International Society for Technology in Education Standards for Educators (ISTE-E), National Association for the Education of Young Children Standards for Initial and Advanced Early Childhood Preparation Programs (NAEYC), and the Council for Exceptional Children Initial Practice-Based Standards Early Interventionists/Early Childhood Special Education (EI/ECSE). This degree program includes field experiences in special education, inclusive, and general education birth through Grade 3 classrooms. Teacher candidates also complete a 16-week student teaching experience that includes eight weeks in a K-3 general education classroom, and eight weeks in a Birth-3 special education classroom. Graduates of this program are eligible for early childhood and early childhood special education teaching certification in Arizona.

#### **Degree Requirements**

Degree Requ	uirements		Grand Canyo	on University's Master of Education in Ea	ırlv
$ECS-502^{\Omega}$	Foundations in Early Childhood Ed. and Early Childhood Special Ed.	3 credits	Childhood a	and Early Childhood Special Education No IITL) program is a degree for candidates s	n-Initial
<u>ECS-500</u>	Survey of Early Childhood Special Education	3 credits	in the field o	nd apply best-practice pedagogy and met f early childhood/early childhood special	education
ECS-510	Instructional Planning for Early Childhood and Early Childhood Special Ed Language, Literacy, and	3 credits	of this Maste educators in	This program does not lead to licensure. T's program are prepared to become infor settings that do not require a teaching licencludes: social/emotional development an	rmed ense. The
ECS-570	Communication in Early Childhood/Special Education Child Guidance and Classroom	3 credits	behavioral in development	terventions; early language and literacy c; assessment, evaluation and reporting pro , and community collaboration and advoc	ogress; and,
<u>ECS-550</u> <sup>Ω</sup>	Management for Typical and Atypical Behaviors	3 credits	promote the exceptionalit	education of young children with and with ies. All courses are directly aligned with	hout specialized
<u>POS-501</u>	U.S. and Arizona Constitutions for Teacher Candidates	3 credits	content stand	teaching standards and the associated nati	Support
<u>ESL-536</u>	Methods of Structured English Immersion for Early Childhood Education Legal Aspects of Special Education	3 credits	Technology National Ass (NAEYC) St	(InTASC) principles, International Society in Education Standards for Teachers (IST sociation for the Education of Young Chil trandards for Initial and Advanced Early C	E-T), dren hildhood
ECS-520	with an Emphasis in Early Childhood	3 credits	(CEC) Initial	Programs, and the Council for Exceptional Special Educator Preparation Standards	Early
ECS-575	Early Childhood Phonics and Science of Reading Development Assessment, Evaluation, and	3 credits	program incl	pecialist Set. This regionally accredited dudes 104 hours of field experience in speculusive, and general education Birth – Gr	cial
ECS-590	Reporting for Early Childhood/Special Education	3 credits	Degree Requ	uirements	
ECS-555	Child Development Including Health, Safety, and Nutrition Child Family Cultural	3 credits	$ECS-502^{\Omega}$	Foundations in Early Childhood Ed. and Early Childhood Special Ed. Survey of Early Childhood Special	3 credits
ECS-560	Child, Family, Cultural, Community Relationships, and Advocacy	3 credits	ECS-500	Education Instructional Planning for Early	3 credits
ECS-580	Developmentally Appropriate Instruction: ELA, Social Studies, and Arts	3 credits	ECS-510	Childhood and Early Childhood Special Ed Language, Literacy, and	3 credits
<u>ECS-585</u>	Developmentally Appropriate Instruction: STEM Subjects	3 credits	ECS-570	Communication in Early Childhood/Special Education	3 credits
ECS-562	Early Childhood Special Ed. Practicum I: Birth - Preschool	3 credits	EGG 550 0	Child Guidance and Classroom Management for Typical and	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

**Atypical Behaviors** 

Early Childhood Special Ed.

- Grade 3

Setting

Setting

Total Practicum/Field Experience Hours

Childhood Special Education

Literacy Practicum II: Kindergarten

Student Teaching- Kindergarten to Age 8/Grade 3: General Education

Student Teaching- Birth to Age

8/Grade 3: Special Education

Master of Education in Early Childhood and Early

Master of Education in Early Childhood

advancement for those already licensed as teachers.

**Education and Early Childhood Special Education** 

(Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component,

and does not therefore lead to licensure, but may lead to career

3 credits

4 credits

4 credits

56 credits

185 hours

ECS-568<sup>Ω</sup>

 $ECS-596A^{\Omega}$ 

ECS-596B<sup>Ω</sup>

(IP/Non-TL)

ECS-550 <sup>Ω</sup>

	U.S. and Arizona Constitutions for	3 credits	
POS-501	Teacher Candidates	3 cledits	
	Methods of Structured English		
	Immersion for Early Childhood	2 11.	
ESL-536	Education	3 credits	
	Legal Aspects of Special Education		
	with an Emphasis in Early	0 11.	
ECS-520	Childhood	3 credits	
	Early Childhood Phonics and	2 11	
ECS-575	Science of Reading Development	3 credits	
	Assessment, Evaluation, and		
	Reporting for Early		
ECS-590	Childhood/Special Education	3 credits	
	Child Development Including		
ECS-555	Health, Safety, and Nutrition	3 credits	
Master of Education in Early Childhood and Early		33 credits	
	pecial Education		
Total Practic	um/Field Experience Hours	104 hours	
	•		

### Master of Education in Educational Administration (AP/PL)

#### (Advanced Program for Principal Licensure)

This program is designed for individuals interested in educational administration in the PK-12 setting and seeking a K-12 principal's license. Applicants for this program are required to provide documentation of two years of verified teaching experience. The Interstate School Leaders Licensure Consortium (ISLLC) and the Educational Leadership Constituent Council (ELCC) standards form the foundation of this regionally accredited and Arizona-approved program of study. Courses are taught by expert practitioners in their respective fields who share knowledge and experience in areas of school leadership, administrative/leadership foundations, creating/sustaining positive school cultures, PK-12 legal issues, public school finance, curriculum development, professional development/empowerment of teachers, and instructional leadership. As an opportunity to apply theory to practice, practicum/field experience hours are embedded throughout the program. The Action Planning process frames these experiences. Field work within each course guides Principal Candidates through observation, practice, and hands-on leadership experiences. Principal Candidates must be prepared to complete three clinical internships for a total of 270 hours. Graduates of the program are well-prepared to be informed educational administrators in public and private schools, and other settings requiring a principal's license.

#### **Degree Requirements**

$EAD-507^{\Omega}$	Foundations of Educational	3 credits
	Administration and Leadership	
EAD-517	Educational Administration and	3 credits
	Education Law	
EAD-527	Administration of Education	3 credits
	Finance	
EAD-537	Sustaining Educational	3 credits
	Environments and Communities	
EAD-547	School Organization and	3 credits
	Management	
EAD-557	Administration of Curriculum and	3 credits
	Academic Programs	
EAD-567	Coaching and Mentoring to Support	3 credits
2000	Teacher Self-Efficacy and	
	Retention	

EAD-570	Educational Administration Clinical Internship I	3 credits
EAD-577	Promoting Effective and Respectful Learning Environments	3 credits
EAD-580	Educational Administration Clinical Internship II	3 credits
EAD-587	Distributed and Inclusive Leadership	3 credits
EAD-590	Educational Administration Clinical Internship III	3 credits
Master of Education in Educational Administration		36 credits
Total Practicum/Field Experience Hours		300 hours

The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take a US/Arizona Constitution course (POS-301) and pass the professional knowledge test of the Arizona Education Proficiency Assessment. The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take 6 credits of Structured English Immersion.

POS-301	Arizona and Federal Government	2 credits
ESL-523	English Language Teaching Foundations & Methodologies	3 credits
ESL-533	Advanced Methodologies of SEI	3 credits

#### Master of Education in Educational Administration with and Emphasis in Christian Education (AP/PL)

#### (Advanced Program for Principal Licensure)

The Master of Education in Educational Administration, with an Emphasis in Christian Education, licensure program is designed for teachers or administrators interested in advancing their careers as Christian educational leaders in the PK-12 setting. The program is designed with the Association of Christian Schools International (ACSI) accreditation guidelines in mind and allows for students to be ACSI eligible. Applicants for this program are required to provide documentation of two years of verified teaching experience. Course topics include Christian leadership. curriculum theory and development, assessment data and analysis, crisis and change, school law, finance, management, and character development focusing on human flourishing within multiple school settings including the Christian school environment. Graduates would be well-suited to establish an ethos around character education in their schools. In addition, candidates must be prepared to complete three clinical internships for a minimum of 300 hours in an approved PK-12 school setting. This program prepares candidates for educational administration in multiple school settings including Christian schools that require state licensure or certification.

#### **Degree Requirements**

<u>CEA-517</u>	Legal Considerations in Christian Education	3 credits
CEA-527	Christian School Finance	3 credits
<u>CEA-537</u>	Christian Educational Environments and Communities	3 credits
<u>CEA-557</u>	Educating from a Christian Worldview	3 credits
$\underline{\text{EAD-507}}^{\Omega}$	Foundations of Educational Administration and Leadership	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>†</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

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Total Practicum/Field Experience Hours

Education

Administration with an Emphasis in Christian

300 hours

The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take a US/Arizona Constitution course (POS-301) and pass the professional knowledge test of the Arizona Education Proficiency Assessment. The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take 6 credits of Structured English Immersion.

POS-301	Arizona and Federal Government	2 credits
ESL-523	English Language Teaching	3 credits
	Foundations & Methodologies	
ESL-533	Advanced Methodologies of SEI	3 credits

#### Master of Education in Educational Administration with and Emphasis in School Business and Finance (AP/PL)

#### (Advanced Program for Principal Licensure)

The Master of Education in Educational Administration with an Emphasis in School Business and Finance program is designed for individuals interested in educational administration in the PK12 setting and seeking a principal's license with a focus on school business and finance. Applicants for this program are required to provide documentation of two years of verified teaching experience. The National Educational Leadership Preparation (NELP) standards and the Professional Standards for Educational Leaders (PSEL) form the foundation of this regionally accredited and Arizona-approved program of study. Courses are taught by expert practitioners in their respective fields who share knowledge and experience in areas of school leadership, administrative foundations, creating and sustaining positive school cultures, PK12 legal issues, finance, curriculum development, professional development and empowerment of teachers, and instructional leadership. Mission driven ventures are explored to ensure both communities and the greater good of society are served. Graduates would be well-suited to establish an ethos around character education in their schools. Principal candidates must be prepared to complete three clinical internships for a minimum of 300 hours. Graduates of the program are well prepared to be informed educational administrators in public and private schools, and other settings requiring a principal's license.

#### **Degree Requirements**

Degree Requ	in cincing	
EBF-520	Federal Funding for Schools and	3 credits
	Districts	
EBF-525	State Funding for Schools and	3 credits
	Districts	
EBF-530	Local Funding for Schools and	3 credits
·	Districts	
EBF-550	Managing School Capital and	3 credits
<u>227 000</u>	Human Resources	
$EAD-507^{\Omega}$	Foundations of Educational	3 credits
<u>E/1D 307</u>	Administration and Leadership	
EAD-517	Educational Administration and	3 credits
<u>EAD-317</u>	Education Law	2 Clouis
EAD 507	Administration of Education	3 credits
EAD-527	Finance	3 credits
EAD 505	Sustaining Educational	3 credits
<u>EAD-537</u>	Environments and Communities	3 ciedits
		3 credits
EAD-547	School Organization and	3 credits
	Management	0 11.
EAD-557	Administration of Curriculum and	3 credits
	Academic Programs	
EAD-567	Coaching and Mentoring to Support	3 credits
	Teacher Self-Efficacy and	
	Retention	
EAD-570	Educational Administration Clinical	3 credits
·	Internship I	
EAD-577	Promoting Effective and Respectful	3 credits
<u> 2772 077</u>	Learning Environments	
EAD-580	Educational Administration Clinical	3 credits
<u>L/1D-300</u>	Internship II	
EAD-587	Distributed and Inclusive	3 credits
<u>EAD-361</u>	Leadership	2 Clouis
EAD 500	Educational Administration Clinical	3 credits
EAD-590	Internship III	5 creams
M · CE		48 credits
	lucation in Educational	+6 CIEUIIS
Administration with an Emphasis in School		
Business and		
Total Practic	300 hours	

The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take a US/Arizona Constitution course (POS-301) and pass the professional knowledge test of the Arizona Education Proficiency Assessment. The Arizona Department of Education requires all individuals applying for certification in the state of Arizona to take 6 credits of Structured English Immersion.

POS-301	Arizona and Federal Government	2 credits
ESL-523	English Language Teaching Foundations & Methodologies	3 credits
ESL-533	Advanced Methodologies of SEI	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### Master of Education in Educational Leadership (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Education in Educational Leadership (APCPE) program is designed for individuals interested in educational leadership or administration in the PK-12 and social services settings for children, but who must postpone a school site-based administrative internship or do not choose to seek a K-12 principal's license. The National Education Leadership Preparation Program Recognition Standards (NELP) and the Professional Standards for Educational Leaders (PSEL) standards form the foundation of this program of study. Courses are taught by expert practitioners in their respective fields who share knowledge and experience in the areas of school and business leadership, administrative foundations, organizational theory and culture, PK-12 legal issues, public school finance, curriculum development, and instructional and team leadership. The program includes an action research project culminating in a capstone with a 30 hour practicum requirement. Graduates of the program are prepared to become educational leaders at home, church, or private schools, or other settings not requiring a principal's license. To be admitted into this program, two years of teaching experience is strongly recommended. Students who complete this program and then desire to secure a principal's license will be required to complete the requirements of the Master of Education in Educational Administration program.

#### **Degree Requirements**

Degree Requirements			
<u>EAD-507</u> <sup>Ω</sup>	Foundations of Educational Administration and Leadership	3 credits	
EDL-517	Legal and Ethical Considerations in Leadership	3 credits	
EDL-527	Resource Management	3 credits	
<u>EAD-537</u>	Sustaining Educational Environments and Communities	3 credits	
EDL-537	Becoming a Leader	3 credits	
<u>EAD-577</u>	Promoting Effective and Respectful Learning Environments	3 credits	
EDL-557	Leading with an Entrepreneurial and Innovative Mindset	3 credits	
EDL-567	Leading Change	3 credits	
EDL-577	Leading Projects and Teams	3 credits	
$EDL-590^{\Omega}$	Educational Leadership Capstone	3 credits	
Master of Education in Educational Leadership		30 credits	
Total Practicum/Field Experience Hours		30 hours	

# Master of Education in Educational Leadership with an Emphasis in K12 Christian Education (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Education in Educational Leadership with an Emphasis in K12 Christian Education, non-licensure program is designed for teachers or administrators interested in advancing

their careers as Christian educational leaders in a PK-12 setting. The program is designed with Association of Christian Schools International (ACSI) accreditation guidelines in mind and allows for students to be ACSI eligible. Course topics include Christian leadership, curriculum theory and development, assessment data and analysis, crisis and change, school law, finance, management, and character development focusing on human flourishing within multiple school settings including the Christian school environment. The program includes an action research project culminating in a capstone with a 30 hour practicum requirement. Graduates would be well-suited to establish an ethos around character education in their schools. This program prepares candidates for educational leadership in multiple school settings including Christian schools that do not require state licensure or certification.

#### **Degree Requirements**

$\underline{\text{EAD-507}}^{\Omega}$	Foundations of Educational Administration and Leadership	3 credits
<u>CEA-517</u>	Legal Considerations in Christian Education	3 credits
<u>EAD-537</u>	Sustaining Educational Environments and Communities	3 credits
<u>EAD-577</u>	Promoting Effective and Respectful Learning Environments	3 credits
CEA-527	Christian School Finance	3 credits
CEA-537	Christian Educational Environments and Communities	3 credits
EDL-537	Becoming a Leader	3 credits
CEA-557	Becoming a Leader	3 credits
EDL-557	Leading with an Entrepreneurial and Innovative Mindset	3 credits
EDL-567	Leading Change	3 credits
EDL-577	Leading Projects and Teams	3 credits
$EDL-590^{\Omega}$	Educational Leadership Capstone	3 credits
Master of Education in Educational Leadership with an Emphasis in K12 Christian Education		36 credits
Total Practicum/Field Experience Hours		30 hours

### **Master of Education in Elementary Education** (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

The Master of Education in Elementary Education (Eligible for Institutional Recommendation/Credential) program is designed for individuals interested in the education of children in elementary and/or middle school who are seeking initial teacher licensure. Course topics include developmental psychology, assessment, managing learning environments, literacy concepts, and instructional planning and strategies that support diverse learning needs including dyslexia. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society for Technology in Education (ISTE). Graduates of the Master of Education in Elementary Education program are prepared to become informed educators in public and private schools and other settings requiring a teaching license. Opportunities are provided to apply concepts, theories, and research throughout the program, particularly in elementary education field experiences that guide students through 104 hours of observational and practice-based experiences. The format and courses of this regionally accredited and Arizona-approved program are tailored

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

to meet the needs of the adult student and to maximize the content knowledge the teacher candidate will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience in areas of elementary education, and educational psychology.

#### **Degree Requirements**

$EDU-525^{\Omega}$	Foundations in Elementary Education Graduate Studies	3 credits
ELM-500	Child and Early Adolescent Development and Psychology	3 credits
POS-501	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
<u>SPD-508</u>	Survey of Special Education: Teaching Children with	3 credits
ELM-515	Exceptionalities Creating and Managing Equitable and Engaging Learning	3 credits
ELM-555	Environments Instructional Planning and Assessment for Elementary Teacher	3 credits
<u>ESL-540</u>	Candidates Methods of Structured English Immersion for Elementary Education	3 credits
ELM-545	Phonics and the Science of Reading	3 credits
<u>ELM-580</u>	Methods and Strategies of Teaching English Language Arts	3 credits
ELM-526	Literacy Intervention and Remediation	3 credits
<u>ELM-570</u>	Methods and Strategies of Teaching and Integrating Science and Health	3 credits
ELM-560	Methods and Strategies of Teaching Mathematics	3 credits
ELM-550	Methods & Strategies of Teaching & Integrating Social Studies & the Arts	3 credits
$ELM-590^{\Omega}$	Student Teaching for Elementary Teacher Candidates	8 credits
Master of Ed	lucation in Elementary Education	47 credits
Total Practic	um/Field Experience Hours	104 hours

### Master of Education in Elementary Education (IP/Non-TL)

#### (Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The program is designed for any individual interested in the education of children in elementary or middle school. The format and courses of this regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that teacher candidates possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, philosophy, methodology, and curriculum development. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within many of the courses guide students through more than 100 hours of observational and practice-based experiences. Students have the option of transferring into the version of the program that leads to initial teacher licensure up to,

but not after, the time of degree posting. Graduates of the program are prepared to become informed educators in the home, church, private schools, and other settings not requiring a teaching license. This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

#### **Degree Requirements**

z egree reequ		
$EDU-525^{\Omega}$	Foundations in Elementary	3 credits
	Education Graduate Studies	
ELM-500	Child and Early Adolescent	3 credits
	Development and Psychology	
POS-501	U.S. and Arizona Constitutions for	3 credits
100 301	Teacher Candidates	
SPD-508	Survey of Special Education:	3 credits
<u>3FD-306</u>	Teaching Children with	3 Credits
	Exceptionalities	
		3 credits
<u>ELM-515</u>	Creating and Managing Equitable	3 credits
	and Engaging Learning	
	Environments	
ELM-555	Instructional Planning and	3 credits
	Assessment for Elementary Teacher	
	Candidates	
ESL-540	Methods of Structured English	3 credits
LDL 340	Immersion for Elementary	
	Education	
ELM 545	Phonics and the Science of Reading	3 credits
ELM-545	Č	
ELM-580	Methods and Strategies of Teaching	3 credits
	English Language Arts	
ELM-526	Literacy Intervention and	3 credits
EEW 320	Remediation	
ELM-570	Methods and Strategies of Teaching	3 credits
ELWI-370	and Integrating Science and Health	o creares
ELM 500	Methods and Strategies of Teaching	3 credits
ELM-560	Mathematics	3 cicuits
		2 114
ELM-550	Methods & Strategies of Teaching	3 credits
	& Integrating Social Studies & the	
	Arts	
Master of Ed	ucation in Elementary Education	39 credits
Total Practic	um/Field Experience Hours	104 hours

### Master of Education in Elementary Education and Special Education (IP/TL)

#### (Initial Program-Leads to Teacher Licensure)

This program is designed for students who are seeking dual certification in elementary education (K-8) and mild to moderate education (K-12). The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, Association for Childhood International standards, and/or Council for Exceptional Children standards. Opportunities are provided to apply concepts, theories, and research throughout the program with focused experiences that guide students through 113 hours of observational and practice-based experiences in both K-8 elementary settings, as well as K-12 special education mild to moderate settings. Graduates of the program are prepared to work with special needs populations and implement individualized

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

educational plans to accommodate the students' various learning, behavioral, and social needs. Teacher candidates must be prepared to complete a full-time, 16-week student teaching component at the end of the program. Eight weeks of student teaching are completed in a K-8 general education setting, and 8 weeks are completed in a K-12 mild to moderate setting for students with disabilities. Student teaching settings must be completed with a certified elementary education teacher for the first eight weeks, and a certified special education teacher for the last eight weeks. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Teacher candidates should consult the Grand Canyon University Catalog, the University Policy Handbook, and an academic advisor to obtain information regarding current policies and procedures inherent in a teacher licensure program. Graduates of this program are eligible for the Moderate to Severe Disabilities Special Education, K-12 Certificate and the Elementary Education, K-8 Certificate in the

#### **Degree Requirements**

state of Arizona.

ESD-501	Foundations in Elementary and	3 credits
ELM-500	Special Education Graduate Studies Child and Early Adolescent	3 credits
<u>SPD-500</u>	Development and Psychology Survey of Special Education: Mild	3 credits
POS-500	to Moderate Disabilities U.S. and Arizona Constitutions for	3 credits
<u>SPD-510</u>	Teacher Candidates Professional, Ethical and Legal Practices and Policies in Special	3 credits
<u>SPD-521</u>	Education Collaborations and Communications in Special	3 credits
ESD-530	Education Instructional Planning and Assessment in the Inclusive	3 credits
ESD-540	Classroom Assessment, Eligibility, and Transition Planning	3 credits
ESD-550	Classroom Guidance, Management, and Behavior	3 credits
<u>SPD-578</u>	Language Development Through Phonics and the Science of Reading	3 credits
ESL-546	Methods of Structured English Immersion for K-12 Education	3 credits
ESD-565	Methods for Teaching Science and	3 credits
<u>SPD-570</u>	Health in the Inclusive Classroom Methods of Teaching Math to Students with Mild to Moderate	3 credits
<u>SPD-581</u>	Disabilities Research Based Instruction, Remediation, and Intervention in	3 credits
ESD-585	ELA Methods for Teaching Social Studies and the Arts in the Inclusive	6 credits
<u>ELM-593A</u> <sup>Ω</sup>	Classroom Student Teaching for Elementary Teacher Candidates: Session A	6 credits
$\underline{\text{SPD-593B}}^{\Omega}$	Student Teaching for K-12 Special Education: Session B	6 credits
Master of Education	ucation in Elementary Education and	57 credits
Z-Feeral Zade		

Total Practicum/Field Experience Hours

#### 113 hours

### Master of Education in Elementary Education and Special Education (IP/Non-TL)

#### (Initial Program-Does Not Lead to Teacher Licensure)

This non-licensure program is designed for candidates interested in the education of children in elementary (K-8) and mild to moderate special education (K-12) settings. The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the candidate will possess upon graduation. Courses are taught by experts in their respective fields who have significant proficiency in the course content. Courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, Association for Childhood International standards, and Council for Exceptional Children standards. Opportunities are provided to apply concepts, theories, and research throughout the program with focused experiences that guide students through 113 hours of observational and practice-based experiences in both K-8 elementary settings, as well as K-12 special education mild to moderate settings. Graduates of the program are prepared to work with all students in these settings and to implement individualized educational plans to accommodate various learning, behavioral, and social needs. Graduates of this program are prepared to become informed educators in the home, church, private schools, and other settings not requiring a teaching license. This program does not include a student teaching component, and does not therefore lead to licens

component, and does not therefore lead to licensure.		
Degree Requ	uirements	
ESD-501	Foundations in Elementary and Special Education Graduate Studies	3 credits
<u>ELM-500</u>	Child and Early Adolescent Development and Psychology	3 credits
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
POS-500	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
<u>SPD-510</u>	Professional, Ethical and Legal Practices and Policies in Special Education	3 credits
<u>SPD-521</u>	Collaborations and Communications in Special Education	3 credits
ESD-530	Instructional Planning and Assessment in the Inclusive Classroom	3 credits
ESD-540	Assessment, Eligibility, and Transition Planning	3 credits
ESD-550	Classroom Guidance, Management, and Behavior	3 credits
<u>SPD-578</u>	Language Development Through Phonics and the Science of Reading	3 credits
ESL-546	Methods of Structured English Immersion for K-12 Education	3 credits
ESD-565	Methods for Teaching Science and Health in the Inclusive Classroom	3 credits
<u>SPD-570</u>	Methods of Teaching Math to Students with Mild to Moderate Disabilities	3 credits
SPD-581	Research Based Instruction, Remediation, and Intervention in ELA	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

ESD-585	Methods for Teaching Social Studies and the Arts in the Inclusive Classroom	6 credits
Master of E Special Edu	ducation in Elementary Education and acation	45 credits
Total Practicum/Field Experience Hours		113 hours
Total Practicum/Field Experience Hours		101 hours

### **Master of Education in Secondary Education** (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Secondary Education ITL program is designed for candidates interested in the education of children in Grades 6-12 who are seeking initial teaching licensure. The format and courses of this program are tailored to meet the needs of the adult learner, introduce pedagogy, and maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practice-based experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Teacher candidates are required to produce documentation of successful completion of the content area exam(s) in the intended field in order to student teach. Teacher candidates may be eligible for the secondary education teaching license in the state of Arizona. (41 credits)

#### **Degree Requirements**

Degree Requ	in cincins	
$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary Education for Graduate Students	3 credits
POS-501	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
<u>SEC-506</u>	Early Adolescent and Adolescent Psychology	3 credits
<u>SEC-511</u>	Creating & Managing Engaging Learning Environments for	3 credits
<u>SEC-583</u>	Secondary Educators Curriculum and Instruction for Secondary Educators	3 credits
<u>SEC-518</u>	Assessment and Evaluation for Secondary Educators	3 credits
<u>SPD-508</u>	Survey of Special Education: Teaching Children with	3 credits
<u>SEC-546</u>	Exceptionalities Secondary Literacy Instruction: Assessment, Remediation, Intervention	3 credits
<u>ESL-545</u>	Methods of Structured English Immersion for Secondary Education	3 credits
<u>SEC-526</u>	Instructional Methods and Strategies for Secondary Educators	3 credits
<u>SEC-570</u>	Preparing Secondary Educators for Professional Growth and Advocacy	3 credits

Student teaching must be taken as the last course in the program.

$\underline{\text{SEC-590}}^{\Omega}$	Student Teaching: Secondary Education	8 credits
Master of Education in Secondary Education		41 credits
Total Practicum/Field Experience Hours		100 hours

### Master of Education in Secondary Education (IP/Non-TL)

#### (Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

Grand Canyon University's Master of Education in Secondary Education NITL program is designed for candidates interested in the education of children in Grades 6-12 who are looking to advance careers but not seeking initial teaching licensure. The format and courses of this program are tailored to meet the needs of the adult learner, introduce pedagogy, and maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practicebased experiences. This program does not lead to licensure. (33

#### **Degree Requirements**

$SEC-502^{\Omega}$	Foundations in Secondary	3 credits
	Education for Graduate Students	
POS-501	U.S. and Arizona Constitutions for	3 credits
	Teacher Candidates	
SEC-506	Early Adolescent and Adolescent	3 credits
	Psychology	
SEC-511	Creating & Managing Engaging	3 credits
	Learning Environments for	
	Secondary Educators	
SEC-583	Curriculum and Instruction for	3 credits
	Secondary Educators	
SEC-518	Assessment and Evaluation for	3 credits
	Secondary Educators	
SPD-508	Survey of Special Education:	3 credits
	Teaching Children with	
	Exceptionalities	
SEC-546	Secondary Literacy Instruction:	3 credits
	Assessment, Remediation,	
	Intervention	
ESL-545	Methods of Structured English	3 credits
	Immersion for Secondary Education	
SEC-526	Instructional Methods and	3 credits
	Strategies for Secondary Educators	
SEC-570	Preparing Secondary Educators for	3 credits
-	Professional Growth and Advocacy	
Master of E	ducation in Secondary Education	33 credits
Total Practicum/Field Experience Hours		100 hours

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### Master of Education in Secondary Education with an Emphasis in Humanities (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Secondary Education with Emphasis in Humanities ITL program is designed for candidates interested in the education of children in the Humanities areas in grades 5-12 who are also seeking initial teaching licensure. The format and courses of this regionally accredited and Arizona-approved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education, humanities, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practicebased experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Teacher candidates are required to produce documentation of successful completion of the content area exam(s) in a Humanities field in order to student teach. Teacher candidates who student teach in a middle grades setting may be eligible for the middle grades endorsement, in addition to the Secondary Education teacher license in the state of Arizona.

#### **Degree Requirements**

$\frac{\text{SEC-502}^{\Omega}}{\text{SEC-502}}$	Foundations in Secondary	3 credits
	Education for Graduate Students	
POS-500	U.S. and Arizona Constitution for	3 credits
	Teacher Candidates	
<u>SEC-506</u>	Early Adolescent and Adolescent	3 credits
	Psychology	2 114
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
GEG 510		3 credits
<u>SEC-510</u>	Creating and Managing Engaging Learning Environments	3 ciedits
CEC 501	Middle and Secondary Curriculum	3 credits
<u>SEC-581</u>	and Instruction for Humanities	3 Credits
	Teachers	
SEC-516	Assessment and Evaluation for	3 credits
<u>520 510</u>	Humanities Teachers	
SEC-525	Methods and Strategies for Middle	3 credits
	and High School Teachers	
SEC-545	Differentiated Literacy Instruction:	3 credits
	Assessment, Remediation &	
	Intervention	
ESL-545	Methods of Structured English	3 credits
	Immersion for Secondary Education	3 credits
<u>SEC-530</u>	Integrating Humanities Methods for Middle and High School Instruction	3 credits
Caralana and		1
	ning must be taken as the last course in t	ne
program.		
<u>SEC-590</u> Ω	Student Teaching: Secondary	8 credits
	Education	
Master of Ed	ucation in Secondary Education with	41 credits

Total Practicum/Field Experience Hours

#### 101 hours

### Master of Education in Secondary Education with an Emphasis in Humanities (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Secondary Education with Emphasis in Humanities ITL program is designed for candidates interested in the education of children in the Humanities areas in grades 5-12 who are also seeking initial teaching licensure. The format and courses of this regionally accredited and Arizona-approved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education, humanities, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practicebased experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Teacher candidates are required to produce documentation of successful completion of the content area exam(s) in a Humanities field in order to student teach. Teacher candidates who student teach in a middle grades setting may be eligible for the middle grades endorsement, in addition to the Secondary Education teacher license in the state of Arizona.

#### **Degree Requirements**

$SEC-502^{\Omega}$	Foundations in Secondary	3 credits
	Education for Graduate Students	
POS-500	U.S. and Arizona Constitution for	3 credits
	Teacher Candidates	
SEC-506	Early Adolescent and Adolescent	3 credits
	Psychology	
SPD-500	Survey of Special Education: Mild	3 credits
	to Moderate Disabilities	
SEC-510	Creating and Managing Engaging	3 credits
	Learning Environments	
SEC-581	Middle and Secondary Curriculum	3 credits
	and Instruction for Humanities	
	Teachers	
SEC-516	Assessment and Evaluation for	3 credits
	Humanities Teachers	
SEC-525	Methods and Strategies for Middle	3 credits
	and High School Teachers	
SEC-545	Differentiated Literacy Instruction:	3 credits
	Assessment, Remediation &	
	Intervention	
ESL-545	Methods of Structured English	3 credits
	Immersion for Secondary Education	
SEC-530	Integrating Humanities Methods for	3 credits
<u>. — </u>	Middle and High School Instruction	

Student teaching must be taken as the last course in the program.

SEC-590 <sup>Ω</sup>	Student Teaching: Secondary	8 credits
	Education	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

an Emphasis in Humanities

Master of Education in Secondary Education with an Emphasis in Humanities	41 credits

Total Practicum/Field Experience Hours

101 hours

### Master of Education in Secondary Education with an Emphasis in Humanities (IP/Non-TL)

#### (Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

Grand Canyon University's Master of Education in Secondary Education with Emphasis in Humanities ITL program is designed for candidates interested in the education of children in the Humanities areas in grades 5-12. The format and courses of this regionally accredited and Arizona-approved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education, humanities, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practicebased experiences. This program does not lead to licensure.

#### **Degree Requirements**

$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary Education for Graduate Students	3 credits
POS-500	U.S. and Arizona Constitution for	3 credits
10000	Teacher Candidates	
SEC-506	Early Adolescent and Adolescent	3 credits
	Psychology	
SPD-500	Survey of Special Education: Mild	3 credits
	to Moderate Disabilities	
SEC-510	Creating and Managing Engaging	3 credits
	Learning Environments	
SEC-581	Middle and Secondary Curriculum	3 credits
	and Instruction for Humanities	
	Teachers	
SEC-516	Assessment and Evaluation for	3 credits
	Humanities Teachers	
SEC-525	Methods and Strategies for Middle	3 credits
	and High School Teachers	
SEC-545	Differentiated Literacy Instruction:	3 credits
	Assessment, Remediation &	
	Intervention	
ESL-545	Methods of Structured English	3 credits
	Immersion for Secondary Education	
SEC-530	Integrating Humanities Methods for	3 credits
	Middle and High School Instruction	
Master of Ed	ucation in Secondary Education with	33 credits
an Emphasis in Humanities		
	um/Field Experience Hours	101 hours

### Master of Education in Secondary Humanities Education (IP/TL) Nevada ARL

#### (Initial Program-Leads to Teacher Licensure)

Grand Canyon University's Master of Education in Secondary Humanities Education program is designed for candidates interested in the education of adolescents and young adults in language arts, social studies, art or music in grades 6-12 who are also seeking alternative route licensure in the state of Nevada. The format and courses of this regionally accredited and Nevadaapproved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of secondary education, humanities, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 101 hours of observational and practice-based experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are required to produce documentation of successful completion of required Nevada teaching exams that include content exams in language arts, social studies, art, or music in order to progress in this program.

#### **Degree Requirements**

$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary Education for Graduate Students	3 credits
<u>EDU-526</u> <sup>Ω</sup>	Family and Community Engagement	3 credits
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
<u>POS-500</u>	U.S. and Arizona Constitution for Teacher Candidates	3 credits
<u>SEC-506</u>	Early Adolescent and Adolescent Psychology	3 credits
<u>SEC-510</u>	Creating and Managing Engaging Learning Environments	3 credits
<u>SEC-516</u>	Assessment and Evaluation for Humanities Teachers	3 credits
<u>SEC-525</u>	Methods and Strategies for Middle and High School Teachers	3 credits
SEC-540	Adolescent Literacy	3 credits
<u>SEC-530</u>	Integrating Humanities Methods for Middle and High School Instruction	3 credits
<u>ESL-545</u>	Methods of Structured English Immersion for Secondary Education	3 credits
<u>SEC-581</u>	Middle and Secondary Curriculum and Instruction for Humanities	3 credits
<u>SEC-590</u> <sup>Ω</sup>	Teachers Student Teaching: Secondary Education	8 credits
Master of Ed Education	lucation in Secondary Humanities	44 credits
Total Practicum/Field Experience Hours		128 hours

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### Master of Education in Secondary Education with an Emphasis in STEM (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Secondary Education with Emphasis in STEM ITL program is designed for candidates interested in the education of children in STEM areas in grades 5-12 who are also seeking initial teaching licensure. The format and courses of this regionally accredited and Arizonaapproved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education, STEM, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practice-based experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval. Teacher candidates are required to produce documentation of successful completion of the content area exam(s) in a STEM field in order to student teach. Teacher candidates who student teach in a middle grades setting may be eligible for the middle grades endorsement, in addition to the Secondary Education teacher license in the state of

#### **Degree Requirements**

$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary Education for Graduate Students	3 credits
POS-500	U.S. and Arizona Constitution for Teacher Candidates	3 credits
<u>SEC-506</u>	Early Adolescent and Adolescent Psychology	3 credits
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
<u>SEC-510</u>	Creating and Managing Engaging Learning Environments	3 credits
<u>SEC-582</u>	Middle and Secondary Curriculum and Instruction for STEM Teachers	3 credits
SEC-517	Assessment and Evaluation for STEM Teachers	3 credits
<u>SEC-525</u>	Methods and Strategies for Middle and High School Teachers	3 credits
<u>SEC-545</u>	Differentiated Literacy Instruction: Assessment, Remediation &	3 credits
<u>ESL-545</u>	Intervention Methods of Structured English Immersion for Secondary Education	3 credits
<u>SEC-520</u>	Integrating STEM Methods for Middle and High School Instruction	3 credits

Student teaching must be taken as the last course in the program.

<u>SEC-590</u> <sup>Ω</sup>	Student Teaching: Secondary Education	8 credits
Master of Education in Secondary Education with an Emphasis in STEM		41 credits
Total Practicum/Field Experience Hours		101 hours

### Master of Education in Secondary Education with an Emphasis in STEM (Non-IP/TL)

#### (Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

Grand Canyon University's Master of Education in Secondary Education with Emphasis in STEM program is designed for candidates interested in the education of children in STEM areas in grades 6-12. The format and courses of this regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of secondary education, STEM, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in secondary education field experiences that guide students through 100 hours of observational and practice-based experiences. This program does not lead to licensure.

#### **Degree Requirements**

Degree Requ	in chiches	
$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary	3 credits
	Education for Graduate Students	
POS-500	U.S. and Arizona Constitution for	3 credits
	Teacher Candidates	
SEC-506	Early Adolescent and Adolescent	3 credits
	Psychology	
SPD-500	Survey of Special Education: Mild	3 credits
	to Moderate Disabilities	
SEC-510	Creating and Managing Engaging	3 credits
	Learning Environments	
SEC-582	Middle and Secondary Curriculum	3 credits
	and Instruction for STEM Teachers	
SEC-517	Assessment and Evaluation for	3 credits
<u>520 517</u>	STEM Teachers	
SEC-525	Methods and Strategies for Middle	3 credits
	and High School Teachers	
SEC-545	Differentiated Literacy Instruction:	3 credits
	Assessment, Remediation &	
	Intervention	
ESL-545	Methods of Structured English	3 credits
202 0 .0	Immersion for Secondary Education	
SEC-520	Integrating STEM Methods for	3 credits
<u>520 520</u>	Middle and High School Instruction	
Master of Ea	33 credits	
Master of Education in Secondary Education with an Emphasis in STEM		
		101 hours
Total Practic	cum/Field Experience Hours	101 Hours

### Master of Education in Secondary STEM Education (IP/TL) Nevada ARL

#### (Initial Program-Leads to Teacher Licensure)

Grand Canyon University's Master of Education in Secondary STEM Education program is designed for candidates interested in the education of adolescents and young adults in the Science, Technology, Engineering and Mathematics (STEM) areas in grades 6-12 who are also seeking alternative route licensure in the state of Nevada. The format and courses of this regionally

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

accredited and Nevada-approved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of secondary education, STEM, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC) and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program. but particularly in secondary education field experiences that guide students through 101 hours of observational and practicebased experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are required to produce documentation of successful completion of required Nevada teaching exams that include content exams in biology, physics, or mathematics in order to progress in this program.

#### **Degree Requirements**

$\underline{\text{SEC-502}}^{\Omega}$	Foundations in Secondary Education for Graduate Students	3 credits
<u>EDU-526</u> <sup>Ω</sup>	Family and Community Engagement	3 credits
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
<u>POS-500</u>	U.S. and Arizona Constitution for Teacher Candidates	3 credits
<u>SEC-506</u>	Early Adolescent and Adolescent Psychology	3 credits
<u>SEC-510</u>	Creating and Managing Engaging Learning Environments	3 credits
<u>SEC-517</u>	Assessment and Evaluation for STEM Teachers	3 credits
<u>SEC-525</u>	Methods and Strategies for Middle and High School Teachers	3 credits
<u>SEC-540</u>	Adolescent Literacy	3 credits
<u>SEC-520</u>	Integrating STEM Methods for Middle and High School Instruction	3 credits
<u>ESL-545</u>	Methods of Structured English Immersion for Secondary Education	3 credits
<u>SEC-582</u>	Middle and Secondary Curriculum and Instruction for STEM Teachers	3 credits
<u>SEC-590</u> <sup>Ω</sup>	Student Teaching: Secondary Education	8 credits
Master of Ed Education	ucation in Secondary STEM	44 credits
Total Practice	um/Field Experience Hours	128 hours

#### Master of Education in Special Education (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

This program is designed for any individual interested in the education of children with mild to moderate special needs in the K-12 setting who also wish to seek initial teaching licensure. The format and courses of this regionally accredited and Arizona-approved program are tailored to meet the needs of adult learners and to maximize strengths that teacher candidates already possess. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, emotional and behavioral disabilities, and other physical and cognitive impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles and Council for Exceptional

Children Standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide teacher candidates through observational and practice-based experiences. Teacher candidates must have access to a K-12 special education classroom to complete the program assignments. The classroom setting must have mild to moderate disability categories represented, which may include: emotional disability, learning disability, intellectual disability, physical impairment, and/or health impairment. Graduates of the program are prepared to work with special needs populations and implement individualized educational plans to accommodate various learning needs. Teacher candidates must be prepared to complete a full-time, 15-week student teaching component at the end of the program that must be completed with a certified special educator. Students/applicants are responsible for contacting their state department of education for licensure requirements and program approval. The student/applicant should consult the Grand Canyon Academic Catalog, the University Policy Handbook, and an academic advisor to obtain information regarding current policies and procedures inherent in an initial teacher licensure program.

#### **Degree Requirements**

$\underline{\text{SPD-501}^{\Omega}}$	Foundations in Special Education Graduate Studies	3 credits
<u>SPD-500</u>	Survey of Special Education: Mild to Moderate Disabilities	3 credits
<u>SPD-510</u>	Professional, Ethical and Legal Practices and Policies in Special Education	3 credits
<u>SPD-521</u>	Collaborations and Communications in Special Education	3 credits
<u>SPD-531</u>	Assessment and Eligibility in Special Educ: Mild to Moderate Disability	3 credits
POS-500	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
<u>SPD-540</u>	Learning Environments for Students with Mild to Moderate Disabilities	3 credits
<u>SPD-550</u>	Instructional and Transitional Planning for Students with Mild to	3 credits
<u>SPD-578</u>	Moderate Disabilities Language Development Through Phonics and the Science of Reading	3 credits
ESL-546	Methods of Structured English Immersion for K-12 Education	3 credits
<u>SPD-570</u>	Methods of Teaching Math to Students with Mild to Moderate Disabilities	3 credits
<u>SPD-581</u>	Research Based Instruction, Remediation, and Intervention in ELA	3 credits

Student teaching must be taken as the last course in the program.

SPD-590 $^{\Omega}$	Student Teaching for Special	8 credits
	Education Teacher Candidates	
Master of Education in Special Education (IP/TL)		44 credits
Total Practic	cum/Field Experience Hours	99 hours

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **Master of Education in Special Education (IP/TL)**

#### (Initial Program-Leads to Initial Teacher Licensure)

#### Effective 09-26-2024

This program is designed for any individual interested in the education of children with mild to moderate special needs in the K-12 setting who also wish to seek initial teaching licensure. The format and courses of this regionally accredited and Arizonaapproved program are tailored to meet the needs of adult learners and to maximize strengths that teacher candidates already possess. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, emotional and behavioral disabilities, and other physical and cognitive impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles and Council for Exceptional Children Standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide teacher candidates through observational and practice-based experiences. Teacher candidates must have access to a K-12 special education classroom to complete the program assignments. The classroom setting must have mild to moderate disability categories represented, which may include: emotional disability, learning disability, intellectual disability, physical impairment, and/or health impairment. Graduates of the program are prepared to work with special needs populations and implement individualized educational plans to accommodate various learning needs. Teacher candidates must be prepared to complete a full-time, 15-week student teaching component at the end of the program that must be completed with a certified special educator. Students/applicants are responsible for contacting their state department of education for licensure requirements and program approval. The student/applicant should consult the Grand Canyon Academic Catalog, the University Policy Handbook, and an academic advisor to obtain information regarding current policies and procedures inherent in an initial teacher licensure program.

#### **Degree Requirements**

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SPD-514Ω	Foundations in Special Education Graduate Studies	3 credits	Degree Requ	uirements	
POS-501	U.S. and Arizona Constitutions for	3 credits	$SPD-501^{\Omega}$	Foundations in Special Education	3 credits
	Teacher Candidates			Graduate Studies	
MMS-508	Survey of Teaching Children with	3 credits	SPD-500	Survey of Special Education: Mild	3 credits
	Exceptionalities			to Moderate Disabilities	
MMS-510	Classroom Management and	3 credits	EDU-526 $^{\Omega}$		3 credits
	Collaboration			Engagement	
MMS-520	Instructional Planning for Special	3 credits	SPD-510	Professional, Ethical and Legal	3 credits
WIVIS 320	Education Students			Practices and Policies in Special	
ESL-546	Methods of Structured English	3 credits		Education	
<u> </u>	Immersion for K-12 Education		SPD-521	Collaborations and	3 credits
MMS-530	Language Development Through	3 credits		Communications in Special	
111110 000	Phonics and the Science of Reading			Education	
MMS-540	Assessment and Eligibility in	3 credits	SPD-531	Assessment and Eligibility in	3 credits
111110 0 10	Special Education			Special Educ: Mild to Moderate	
MMS-550	Research Based Instruction,	3 credits		Disability	
<u> </u>	Remediation, and Intervention in		SPD-540	Learning Environments for Students	3 credits
	ELA		·	with Mild to Moderate Disabilities	
MMS-560	Professional, Ethical and Legal	3 credits	SPD-550	Instructional and Transitional	3 credits
111110 000	Practices and Policies in Special		·	Planning for Students with Mild to	
	Education			Moderate Disabilities	
MMS-570	Case Management and Transition	3 credits	SPD-585	Educational Psychology for Special	3 credits
111110 570	Planning			Education	

Methods of Teaching Math to MMS-580 Students with Mild to Moderate Disabilities

Student teaching must be taken as the last course in the program.

MMS-590 $\Omega$	Student Teaching for Special	8 credits
·	Education Teacher Candidates	
Master of Education in Special Education (IP/TL)		44 credits
Total Practic	um/Field Experience Hours	100 hours

3 credits

#### Master of Education in Special Education (IP/TL) Nevada ARL

#### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Master of Education in Special Education program is designed for those who wish to seek an initial teaching licensure in Mild to Moderate Disabilities Special Education in grades K-12, who are also seeking alternative route licensure in the state of Nevada. The format and courses of this regionally accredited and Nevada-approved program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of mild to moderate disabilities in special Education, and educational psychology. All courses are directly aligned with standards from the Interstate Teacher Assessment and Support Consortium (InTASC), the Council for Exceptional Children (CEC) Initial Preparation Standards, and the International Society of Technology Educators (ISTE). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in special education field experiences that guide students through 97 hours of observational and practice-based experiences. The final semester of this program includes a full-time, 15-week student teaching component. Teacher candidates are required to produce documentation of successful completion of required Nevada teaching exams that include content exams in special education in order to progress in this program.

SPD-570	Methods of Teaching Math to	3 credits	
	Students with Mild to Moderate		
	Disabilities		
SPD-580	Methods of Teaching Lang Arts to	3 credits	
	Students with Mild/Moderate		
	Disabilities		
PCN-518	Human Growth and Development	3 credits	
Student teaching must be taken as the last course in the			
program.			
SPD-590 $^{\Omega}$	Student Teaching for Special	8 credits	
<u>51 D-370</u>	Education Teacher Candidates		
Master of Ed	ucation in Special Education (IP/TL)	47 credits	

Methods of Educating Learners

with Diverse Needs

SPD-595

3 credits

87 hours

### Master of Education in Special Education (IP/Non-TL)

Total Practicum/Field Experience Hours

#### (Initial Program-Does Not Lead to Teacher Licensure)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

Grand Canyon University's Master of Education in Special Education develops educators for special education opportunities not requiring licensure. This program is designed for any individual interested in the education of children with mild to moderate special needs in grades K-12, who does not seek initial teaching licensure. The format and courses of this regionally accredited program are tailored to meet the needs of adult learners and to maximize strengths that students already possess. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, emotional and behavioral disabilities, and other physical and cognitive impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles and Council for Exceptional Children Standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide educators through observational and practice-based experiences. Students must have access to a K-12 special education classroom to complete the program assignments. The classroom setting must have mild to moderate disability categories represented, which may include: autism, traumatic brain injury, emotional disability, learning disability, intellectual disability, physical impairment, and/or other health impairments. Traditionally, students graduating from a special education non licensure program have been interested in education-related jobs that do not require traditional teacher certifications, including parks and recreation, non-profits, workplace training and community programs. Graduates of the program are prepared to work with special needs populations and implement individualized educational plans to accommodate various learning needs. The student/applicant should consult the Grand Canyon Academic Catalog, the University Policy Handbook, and an academic advisor to obtain information regarding current policies and procedures inherent in a non-licensure program.

#### **Degree Requirements**

SPD- $501^{\Omega}$	Foundations in Special Education	3 credits
	Graduate Studies	

SPD-500	Survey of Special Education: Mild	3 credits
<u>SPD-510</u>	to Moderate Disabilities Professional, Ethical and Legal Practices and Policies in Special	3 credits
<u>SPD-521</u>	Education Collaborations and Communications in Special	3 credits
<u>SPD-531</u>	Education Assessment and Eligibility in Special Educ: Mild to Moderate	3 credits
POS-500	Disability U.S. and Arizona Constitutions for Teacher Candidates	3 credits
SPD-540	Learning Environments for Students	3 credits
<u>SPD-550</u>	with Mild to Moderate Disabilities Instructional and Transitional Planning for Students with Mild to	3 credits
CDD 570	Moderate Disabilities Language Development Through	3 credits
<u>SPD-578</u>	Phonics and the Science of Reading	3 credits
ESL-546	Methods of Structured English	3 credits
<u>SPD-570</u>	Immersion for K-12 Education Methods of Teaching Math to Students with Mild to Moderate	3 credits
<u>SPD-580</u>	Disabilities Methods of Teaching Lang Arts to Students with Mild/Moderate Disabilities	3 credits
Master of Ed	lucation in Special Education	36 credits
Total Practicum/Field Experience Hours		99 hours

### Master of Education in Special Education (IP/Non-TL)

### (Initial Program—Does Not Lead to Teacher Licensure) Effective 09-26-2024

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

Grand Canyon University's Master of Education in Special Education develops educators for special education opportunities not requiring licensure. This program is designed for any individual interested in the education of children with mild to moderate special needs in grades K-12, who does not seek initial teaching licensure. The format and courses of this regionally accredited program are tailored to meet the needs of adult learners and to maximize strengths that students already possess. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, emotional and behavioral disabilities, and other physical and cognitive impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles and Council for Exceptional Children Standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide educators through observational and practice-based experiences. Students must have access to a K-12 special education classroom to complete the program assignments. The classroom setting must have mild to moderate disability categories represented, which may include: autism, traumatic brain injury, emotional disability, learning disability, intellectual disability, physical impairment, and/or other health impairments.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Traditionally, students graduating from a special education non licensure program have been interested in education-related jobs that do not require traditional teacher certifications, including parks and recreation, non-profits, workplace training and community programs. Graduates of the program are prepared to work with special needs populations and implement individualized educational plans to accommodate various learning needs. The student/applicant should consult the Grand Canyon Academic Catalog, the University Policy Handbook, and an academic advisor to obtain information regarding current policies and procedures inherent in a non-licensure program.

#### **Degree Requirements**

SPD-514 $\Omega$	Foundations in Special Education	3 credits
	Graduate Studies	
POS-501	U.S. and Arizona Constitutions for	3 credits
	Teacher Candidates	
MMS-508	Survey of Teaching Children with	3 credits
	Exceptionalities	
MMS-510	Classroom Management and	3 credits
	Collaboration	
MMS-520	Instructional Planning for Special	3 credits
	Education Students	
ESL-546	Methods of Structured English	3 credits
<u> </u>	Immersion for K-12 Education	
MMS-530	Language Development Through	3 credits
	Phonics and the Science of Reading	
MMS-540	Assessment and Eligibility in	3 credits
	Special Education	
MMS-550	Research Based Instruction,	3 credits
	Remediation, and Intervention in	
	ELA	
MMS-560	Professional, Ethical and Legal	3 credits
	Practices and Policies in Special	
	Education	
MMS-570	Case Management and Transition	3 credits
	Planning	
MMS-580	Methods of Teaching Math to	3 credits
	Students with Mild to Moderate	
	Disabilities	
Master of Ed	ucation in Special Education	36 credits
Total Practicum/Field Experience Hours		100 hours

#### Master of Education in Special Education: Moderate to Severe (IP/TL)

#### (Initial Program-Leads to Initial Teacher Licensure)

The Master of Education in Special Education Moderate to Severe (eligible for Institutional Recommendation/Credential) is designed for individuals with a bachelor's degree in any field who are interested in the education of children with moderate to severe special needs in the K-12 setting. This program prepares candidates seeking initial teaching licensure in the special education area of moderate to severe. Graduates of the program are prepared to work with individuals with moderate to severe exceptionalities and implement individualized educational plans to accommodate various student needs. Teacher candidates study topics such as ethical and legal practices; collaboration with internal and external stakeholders; diagnosis and assessment in special education; characteristics of intellectual disabilities and other physical and health impairments; the implementation of communication and behavior strategies; and the use of assistive technologies for individuals with moderate to severe exceptionalities. Classroom management methods, classroom

structures, and educational planning are also explored. The special education degree program concludes with a full-time, 15-week student teaching component that must be completed with a certified special educator. In order to complete the 103 hours of field experience and student teaching requirement, teacher candidates must have access to K-12 special education settings with a moderate to severe population.

#### **Degree Requirements**

$\underline{\text{SPD-501}^{\Omega}}$	Foundations in Special Education Graduate Studies	3 credits
POS-500	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
<u>SPD-506</u>	Survey of Moderate to Severe Special Education	3 credits
<u>SPD-551</u>	Moderate to Severe: Professional, Ethical, and Legal Practices	3 credits
<u>SPD-556</u>	Assessment and Eligibility in Moderate to Severe Special Education	3 credits
<u>SPD-558</u>	Moderate to Severe: Care, Collaboration, and Communication	3 credits
<u>SPD-562</u>	Moderate to Severe: Instructional Planning, Strategies, and Assessment	3 credits
<u>SPD-564</u>	Moderate to Severe: Classroom Management and Behavior Analysis	3 credits
<u>SPD-566</u>	Postsecondary Transitional Planning for Moderate to Severe	3 credits
SPD-569	Exceptionalities Applying Phonics and the Science of Reading in Adaptive Communication	3 credits
ESL-546	Methods of Structured English Immersion for K-12 Education	3 credits
<u>SPD-572</u>	Moderate to Severe: Methods of Teaching Functional Mathematics	3 credits
SPD-587	and Science Research Based Instruction, Remediation, and Intervention in Functional ELA	3 credits
Student teac program.	hing must be taken as the last course in	the
$\underline{\text{SPD-592}^{\Omega}}$	Student Teaching for Special Education: Moderate to Severe	8 credits
Master of E	ducation in Special Education:	47 credits

#### Master of Education in Special Education: Moderate to Severe (IP/TL)

Moderate to Severe (IP/TL)

Total Practicum/Field Experience Hours

### (Initial Program-Leads to Initial Teacher Licensure) Effective 04/10/2025

Grand Canyon University's Master of Education in Special Education Moderate to Severe (ITL) program is designed for candidates interested in the teaching of children and young adults with moderate to severe exceptionalities in the K-12 setting who also wish to seek initial teaching licensure. Graduates of the program are prepared to work with K-12 students with moderate to severe exceptionalities and implement individualized educational programs (IEPs) to help these students reach their fullest potential. Courses are taught by experts in their respective

103 hours

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

fields who share knowledge and experience in areas including intellectual disability, autism, traumatic brain injury, emotional disability, specific learning disability, orthopedic impairments, developmental delay, and other health impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, International Society of Technology Educators (ISTE), Council for Exceptional Children (CEC), and Association for Advancing Quality in Educator Preparation (AAQEP) standards. Teacher candidates study topics such as ethical and legal practices; collaboration with internal and external stakeholders; diagnosis and assessment in special education; characteristics of disabilities and disorders; the implementation of communication and behavior strategies; and the use of assistive technologies for individuals with moderate to severe exceptionalities. Classroom management methods, classroom structures, and educational planning are also explored. Opportunities are provided to apply concepts, theories, and research throughout the program. Field experience assignments within specific courses guide teacher candidates through 100 hours of observational and practice-based experiences. The special education degree program concludes with a full-time, 15-week student teaching component that must be completed with a certified special educator. In order to complete the 100 hours of field experience and student teaching requirement, teacher candidates must have access to K-12 special education settings serving a population of students with moderate to severe exceptionalities. Teacher candidates are responsible for contacting their state department of education for licensure requirements and program approval.

#### **Degree Requirements**

<u>SPD-514</u> Ω	Foundations in Special Education	3 credits	Degree Req	uirements	
POS-501	Graduate Studies U.S. and Arizona Constitutions for Teacher Candidates	3 credits	$\underline{\text{SPD-501}^{\Omega}}$	Foundations in Special Education Graduate Studies	3 credits
MSS-508	Survey of Teaching Children with	3 credits	POS-500	U.S. and Arizona Constitutions for Teacher Candidates	3 credits
MSS-510	Moderate to Severe Exceptionalities Case Management, Collaboration, and Communication	3 credits	<u>SPD-506</u>	Survey of Moderate to Severe Special Education	3 credits
MSS-520	Classroom Management and	3 credits	<u>SPD-551</u>	Moderate to Severe: Professional, Ethical, and Legal Practices	3 credits
MSS-530	Supporting Challenging Behaviors Instruction and Assessment for	3 credits	<u>SPD-556</u>	Assessment and Eligibility in Moderate to Severe Special	3 credits
<u>MSS-540</u>	Moderate to Severe Exceptionalities The Science of Reading and Phonics for Effective Adaptive	3 credits	<u>SPD-558</u>	Education Moderate to Severe: Care,	3 credits
MSS-545	Communication Specialized ELA Instruction: Research, Remediation, and	3 credits	<u>SPD-562</u>	Collaboration, and Communication Moderate to Severe: Instructional Planning, Strategies, and Assessment	3 credits
MSS-550	Intervention Assessment and Eligibility in Moderate to Severe Special	3 credits	<u>SPD-564</u>	Moderate to Severe: Classroom Management and Behavior Analysis	3 credits
ESL-546	Education Methods of Structured English	3 credits	<u>SPD-566</u>	Postsecondary Transitional Planning for Moderate to Severe Exceptionalities	3 credits
MSS-560	Immersion for K-12 Education Professional, Ethical, and Legal Practices	3 credits	<u>SPD-569</u>	Applying Phonics and the Science of Reading in Adaptive	3 credits
MSS-570	Methods of Teaching Functional Mathematics and Science	3 credits	ESL-546	Communication Methods of Structured English Immersion for K-12 Education	3 credits
<u>MSS-580</u>	Transition Planning for Students with Moderate to Severe Exceptionalities	3 credits	<u>SPD-572</u>	Moderate to Severe: Methods of Teaching Functional Mathematics and Science	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Student teaching must be taken as the last course in the program.

MSS-590	Student Teaching for Moderate to	8 credits
	Severe Special Education	
Master of E	ducation in Special Education:	47 credits
Moderate to Severe (IP/TL)		
Total Practic	cum/Field Experience Hours	100 hours

#### **Master of Education in Special Education:** Moderate to Severe (IP/Non-TL)

#### (Initial Program–Does Not Lead to Teacher Licensure)

The Master of Education in Special Education Moderate to Severe (NITL) program is designed for individuals with a bachelor's degree in any field who are interested in the education of children with moderate to severe special needs. This program does not lead to teacher licensure. Graduates of the program are prepared to work with individuals with moderate to severe exceptionalities and implement individualized educational plans to accommodate various student needs. The program includes topics such as: ethical and legal practices; collaboration with internal and external stakeholders; diagnosis and assessment in special education; characteristics of intellectual disabilities and other physical and health impairments; the implementation of communication and behavior strategies; and the use of assistive technologies for individuals with moderate to severe exceptionalities. Classroom management methods, classroom structures, and educational planning are also explored. In order to complete the 103 hours of field experience, candidates must have access to K-12 special education settings with a moderate to severe population.

and Science

SPD-587	Research Based Instruction,	3 credits
	Remediation, and Intervention in	
	Functional ELA	
Master of Education in Special Education:		39 credits
Moderate to	Severe (IP/Non-TL)	
Total Practi	cum/Field Experience Hours	103 hours

#### Master of Education in Special Education: Moderate to Severe (IP/Non-TL)

### (Initial Program–Does Not Lead to Teacher Licensure) Effective 04/10/2025

Grand Canyon University's Master of Education in Special Education Moderate to Severe (NITL) program is designed for any individual interested in the education of children and young adults with moderate to severe exceptionalities in the K-12 setting. This program does not lead to teacher licensure. Graduates of the program are prepared to work with K-12 students with moderate to severe exceptionalities and implement individualized educational programs (IEPs) to help these students reach their fullest potential. Courses are taught by experts in their respective fields who share knowledge and experience in areas including intellectual disability, autism, traumatic brain injury, emotional disability, specific learning disability, orthopedic impairments, developmental delay, and other health impairments. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles, International Society of Technology Educators (ISTE), Council for Exceptional Children (CEC), and Association for Advancing Quality in Educator Preparation (AAQEP) standards. The program includes topics such as: ethical and legal practices; collaboration with internal and external stakeholders; diagnosis and assessment in special education; characteristics of disabilities and disorders; the implementation of communication and behavior strategies; and the use of assistive technologies for individuals with moderate to severe exceptionalities. Classroom management methods, classroom structures, and educational planning are also explored. Opportunities are provided to apply concepts, theories, and research throughout the program. Field experience assignments within specific courses guide candidates through 100 hours of observational and practice-based experiences. In order to complete the 100 hours of field experience, candidates must have access to K-12 special education settings serving a population of students with moderate to severe exceptionalities.

#### **Degree Requirements**

SPD-514 Ω	Foundations in Special Education	3 credits
	Graduate Studies	
POS-501	U.S. and Arizona Constitutions for	3 credits
	Teacher Candidates	
MSS-508	Survey of Teaching Children with	3 credits
	Moderate to Severe Exceptionalities	
MSS-510	Case Management, Collaboration,	3 credits
	and Communication	
MSS-520	Classroom Management and	3 credits
11100 020	Supporting Challenging Behaviors	
MSS-530	Instruction and Assessment for	3 credits
1.122 220	Moderate to Severe Exceptionalities	
MSS-540	The Science of Reading and	3 credits
	Phonics for Effective Adaptive	
	Communication	

MSS-545	Specialized ELA Instruction: Research, Remediation, and	3 credits
MSS-550	Intervention Assessment and Eligibility in Moderate to Severe Special Education	3 credits
ESL-546	Methods of Structured English Immersion for K-12 Education	3 credits
MSS-560	Professional, Ethical, and Legal Practices	3 credits
MSS-570	Methods of Teaching Functional Mathematics and Science	3 credits
MSS-580	Transition Planning for Students with Moderate to Severe Exceptionalities	3 credits
	ducation in Special Education: Severe (IP/Non-TL)	39 credits
Total Practic	cum/Field Experience Hours	100 hours

### Master of Science in Instructional Design (AP/CPE)

The Master of Science in Instructional Design program is designed for professionals who wish to further their skills in instructional design and/or curriculum development, as well as the use of emerging technology for training purposes. In this program, students learn to apply theory, research, analysis, and problem-solving skills to solve a variety of issues related to training, education, and organizational performance. The program helps students build their research skills, so they can collect and analyze appropriate data to make evidence-driven design decisions. Students learn to use learning theories, instructional design models, and design thinking in the analysis, design, development, implementation, and evaluation of instructional interventions. Students also develop the skills necessary to create, assess, and manage training materials using technology and multimedia tools. The combination of these skills will help students to identify learning needs, determine desired outcomes, and create learning interventions within educational institutions and corporate training environments. Learning theory and systematic design approaches are the fundamentals of instructional design that are accomplished in this program. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of curriculum and instructional design. Technology Requirement: Students are responsible for providing their own Adobe Captivate software and a computer that meets the technical requirements to run the software. The version of Adobe Captivate should not be older than the 2019 release. Verify the University Technology Requirements and Programmatic Technology Requirements in the University Policy Handbook available on www.gcu.edu.

#### **Degree Requirements**

UNV- $501^{\Omega}$	Introduction to Graduate Studies in the	2 credits
	College of Education	
TCH-520	Brain-Based Learning	3 credits
TCH-539	Introduction to Educational Research	3 credits
EID-500	Introduction to Instructional Design	3 credits
EDU-522	Curriculum Design Theories	3 credits
EID-505	Multimedia for Learning	3 credits
EID-510	Systematic Design of Instruction	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

EID-515	Learning Experience Design and Development	3 credits
EID-520	Research and Evaluation for Systems	3 credits
EID-525	and Experiences Organizational Performance and	3 credits
<u>EID-590</u> <sup>Ω</sup>	Workplace Learning Instructional Design Capstone	3 credits

Master of Science in Instructional Design

32 credits

### Master of Science in Instructional Technology (AP/CPE)

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Science in Instructional Technology program is designed for current teaching professionals who have an interest in becoming a technology specialist or coach. The format and courses of this regionally accredited program are aligned to the International Society for Technology in Education (ISTE) Standards for Coaches, and the Interstate Teacher Assessment and Support Consortium (InTASC) standards. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of technology-based instructional theories and models, digital literacies and new media, ethical and equitable technology integration, technology for student assessment, multimedia instructional strategies, distance learning, andragogy and coaching. This program includes field experiences that help develop the students understanding of the complexity of being a leader in the school setting, classroom technology use and training, development of a vision for technology, and ensuring smooth day-to-day technology integration in teaching. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through 120 hours of observational and practice-based experiences. Candidates must have access to a K-12 school classroom with technology to complete the capstone course and program assignments. Graduates of the program are prepared to become leaders in technology at the K-12 classroom, school, and district levels.

#### **Degree Requirements**

$\underline{UNV\text{-}501^{\Omega}}$	Introduction to Graduate Studies in the College of Education	2 credits
TCH-520	Brain-Based Learning	3 credits
TCH-539	Introduction to Educational Research	3 credits
<u>TEC-516</u>	Instructional Theories and Models in Technology Education	3 credits
<u>TEC-521</u>	Digital Literacies, Virtual Tools, and New Media	3 credits
<u>TEC-530</u>	Ethics, Culture, and Equity with Technology	3 credits
<u>TEC-536</u>	Assessment and Instructional Technology	3 credits
<u>TEC-561</u>	Multimedia Instructional Strategies and Methods	3 credits
TEC-541	Distance Learning	3 credits
TEC-544	Leadership and Technology Coaching	3 credits
<u>TEC-595</u> Ω	Instructional Technology Capstone	3 credits
Master of Sc	cience in Instructional Technology	32 credits

### Master of Science in Instructional Technology (AP/CPE) *Effective December 2025*

#### (Advanced Program for Continuing Professional Education)

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Master of Science in Instructional Technology program is designed for current teaching professionals who have an interest in becoming a technology specialist or coach. The format and courses of this regionally accredited program are aligned with the International Society for Technology in Education (ISTE) Standards for Coaches and the Interstate Teacher Assessment and Support Consortium (InTASC) standards. Courses are taught by experts in their respective fields who share knowledge and experience in the areas of technology-based instructional theories and models, digital literacies and new media, ethical and equitable technology integration, technology for student assessment, multimedia instructional strategies, distance learning, andragogy, and coaching. This program includes field experiences that help develop the students' understanding of the complexity of being a leader in the school setting, classroom technology use and training, development of a vision for technology, and ensuring smooth day-to-day technology integration in teaching. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guide students through 60 hours of observational and practice-based experiences. Candidates must have access to a K-12 school classroom with technology to complete the capstone course and program assignments. Graduates of the program are prepared to become leaders in technology at the K-12 classroom, school, and district levels.

#### **Degree Requirements**

$\underline{UNV\text{-}501^\Omega}$	Introduction to Graduate Studies in the College of Education	2 credits
TCH-520	Brain-Based Learning	3 credits
TCH-539	Introduction to Educational Research	3 credits
TEC-517	Instructional Technology Essentials	3 credits
TEC-522	Artificial Intelligence in Education	3 credits
TEC-532	Technology for Planning and	3 credits
<u>TEC-533</u>	Organization Assessment and Instructional Technology	3 credits
<u>TEC-562</u>	Multimedia Instructional Strategies and Methods	3 credits
TEC-543	Distance Learning	3 credits
TEC-548	Leadership and Technology Coaching	3 credits
TEC-597 <sup>Ω</sup>	Instructional Technology Capstone	3 credits
Master of Sc	cience in Instructional Technology	32 credits

### Graduate Certificate of Completion Canyon L.E.A.P. to Teach, Elementary Education

The Canyon L.E.A.P. to Teach pathway, Elementary Education Graduate Certificate of Completion pathway option is intended for candidates interested in becoming a teacher of record in their elementary classroom by pursuing a non-traditional route to teacher licensure with the support of their school district. The structured pathway prepares teacher candidates for an elementary education certification through an immersive learning experience

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

that includes daytime teaching, LEA provides professional development and mentor support, Grand Canyon University (GCU) College of Education graduate coursework and Grand Canyon Education (GCE) Canyon Professional Development. The post baccalaureate certificate serves as an alternative route for entering the field of education to champion students mental, emotional and social development, as well as to provide students with an academic foundation and passion for learning. Canyon L.E.A.P. to Teach candidates will have the opportunity to complete coursework. LEA provided professional development and Grand Canyon Education professional development with the support of all three stakeholders. Starting with a week-long in person boot camp before the fall semester begins, candidates will continue their development in partnership with GCU, GCE and the LEA through two formal LEA evaluations, two informal GCU observations each semester, and two GCE coaching sessions each semester. During the year, candidates will also complete four online GCU teacher education courses, four in person Saturday workshops, a culminating capstone, and LEAled professional development and mentoring. This three-pronged approach ensures that the candidates are well-supported in the pathway as they develop their pedagogical skills.

#### **Degree Requirements**

<u>TCH-505</u>	Introduction to Teaching Strategies and Professionalism Expectations	2 credits
	•	
ELM-545	Phonics and the Science of Reading	3 credits
ELM-526	Literacy Intervention and Remediation	3 credits
ESL-540	Methods of Structured English	3 credits
	Immersion for Elementary Education	
SPD-508	Survey of Special Education: Teaching	3 credits
	Children with Exceptionalities	
TCH-506	Enhanced Learning Plans for Diverse	2 credits
	Classrooms Capstone	
Graduate Ce	ertificate of Completion Canyon	16 credits
	Teach, Elementary Education	

### **Graduate Certificate of Completion Canyon L.E.A.P. to Teach, Secondary Education**

The Canyon L.E.A.P. to Teach, Secondary Education Graduate Certificate of Completion pathway option is intended for candidates interested in becoming a teacher of record in their secondary classroom by pursuing a non-traditional route to teacher licensure with the support of their school district. The structured pathway prepares teacher candidates for a secondary education certification through an immersive learning experience that includes daytime teaching, LEA provides professional development and mentor support, Grand Canyon University (GCU) College of Education graduate coursework and Grand Canvon Education (GCE) Canvon Professional Development. The post baccalaureate certificate serves as an alternative route for entering the field of education to champion students mental, emotional and social development, as well as to provide students with an academic foundation and passion for learning. Canyon L.E.A.P. to Teach candidates will have the opportunity to complete coursework, LEA provided professional development and Grand Canyon Education curriculum with the support of all three stakeholders. Starting with a week-long in person boot camp before the fall semester begins, candidates will continue their development in partnership with GCU, GCE and the LEA through two formal LEA evaluations, two informal GCU observations each semester, and two GCE coaching sessions each semester. During the year, candidates will also complete four

online GCU teacher education courses, four Saturday workshops, a culminating 2 week-long capstone session, and LEA-led professional development and mentoring. This three-pronged approach ensures that the candidates are well-supported in the pathway as they develop their pedagogical skills.

#### **Degree Requirements**

TCH-505	Introduction to Teaching Strategies and	2 credits
	Professionalism Expectations	2 11.
SEC-510	Creating and Managing Engaging	3 credits
	Learning Environments	
SEC-545	Differentiated Literacy Instruction:	3 credits
	Assessment, Remediation &	
	Intervention	
ESL-545	Methods of Structured English	3 credits
	Immersion for Secondary Education	
SPD-508	Survey of Special Education: Teaching	3 credits
	Children with Exceptionalities	
TCH-506	Enhanced Learning Plans for Diverse	2 credits
	Classrooms Capstone	
Graduate Ce	ertificate of Completion Canyon	16 credits
L.E.A.P. to Teach, Secondary Education		

### **Graduate Certificate of Completion in Distance Learning**

The Graduate Certificate of Completion in Distance Learning explores instructional theories and models in technology education, assessment and instructional technology, and multimedia instructional strategies and methods in preparation for distance learning opportunities.

#### **Degree Requirements**

TEC-516	Instructional Theories and Models in	3 credits
	Technology Education	
TEC-521	Digital Literacies, Virtual Tools, and	3 credits
	New Media	
TEC-536	Assessment and Instructional	3 credits
	Technology	
TEC-561	Multimedia Instructional Strategies and	3 credits
	Methods	
TEC-541	Distance Learning	3 credits
TEC-596	Distance Learning Capstone	1 credit
Graduate Ce	ertificate of Completion in Distance	16 credits
Learning	-	

#### **Graduate Certificate in Instructional Coaching**

The instructional coach certificate program prepares students to guide and support professionals in the field of education through the role of an instructional coach. The certificate presents foundational coaching skills as well as the proper tools to implement support strategies in the areas of curriculum instruction, leadership, professional development, and student learning needs. Students will develop research skills within the field of education to successful guide and support teachers working within the educational environment.

#### **Degree Requirements**

TCH-539	Introduction to Educational	3 credits
	Research	o crearis
EDU-585	Designing Effective Professional	3 credits
	Development	
EAD-523	Developing Professional Capacity	3 credits
21.12		

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

EAD-530	Improving Teacher Performance and Self-efficacy	3 credits
EDU-537	Leadership and Instructional Coaching	3 credits

Graduate Certificate in Instructional Coaching 15 credits

#### Graduate Certificate in Instructional Coaching Effective December 2025

The Instructional Coaching Certificate program prepares students to guide and support professionals in the field of education through the role of an instructional coach. The certificate presents foundational coaching skills as well as the proper tools to implement support strategies in the areas of curriculum instruction, leadership, professional development, and student learning needs. Students will develop skills to successfully guide and support teachers working within the educational environment.

#### **Degree Requirements**

EDL-577	Leading Projects and Teams	3 credits
EDU-527	Leadership in Curriculum	3 credits
<u>EDU-556</u>	Methods of Instruction and Assessment	3 credits
<u>EDU-585</u>	Designing Effective Professional Development	3 credits
EDU-584	Instructional Coaching	3 credits
Graduate Co	ertificate in Instructional Coaching	15 credits

### **Graduate Certificate in Learning Behavior Specialist 1 (LBS 1)**

This certification includes 12 credits of coursework to meet Illinois Learning Behavior Specialist 1 Endorsement. The LBS1 endorsement is preparing educators for teaching students with a wide range of disabilities, ages 5-21, in various instructional delivery models that include teaching in inclusionary settings through consultations and collaborative teaching.

#### **Degree Requirements**

<u>SPD-508</u>	Survey of Special Education: Teaching Children with	3 credits
	Exceptionalities	
GDD 510	Characteristics of Exceptional	3 credits
<u>SPD-512</u>	Students: Mild to Moderate	3 Creares
SPD-531	Assessment and Eligibility in	3 credits
	Special Educ: Mild to Moderate	
	Disability	
SPD-550	Instructional and Transitional	3 credits
	Planning for Students with Mild to	
	Moderate Disabilities	
Graduate Co	ertificate in Learning Rehavior	12 credits

Graduate Certificate in Learning Behavior Specialist 1 (LBS1)

### Graduate Certificate of Completion: Special Education, Mild to Moderate

The Graduate Certificate of Completion: Special Education, Mild to Moderate allows candidates to complete requirements associated with the Special Education Mild/Moderate Disabilities endorsement from the Arizona Department of Education. Certificate will include practicum and coursework in the following areas: methods of teaching students with disabilities, behavior management for students with disabilities, special

education law, special education assessment and individualized education program planning, and language development and disorders.

#### **Degree Requirements**

Education, Mild to Moderate

<u>SPD-510</u>	Professional, Ethical and Legal Practices and Policies in Special	3 credits
	Education	
SPD-531	Assessment and Eligibility in Special	3 credits
	Educ: Mild to Moderate Disability	
SPD-540	Learning Environments for Students	3 credits
	with Mild to Moderate Disabilities	
SPD-570	Methods of Teaching Math to Students	3 credits
	with Mild to Moderate Disabilities	
SPD-578	Language Development Through	3 credits
	Phonics and the Science of Reading	
SPD-581	Research Based Instruction,	3 credits
222 001	Remediation, and Intervention in ELA	
Graduate Ce	ertificate of Completion: Special	18 credits

#### Graduate Certificate of Completion: Special Education, Mild to Moderate - Effective on 10-16-2025

The Graduate Certificate of Completion: Special Education, Mild to Moderate allows candidates to complete requirements associated with the Special Education Mild/Moderate Disabilities endorsement from the Arizona Department of Education. Certificate will include practicum and coursework in the following areas: methods of teaching students with disabilities, behavior management for students with disabilities, special education law, special education assessment and individualized education program planning, and language development and disorders.

#### **Degree Requirements**

MMS-510	Classroom Management and	3 credits
	Collaboration	3 credits
<u>MMS-530</u>	Language Development Through Phonics and the Science of Reading	5 credits
MMS-540	Assessment and Eligibility in Special	3 credits
	Education	
MMS-550	Research Based Instruction,	3 credits
	Remediation, and Intervention in ELA	
MMS-560	Professional, Ethical and Legal	3 credits
	Practices and Policies in Special	
	Education	
MMS-580	Methods of Teaching Math to Students	3 credits
	with Mild to Moderate Disabilities	
Graduate Ce	ertificate of Completion: Special	18 credits
Education, Mild to Moderate		

## **Graduate Certificate of Completion: Special Education, Moderate to Severe**

The Graduate Certificate of Completion: Special Education, Moderate to Severe allows candidates to complete requirements associated with the Special Education Moderate/Severe Disabilities endorsement from the Arizona Department of Education. Certificate will include practicum and coursework in the following areas: behavior management for students with disabilities, special education law, special education assessment and individualized education program planning, methods for

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

teaching students with severe disabilities, and adaptive communication, including language development and disorders.

**Degree Requirements** 

SPD-551	Moderate to Severe: Professional,	3 credits
	Ethical, and Legal Practices	
SPD-556	Assessment and Eligibility in Moderate	3 credits
	to Severe Special Education	
SPD-564	Moderate to Severe: Classroom	3 credits
	Management and Behavior Analysis	
SPD-569	Applying Phonics and the Science of	3 credits
	Reading in Adaptive Communication	
SPD-572	Moderate to Severe: Methods of	3 credits
	Teaching Functional Mathematics and	
	Science	
SPD-587	Research Based Instruction,	3 credits
	Remediation, and Intervention in	
	Functional ELA	
·	·	4.0 11

Graduate Certificate of Completion: Special 18 credits Education, Moderate to Severe

#### Graduate Certificate of Completion: Special Education, Moderate to Severe – Effective on 10-16-2025

The Graduate Certificate of Completion: Special Education, Moderate to Severe allows candidates to complete requirements associated with the Special Education Moderate/Severe Disabilities endorsement from the Arizona Department of Education. Certificate will include practicum and coursework in the following areas: behavior management for students with disabilities, special education law, special education assessment and individualized education program planning, methods for teaching students with severe disabilities, and adaptive communication, including language development and disorders.

#### **Degree Requirements**

MSS-520	Classroom Management and	3 credits
	Supporting Challenging Behaviors	
MSS-540	The Science of Reading and Phonics	3 credits
	for Effective Adaptive Communication	
MSS-545	Specialized ELA Instruction: Research,	3 credits
	Remediation, and Intervention	
MSS-550	Assessment and Eligibility in Moderate	3 credits
	to Severe Special Education	
MSS-560	Professional, Ethical, and Legal	3 credits
	Practices	
MSS-570	Methods of Teaching Functional	3 credits
	Mathematics and Science	

Graduate Certificate of Completion: Special 18 credits Education, Moderate to Severe

### **Graduate Certificate of Completion in Teaching English to Speakers of Other Languages (TESOL)**

This program does not include a student teaching component, and does not therefore lead to licensure, but may lead to career advancement for those already licensed as teachers.

The Graduate Certificate of Completion in Teaching English to Speakers of Other Languages (TESOL) is designed for teaching professionals with an interest in working with English language learners (ELLs) in or out of the classroom. The format and courses of this regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the working educator possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of linguistics, second language acquisition, and curriculum development. All courses are directly aligned with the Interstate Teacher Assessment and Support Consortium (InTASC) and the Standards for the Recognition of Initial TESOL Programs in P-12 ESL Teacher Education (TESOL). Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in TESOL field experiences and a practicum that guide students through 40 hours of observational and practicebased experiences. Candidates must have access to a P-12 classroom with ESL students to complete the practicum course and program assignments. Graduates of the program are prepared to become leaders in ESL/BLE/TESOL at the P-12 classroom, school, community college, and district level (18 credits).

#### **Degree Requirements**

TSL-532	Foundations of Instruction for English	3 credits
	Language Learners	
TSL-550	School, Community, and Family	3 credits
	Culture	
TSL-541	Linguistics	3 credits
TSL-558	ELL and Bilingual Curriculum and	3 credits
102 000	Methods of Instruction	
TSL-565	ELL and Bilingual Assessment	3 credits
TSL-567	Methods of Teaching and Evaluating	3 credits
	ELLs with Special Needs	
Graduate Ce	ertificate of Completion in Teaching	18 credits
English to Speakers of Other Languages (TESOL)		

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### The College of Arts and Media

#### College Description

The College of Arts and Media is dedicated to providing its students with the finest training possible in their chosen fields. All disciplines and majors within the College require a thorough and exhaustive study of subject-specific theory and related performance to translate theory into active and exciting participation and presentation. All of the College's faculty are dedicated professionals who are active within their fields and therefore can offer students the unique opportunity of their current professional expertise as well as classroom knowledge.

#### College Mission

The College of Arts and Media endeavors to create an environment where students can be challenged to excel throughout all of their class work as well as in their performance opportunities. Faculty members strive to imbue students with the tools to create, analyze, lead, and teach through the eventual mastery of their chosen disciplines.

#### College Features

Currently, the College consists of four departments, Dance, Music, Production, and Theatre.

The Department of Dance offers a Bachelor of Arts in Dance and Bachelor of Arts in Dance Education.

The Department of Music features seven degrees, a Bachelor of Arts in Music Education-Choral: Voice, a Bachelor of Arts in Music Education-Choral: Piano, a Bachelor of Arts in Music Education-Instrumental: Brass, Percussion, Woodwind, Strings, a Bachelor of Arts in Music Education-Instrumental: Piano, a Bachelor of Arts in Music with an Emphasis in Piano, a Bachelor of Arts in Music with an Emphasis in Instrumental Music, and a Bachelor of Arts in Music with an Emphasis in Voice. The Department of Music features nine ensembles —Canyon Choral Society, Canyon Chorale, Canyon Singers, Critical Mass, Thundering Heard Pep Band, Thunder Big Band, Symphonic Band, Percussion Ensemble and Woodwind Ensemble.

The Department of Production offers a Bachelor of Arts in Advertising and Public Relations with an Emphasis in Advertising Design, Bachelor of Arts in Digital Design with an Emphasis in either Animation or Web Design, and a Bachelor of Arts in Digital Film with an Emphasis in either Production or Screenwriting.

The Department of Theatre offers a Bachelor of Arts in Theatre and Drama and a Bachelor of Arts in Theatre Education. Both departments have several performing groups. The Department of Theatre presents the Grand Canyon University's Ethington Theatre Series, which is comprised of five productions performing over 30 times annually.

### Department of Dance

Grand Canyon University's Department of Dance is dedicated to the training of dancers, teachers, and choreographers by blending both the theory and the practice of dance performance and its related disciplines.

In addition to regular classroom studies, dance major students will take part in the Ethington Dance Ensemble in numerous capacities, including performance, choreography and technical production, thus allowing them to explore the creative process from rehearsal to live performance. This global approach to

dance education creates a multifaceted graduate who is prepared to succeed in today's marketplace.

#### **Bachelor of Arts in Dance**

The Bachelor of Arts in Dance program is designed to train multi-faceted dance professionals who may succeed in a range of career paths related to dance. Experiences in the program promote creativity and entrepreneurial spirit, blending the theory and practice of dance performance and choreography. Additionally, coursework in technology, kinesiology, and pedagogy prepares students with practical skills for their chosen profession with interdisciplinary applications in many fields. The mission of the Dance program is to cultivate an understanding of dance and its relationship to culture and human flourishing from a Christian worldview, preparing outstanding artists who can make a difference in the lives of the global community.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Dance Major	68 credits
Total Electives	12-18 credits

Total Bachelor of Arts in Dance

120 credits

4 credits

#### **Required General Education**

COM-263

(Included in General Education totals credits, applied to the Global Awareness competency.)

MUS-210	Music Appreciation	4 credits
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(Included in General Education totals credits, applied to the Effective Communication competency.)

Elements of Intercultural

Communication

	Communication	
Dance Major	•	
DAN-100	Introduction to Ballet Technique	1 credit
<b>DAN-101</b>	Introduction to Jazz Technique	1 credit
DAN-215	Dance EnEnsemble	0 credits
<u>DAN-180A</u>	Elementary Dance Tour	0 credit
<b>DAN-200</b>	Somatics for the Dancer	2 credits
DAN-250	Ballet Technique II	1 credit
DAN-260	Jazz Technique II	1 credit
DAN-120	Introduction to Modern Technique	1 credit

DAN-180BElementary Dance Tour0 creditDAN-395Dance Production4 creditsDAN-270Modern Technique II1 creditDAN-210Improvisation for Dance1 credit

DAN-210Improvisation for Dance1 creditDAN-305Hip Hop I1 creditDAN-350Ballet Technique III1 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

DAN-360	Jazz Technique III	1 credit
DAN-370	Modern Technique III	1 credit
<u>DAN-355</u> <sup>∆</sup>	Dance Kinesiology and Injury Prevention	4 credits
<u>DAN-375</u>	Choreography I: Space and Time/Design and Dance	2 credits
DAN-405	Hip Hop II	1 credit
<u>DAN-315</u> <sup>∆</sup>	Dance History I	4 credits
DAN-322	Dance Technology	2 credits
DAN-390	Choreography II: Process	2 credits
DAN-353	Ballet Technique IV	1 credit
DAN-363	Jazz Technique IV	1 credit
DAN-340 <sup>∆</sup>	Dance History II	4 credits
DAN-475	Dance in Sacred Contexts	4 credits
DAN-373	Modern Technique IV	1 credit
DAN-453	Ballet Technique V	1 credit
DAN-455	Dance Pedagogy	2 credits
DAN-470	Choreography III: Performance	2 credits
BUS-302	Business for the Professional Creative	4 credits
DAN-410	Commercial Dance	2 credits
DAN-463	Jazz Technique V	1 credit
DAN-300	Alignment and Pilates for Dance	2 credits
DAN-302	Tap I	1 credit
DAN-430	Dance Research Seminar I	2 credits
<u>DAN-490</u>	Dance Administration & Entrepreneurship	4 credits
<u>DAN-402</u>	Tap II	1 credit
<u>DAN-473</u>	Modern V	1 credit
<u>DAN-435</u>	Dance Research Seminar II	2 credits
Dance Major	•	68 credits

Dance Major 68 credits

### **Bachelor of Arts in Dance for Secondary Education (IP-TL)**

#### (Initial Program - Leads to Initial Teacher Licensure)

The Bachelor of Arts in Dance for Secondary Education is a program designed to prepare and certify candidates for the instruction of Dance Arts in a secondary education environment. All courses are directly aligned with the Interstate Teacher Assessment and Support Consortium (InTASC), National Association of Schools of Dance (NASD), and the International Society of Technology in Education (ISTE-E) standards. The program spans 126 credit hours of instruction and practicum experience resulting in a recommendation for an Arizona initial certificate to work in the State's schools. The relationship between the College of Arts & Media and the College of Education ensures student teachers will receive both content knowledge, and the means to convey that knowledge in their classrooms from faculty in both colleges. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within many of the courses guide students through 100 hours of observational and practice-based experiences, and the final semester of the program includes a full-time student teaching component. These educational settings

must be state-certified environments, and mentor teachers must be fully certified. Graduates of this program are prepared to become informed educators in public and private schools and other settings requiring teaching licensure. The program is designed to train dance educators and practitioners by blending the theories and practices of dance and its related fields. In addition to regular classroom studies, Dance for Secondary Education majors are required to participate in the Ethington Dance Ensemble for our bi-annual concert series. Students serve in numerous capacities, including onstage and offstage disciplines, thus allowing them to explore the creative process from rehearsal to live performance. The mission of our Dance for Secondary Education program is to cultivate an understanding of dance and its relationship to culture and human flourishing from a Christian worldview, preparing outstanding teaching artists who can make a difference in the lives of their students.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Dance for Secondary Education Major	86 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Dance for	126 credits

Secondary Education

**DAN-100** 

#### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

Introduction to Ballet Technique

DAN-315	Dance History I	4 credits
DAN-340	Dance History II	4 credits

1 credit

#### **Dance for Secondary Education Major**

D7111 100	1	
DAN-101	Introduction to Jazz Technique	1 credit
DAN-215	Dance Ensemble	0 credits
<u>DAN-180A</u>	Elementary Dance Tour	0 credits
DAN-200 <sup>‡</sup>	Somatics for the Dancer	2 credits
DAN-250	Ballet Technique II	1 credit
DAN-260	Jazz Technique II	1 credit
DAN-120	Introduction to Modern Technique	1 credit
<u>DAN-180B</u>	Elementary Dance Tour	0 credits
<u>SEC-202</u>	Psychology for Secondary Educators	4 credits
POS-301	Arizona and Federal Government	2 credits
DAN-395 <sup>‡</sup>	Dance Production	4 credits
DAN-210	Improvisation for Dance	1 credit
DAN-270	Modern Technique II	1 credit
SPD-208	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
EDU-330	Social Justice for Educators	4 credits
DAN-350	Ballet Technique III	1 credit
DAN-360	Jazz Technique III	1 credit
DAN-375	Choreography I: Space and Time/Design and Dance	2 credits
<u>DAN-370</u>	Modern Technique III	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>DAN-355</u> <sup>∆</sup>	Dance Kinesiology and Injury Prevention	4 credits
<u>SEC-356</u>	Curriculum and Assessment for Secondary Educators	4 credits
DAN-390 <sup>‡</sup>	Choreography II: Process	2 credits
<b>DAN-322</b>	Dance Technology	2 credits
DAN-300	Alignment and Pilates for Dance	2 credits
<u>SEC-351</u>	Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
<u>ESL-445N</u>	Methods of Structured English Immersion for Secondary Education	3 credits
$\underline{BUS-302^{\Omega}}$	Business for the Professional Creative	4 credits
<u>DAN-455N</u>	Dance Pedagogy	2 credits
DAN-470	Choreography III: Performance	2 credits
<u>SEC-451</u>	Data-Driven Instructional Methods for Secondary Educators	4 credits
<u>DAN-325N</u>	Dance Integration	4 credits
<u>DAN-400</u>	Dance Methods and Assessment in the Secondary School	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary Educators	4 credits
<b>DAN-305</b>	Hip Hop I	1 credit
$\underline{\text{SEC-490}^{\Omega}}$	Student Teaching for Secondary Education	8 credits
Dance for Se	86 credits	
Total Practic	95 hours	

#### Department of Music

The Department of Music offers various areas of study for students desiring to pursue music as a profession; provides classes, ensembles, and private music instruction for students majoring in other fields; and contributes to the cultural environment of the University community.

The Department of Music is dedicated to developing the musicianship of each student through excellence in the classroom and all performance facets. Students from the entire University join with music majors in performing in a variety of ensembles and productions throughout the year.

The Music Department exists to provide accessible and affordable quality undergraduate music education to the next generation of musicians and music educators in the context of a Christian liberal arts university.

The music department aspires to provide strong undergraduate academic programs, multiple music performance opportunities, and a welcoming environment where future musicians and music educators are constantly challenged to greater levels of academic and artistic achievement in order to achieve success in their chosen disciplines.

Each of these mission statements are reflected in the Mission-based Bachelor's Competencies. These competencies are critical components embedded into each undergraduate-level, music program.

#### Music Education Programs

Grand Canyon University's Bachelor of Arts in Music Education program is designed for students devoted to developing their musical abilities and refining performance skills in order to teach in elementary and secondary schools. The music education curriculum is driven by standards created by the National Association of Schools of Music. Additionally, course topics and objectives have been aligned to the Interstate Teacher Assessment and Support Consortium (InTASC) standards.

In the liberal arts setting, in addition to performance, the Bachelor of Arts in Music Education curriculum provides a balanced program of applied music, theoretical and historical studies, professional education studies, and field work experiences. An emphasis is placed on contemporary music education with training and experiences designed to meet the varying needs of today's schools. Students selecting the music education program will need to determine whether they want to pursue a choral or instrumental emphasis. Private instruction in an applied instrument or voice is also required.

The mission of our music education program is to prepare outstanding educators who can make a difference in the lives of their students. Integral to the music education program at Grand Canyon University is the opportunity for students to perform in public. Choir concerts, voice and piano recitals, as well as smaller vocal ensembles are a staple of the musical landscape at GCU. The music education program, in conjunction with the theatre program, produces the University Theatre series, which presents a series of major productions annually. Auditions for all of the productions are open to the entire student body. Scholarships are available by audition and interview.

The Music Department will assign a variable of 14 ensemble courses total, through placement audition, throughout the entirety of the music program effective Fall 2014. Ensembles can include: MEN-308: Canyon Chorale, MEN-348: Jazz Band, MEN-318: Collaborative Music Ensemble, MEN-312: Opera Workshop, MEN-305: Musical Theatre Workshop, MEN-314: Canyon Singers, MEN-306: Canyon Choral Society, MEN-338: Wind Ensemble, MEN-336: Pep Band, or MEN-334: Percussion Ensemble.

### Bachelor of Arts in Music Education – Choral: Voice (IP/TL)

Grand Canyon University's Bachelor of Arts in Music Education program is designed for students devoted to developing their musical abilities and refining performance skills in order to teach in elementary and secondary schools. The music education curriculum is driven by professional degree standards from the National Association of Schools of Music (NASM). Course topics and objectives are aligned to the Interstate Teacher Assessment and Support Consortium (InTASC) standards. The degree leads to Arizona Initial Teacher Licensure in K-12 Music. In the professional studies setting, the Bachelor of Arts in Music Education curriculum provides a balanced program of applied music, theoretical and historical studies, professional education studies, and field work experiences. An emphasis is placed on 21st century music education best practices, with training and experiences designed to meet the varying needs of today's schools. When selecting the Bachelor of Arts in Music Education degree, students declare an instrumental or choral emphasis on a primary instrument. The mission of our music education program is to cultivate an understanding of music and its relationship to

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

culture and human flourishing from a Christian worldview, preparing outstanding educators who can make a difference in the lives of their students. Students develop their musical gifts and talents to serve diverse audiences through required participation in a variety of individual and ensemble performances integrated into the GCU community experience. Performance scholarships for program majors and Pep Band members are available by audition and interview (www.gcu.edu/auditions).

#### (Initial Program-Leads to Initial Teacher Licensure)

#### **Degree Requirements**

Total General Education	34-40 credits
Total Music Education - Choir: Voice Major	90 credits
Total Electives	0-6 credits

Total Bachelor of Arts in Music Education – 130 credits Choir: Voice

#### **Required General Education**

MUS-355

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

Music History I

MUS-333	waste mistory i	+ cicuits
MUS-365	Music History II	4 credits
Music Educ	ation – Choir: Voice Major	
MUS-125	Music Theory I	4 credits
MUS-102	Class Piano I	1 credit
MAP-115	Music Applied Lessons I	2 credits
MUS-155	Music Theory II	4 credits
MUS-103	Class Piano II	1 credit
MED-320	Technology for Music Educators	2 credits
MAP-125	Music Applied Lessons II	2 credits
MUS-260	Music Theory III	4 credits
MUS-104	Class Voice	1 credit
MED-245	Strings Instructional Methods	1 credit
MED-246	Brass Instructional Methods	1 credit
MUS-202	Class Piano III	1 credit
MAP-215	Music Applied Lessons III	2 credits
EDU-354	Child Development: Prenatal to Adolescence	4 credits
MUS-203	Class Piano IV	1 credit
MED-248	Woodwinds Instructional Methods	1 credit
MED-249	Percussion Instructional Methods	1 credit
MED-261	Choral Pedagogy & Literature	4 credits
MAP-225	Music Applied Lessons IV	2 credits
MUS-383	Conducting	4 credits
MED-375	Methods of Teaching Music I	4 credits
MAP-315	Music Applied Lessons V	2 credits
EDU-330	Social Justic for Educators	4 credits
MED-390	Methods of Teaching Music II	4 credits
MUS-463	Orchestration & Arranging	4 credits
		0 11.

Music Applied Lessons VI

Senior Capstone in Music

SPD-208	Survey of Special Education: Teaching Children with	4 credits
<u>GOV-260</u>	Exceptionalities Arizona Constitution & Government	1 credit
ESL-446N	Methods of Structured English Immersion for K-12 Education	3 credits
WSA-213	Class Guitar	1 credit
MAP-495	Music Senior Recital	0 credit
MAP-415	Music Applied Lessons VII	2 credits
$\underline{MED-480A^{\Omega}}$	Student Teaching: Elementary Music	6 credits
$\underline{\text{MED-480B}^{\Omega}}$	Student Teaching: Secondary Music	6 credits
		00 11.

Music Education – Choir: Voice Major 90 credits

#### Bachelor of Arts in Music Education – Instrumental: Brass, Woodwind, Percussion, or Strings (IP/TL)

Grand Canvon University's Bachelor of Arts in Music Education program is designed for students devoted to developing their musical abilities and refining performance skills in order to teach in elementary and secondary schools. The music education curriculum is driven by professional degree standards from the National Association of Schools of Music (NASM). Course topics and objectives are aligned to the Interstate Teacher Assessment and Support Consortium (InTASC) standards. The degree leads to Arizona Initial Teacher Licensure in K-12 Music. In the professional studies setting, the Bachelor of Arts in Music Education curriculum provides a balanced program of applied music, theoretical and historical studies, professional education studies, and field work experiences. An emphasis is placed on 21st century music education best practices, with training and experiences designed to meet the varying needs of today's schools. When selecting the Bachelor of Arts in Music Education degree, students declare an instrumental or choral emphasis on a primary instrument. The mission of our music education program is to cultivate an understanding of music and its relationship to culture and human flourishing from a Christian worldview, preparing outstanding educators who can make a difference in the lives of their students. Students develop their musical gifts and talents to serve diverse audiences through required participation in a variety of individual and ensemble performances integrated into the GCU community experience. Performance scholarships for program majors and Pep Band members are available by audition and interview (www.gcu.edu/auditions).

#### (Initial Program-Leads to Initial Teacher Licensure)

#### **Degree Requirements**

2 081 00 110 4011 011101105	
Total General Education	34-40 credits
Total Music Education – Instrumental: Brass, Woodwind, Percussion or Strings Major	90 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Music Education – Instrumental: Brass, Woodwind, Percussion or Strings	130 credits
Required General Education	

#### Required General Education

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

2 credits

4 credits

4 credits

**MAP-325** 

**MUS-495** 

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

MIIG 255	Music History I	4 credits	ekille undere	tanding composition, and refining their	narformanca
MUS-355	Music History II	4 credits	skills, understanding composition, and refining their performance skills. The program is a true liberal arts degree, allowing		
1100000			participation in varied performing ensembles and studies v		
Music Education – Instrumental: Brass, Woodwind, Percussion or Strings Major				ly preparing students for a variety of car ttside the field.	eers both
MUS-125	Music Theory I	4 credits		epartment will assign a variable of 16 er	
MUS-102	Class Piano I	1 credit		through placement audition, throughout program effective Fall 2014. Ensembles	
MAP-115	Music Applied Lessons I	2 credits		anyon Chorale, MEN-348: Jazz Band, N	
MUS-155	Music Theory II	4 credits	Collaborative	Music Ensemble, MEN-312: Opera Wo	orkshop,
MUS-103	Class Piano II	1 credit		usical Theatre Workshop, MEN-306: C y, MEN-315: Critical Mass, MEN-338:	
MED-320	Technology for Music Educators	2 credits		EN-336: Pep Band, or MEN-334: Percu	
MAP-125	Music Applied Lessons II	2 credits	Ensemble.		
MUS-260	Music Theory III	4 credits	Bachelor o	of Arts in Commercial Music	
MUS-104	Class Voice	1 credit	Grand Canyo	n University is a premier Christian Univ	versity,
MED-245	Strings Instructional Methods	1 credit	educating peo	ople to lead and serve. The Bachelor of A	Arts in
MED-246	Brass Instructional Methods	1 credit		Music will prepare students to become g cal thinkers, effective communicators an	
MUS-202	Class Piano III	1 credit		eaders in the commercial music and ente	
MAP-215	Music Applied Lessons III	2 credits	world by prov	viding an academically challenging, valu	ies-based
	Child Development: Prenatal to	4 credits		om the context of our Christian heritage	
EDU-354	Adolescence			will train learners to perform in music in with focus in popular music performa	
MUS-203	Class Piano IV	1 credit		ment business. In this program students	
MED-248	Woodwinds Instructional Methods	1 credit	training in all	aspects of the music industry encompas	ssed in the
MED-249	Percussion Instructional Methods	1 credit		of live music including developing a per ough private instruction, foundational ka	
MED-260	Choral Pedagogy & Literature	4 credits		reinforcement, recording, video product	
MAP-225	Music Applied Lessons IV	2 credits	media, and business, taught from a distinctively Christian world		
MUS-383	Conducting	4 credits	view in the context of a solid academic Christian liberal arts education.		
MED-375	Methods of Teaching Music I	4 credits	education.  Degree Requirements		
MAP-315	Music Applied Lessons V	2 credits		al Education	34-40 credits
EDU-330	Social Justic for Educators	4 credits			76 credits
MED-390	Methods of Teaching Music II	4 credits	Total Electi	nercial Music Major	4-10 credits
MUS-463	Orchestration & Arranging	4 credits			120 credits
MAP-325	Music Applied Lessons VI	2 credits		lor of Arts in Commercial Music	120 cicdits
MUS-495	Senior Capstone in Music	4 credits		Music - Major	
<u>14100 473</u>	Survey of Special Education:		<u>ADV-110</u>	Fundamentals of Advertising	4 credits
SPD-208	Teaching Children with	4 credits	<u>ADV-340</u>	Media Law and Ethics	4 credits
GOV-260	Exceptionalities Arizona Constitution &	1 credit	BUS-302	Business for the Professional Creative	4 credits
	Government Methods of Structured English	2 1:4-	<u>DFP-111</u>	Digital Video Production I	4 credits
<u>ESL-446N</u>	Immersion for K-12 Education	3 credits	<u>DSM-101</u>	Introduction to Social Media	4 credits
WSA-213	Class Guitar	1 credit	<u>DSM-215</u>	Photography and Video for Social Media	4 credits
MAP-495	Music Senior Recital	0 credit	DSM-320	Social Media Communities	4 credits
MAP-415	Music Applied Lessons VII	2 credits	MUS-301	Introduction to Commercial Music	4 credits
MED-	Student Teaching: Elementary	6 credits	MUS-335	Survey of Jazz	4 credits
$\frac{480A^{\Omega}}{}$	Music		MUS-340	Commercial Music Arranging	4 credits
$\frac{\text{MED-}}{480\text{B}^{\Omega}}$	Student Teaching: Secondary Music	6 credits	MUS-348	Introduction to Film Scoring	4 credits
	<b></b>		MUS-358	Composition Using Music	4 credits
Music	Programs		141013-330	Technology	
The Bachelor of Arts in Music program is designed for se		serious	<u>MUS-463</u>	Orchestration & Arranging	4 credits
	wish to devote themselves to developing r		<u>MUS-465</u>	The Entrepreneurial Musician	4 credits

 $<sup>^{----}</sup>$   $^{--}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\it f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>MUS-496</u>	Senior Capstone in Commercial Music	4 credits
WSA-300	Musical Structures I	4 credits
WSA-301	Musical Structures II	4 credits
WSA-302	Songwriting and Arranging	4 credits
<u>WSA-320</u>	Digital Audio Workstation	4 credits

76 credits Commercial Music Major

#### **Bachelor of Arts in Commercial Music** *Effective* September 2026

Grand Canyon University is a premier Christian University, educating people to lead and serve. The Bachelor of Arts in Commercial Music will prepare students to become global citizens, critical thinkers, effective communicators and responsible leaders in the commercial music and entertainment world by providing an academically challenging, values-based curriculum from the context of our Christian heritage. This program will train learners to perform in music in the 21st century market with focus in popular music performance, music and entertainment business. In this program students will receive training in all aspects of the music industry encompassed in the performance of live music including developing a performing technique through private instruction, foundational knowledge of music, sound reinforcement, recording, video production, social media, and business, taught from a distinctively Christian world view in the context of a solid academic Christian liberal arts education.

#### **Degree Requirements**

Total General Education

Total Comm	76 credits	
Total Electiv	4-10 credits	
Total Bachel	120 credits	
Commercial I	Music - Major	
MUS-123	The Art of Songwriting	4 credits
DSM-101	Introduction to Social Media	4 credits
MUS-285	Logic Pro I	4 credits
ADV-110	Fundamentals of Advertising	4 credits
<u>DSM-215</u>	Photography and Video for Social Media	
<u>MUS-101</u>	Practical Theory for Modern Musicians	4 credits
DSM-320	Social Media Communities	4 credits
<u>MUS-201</u>	Practical Theory II: Chords, Color, and Creative Voice	4 credits
<u>DFP-111</u>	Digital Video Production I	4 credits
MUS-335	Survey of Jazz	4 credits
<u>ADV-340</u>	Media Law and Ethics	4 credits
BUS-302	Business for the Professional Creative	4 credits
<u>MUS-301</u>	Introduction to Commercial Music	4 credits
DSM-350	Personal Brand Management	4 credits
MUS-463	Orchestration & Arranging	4 credits
BUS-302	Business for the Professional Creative	4 credits

MUS-340	Commercial Music Arranging	4 credits
MUS-348	Introduction to Film Scoring	4 credits
MUS-358	Composition Using Music Technology	4 credits
MUS-465	The Entrepreneurial Musician	4 credits
MUS-496	Senior Capstone in Commercial Music	4 credits

Commercial Music Major

76 credits

#### **Bachelor of Arts in Music with an Emphasis in Instrumental Performance**

The Bachelor of Arts in Music program is designed for developing musicians who wish to devote themselves to developing musical skills, understanding composition and refining their performance skills. The program is a Bachelor of Arts professional degree, aligned with the National Association of Schools of Music (NASM) standards. The degree allows participation in varied performing ensembles and studies, while simultaneously preparing students for a variety of careers both within and outside the field. Some students enter this program with aspirations of teaching private lessons or owning their own studio. Others wish to pursue their master's degree so they are able to teach studio lessons or other music courses at the collegiate level. Performance scholarships for program majors and/or Pep Band members are available by audition and interview. Students selecting the Bachelor of Arts in Music program will need to determine whether they want to pursue an instrumental, piano or voice emphasis, and a primary instrument must be declared. Private instruction in an applied instrument or voice is required. Additionally, in order to meet NASM professional degree standards, the sixteen (16) elective credits present within the program must be taken from a specified pool of music-related electives. Adherence to this requirement will be checked by the department at regular intervals as part of normal progression through the degree. Integral to the Bachelor of Arts in Music program at Grand Canyon University is the opportunity for students to perform in public. Ensemble concerts and solo recitals, as well as smaller chamber ensembles, are a staple of the musical landscape at GCU. The music program, in conjunction with the theatre program, produces the University's Ethington Theatre series, which presents a series of major productions annually. Auditions for all productions are open to the entire student body.

Degree Requ	irements				
Total Gener	34-40 credits				
Total Music Instrumenta	80 credits				
Total Electiv	0-6 credits				
Total Bache Emphasis in	120 credits				
Music with an Emphasis in Instrumental Performance Major					
MUS-130	Music Theory	3 credits			
<u>MUS-130L</u>	Music Theory I Lab (Aural Skills and Musicianship)	1 credit			
MPC-109	Class Piano I	1 credit			
MBE-115	Private Applied Instruction I	2 credits			
MEN-336	Pep Band	0 credits			

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

34-40 credits

MEN-338	Wind Ensemble	0 credits	MAP-250	Private Piano Study Secondary	1 credit
MUS-160	Music Theory II	3 credits	MAD 210	Instrument IV Private Piano Study Secondary	
MUS-160L	Music Theory II Lab (Aural Skills and Musicianship)	1 credit	MAP-318	Instrument V Private Piano Study Secondary	1 credit
MPC-259	Class Piano II	1 credit	MAP-350	Instrument VI	1 credit
MBE-125	Private Applied Instruction II	2 credits	<u>MAP-450</u>	Private Piano Study Secondary	1 credit
<u>MUS-360</u> <sup>∆</sup>	Music History I	3 credits	MAP-451	Instrument VII Private Piano Study Secondary	1 114
MUS-262	Music Theory III	3 credits		Instrument VIII	1 credit
MUS-262L	Music Theory III Lab (Aural Skills	1 credit	<u>MBE-113</u>	Private Brass Study Secondary Instrument I	1 credit
MPC-359	and Musicianship) Class Piano III	1 credit	MBE-123	Private Brass Study Secondary	1 credit
MVC-109	Class Voice (Majors)	1 credit	MDE 212	Instrument II Private Brass Study Secondary	1 15
MBE-215	Private Applied Instruction III	2 credits	<u>MBE-213</u>	Instrument III	1 credit
MUS-369 <sup>‡∆</sup>	Music History II	3 credits	MBE-223	Private Brass Study Secondary	1 credit
MUS-351	Music Theory IV	3 credits	MBE-313	Instrument IV Private Brass Study Secondary	1 credit
MUS-351L	Music Theory IV Lab (Aural Skills	1 credit		Instrument V	1 Cicuit
	and Musicianship)		<u>MBE-323</u>	Private Brass Study Secondary Instrument VI	1 credit
<u>MPC-459</u> <sup>Ω</sup>	Class Piano IV	1 credit	MBE-413	Private Brass Study Secondary	1 credit
<u>MUS-223</u>	Conducting	2 credits		Instrument VII	
MBE-225	Private Applied Instruction IV	2 credits	<u>MBE-423</u>	Private Brass Study Secondary Instrument VIII	1 credit
MUS-393 <sup>‡</sup>	Form and Analysis	3 credits	<u>MIE-113</u>	Private Percussion Study Secondary	1 credit
<u>MUS-378</u> <sup>∆</sup>	Chamber Music Literature	2 credits	MIE 102	Instrument I Private Percussion Study Secondary	
<u>MUS-453</u> <sup>Ω</sup>	Advanced Conducting	2 credits	<u>MIE-123</u>	Instrument II	1 credit
$\underline{\text{MEN-318}^{\Omega}}$	Collaborative Music Ensemble Majors	0 credit	<u>MIE-213</u>	Private Percussion Study Secondary Instrument III	1 credit
MBE-315	Private Applied Instruction V	2 credits	MIE-223	Private Percussion Study Secondary	1 credit
<u>MUS-379</u> <sup>∆</sup>	Symphonic Literature	2 credits	WHE DES	Instrument IV	1 Cicuit
MUS-394	Counterpoint	3 credits	<u>MIE-313</u>	Private Percussion Study Secondary Instrument V	1 credit
MBE-325	Private Applied Instruction VI	2 credits	MIE-323	Private Percussion Study Secondary	1 credit
MBE-390	Junior Recital	0 credits	<u> </u>	Instrument VI	
MUS-406	Jazz Techniques	1 credit	<u>MIE-413</u>	Private Percussion Study Secondary Instrument VII	1 credit
MUS-326	Orchestration and Arranging	2 credits	MIE-423	Private Percussion Study Secondary	1 credit
$\underline{\text{MUS-457}}^{\Omega}$	Instrumental Pedagogy	2 credits	MCF 112	Instrument VII Private String Study Secondary	
MBE-415	Private Applied Instruction VII	2 credits	<u>MSE-113</u>	Instrument I	1 credit
$\underline{\text{MUS-490}}^{\Omega}$	Senior Seminar	2 credits	MSE-123	Private String Study Secondary	1 credit
$\underline{\text{MBE-425}}^{\Omega}$	Private Applied Instruction VIII	2 credits	MSE-213	Instrument II Private String Study Secondary	1 credit
$\underline{\text{MAP-490}^{\Omega}}$	Senior Recital	0 credit	<u>WISE-213</u>	Instrument III	1 credit
Students sho courses	uld enroll in a total of 16 credits from th	e following	MSE-223	Private String Study Secondary Instrument IV	1 credit
BUS-301	Professional Success Within the	4 credits	MSE-313	Private String Study Secondary Instrument V	1 credit
MIIC 210	Fine Arts Popular Music in American Society	4 credits	MSE-323	Private String Study Secondary	1 credit
MUS-218	Music in World Culture	4 credits	MSE-413	Instrument VI Private String Study Secondary	1 credit
MUS-227	Survey of Jazz	4 credits	MDL-TIJ	Instrument VII	i cieuit
MUS-335	Private Piano Study Secondary		MSE-423	Private String Study Secondary Instrument VIII	1 credit
<u>MAP-118</u>	Instrument I	1 credit	MUS-210	Music Appreciation	4 credits
<u>MAP-128</u>	Private Piano Study Secondary Instrument II	1 credit	MUS-215	Lyric Diction for Music Educators	1 credit
MAP-218	Private Piano Study Secondary	1 credit	MUS-310	Choral Literature for Music	2 credits
	Instrument III			Educators	

 $<sup>^{-----}</sup>$   $^{--}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\it f}$  Honors Major Course |  $^{\it \Omega}$  Non-Transferable

MUS-327	Band Literature for Music	2 credits		nusical skills, understanding composi	
MIIC 257	Educators Music Composition Seminar	2 credits	refining their performance skills. The program is a Bache Arts professional degree, aligned with the National Associated		
MUS-357	Composition Using Music		of Schools of Music (NASM) standards. The degree allows		
<u>MUS-359</u>	Technology	2 credits	participation in varied performing ensembles and studies, while		
MUS-370	Piano Literature I	2 credits		sly preparing students for a variety of utside the field. Some students enter t	
MUS-375	Song Literature I	2 credits	with aspirations of teaching private lessons or owning their o		ning their own
MUS-376	Song Literature II	2 credits	studio. Others wish to pursue their master's degree so they are		
MUS-377	Piano Literature II	2 credits		studio lessons or other music courses vel. Performance scholarships for pro-	
MUS-378	Chamber Music Literature	2 credits	and/or Pep B	and members are available by audition	on and
MUS-379	Symphonic Music Literature	2 credits	interview. Students selecting the Bachelor of Arts in Music program will need to determine whether they want to pursue an		
MUS-453	Advanced Conducting	2 credits		, piano or voice emphasis, and a prim	
MVA-119	Private Voice Study Secondary	1 credit	must be declared. Private instruction in an applied instrument or		
MX/A 120	Instrument I Private Voice Study Secondary	4		ired. Additionally, in order to meet N degree standards, the sixteen (16) ele	
MVA-129	Instrument II	1 credit	present withi	in the program must be taken from a s	specified pool
MVA-219	Private Voice Study Secondary	1 credit		ated electives. Adherence to this requi	
MVA-229	Instrument III Private Voice Study Secondary	1 credit		he department at regular intervals as particular the degree. Integral to the Back	
<u>WI V I I - Z Z J</u>	Instrument IV	1 credit	in Music pro	gram at Grand Canyon University is	the opportunity
MVA-319	Private Voice Study Secondary Instrument V	1 credit		to perform in public. Ensemble conce rell as smaller chamber ensembles, are	
MVA-329	Private Voice Study Secondary	1 credit	musical land	scape at GCU. The music program, ir	conjunction
	Instrument VI	1 credit	with the theatre program, produces the University's Ethington		
MVA-419	Private Voice Study Secondary Instrument VII	1 credit	Theatre series, which presents a series of major productions annually. Auditions for all productions are open to the entire		
MVA-429	Private Voice Study Secondary	1 credit	student body.		
1 mm - 110	Instrument VIII Individual Instruction Woodwind		Degree Requirements		
<u>MWE-113</u>	Secondary Instrument I	1 credit	Total General Education 34-40 cred		34-40 credits
MWE-123	Individual Instruction Woodwind	1 credit		c with an Emphasis in Piano	80 credits
MWE-213	Secondary Instrument II Individual Instruction Woodwind	1 credit	Performance Major		0-6 credits
WW L-215	Secondary Instrument III	1 credit	1000 210001100		120 credits
MWE-223	Individual Instruction Woodwind Secondary Instrument IV	1 credit	Total Bachelor of Arts in Music with an 120 credit Emphasis in Piano Performance		120 credits
MWE-313	Individual Instruction Woodwind	1 credit	Music with an Emphasis in Piano Performance Major		Major
	Secondary Instrument V	1 Cledit	MUS-130	Music Theory	3 credits
MWE-323	Individual Instruction Woodwind Secondary Instrument VI	1 credit	MUS-130L	Music Theory I Lab (Aural Skills	1 credit
MWE-413	Individual Instruction Woodwind	1 credit		and Musicianship)	
	Secondary Instrument VII		MAP-120	Private Piano Study Majors I	2 credits
MWE-429	Individual Instruction Woodwind Secondary Instrument VII	1 credit	MEN-306	Canyon Choral Society	0 credits
WSA-125	Introduction to Sound for	2 credits	MEN-308	Canyon Chorale	0 credits
WCA 212	Contemporary Worship Class Guitar	1 credit	MUS-160	Music Theory II	3 credits
WSA-214	Class Percussion	1 credit	MUS-160L	Music Theory II Lab (Aural Skills and Musicianship)	1 credit
WSA-214 WSA-330	Philosophy of Music in Worship	4 credits	MAP-130	Private Piano Study Majors II	2 credits
WSA-408	Sound Recording	2 credits	<u>MUS-360</u> <sup>∆</sup>	Music History I	3 credits
WSA-408 WSA-418	Sound Reinforcement	2 credits	MUS-262	Music Theory III	3 credits
	an Emphasis in Instrumental	80 credits	MUS-262L	Music Theory III Lab (Aural Skills and Musicianship)	1 credit
	Performance Major		MVC-109	Class Voice (Majors)	1 credits
	of Arts in Music with an Empl	nasis in	MAP-220	Private Piano Study Majors III	2 credits
Piano Per	formance		MUS-369 <sup>*</sup> ∆	Music History II	3 credits
The Bachelor of Arts in Music program is designed for		MUS-351	Music Theory IV	3 credits	
developing musicians who wish to devote themselves to					

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

MUS-351L	Music Theory IV Lab (Aural Skills and Musicianship)	1 credit	MBE-313	Private Brass Study Secondary Instrument V	1 credit
MUS-223	Conducting	2 credits	MBE-323	Private Brass Study Secondary	1 credit
MAP-230	Private Piano Study Majors IV	2 credits	MDE 412	Instrument VI Private Brass Study Secondary	
MUS-393 <sup>‡</sup>	Form and Analysis	3 credits	MBE-413	Instrument VII	1 credit
<u>MUS-370</u> <sup>∆</sup>	Piano Literature I	2 credits	MBE-423	Private Brass Study Secondary	1 credit
$\underline{\text{MUS-453}}^{\Omega}$	Advanced Conducting	2 credits	MIE-113	Instrument VIII Private Percussion Study Secondary	1 credit
MAP-320	Private Piano Study Majors V	2 credits	<u>IVIIL-115</u>	Instrument I	i credit
MUS-394	Counterpoint	3 credits	MIE-123	Private Percussion Study Secondary Instrument II	1 credit
<u>MUS-377</u> <sup>∆</sup>	Piano Literature II	2 credits	MIE-213	Private Percussion Study Secondary	1 credit
MAP-330	Private Piano Study Majors VI	2 credits	<u></u>	Instrument III	1 Cicuit
$MAP-390^{\Omega}$	Junior Recital	0 credit	<u>MIE-223</u>	Private Percussion Study Secondary Instrument IV	1 credit
MUS-406	Jazz Techniques	1 credits	MIE-313	Private Percussion Study Secondary	1 credit
MUS-326	Orchestration and Arranging	2 credits		Instrument V	
<u>MUS-417</u> Ω	Collaborative Piano I	2 credits	<u>MIE-323</u>	Private Percussion Study Secondary Instrument VI	1 credit
<u>MUS-427</u> Ω	Piano Pedagogy I	2 credits	MIE-413	Private Percussion Study Secondary	1 credit
MAP-420 Ω	Private Piano Study Majors VII	2 credits		Instrument VII	
MUS-490 Ω	Senior Seminar	0 credit	<u>MIE-423</u>	Private Percussion Study Secondary Instrument VII	1 credit
	Collaborative Piano II	2 credits	MSE-113	Private String Study Secondary	1 credit
MUS-428	Piano Pedagogy II	2 credits	MSE-123	Instrument I Private String Study Secondary	1 11.
MUS-394	Counterpoint	3 credits	<u>WISE-123</u>	Instrument II	1 credit
MAP-430 <sup>Ω</sup>	Private Piano Study Majors VIII	2 credits	<u>MSE-213</u>	Private String Study Secondary	1 credit
$MAP-490^{\Omega}$	Senior Recital	0 credit	MSE-223	Instrument III Private String Study Secondary	1 credit
Students sho	uld enroll in a total of 16 credits from th	ne following		Instrument IV	1 credit
courses			<u>MSE-313</u>	Private String Study Secondary Instrument V	1 credit
BUS-301	Professional Success Within the Fine Arts	4 credits	MSE-323	Private String Study Secondary	1 credit
MUS-218	Popular Music in American Society	4 credits	MSE-413	Instrument VI Private String Study Secondary	1 credit
MUS-227	Music in World Culture	4 credits	<u> 141512-415</u>	Instrument VII	i ciedit
MUS-335	Survey of Jazz	4 credits	MSE-423	Private String Study Secondary Instrument VIII	1 credit
MAP-118	Private Piano Study Secondary	1 credit	MUS-210	Music Appreciation	4 credits
MAD 120	Instrument I Private Piano Study Secondary	1 12	MUS-215	Lyric Diction for Music Educators	1 credit
<u>MAP-128</u>	Instrument II	1 credit	MUS-310	Choral Literature for Music	2 credits
MAP-218	Private Piano Study Secondary	1 credit		Educators Band Literature for Music	
MAP-250	Instrument III Private Piano Study Secondary	1 and dit	<u>MUS-327</u>	Educators	2 credits
<u>MAI -230</u>	Instrument IV	1 credit	MUS-357	Music Composition Seminar	2 credits
MAP-318	Private Piano Study Secondary Instrument V	1 credit	MUS-359	Composition Using Music	2 credits
MAP-350	Private Piano Study Secondary	1 credit	MHS 270	Technology Piano Literature I	2 credits
	Instrument VI		MUS-370 MUS-375	Song Literature I	2 credits
MAP-450	Private Piano Study Secondary Instrument VII	1 credit	MUS-376	Song Literature II	2 credits
MAP-451	Private Piano Study Secondary	1 credit	MUS-377	Piano Literature II	2 credits
1 EDE 110	Instrument VIII Private Brass Study Secondary			Chamber Music Literature	2 credits
<u>MBE-113</u>	Instrument I	1 credit	MUS-378	Symphonic Music Literature	2 credits
<u>MBE-123</u>	Private Brass Study Secondary	1 credit	MUS-379	Advanced Conducting	2 credits
MDE 212	Instrument II Private Brass Study Secondary		MUS-453	Private Voice Study Secondary	
MBE-213	Instrument III	1 credit	<u>MVA-119</u>	Instrument I	1 credit
MBE-223	Private Brass Study Secondary Instrument IV	1 credit	<u>MVA-129</u>	Private Voice Study Secondary Instrument II	1 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>MVA-219</u>	Private Voice Study Secondary Instrument III	1 credit
MVA-229	Private Voice Study Secondary Instrument IV	1 credit
MVA-319	Private Voice Study Secondary Instrument V	1 credit
MVA-329	Private Voice Study Secondary	1 credit
MVA-419	Instrument VI Private Voice Study Secondary	1 credit
MVA-429	Instrument VII Private Voice Study Secondary	1 credit
MWE-113	Instrument VIII Individual Instruction Woodwind	1 credit
MWE-123	Secondary Instrument I Individual Instruction Woodwind	1 credit
MWE-213	Secondary Instrument II Individual Instruction Woodwind	1 credit
MWE-223	Secondary Instrument III Individual Instruction Woodwind	1 credit
MWE-313	Secondary Instrument IV Individual Instruction Woodwind	1 credit
	Secondary Instrument V Individual Instruction Woodwind	1 010010
MWE-323	Secondary Instrument VI Individual Instruction Woodwind	1 credit
MWE-413	Secondary Instrument VII	1 credit
MWE-429	Individual Instruction Woodwind Secondary Instrument VII	1 credit
<u>WSA-125</u>	Introduction to Sound for Contemporary Worship	2 credits
WSA-213	Class Guitar	1 credit
WSA-214	Class Percussion	1 credit
WSA-330	Philosophy of Music in Worship	4 credits
WSA-408	Sound Recording	2 credits
<u>WSA-418</u>	Sound Reinforcement	2 credits
Music with a	n Emphasis in Piano Performance	80 credits

# Bachelor of Arts in Music with an Emphasis in Voice Performance

The Bachelor of Arts in Music program is designed for developing musicians who wish to devote themselves to developing musical skills, understanding composition and refining their performance skills. The program is a Bachelor of Arts professional degree, aligned with the National Association of Schools of Music (NASM) standards. The degree allows participation in varied performing ensembles and studies, while simultaneously preparing students for a variety of careers both within and outside the field. Some students enter this program with aspirations of teaching private lessons or owning their own studio. Others wish to pursue their master's degree so they are able to teach studio lessons or other music courses at the collegiate level. Performance scholarships for program majors and/or Pep Band members are available by audition and interview. Students selecting the Bachelor of Arts in Music program will need to determine whether they want to pursue an instrumental, piano or voice emphasis, and a primary instrument must be declared. Private instruction in an applied instrument or voice is required. Additionally, in order to meet NASM professional degree standards, the sixteen (16) elective credits present within the program must be taken from a specified pool

of music-related electives. Adherence to this requirement will be checked by the department at regular intervals as part of normal progression through the degree. Integral to the Bachelor of Arts in Music program at Grand Canyon University is the opportunity for students to perform in public. Ensemble concerts and solo recitals, as well as smaller chamber ensembles, are a staple of the musical landscape at GCU. The music program, in conjunction with the theatre program, produces the University's Ethington Theatre series, which presents a series of major productions annually. Auditions for all productions are open to the entire student body.

### **Degree Requirements**

MUS-130

MUS-130L

Total General Education	34-40 credits
Total Music with an Emphasis in Voice	80 credits
Performance Major	
Total Electives	0-6 credits
Total Bachelor of Arts in Music with an Emphasis in Voice Performance	120 credits

3 credits

1 credit

### Music with an Emphasis in Voice Performance Major

Music Theory I Lab (Aural Skills

Music Theory

and Musicianship)

MPC-109	Class Piano I	1 credit
MVA-120	Private Voice Study Majors I	2 credits
MUS-111	Diction: Italian	1 credit
MEN-306	Canyon Choral Society	0 credits
MEN-308	Canyon Chorale	0 credits
MUS-160	Music Theory II	3 credit
<u>MUS-160L</u>	Music Theory II Lab (Aural Skills and Musicianship)	1 credit
MPC-259	Class Piano II	1 credit
MVA-130	Private Voice Study Majors II	2 credits
MUS-211	Diction: German	1 credit
<u>MUS-360</u> <sup>∆</sup>	Music History I	3 credits
MUS-262	Music Theory III	3 credits
<u>MUS-262L</u>	Music Theory III Lab (Aural Skills and Musicianship)	1 credit
MPC-359	Class Piano III	1 credit
<u>MUS-112</u>	Diction: French	1 credit
MVA-220	Private Voice Study Majors III	2 credits
<u>MUS-369<sup>‡</sup>∆</u>	Music History II	3 credits
MUS-351	Music Theory IV	3 credits
<u>MUS-351L</u>	Music Theory IV Lab (Aural Skills and Musicianship)	1 credit
$\underline{MPC-459}^{\Omega}$	Class Piano IV	1 credit
MUS-223	Conducting	2 credits
MVA-230	Private Voice Study Majors IV	2 credits
MUS-393 <sup>‡</sup>	Form and Analysis	3 credits
<u>MUS-375</u> <sup>∆</sup>	Song Literature I	2 credits
MUS-455	Vocal Pedagogy	2 credits
$\underline{\text{MEN-318}^{\Omega}}$	Collaborative Music Ensemble Majors	0 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

MVA-320	Private Voice Study Majors V	2 credits	MIE-313	Private Percussion Study Secondary	1 credit
MUS-394	Counterpoint	3 credits	MIE-323	Instrument V Private Percussion Study Secondary	1 credit
<u>MUS-376</u> <sup>∆</sup>	Song Literature II	2 credits	<u>WHE-323</u>	Instrument VI	1 credit
MVA-330	Private Voice Study Majors VI	2 credits	MIE-413	Private Percussion Study Secondary Instrument VII	1 credit
MVA-390	Junior Recital	0 credit	MIE-423	Private Percussion Study Secondary	1 credit
MUS-406	Jazz Techniques	1 credit	<u>IVIIL-423</u>	Instrument VII	1 Cledit
MUS-326	Orchestration and Arranging	2 credits	MSE-113	Private String Study Secondary Instrument I	1 credit
<u>MVA-420</u> Ω	Private Voice Study Majors VII	2 credits	MSE-123	Private String Study Secondary	1 credit
<u>MUS-490</u> Ω	Senior Seminar	2 credits		Instrument II	1 Cledit
<u>MVA-430</u> Ω	Private Voice Study Majors VIII	2 credits	<u>MSE-213</u>	Private String Study Secondary Instrument III	1 credit
$\underline{\text{MAP-490}}^{\Omega}$	Senior Recital	0 credit	MSE-223	Private String Study Secondary	1 credit
Students show	uld enroll in a total of 16 credits from the	e following	MSE-313	Instrument IV Private String Study Secondary	1 credit
BUS-301	Professional Success Within the	4 credits	MSE-323	Instrument V Private String Study Secondary	1 anadit
	Fine Arts		<u>WBL-323</u>	Instrument VI	1 credit
<u>MUS-218</u>	Popular Music in American Society	4 credits	MSE-413	Private String Study Secondary	1 credit
MUS-227	Music in World Culture	4 credits	MSE-423	Instrument VII Private String Study Secondary	1 anadit
<u>MUS-335</u>	Survey of Jazz	4 credits	<u>WBE-423</u>	Instrument VIII	1 credit
<u>MAP-118</u>	Private Piano Study Secondary	1 credit	<u>MUS-210</u>	Music Appreciation	4 credits
MAP-128	Instrument I Private Piano Study Secondary	1 credit	<u>MUS-215</u>	Lyric Diction for Music Educators	1 credit
WAI -120	Instrument II	1 credit	MUS-310	Choral Literature for Music	2 credits
MAP-218	Private Piano Study Secondary Instrument III	1 credit	MUS-327	Educators Band Literature for Music Educators	2 credits
MAP-250	Private Piano Study Secondary	1 credit	MUS-357	Music Composition Seminar	2 credits
	Instrument IV	1 creare	MUS-359	Composition Using Music	2 credits
<u>MAP-318</u>	Private Piano Study Secondary Instrument V	1 credit	<u>14105 337</u>	Technology	
MAP-350	Private Piano Study Secondary	1 credit	<u>MUS-370</u>	Piano Literature I	2 credits
	Instrument VI		<u>MUS-375</u>	Song Literature I	2 credits
MAP-450	Private Piano Study Secondary Instrument VII	1 credit	<u>MUS-376</u>	Song Literature II	2 credits
MAP-451	Private Piano Study Secondary	1 credit	<u>MUS-377</u>	Piano Literature II	2 credits
MDE 112	Instrument VIII Private Brass Study Secondary		<u>MUS-378</u>	Chamber Music Literature	2 credits
MBE-113	Instrument I	1 credit	<u>MUS-379</u>	Symphonic Music Literature	2 credits
MBE-123	Private Brass Study Secondary	1 credit	<u>MUS-453</u>	Advanced Conducting	2 credits
MDE 012	Instrument II Private Brass Study Secondary		MVA-119	Private Voice Study Secondary	1 credit
MBE-213	Instrument III	1 credit	MX/A 120	Instrument I Private Voice Study Secondary	1 11.
MBE-223	Private Brass Study Secondary	1 credit	MVA-129	Instrument II	1 credit
MDE 212	Instrument IV Private Brass Study Secondary	4	<u>MVA-219</u>	Private Voice Study Secondary	1 credit
MBE-313	Instrument V	1 credit	MVA-229	Instrument III Private Voice Study Secondary	1 1:4
MBE-323	Private Brass Study Secondary	1 credit	<u>W V A-229</u>	Instrument IV	1 credit
MDE 412	Instrument VI Private Brass Study Secondary	1 11	MVA-319	Private Voice Study Secondary Instrument V	1 credit
MBE-413	Instrument VII	1 credit	MVA-329	Private Voice Study Secondary	1 1:4
MBE-423	Private Brass Study Secondary	1 credit	<u>IVI V / I - 32 / </u>	Instrument VI	1 credit
MIE-113	Instrument VIII Private Percussion Study Secondary	1 1:4	MVA-419	Private Voice Study Secondary	1 credit
WIIL-113	Instrument I	1 credit	MVA-429	Instrument VII Private Voice Study Secondary	1 aradit
MIE-123	Private Percussion Study Secondary	1 credit	171 Y 11-7427	Instrument VIII	1 credit
MIE-213	Instrument II Private Percussion Study Secondary Instrument III	1 credit	<u>MWE-113</u>	Individual Instruction Woodwind Secondary Instrument I	1 credit
MIE-223	Private Percussion Study Secondary Instrument IV	1 credit	<u>MWE-123</u>	Individual Instruction Woodwind Secondary Instrument II	1 credit
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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

MWE-213	Individual Instruction Woodwind Secondary Instrument III	1 credit
<u>MWE-223</u>	Individual Instruction Woodwind Secondary Instrument IV	1 credit
<u>MWE-313</u>	Individual Instruction Woodwind Secondary Instrument V	1 credit
MWE-323	Individual Instruction Woodwind Secondary Instrument VI	1 credit
MWE-413	Individual Instruction Woodwind Secondary Instrument VII	1 credit
<u>MWE-429</u>	Individual Instruction Woodwind Secondary Instrument VII	1 credit
<u>WSA-125</u>	Introduction to Sound for Contemporary Worship	2 credits
WSA-213	Class Guitar	1 credit
WSA-214	Class Percussion	1 credit
WSA-330	Philosophy of Music in Worship	4 credits
WSA-408	Sound Recording	2 credits
WSA-418	Sound Reinforcement	2 credits

80 credits Music with an Emphasis in Voice Performance

# Department of Production: Advertising and Graphic Design Digital Design and Digital Film

The Department of Production is committed to the development of strong artistic leaders in the fields of Digital Design-Animation/Web Design and Digital Film-Production/Screenwriting.

The Bachelor of Arts in Digital Design prepares graduates for careers in the expanding digital arts and media fields, including social media and the Web, animation, and print design industries. Students learn to plan, analyze, and create visual solutions to communication problems for the global world. The program focuses on the development of creativity, communication, and problem-solving skills that demonstrate critical thinking and ethical leadership.

Each Grand Canyon University Digital Film student receives a strong foundation in narrative storytelling, creativity, technical skills, film history, and the hands-on experience necessary to design and deliver effective and affecting stories through the medium of digital film. The integration of scriptwriting and production allows Digital Film graduates a unique breadth of experience which will help prepare them to succeed in the ever changing marketplace of filmmaking.

# **Bachelor of Arts in Advertising and Graphic** Design

The Bachelor of Arts in Advertising and Graphic Design program develops students into creators of innovative advertising solutions utilizing integrated media strategies. The curriculum includes creative thinking, strategic problem solving, collaboration, brand and campaign development, and technology training for multi-platform campaigns. Students choose an emphasis area in Advertising Design, Public Relations, or Advertising Design Management. Students will be creative drivers of the concept and strategy, those who know the ins and outs of bringing ideas from paper to reality. Central to our

curriculum are three Studio courses, where students work on active client projects with their peers. Projects grow in complexity, mirroring the progression of job skills in an advertising agency. Students will graduate with portfolios containing a broad variety of projects, exposure to the advertising industry at both the local and national levels, and possessing skills to match current industry job requests for designers, art directors, and creative specialists.

### **Technology Requirements**

Students can view the programmatic technology requirements in the University Policy Handbook.

### **Degree Requirements**

Total General Education	34-40 credits
Total Advertising and Graphic Design	68 credits
Total Electives	12-18 credits
Total Advertising and Graphic Design	120 credits

Advertising a	nd Graphic Design	
DDN-101	Design Thinking	4 credits
<u>ADV-110</u>	Fundamentals of Advertising	4 credits
DDN-110	Design Fundamentals	4 credits
DDN-215	Digital Photography I	4 credits
DDN-120	Production Methods	4 credits
ADV-250	Advanced Design Fundamentals	4 credits
DDN-210	Designing with Type	4 credits
ADV-260	Advertising Copywriting	4 credits
ADV-355	Image Creation	4 credits
ADV-340	Media Law and Ethics	4 credits
DDN-300	Web Design I	4 credits
DDN-350	Web Design II	4 credits
ADV-350	Digital Advertising Communication	4 credits
ADV-371	Design Studio I	4 credits
ADV-456	Design Studio II	4 credits
ADV-471	Design Studio III	
DDN-475	Advanced Design Practicum	4 credits

Advertising and Graphic Design

68 credits

### **Bachelor of Arts in Broadcasting**

This program focuses on developing skills to create and deliver content for the evolving field of broadcast communication. Learners examine modern and emerging media platforms, mass media theories, storytelling techniques, ethics in broadcasting, as well as technical skills to produce quality content for a comprehensive spectrum of platforms. Students learn how to create compelling stories that reflect integrity, accuracy, and fairness. This program provides students with the skills and experience necessary to become valued members in the news, sports, entertainment, and other mass communication fields.

Total General Education	34-40 credits
Total Broadcoasting Major	44 credits
Total Electives	36-42 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Total Bach	120 credits	
Broadcastin	g Major	
BRD-100	Introduction to Broadcasting	4 credits
DFP-225	Nonlinear Editing	4 credits
COM-370	Principles of Public Relations	4 credits
PRW-301	Reporting and Newswriting	4 credits
BRD-310	Writing for Broadcast	4 credits
BRD-400	Producing for Broadcast	4 credits
BRD-320	Podcasting	4 credits
BRD-410	Reporting for Broadcast	4 credits
BRD-480	Broadcast Production	4 credits
COM-465	Digital Media and Culture	4 credits
BRD-490	Broadcasting Capstone	4 credits
Broadcastin	g Major	44 credits

# Bachelor of Arts in Digital Design with an Emphasis in Animation

The Bachelor of Arts in Digital Design with an Emphasis in Animation program prepares students to work as entry-level designers in a variety of exciting industries that use motion graphics including advertising, marketing, social media, journalism, and corporate communications. Students learn the design process, including concept development, visualization techniques, stylistic trends, composition, typography, color theory, image creation, and static and sequential composition using industry standard motion graphics software. While building all these skills, students create dynamic visual content in every studio course. Motion graphics pervade digital advertisements, social media videos, and brand experiences. The job opportunities for students with these skills span all sectors of the economy and will offer growth opportunities well into the future. This is a 4-year, 120-hour, traditional campus or online liberal arts program. The design education courses fall into three categories: foundational creative and skill development, motion graphics, and portfolio development. A mid-program portfolio focuses on preparing students to pursue internships and the fourth-year portfolio prepares students for employment and continued education. Students are expected to make these portfolios both industry ready and innovative in nature. Grand Canyon University is committed to teaching students to think critically and creatively about using their skills to improve and enrich society. Throughout the program students develop their communication, creativity, and problem-solving skills, because GCU believes in the development of the whole student. Examples of ethical leadership and the integration of a student's faith with their work are shown through profiles of Christian designers and guest speakers. Students can express their personal faith within design projects, as well as when choosing companies and causes to create content for, GCU is committed to building a creative community that is connected to the local and national design industry. The GCU Design Club (a multifaceted student design organization) and the student chapter of AIGA (Professional Association for Design) both provide opportunities for students to participate in extracurricular design events and career networking. Students are required to have both a personal laptop (meeting program specifications) and a subscription to the Adobe Creative Cloud for the duration of the program. Certain courses may require additional hardware and/or software.

### **Technology Requirements**

Students who major in the Bachelor of Arts in Digital Design must purchase specific design-related technology, including hardware and software that will be used throughout all of the courses that comprise the Digital Design major.

### **Degree Requirements**

Total General Education	34-40 credits
Total Digital Design with an Emphasis in Animation Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Digital Design with an Emphasis in Animation	120 credits

### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

DFP-111	Digitial Video Production I	4 credits
DFP-225	Nonlinear Editing	4 credits

### Digital Design with an Emphasis in Animation Major

DDN-101	Design Thinking	4 credits
DDN-115	Raster and Vector Technologies	4 credits
DDN-125	Layout and Composition	4 credits
DDN-160	2D Motion Design I	4 credits
DDN-120	Production Methods	4 credits
DDN-210	Designing with Type	4 credits
DDN-200	Creative Processes	4 credits
DDN-250	Interface Design 1: User Experience	4 credits
DDN-260	2D Motion Design 2	4 credits
DDN-276	Portfolio 1	4 credits
<u>DDN-340<sup>≸</sup>∆</u>	History of Design	4 credits
DDN-312	Advanced Typography	4 credits
DDN-306	3D Motion Design I	4 credits
DDN-331	3D Motion Design 2	4 credits
DDN-405	Design Professionalism	4 credits
DDN-371	Motion Technologies	4 credits
DDN-366	Advanced Motion Design 1	4 credits
DDN-421	Advanced Motion Design 2	4 credits
DDN-425	Advanced Motion Design 3	4 credits
DDN-476	Portfolio 2	4 credits

Digital Design with an Emphasis in Animation Major

# Bachelor of Arts in Digital Design with an Emphasis in Web Design

The Bachelor of Arts in Digital Design with an Emphasis in Web Design prepares students to work as entry-level designers in a variety of exciting industries that use screen-based content including advertising, marketing, branding, social media, and corporate communications. Behind every screen today is a digital designer deciding what content goes where, what moves, and how to marry form and function to create an enjoyable brand journey. Students learn the design process, including concept

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

composition, typography, color theory, user experience and interface concepts, and responsive design. Students will also learn fundamentals of HTML and CSS, content management systems, analytics, and create dynamic visual content in every studio course. The program aims to create adept designers with a set of skills that appeal across all sectors of the economy and will offer growth opportunities well into the future. This is a 4-year, 120-hour, traditional campus or online liberal arts program. The design education courses fall into three categories: foundational creative and skill development, motion graphics, and portfolio development. A mid-program portfolio focuses on preparing students to pursue internships and the fourth-year portfolio prepares students for employment and continued education. Students are expected to make these portfolios both industry ready and innovative in nature. Grand Canyon University is committed to teaching students to think critically and creatively about using their skills to improve and enrich society. Throughout the program students develop their communication, creativity, and problem-solving skills, because GCU believes in the development of the whole student. Examples of ethical leadership and the integration of a student's faith with their work are shown through profiles of Christian designers and guest speakers. Students can express their personal faith within design projects, as well as when choosing companies and causes to create content for. GCU is committed to building a creative community that is connected to the local and national design industry. The GCU Design Club (a multifaceted student design organization) and the student chapter of AIGA (Professional Association for Design) both provide opportunities for students to participate in extracurricular design events and career networking. Students are required to have both a personal laptop (meeting program specifications) and a subscription to the Adobe Creative Cloud for the duration of the program. Certain courses may require additional hardware and/or software.

development, visualization techniques, stylistic trends,

### **Technology Requirements**

Students who major in the Bachelor of Arts in Digital Design must purchase specific design-related technology, including hardware and software that will be used throughout all of the courses that comprise the Digital Design major.

### **Degree Requirements**

Total General Education	34-40 credits
Total Digital Design with an Emphasis in	76 credits
Web Design Major	
Total Electives	0-6 credits

Total Bachelor of Arts in Digital Design with an Emphasis in Web Design

### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

DFP-111	Digitial Video Production I	4 credits
<u>DFP-225</u>	Nonlinear Editing	4 credits

### Digital Design with an Emphasis in Web Design Major

<b>DDN-101</b>	Design Thinking	4 credits
DDN-115	Raster and Vector Technologies	4 credits
DDN-125	Layout and Composition	4 credits
<u>DDN-160</u>	2D Motion Design I	4 credits

DDN-120	Production Methods	4 credits
DDN-210	Designing with Type	4 credits
DDN-200	Creative Processes	4 credits
DDN-250	Interface Design 1: User Experience	4 credits
DDN-255	Interface Design 2: Web Design	4 credits
DDN-276	Portfolio 1	4 credits
DDN-340 <sup>€</sup> Δ	History of Design	4 credits
DDN-312	Advanced Typography	4 credits
DDN-351	Interface Design 3: Application	4 credits
	Design	
DDN-405	Design Professionalism	4 credits
DDN-336	Front-End Development for Web	4 credits
	Design	
DDN-356	Interface Design 4: Content	4 credits
	Management Systems	
<b>DDN-455</b>	Designing for New Technologies	4 credits
DDN-460	Advanced Web Projects	4 credits
DDN-476	Portfolio 2	4 credits
D: : 1D :	'd E I ' ' WID '	76 credits
Digital Design	gn with an Emphasis in Web Design	/o credits
Major		

# Bachelor of Arts in Digital Film with an Emphasis in Editing and Visual Effects

Grand Canyon University's Bachelor of Arts in Digital Film with an Emphasis in Editing and Visual Effects program develops leaders in the fields of narrative film and video postproduction. The program is built on developing a strong foundation in narrative storytelling, creativity, technical skills, and hands on experience necessary to design and deliver poignant messages.

### **Degree Requirements**

Total General Education	34-40 credits
Total Digital Film with an Emphasis in Production Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Digital Film with an Emphasis in Editing and Visual Effects	120 credits

### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

DFP-201	Cinema and Self-Expression	4 credits
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# Digital Film with an Emphasis in Editing and Visual Effects Major

BUS-302	Business for the Professional	4 credits
DFP-101 <sup>#</sup>	Creative Introduction to Cinema: History & Aesthetics	4 credits
DFP-111	Digital Video Production I	4 credits
<u>DFP-221</u> <sup>∆</sup>	Screenwriting I	4 credits
DFP-223	Cinematography	4 credits
DFP-225	Nonlinear Editing	4 credits
DFP-226	Visual Effects	4 credits
DFP-230	Writing the Genre Film	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

DFP-311 <sup>#</sup>	Cinema Directing	4 credits
DFP-323	Advanced Cinematography	4 credits
DFP-326	Visual Effects II	4 credits
DFP-330	Editing the Genre Film	4 credits
DFP-331	Visual Storytelling	4 credits
DFP-335	Promos and Trailers	4 credits
DFP-346	Development and Production of TV Commercials	4 credits
<u>DFP-351</u>	Audio Production for Cinema and Television	4 credits
DFP-352	Advanced Audio Production	4 credits
DFP-416	Advanced Compositing	4 credits
DFP-455	Advanced Digital Post-Production	4 credits
<u>DFP-371</u>	Social Impact Storytelling	4 credits
Digital Film	with an Emphasis in Editing and	80 credits

## **Bachelor of Arts in Digital Film with an Emphasis** in Production

Grand Canyon University's Bachelor of Arts in Digital Film with an emphasis in Production develops professionals in digital media for film and video. This program cultivates an understanding of film and its relationship to cultures and human flourishing from a Christian worldview. The student's artistic vision is refined through collaboration, storytelling, project management, and hands-on experience while honing technical skills and business acumen. Students will be prepared for entrylevel careers in entertainment, marketing, advertising, religious organizations, non-profits, and documentary productions.

### **Degree Requirements**

Visual Effects Major

Total General Education	34-40 credits
Total Digital Film with an Emphasis in Production Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Digital Film with an Emphasis in Production	120 credits

### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

<u>DFP-201</u>	Cinema and Self-Expression	4 credits
Digital Film	with an Emphasis in Production Major	

<u>DFP-101<sup>‡</sup></u>	Introduction to Cinema: History and Aesthetics	4 credits
DFP-111	Digital Video Production I	4 credits
<u>DFP-221</u> <sup>∆</sup>	Screenwriting I	4 credits
DFP-230	Writing the Genre Film	4 credits
DFP-223	Cinematography	4 credits
DFP-331	Visual Storytelling	4 credits
DFP-225	Nonlinear Editing	4 credits
DFP-351	Audio Production for Cinema and Television	4 credits

DFP-311 <sup>‡</sup>	Cinema Directing	4 credits
<u>DFP-301</u> <sup>∆</sup>	Film Production Management	4 credits
BUS-302	Business for the Professional Creative	4 credits
DFP-323	Advanced Cinematography	4 credits
DFP-401	Distribution & Exhibition	4 credits
DFP-346	Development and Production of TV Commercials	4 credits
DFP-371	Social Impact Storytelling	4 credits
DFP-451	Digital Production II	4 credits
DFP-326	Visual Effects II	4 credits
DFP-375	Writing for Interactive Media	4 credits
$\underline{\text{DFP-481}^{\Omega}}$	Digital Production Capstone	4 credits
Digital Film Major	with an Emphasis in Production	80 credits

# Bachelor of Arts in Digital Film with an Emphasis in Screenwriting

Grand Canyon University's Bachelor of Arts in Digital Film with an emphasis in Screenwriting develops professional writers for film, television, and digital platforms. This program cultivates an understanding of film and its relationship to cultures and human flourishing from a Christian worldview. Through compelling characters, story structure, formatting, narrative storytelling, and professional skills such as pitch presentation and networking, students advance their artistic voice. The program provides students with the skills necessary to create and deliver effective messages to prepare for entry-level careers in entertainment, marketing, advertising, religious organizations, non-profits, and documentary productions.

### **Degree Requirements**

Total General Education	34-40 credits
Total Digital Film with an Emphasis in Screenwriting Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Digital Film with an Emphasis in Screenwriting	120 credits

### **Required General Education**

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

<u>DFP-201</u>	Cinema and Self-Expression	4 cred

4 credits

Digital Film with an Emphasis in Screenwriting Major		
<u>DFP-101<sup>‡</sup></u>	Introduction to Cinema: History and Aesthetics	4 credits
<u>DFP-111</u>	Digital Video Production I	4 credits
<u>DFP-221</u> <sup>∆</sup>	Screenwriting I	4 credits
DFP-230	Writing the Genre Film	4 credits
DFP-223	Cinematography	4 credits
DFP-331	Visual Storytelling	4 credits
DFP-225	Nonlinear Editing	4 credits
DFP-235	Writing the Character-Centered	4 credits
DFP-226	Screenplay Visual Effects	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

4 credits

**DFP-226** 

Visual Effects

DFP-311 <sup>‡</sup>	Cinema Directing	4 credits
DFP-341	Writing Meaningful Dialogue	4 credits
BUS-302	Business for the Professional Creative	4 credits
DFP-375	Writing for Interactive Media	4 credits
<u>DFP-460</u>	Creating the Dramatic Television Series	4 credits
<u>DFP-346</u>	Development and Production of TV Commercials	4 credits
<u>DFP-457</u> <sup>∆</sup>	Screenwriting II	4 credits
DFP-463	Adapting Media to Screenplays	4 credits
PRW-381	Writing for Public Relations	4 credits
$\underline{\text{DFP-470}}^{\Omega}$	Screenwriting Capstone	4 credits
ADV-260	Advertising Copywriting	4 credits
D: '/ 1 E:1	74 E 1 1 1 G 77	80 credits

Digital Film with an Emphasis in Screenwriting 80 credits Major

## **Bachelor of Arts in Game Design**

As one of the most dynamic fast growing industries in the world, including the vibrant e-sports area, job growth is strong in entertainment, technology, and educational game design arenas. Most businesses are exploring the use of virtual worlds and games for training, sales, and scaleability. Millions of young people play games on a daily basis. This is a degree that allows them to channel that passion into a career. We're focused on the student who is most interested in the look and story of games. This is a program designing for the user experience.

### **Degree Requirements**

**Total General Education** 

Total Game Design Major		68 credits
Total Electives		12-18 credits
Total Bachelor of Arts in Game Design		120 credits
Game Design	n Major	
GMC-101	Game Design	4 credits
GMC-100	Introduction to Gaming	4 credits
GMC-110	Visual Art for Games	4 credits
GDT-115	Introduction to Game Engines	4 credits
MKT-315	Introduction to Marketing	4 credits
DDN-160	2D Motion Design 1	4 credits
DDN-330	3D Modeling Design I	4 credits
GMC-200	World Building	4 credits
DDN-260	2D Motion Design 2	4 credits
DDN-276	Portfolio 1	4 credits
GMC-351	Game Creation 1	4 credits
MKT-345	Buyer and Consumer Behavior	4 credits
GMC-352	Game Creation 2	4 credits
GMC-400	Game Promotion and Marketing	4 credits
GMC-451	Game Creation 3	4 credits
MGT-440	Project Management	4 credits

Game Design Major 68 credits

### **Bachelor of Arts in Social Media**

The Bachelor of Arts in Digital Social Media prepares students to design, write and produce content for social media campaigns, blogs, websites, email marketing, and other digital media activities. Coursework teaches digital media design through the continuum of production including strategic planning and target audience definition; creation of infographics, photographic and video imagery; and copywriting for short and long digital formats. Students also learn how to design and extend a brand, build social media calendars, drive engagement, utilize effective SEO (Search Engine Optimization) strategies, use industrystandard data reporting tools and evaluate the findings. Graduates of the program will be employed as Social Media Managers, Social Media Producers, Digital Content Creators, Digital Media Managers, and other job titles in the growing world of digital marketing. Advertising agencies, corporations, individuals and businesses in all fields utilize social media to deliver their digital content. GCU graduates will have the practical skills to design and produce digital social media content while supporting the business expectations of the employer.

### **Degree Requirements**

Total Bachelor of Arts in Social Media

Total General Education	34-40 credits
Total Social Media Major	68 credits
Total Electives	12-18 credits

120 credits

### Social Media

Social Media	1	
DDN-101	Design Thinking	4 credits
DDN-110	Design Fundamentals	4 credits
DSM-101	Introduction to Social Media	4 credits
DDN-120	Production Methods	4 credits
<u>DSM-215</u>	Photography and Video for Social Media	4 credits
DDN-210	Designing with Type	4 credits
ADV-260	Advertising Copywriting	4 credits
<u>DSM-300</u>	Social Media for Events, Entertainment, and Sports	4 credits
DSM-320	Social Media Communities	4 credits
DSM-340	Social Media Data and Analytics	4 credits
ENG-365	Multi-Media Journalism in the 21st Century	4 credits
DSM-400	Reputation Management	4 credits
ENG-381	Writing for Advertising and PR	4 credits
ADV-350	Digital Advertising Communication	4 credits
DSM-420	Social Media Campaigns	4 credits
$\overline{\text{DSM-475}^{\Omega}}$	Social Media Capstone	4 credits
<u>DDN-475</u> Ω	Advanced Design Practicum	4 credits
Social Media Major		68 credits

# Department of Theatre

The Department of Theatre provides the foundation needed to pursue careers in academic, professional, and community theatre. Students receive a comprehensive knowledge of the body of

4 credits

34-40 credits

**GMC-452** 

Game Creation 4

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

The Department of Theatre, in conjunction with the Department of Music, produces the Grand Canyon University Theatre Series which presents five major productions annually. Additionally, the department offers a student-directed series of productions that are performed on campus. Auditions for all productions are open to the entire student body.

### **Bachelor of Arts in Theatre and Drama**

The Bachelor of Arts in Theatre and Drama program provides students the foundation needed to pursue careers in community and professional theatre, the entertainment industry, and/or graduate study. Students are given the opportunity to receive a comprehensive knowledge of theatre history and dramatic literature, as well as practical experience in production and performance. The Theatre program, in conjunction with the Music program, produces the University Theatre series, which presents a series of major productions annually. Auditions for all of the productions are open to the entire student body. Prospective students may complete an audition for performance scholarship consideration, but it is not required for acceptance into the major.

### **Degree Requirements**

Total General Education	34-40 credits
Total Theatre and Drama Major	68 credits
Total Electives	12-18 credits

Total Bachelor of Arts in Theatre and Drama 120 credits

### Theatre and Drama Major

TRE-145	Acting I	4 credits
TRE-130	Stagecraft	4 credits
TRE-101	Theatre Participation I	1 credit
TRE-253	Acting II	4 credits
TRE-155	Voice and Movement for the Stage	4 credits
TRE-245	Fundamentals of Theatrical Design	4 credits
TRE-325 <sup>‡∆</sup>	Theatre History I: Greek to	4 credits
	Restoration	
TRE-201	Theatre Participation II	1 credit
TRE-335	Dramatic Literature I	4 credits
$\underline{TRE\text{-}330^{\not = \Delta}}$	Theatre History II: 18th Century to Present	4 credits
TRE-439 <sup>‡</sup>	Stage Direction	4 credits
TRE-301	Theatre Participation III	1 credit
TRE-339	Dramatic Literature II	4 credits
TRE-377	Scenic Design	4 credits
TRE-372	Costume Design	4 credits
TRE-490	The Business of Theatre	4 credits
TRE-401	Theatre Participation IV	1 credit
TRE-441	Stage Direction II	4 credits
TRE-475	Stage Lighting and Design	4 credits

Students should enroll in a total of 4 credits from the following courses

TRE-280 Playwriting 4 credits

TRE-251 Improvisation 4 credits

Arts in Theatre and Drama Major

68 credits

# **Bachelor of Arts in Theatre for Secondary Education (IP-TL)**

### (Initial Program - Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Arts in Theatre for Secondary Education (leads to credential) degree program is designed for students interested in teacher certification for the education of children in grades seven through twelve. The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, philosophy, methodology, and curriculum development. All courses are directly aligned with the Interstate New Teacher Support and Assessment Consortium (InTASC, April 2011), National Association of Schools of Theatre (NAST-Handbook, 2015-2016), and the International Society of Technology in Education (Standards-T2008) standards. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within many of the courses guide students through over 100 hours of observational and practice-based experiences, and the final semester of the program includes a full-time, 15week student teaching component. These educational settings must be state certified environments and mentor teachers must be fully certified. Teacher candidates are responsible for contacting their state department of education for certification requirements and program approval. Furthermore, teacher candidates should consult the Grand Canyon University Academic Catalog, the University Policy Handbook, and an academic counselor to obtain information regarding current policies and procedures inherent in a teacher credentialing program. While completing a solid path in theatre content knowledge, learners will complete the methodological courses necessary to become certified secondary educators. All education courses will be offered and designed by the College of Education. Graduates of the Bachelor of Arts in Theatre for Secondary Education program are prepared to become informed educators in public and private schools and other settings requiring a teaching credential. Students and applicants are responsible for contacting their state department of education for certification requirements and program approval. All students entering the program must audition; at which point scholarships may be awarded. The program is designed to train theatre educators and theatre practitioners by blending both the theory and the practice of theatre education/performance and its related fields. In addition to regular classroom studies, students are encouraged to take part in the Ethington Theatre Series in a variety of capacities, including onstage and offstage disciplines, thus allowing learners to explore the creative process from rehearsal to live performance. This global approach to theatre education training creates a graduate who is multi-faceted and prepared to succeed in today's marketplace.

Total General Education	34-40 credits
Total Theatre for Secondary Education Major	85 credits
Total Electives	0-6 credits
Total Bachelor of Arts in Theatre for Secondary Education	125 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Required	Ceneral	Education

(Included in General Education totals credits, applied to the Global Awareness competency.)

Giobai Awai	eness competency.)	
TRE-335	Dramatic Literature I	4 credits
TRE-339	Dramatic Literature II	4 credits
Theatre for	Secondary Education Major	
EDU-330	Social Justice for Educators	4 credits
ESL-445N	Methods of Structured English Immersion for Secondary Education	3 credits
POS-301	Arizona and Federal Government	2 credits
SEC-202	Psychology for Secondary	4 credits
<u>SEC-351</u>	Educators Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
<u>SEC-356</u>	Curriculum and Assessment for Secondary Educators	4 credits
SEC-451	Data-Driven Instructional Methods for Secondary Educators	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary	4 credits
<u>SEC-490</u>	Educators Student Teaching for Secondary Education	8 credits
SPD-208	Survey of Special Education: Teaching Children with	4 credits
TDE 101	Exceptionalities Theatre Participation I	1 credit
TRE-101	Stagecraft	4 credits
TRE-130		4 credits
TRE-145	Acting I	1 credits
TRE-201	Theatre Participation II	
TRE-225	Theatre Technology	4 credits
TRE-245	Fundamentals of Theatrical Design	4 credits
TRE-253	Acting II	4 credits
TRE-280	Playwriting	4 credits
TRE-301	Theatre Participation III	1 credit
TRE-347	Theatre Methods and Assessment in the Secondary School	4 credits
TRE-350	Theatre History	4 credits
TRE-401	Theatre Participation IV	1 credit
TRE-439	Stage Direction	4 credits
TRE-475	Stage Lighting and Design	4 credits
Theatre for S	Secondary Education Major	85 credits
Total Practic	eum/Field Experience Hours	100 hours

### **Minors**

### Minor in Advertising and Graphic Design

Communication using fundamentals of advertising can be used across a variety of disciplines in many settings. The Advertising and Graphic Design minor at Grand Canyon University introduces students to the foundations of design and methods of production. The student is familiarized with a fundamental understanding of advertising principles that have many applications.

ADV-110	Fundamentals of Advertising	4 credits
DDN-115	Raster and Vector Technologies	4 credits
DDN-101	Design Thinking	4 credits
ADV-250	Advanced Design Fundamentals	4 credits
<u>ADV-260</u>	Advertising Copywriting	4 credits
Minor in Advertising and Graphic Design		20 credits

### **Minor in Animation Design**

The Minor in Animation Design provides non-major students a foundational understanding used to design and produce 2D motion graphics. Students will learn the technology and processes for developing ideas, storyboarding, creating assets and building the structure for motion graphics.

DDN-260	2D Motion Design II	4 credits
DDN-160	2D Motion Design I	4 credits
DDN-115	Raster and Vector Technologies	4 credits
DDN-101	Design Thinking	4 credits

### Minor in Dance

A minor in Dance is designed to develop a student's physical and cognitive skills and knowledge in the art of dance. Dance studies enhance any other area of study by providing opportunities to develop character, leadership skills, cooperation, and respect for others. Dance reflects cultural influences throughout the world and transcends religious barriers in its ability to communicate universal truths, leading to a shared understanding and expression of the human experience.

<b>DAN-120</b>	Modern I	1 credit
DAN-100	Ballet I	1 credit
DAN-101	Jazz I	1 credit
DAN-270	Modern II	1 credit
DAN-210	Improvisation	1 credit
DAN-250	Ballet II	1 credit
DAN-260	Jazz II	1 credit
DAN-315	Dance History I	4 credits
DAN-355	Dance Kinesiology	4 credits
DAN-302	Tap I	1 credit
DAN-305	Hip-Hop I	1 credit
<u>DAN-375</u>	Choreography I: Space and Time/Design and Dance	2 credit

### Minor in Digital Design

Minor in Dance

Design principles can be used in a variety of disciplines. The Minor in Digital Design provides non-major students a foundational understanding of design thinking, design principles, and the basic technical tools and processes used in the creation of designed content, laying a foundation for understanding design concepts that can be applied in many settings, from simple presentations to complex proposals.

DDN-101 Design Thinking	4 credits
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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

DDN-115	Raster and Vector Technologies	4 credits
DDN-125	Layout and Composition	4 credits
<u>DDN-120</u>	Production Methods	4 credits

Minor in Digital Design

16 credits

## **Minor in Digital Film**

The Digital Film Minor introduces students from various programs to the foundation of strong filmmaking. Students study and analyze film history before engaging in production and screenwriting courses. Digital Film Minors are also encouraged to participate in Digital Film events such as the 48 Hour Film Challenge, the GCU Film Festival, and Screenwriting Competition.

<u>DFP-101<sup>#</sup></u>	Introduction to Cinema: History and Aesthetics	4 credits
DFP-111	Digital Video Production I	4 credits
DFP-221 <sup>∆</sup>	Screenwriting I	4 credits
DFP-225	Nonlinear Editing	4 credits
DFP-311 <sup>‡</sup>	Cinema Directing	4 credits
		20 1'4

Minor in Digital Film

20 credits

## Minor in Game Design

Game Design skills focus on the imagination and creation of games in all forms, including analog, digital, mobile, and immersive. These courses provide students a foundation game theory, user motivations, the game creation pipeline, and the adoption of gaming content across multiple industries. Students interested in play, e-sports, and the business and design of games will benefit from this minor.

GMC-100	Introduction to Gaming	4 credits
GMC-101	Game Design	4 credits
GMC-110	Visual Arts for Games	4 credits
<u>GMC-200</u>	World Building	4 credits
Minor in Game Design		16 credits

### Minor in Music – Instrumental

A minor in Music at Grand Canyon University will enhance any area of study, from Accounting to Worship, and everything in between. Music studies enhance any other area of study by providing opportunities to develop character, creative problem solving, higher level thinking, leadership skills, cooperation and respect for others, and a greater understanding of an individual's place within the Christian World View. All music minors are requested to take the Music Theory Placement Assessment, to determine their level of knowledge in music theory.

MUS-125	Music Theory I	4 credits	
MUS-155	Music Theory II	4 credits	
MUS-210	Music Appreciation	4 credits	
MUS-218	Popular Music in American Society	4 credits	
8 Credits of Applied Instruction			
MAP-201	Secondary Music Applied Lessons	1 credit	
Four Semeste	0 credit		
Minor in Music - Instrumental		24 credits	

## Minor in Music - Piano

A minor in Music at Grand Canyon University will enhance any area of study, from Accounting to Worship, and everything in between. Music studies enhance any other area of study by providing opportunities to develop character, creative problem solving, higher level thinking, leadership skills, cooperation and respect for others, and a greater understanding of an individual's place within the Christian World View. All music minors are requested to take the Music Theory Placement Assessment, to determine their level of knowledge in music theory.

MUS-125	Music Theory I	4 credits
MUS-155	Music Theory II	4 credits
MUS-210	Music Appreciation	4 credits
MUS-218	Popular Music in American Society	4 credits
8 Credits of	Applied Instruction	
MAP-201	Secondary Music Applied Lessons	1 credit
Four Semest	ters of Music Ensemble	0 credit
Minor in Music - Piano		24 credits

### Minor in Music – Vocal

A minor in Music at Grand Canyon University will enhance any area of study, from Accounting to Worship, and everything in between. Music studies enhance any other area of study by providing opportunities to develop character, creative problem solving, higher level thinking, leadership skills, cooperation and respect for others, and a greater understanding of an individual's place within the Christian World View. All music minors are requested to take the Music Theory Placement Assessment, to determine their level of knowledge in music theory.

MUS-125	Music Theory I	4 credits
MUS-155	Music Theory II	4 credits
MUS-210	Music Appreciation	4 credits
MUS-218	Popular Music in American Society	4 credits
8 Credits of	Applied Instruction	
MAP-201	Secondary Music Applied Lessons	1 credit
Four Semesters of Music Ensemble		0 credit
Minor in Music - Vocal		24 credits

### Minor in Musical Theatre

The minor in Musical Theatre at Grand Canyon University introduces students to the foundations of musical theater styles and history and advances principles applied to the form through courses in acting, movement, and voice production. The minor in Musical Theatrer provides students from all majors the opportunity to focus on effective communication, using the body and the voice, and to develop critical thinking skills, analyzing music, text, and movement from a wide variety of styles and cultures. The minor specifically complements theatre, music, or dance majors in their major program of study with an artistic form that broadens marketability within the industry and promotes self-development, artistic exploration, and creative innovation.

DAN-101	Introduction to Jazz Technique	1 credit
DAN-302	Tap I	

TRE-145	Acting I	4 credits	
TRE-155	Voice and Movement for the Stage	4 credits	
DAN-260	Jazz Technique II	1 credit	
DAN-402	Tap II	1 credit	
TRE-380	Musical Theatre Literature	4 credits	
8 Credits of Applied Instruction			
MAP-201	Secondary Music Applied Lessons	1 credit	
Minor in Musical Theatre		24 credits	

# Minor in Photography

A minor in photography provides students the ability to create images that can expand and improve their ability to communicate. Classes cover basic and studio photography, basic video creation, and photo and video for social media.

Minor in Photography		16 credits
<u>DFP-111</u>	Digital Film Production I	4 credits
<u>DSM-215</u>	Photo and Video for Social Media	4 credits
<u>DDN-315</u>	Digital Photography II	4 credits
<b>DDN-215</b>	Digital Photography I	4 credits

### Minor in Social Media

Minor in Social Media

Social media skills are in high demand for every professional, regardless of industry. It is essential that all university students have access to social media coursework that will be practical for them as they move forward in their careers. A minor in Social Media provides this foundation of understanding in social channels, content creation, brand and campaign management.

DSM-101	Introduction to Social Media	4 credits
DSM-215	Photo and Video for Social Media	4 credits
DSM-350	Personal Brand Management	4 credits
<u>DSM-420</u>	Social Media Campaigns	4 credits

### **Minor in Theatre**

A Minor in Theatre and Drama at Grand Canyon University will enhance any area of study, from Accounting to Worship, and everything in between. A theatre minor is the perfect way to develop individual strengths and interpersonal skills such as speaking techniques, practical methods of creating trust and attaining goals, creative problem solving, higher level thinking, teamwork, and a greater understanding of an individual's place within the Christian World View.

TRE-130	Stagecraft	4 credits
TRE-145	Acting I	4 credits
TRE-439 <sup>‡</sup>	Stage Direction	4 credits
TRE-245	Fundamentals of Theatrical Design	4 credits
One of the fo	ollowing two courses:	
TRE-325 <sup>‡∆</sup>	Theatre History I: Greek to	4 credits
<u>TRE-330<sup>≠∆</sup></u>	Restoration Theatre History II: 18th Century to Present	4 credits
One of the fo	ollowing two courses:	
TRE-335	Dramatic Literature I	4 credits
TRE-339	Dramatic Literature II	4 credits
Minor in The	eatre	24 credits

### Minor in Web Design

The Minor in Web Design provides non-major students a foundational understanding of user experience design for web-based products. Students will learn the technology and processes for launching and supporting basic web sites.

DDN-101	Design Thinking	4 credits
DDN-115	Raster and Vector Technologies	4 credits
DDN-250	Interface Design 1: User Experience	4 credits
DDN-255	Interface Design 2: Web Design	4 credits
Minor in Web Design		16 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# The College of Humanities and Social Sciences

# College Description

The College of Humanities and Social Sciences (CHSS) is dedicated to providing its learners with rigorous programs and the highest levels of pedagogy. Faculty and staff work to create a Christian-based learning environment focused on expanding students' understanding while preparing them for professional environments. Using practical experiences students learn in-depth knowledge of their fields of study, problem solving skills, rational thinking, leadership, and effective communication. Faculty and staff build meaningful relationships with students through extracurricular communities related to their discipline of study.

# College Mission

In the College of Humanities and Social Sciences, we cultivate in our students a profound sense of purpose rooted in a Christian perspective that prioritizes the intrinsic value and dignity of every individual. Our faculty inspire and enhance the lives of our students through deep learning experiences and meaningful curriculum that provide opportunities for direct application of new skills. By studying both the humanities and social sciences, our learners ultimately embark on a journey that will transform and enrich individual lives and communities so they may flourish.

# **Humanities Programs**

The Humanities programs are designed to tell the stories, stimulate the ideas, and provide the words that help students make sense of their lives and the world in which they live. The programs introduce students to people and cultures that they have never met or experienced, places they have never seen or visited, and ideas that may have never crossed their minds. Through study of how others have lived and thought about life, students will begin to discern what is important in their own lives and what they might do to make them better, what is right or wrong, and the impact that heritage and history have on their thoughts and experiences. Graduates of the humanities programs will enter the workforce with a solid understanding of themselves and the human conditions. They will have the cultural knowledge and communication skills to address the challenges that we face together in our families, our communities, our nation, and our global society.

### **Bachelor of Arts in Communications**

Students majoring in communication engage in a thoughtful exploration of how the construction of messages, communicator characteristics, and contextual factors influence professional and personal lives. The Bachelor of Arts in Communication program at GCU provides opportunities for scholarship in organizational, political, mass mediated, interpersonal, and intercultural communication contexts. The organizational emphasis allows students to focus on communication skills directly applicable to public relations, political communication, human resources, sales, and marketing. This program, like the greater GCU community, embodies Christian virtues in the way people communicate with each another. Faculty act as guides, collaborators, and mentors as students find their purpose. Students who earn their degree in communication work in a wide variety of contexts. Students at GCU learn the skills necessary to be competitive in both for profit and nonprofit sectors. Common careers for communication majors with an organizational emphasis are public relations specialists, corporate trainers, campaign managers, community

action directors, account executives, sales representatives, and human resources coordinators.

### **Degree Requirements**

Total General Education		34-40 credits
Total Communications Major		52 credits
Total Electives		28-34 credits
Total Bache	lor of Arts in Communications	120 credits
Communicat	ion Major	
COM-100	Fundamentals of Communication	4 credits
COM-222	Small Group Communication	4 credits
<u>COM-263</u> <sup>∆</sup>	Elements of Intercultural Communication	4 credits
COM-312	Conflict and Negotiation	4 credits
COM-333	Communication Ethics	4 credits
COM-355	Communication Research Methods	4 credits
COM-362 <sup>‡</sup>	Argumentation and Advocacy	4 credits
COM-370	Principles of Public Relations	4 credits
<u>COM-451<sup>≠∆</sup></u>	Relational Communication	4 credits
COM-456	Organizational Communication	4 credits
COM-472	Training and Development	4 credits

Communications Major

**COM-475** 

 $COM-490^{\Omega}$ 

4 credits
52 credits

4 credits

# Bachelor of Arts in Communications with an Emphasis in Broadcasting and New Media

Communication Campaigns

Communication Capstone

This program emphasis is for people who are passionate about mass communication and media. Examination of modern communication techniques, learning about theories of mass media, the characteristics and effects of mass communication channels, developing skills to interpret visual and verbal communication in the mainstream and social media, learning about new media tools will prepare students to apply critical thinking when it comes to analyzing different media content. It will also give them practical skills on the job market like being able to create effective press releases, podcast, pitch a news story or recognize the effects of media on consumers.

Total General Education	34-40 credits
Total Communications with an Emphasis in Broadcasting and New Media Major	52 credits
Total Flectives	28-34 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Total Bachelor of Arts in Communications	120 credits
with an Emphasis in Broadcating and New	
Media	

# Communications with an Emphasis in Broadcasting and New Medica Major

COM-100	Fundamentals of Communication	4 credits
DFP-111	Digital Video Production I	4 Credits
COM-222	Small Group Communication	4 credits
<u>COM-263</u> <sup>∆</sup>	Elements of Intercultural Communication	4 credits
COM-312	Conflict and Negotiation	4 credits
COM-333	Communication Ethics	4 credits
COM-355	Communication Research Methods	4 credits
COM-362 <sup>‡</sup>	Argumentation and Advocacy	4 credits
<u>COM-451<sup>‡∆</sup></u>	Relational Communication	4 credits
COM-461	Media Theory	4 credits
COM-463	Broadcasting and Podcasting	4 credits
COM-465	Digital Media and Culture	4 credits
<u>COM-490</u> <sup>Ω</sup>	Communication Capstone	4 credits

# Bachelor of Arts in Communications with an Emphasis in Interpersonal Communication and Human Relationships

Communications with an Emphasis in

Broadcasting and New Media Major

This program emphasis is for people who are passionate about building healthy relationships and who recognize that the 21st century economy, with all of its technological advancements and innovations, is still grounded in effective relationships and collaboration between people. In this emphasis, students will take a deep dive into interpersonal communication theory and research applied to the 21st century workplace. Students will learn how to leverage interpersonal skills such as social influence, nonverbal effectiveness, advanced speech communication, leadership and group problem solving, and digital literacy to foster the effective and ethical communication that creates successful teams and organizations.

### **Degree Requirements**

Total General Education	34-40 credits
Total Communications with an Emphasis in Interpersonal Communication and Human Relationships Major	52 credits
Total Electives	28-34 credits
Total Bachelor of Arts in Communications with an Emphasis in Interpersonal Communication and Human Relationships	120 credits

### Communication with an Emphasis in Interpersonal Communication and Human Relationships Major

Fundamentals of Communication	4 credits
Small Group Communication	4 credits
Elements of Intercultural	4 credits
Communication	
Conflict and Negotiation	4 credits
	Small Group Communication Elements of Intercultural Communication

COM-333	Communication Ethics	4 credits
COM-355	Communication Research Methods	4 credits
COM-362 <sup>‡</sup>	Argumentation and Advocacy	4 credits
SOC-320	Marriage and Family	4 credits
COM-451 <sup>‡∆</sup>	Relational Communication	4 credits
COM-453	Darkside Communication and	4 credits
<u>COM-455</u>	Forgiveness in Relationships Nonverbal Communication in Relationships	4 credits
COM-457	Workplace Relationships	4 credits
<u>COM-490</u> <sup>Ω</sup>	Communication Capstone	4 credits
Communications with an Emphasis in Interpersonal Communication and Human Relationships Major  52 credits		

# Bachelor of Arts in English for Secondary Education (IP/TL)

### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Arts in English for Secondary Education degree program is designed to provide future secondary teachers with skills in comprehending and interpreting texts, thinking critically about texts in a number of media, and effectively expressing their ideas orally and in writing. The format and courses of this regionally accredited and Arizona State Board of Education approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. By studying works of literature in context, focusing on particular authors and genres of literature, and analyzing the English language, students will be introduced to diverse artistic expressions. They will grapple with major issues and themes common to human life. Writing courses within the major will give students further practice in effective communication for a variety of media. Emphasis will be given to examining and implementing methodologies needed to teach writing, texts, and language to adolescents, enabling majors in this area to make informed, context-based decisions about instruction at the middle and secondary levels. All courses are directly aligned with the Interstate Teacher Assessment and Support Consortium (InTASC), National Council of Teachers of English (NCTE), and the International Society of Technology in Education (ISTE) standards. Teacher candidates must have access to a grade 6-12 classroom to complete the program and practicum assignments, which guide them through 100 hours of observational experiences. The final semester of this Secondary Education program includes a full-time, 15-week student teaching component. Candidates are responsible for contacting their state department of education for licensure requirements and program approval.

# **Degree Requirements**

Total General Education	34-40 credits
Total English for Secondary Education Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in English for Secondary Education	120 credits
Total Practicum/Field Experience	85 hours

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **Required General Education**

HIS-144

(Included in General Education totals credits, applied to the Global Awareness competency.)

U.S. History Themes

ENG-130	Introduction to Young Adult Literature	4 credits
English for S	Secondary Education Major	
<u>SEC-202</u>	Psychology for Secondary Educators	4 credits
ENG-250	Analysis of World Literature	4 credits
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>SPD-208</u>	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
GOV-260	Arizona Constitution & Government	1 credit
<u>SEC-356</u>	Curriculum and Assessment for Secondary Educators	4 credits
ENG-357	Foundational Texts of British Literature	4 credits
<u>SEC-351</u>	Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
<u>ESL-445N</u>	Methods of Structured English Immersion for Secondary Education	3 credits
ENG- 355	Multicultural Literature	4 credits
<u>SEC-451</u>	Data-Driven Instructional Methods for Secondary Educators	4 credits
ENG-360	American Encounter Narratives	4 credits
ENG-470	Methods for Teaching Writing, Grammar and Linguistics for Secondary Education	4 credits
ENG-460	The Novel	4 credits
ENG-361	The Art and Craft of Creative Writing	4 credits
ENG-450	Shakespeare	4 credits
ENG-359	Transatlantic Literature	4 credits
ENG-472	Methods for Teaching Literature for Secondary Education	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary Educators	4 credits
<u>SEC-490</u> <sup>Ω</sup>	Student Teaching for Secondary Education	8 credits
English for S	Secondary Education Major	80 credits

# Bachelor of Arts in Government with an **Emphasis in Legal Studies**

The degree in Government with an Emphasis in Legal Studies is designed to provide students with a solid foundation in the skills, knowledge, and ethical leadership to excel in law school. Rooted in the study of politics and policy, the emphasis provides additional interdisciplinary course work in communication, justice studies, philosophy, business, and theology.

### **Degree Requirements**

4 credits

Total General Education	34-40 credits
Total Government with an Emphasis in Legal Studies Major	44 credits
Total Electives	36-42 credits
Total Bachelor of Arts in Government with an Emphasis in Legal Studies	120 credits

### Government with an Emphasis in Legal Studies Major

GOV-140	American Government and Politics	4 credits
<u>GOV-210</u>	Introduction to Comparative Government and International	4 credits
	Politics	
GOV-307*	Introduction to Political Theory	4 credits
GOV-358	Research Methods in Government and Politics	4 credits
<u>GOV-378</u> <sup>₹Δ</sup>	American Constitution	4 credits
GOV-364	Public Policy Analysis	4 credits
GOV-357	Philosophy of Law	4 credits
GOV-360	Civil Law	4 credits
JUS-430	Criminal Law	4 credits
GOV-455	Practice of Law	4 credits
<u>GOV-459</u> <sup>∆</sup>	Government Capstone	4 credits
Government	with an Emphasis in Legal Studies	44 credits

# Bachelor of Arts in Government with an **Emphasis in Public Administration**

The degree in Government with an Emphasis in Public Administration is designed to provide public service leadership in the local and state arena. Students will study the inner workings of local and state government, as well as the public policies that are necessary for sustaining and improving the lives of people in their local and state communities.

### **Degree Requirements**

Major

Total General Education	34-40 credits
Total Government with an Emphasis in Public Administration Major	44 credits
Total Electives	36-42 credits
Total Bachelor of Arts in Government with an Emphasis in Public Administration	120 credits

### Government with an Emphasis in Public Administration Major

-	4 : G : 1D 1':	4 11.
GOV-140	American Government and Politics	4 credits
GOV-210	Introduction to Comparative	4 credits
<u>00 V-210</u>	Government and International	
	Politics	
COM 270#A	American Constitution	4 credits
<u>GOV-378</u> <sup>‡∆</sup>	i increan constitution	+ cicuits
GOV-366	State and Local Government	4 credits
<u>UU V - 300</u>	State and Botal Government	· credits
GOV-358	Research Methods in Government	4 credits
GO V-330	and Politics	
GOV-364	Public Policy Analysis	4 credits
20. 301		
GOV-307 <sup>‡</sup>	Introduction to Political Theory	4 credits
GO V - 30 /	introduction to I officer Theory	- creares

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<sup>\*</sup>Program completion does not guarantee acceptance into law school.

GOV-376	Municipal Government and	4 credits
	Administration	
<u>GOV-351</u>	Public Administration	4 credits
GOV-467	Special Topics in Federal-State-	4 credits
	Local Relations	
<u>GOV-459</u> <sup>∆</sup>	Government Capstone	4 credits
Government	with an Emphasis in Public	44 credits

Government with an Emphasis in Public 44 credits
Administration Major

# Bachelor of Arts in History for Secondary Education (IP/TL)

### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Arts in History for Secondary Education degree program is designed to provide future middle and high school teachers with the content knowledge they need to be successful teachers of history and social studies. While completing a solid path in historical content, learners will complete the methodological courses necessary to become certified secondary educators. All education courses will be designed and offered by the College of Education. The format and courses of this regionally accredited and Arizona State Board of Education approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Teacher candidates will attain an extensive breadth and depth of content knowledge as well as research-based pedagogical practices prior to entering the classroom. This program prepares graduates to use the skills of the historian such as research, critical thinking, and effective communication in their future educational settings. Teacher candidates must have access to a grade 6-12 classroom to complete the program and practicum assignments, which guide them through 85 hours of observational experiences. The final semester of this Secondary Education program includes a full-time, 15-week student teaching component. Candidates are responsible for contacting their state department of education for licensure requirements and program approval

### **Degree Requirements**

Total General Education	34-40 credits
Total History for Secondary Education Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Arts in History for Secondary Education	120 credits
Total Practicum/Field Experience	85 hours

### **Required General Education**

HIS-110

(Included in General Education totals credits, applied to the Global Awareness competency.)

World History Themes

HIS-327	Community History	4 credits
History for S	Secondary Education Major	
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>ESL-445N</u>	Methods of Structured English Immersion for Secondary Education	3 credits
GOV-260	Arizona Constitution & Government	1 credit
HIS-144	U.S. History Themes	4 credits

<u>HIS-255</u> <sup>∆</sup>	Historical Research and Applied Methods	4 credits
HIS-304	Methods of Teaching History in Secondary Schools	4 credits
HIS-306	Historians in Theory and Practice	4 credits
HIS-325	Ancient Mediterranean History	4 credits
HIS-350 <sup>‡</sup>	Survey of Asian Empires	4 credits
HIS-380	Renaissance and Reformation	4 credits
HIS-386 <sup>∆</sup>	War and Revolution	4 credits
HIS-450 <sup>‡</sup>	U.S. History Since 1945	4 credits
HIS-466 <sup>‡</sup>	Southwest Borderlands	4 credits
SEC-202	Psychology for Secondary Educators	4 credits
<u>SEC-351</u>	Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
SEC-356	Curriculum and Assessment for Secondary Educators	4 credits
SEC-451	Data-Driven Instructional Methods for Secondary Educators	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary Educators	4 credits
<u>SEC-490</u> <sup>Ω</sup>	Student Teaching for Secondary Education	8 credits
SPD-208	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
History for Se	econdary Education Major	80 credits

# **Bachelor of Arts in History**

Grand Canyon University's Bachelor of Arts in History degree program allows students to study the past as a means of understanding the complexity of the world today. Earning a history degree affords graduates essential skills including critical thinking and writing. These proficiencies may prepare graduates for careers in teaching, public service, government, policy making, communication, or business management. A history degree allows students to develop the skills and knowledge associated with a liberal arts degree, while providing an orientation to the complexity and diversity of the world through a disciplined study of the past, necessary to compete in a global economy. This degree program provides graduates with foundational structures that may prepare them for graduate degrees in business, history, or law.

### **Degree Requirements**

Total General Education		34-40 credits
Total History Major		48 credits
Total Elect	ives	32-38 credits
Total Bachelor of Arts in History		120 credits
History Ma	jor	
HIS-110	World History Themes	4 credits
<u>HIS-255∆</u>	Historical Research and Applied Methods	4 credits
HIS-144	U.S. History Themes	4 credits
HIS-306	Historians in Theory and Practice	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

HIS-350	Survey of Asian Empires	4 credits
<u>HIS-386</u> <sup>∆</sup>	War and Revolution	4 credits
HIS-325	Ancient Mediterranean History	4 credits
HIS-463	Women in History	4 credits
HIS-380	Renaissance and Reformation	4 credits
HIS-450 <sup>‡</sup>	U.S. History Since 1945	4 credits
HIS-466 <sup>‡</sup>	Southwest Borderlands	4 credits
<u>HIS-426</u>	20th Century Europe	4 credits
History Majo	r	48 credits

## **Bachelor of Arts in Professional Writing for New** Media

GCU's Bachelor of Arts in Professional Writing degree program prepares students for successful writing careers in the 21st century. This program focuses on developing writers for a constantly changing media landscape. Exploring multiple genres and writing disciplines allows students to develop advanced writing skills, enrich critical thinking, and enhance their understanding of power of the English language as a whole. Coursework in diverse areas such as journalism, public relations, design, copywriting, technical writing and creative writing uniquely qualifies graduates to pursue a successful writing career. The program is designed to hone writers' storytelling skills and refine insights needed to deliver information to audiences using the tools of various media. Graduates will strengthen organizations and communities with ethical communication of accurate research, based on an understanding of the power and ramifications of language choice and communication styles. A Bachelor of Arts in Professional Writing allows students to develop the array of skills necessary to be successful in the professional world.

### **Degree Requirements**

Total General Education	34-40 credits
Total Professional Writing for New Media Major	48 credits
Total Electives	32-38 credits
Total Bachelor of Arts in Professional Writing for New Media	120 credits

Professional	Writing for New Media Major	
PRW-100	Introduction to Professional Writing	4 credits
DDN-115	Raster and Vector Technologies	4 credits
PRW-301	Reporting and Newswriting	4 credits
ENG-365	Multi-Media Journalism in the 21 <sup>st</sup> Century	4 credits
PRW-345	Introduction to Grant Writing	4 credits
PRW-381	Writing for Public Relations	4 credits
ADV-260	Advertising Copywriting	4 credits
ENG-456	Communicating Scientific Ideas to Popular Audiences	4 credits
ENG-361	The Art and Craft of Creative Writing	4 credits
PRW-466	Technical Writing	4 credits
PRW-470	Multimedia Feature Writing	4 credits
$ENG-477^{\Omega}$	Professional Writing Capstone	4 credits

48 credits Professional Writing for New Media Major

## **Bachelor of Arts in Spanish**

Total Bachelor of Arts in Spanish

The Bachelor of Arts in Spanish prepares students with active communication skills, cultural and historical awareness, and viable professional skills for careers in every area of life. Courses in the program provide students with foundational skills in conversation, reading and writing through advanced language studies in literature, history, and contemporary issues.

### **Degree Requirements**

Total General Education	34-40 credits
Total Spanish Major	44 credits
Total Electives	36-42 credits

120 credits

### Cnanish Major

Spanish Maj	or	
SPA-214	Intermediate Spanish I	4 credits
SPA-224	Intermediate Spanish II	4 credits
<u>SPA-310</u> <sup>∆</sup>	Spanish Composition and Grammar	4 credits
SPA-309	Spanish Conversation	4 credits
SPA-320 <sup>≴</sup>	Contemporary Issues	4 credits
<u>SPA-341<sup>ΔΩ</sup></u>	Introduction to Literature in Spanish	4 credits
$SPA-410^{\frac{1}{2}\Omega}$	Theory and Methodology for Translation and Interpretation	4 credits
SPA-420 Ω	Spanish for Professions I	4 credits
<u>SPA-440 Ω</u>	Web-Based Resources and Technology for Translation and Interpretation	4 credits
SPA-430 Ω	Spanish for Professions II	4 credits
<u>SPA-450 Ω</u>	Spanish Capstone	4 credits
Spanish Majo	or	44 credits

### **Bachelor of Science in Fire Science**

The Bachelor of Science in Fire Science program provides the requisite skills and knowledge to be successful in the field of Fire Service. This program will also help students develop skills for leadership in ranking positions such as a Firefighter, Captain, or Chief Officer positions. Emphasizing servant leadership, the program will develop one's ability to communicate an organization's mission and vision to diverse audiences and key stakeholders. As part of GCU's Christian learning community, enrollees in the program will develop leadership skills that place special importance on contributing to the greater social good.

### **Degree Requirements**

	4 credits
Total Fire Science Major 4	4 Cledits
Total Electives 36-4	2 credits
Total Bachelor of Science in Fire Science 12	0 credits

## Fire Science Major

e and Emergency Services	4 credits
ministration	
$\mathcal{E}$	4 credits
	e and Emergency Services ministration itical and Legal Foundations for e Protection

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

FSC-310	Personnel Management for the Fire	4 credits
	Service	
FSC-340	Applications of Fire Research	4 credits
FSC-400	Fire Prevention	4 credits
FSC-415	Community Risk Reduction for the	4 credits
	Fire and Emergency Services	
FSC-450	Fire Service Ethics	4 credits
PRW-345	Introduction to Grant Writing	4 credits
MGT-420	Organizational Behavior and	4 credits
	Management	
COM-457	Workplace Relationships	4 credits
$\underline{\text{FSC-490}^{\Omega}}$	Fire Science Capstone	4 credits
Fire Science	Major	44 credits

## **Bachelor of Science in Mathematics for Secondary Education (IP/TL)**

### (Initial Program-Leads to Initial Teacher Licensure)

Grand Canyon University's Bachelor of Science in Mathematics for Secondary Education program is designed to provide future teachers with the content and pedagogical knowledge for success in teaching mathematics. The format and courses of this regionally accredited and Arizona State Board of Education approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. Graduates will be prepared with the critical thinking and general problem-solving skills to tackle difficult problems from any field and to prepare their own students to do the same. With a balanced program of applied and theoretical mathematics and education courses, students complete a solid curriculum of mathematics content while developing the methodological expertise necessary to become effective and skilled secondary educators. Teacher candidates must have access to a grade 6-12 classroom to complete the program and practicum assignments, which guide them through 85 hours of observational experiences. The final semester of this Secondary Education program includes a full-time, 15-week student teaching component. Candidates are responsible for contacting their state department of education for licensure requirements and program approval.

### **Degree Requirements**

Total General Education	34-40 credits
Total Mathematics for Secondary Education Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Mathematics for Secondary Education	120 credits
Total Practicum/Field Experience	85 hours

### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

<u>HIS-144</u>	U.S. History Themes	4 credits
*	General Education totals aking competency.)	credits, applied to the
MAT-261	Pre-Calculus	4 credits

Mathematics	s for Secondary Education Major	
<u>SEC-202</u>	Psychology for Secondary Educators	4 credits
MAT-252	Calculus and Analytic Geometry I	4 credits
MAT-253	Calculus and Analytic Geometry II	4 credits
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>SPD-208</u>	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
GOV-260	Arizona Constitution & Government	1 credit
<u>SEC-351</u>	Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
MAT-225	Mathematics and Technology Through Time	4 credits
MAT-380	Mathematics for the Secondary Educator	4 credits
<u>SEC-356</u>	Curriculum and Assessment for Secondary Educators	4 credits
<u>SEC-451</u>	Data-Driven Instructional Methods for Secondary Educators	4 credits
MAT-215	Discrete Mathematics	4 credits
<u>MAT-374</u>	Probability and Statistics – Calculus Based	4 credits
ESL-445N	Methods of Structured English Immersion for Secondary Education	3 credits
MAT-345	Applied Linear Algebra I	4 credits
MAT-312 <sup>‡</sup>	Higher Geometry	4 credits
<u>MAT-470</u> <sup>₹</sup> Δ	Mathematical Modeling	4 credits
MAT-480	Methods of Teaching Mathematics in Secondary Schools	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary Educators	4 credits
<u>SEC-490</u>	Student Teaching for Secondary Education Teacher Candidates	8 credits
Mathematics	for Secondary Education Major	80 credits

# Master of Arts in Communication with an **Emphasis in Education**

Grand Canyon University's Master or Arts in Communication with an Emphasis in Education program prepares students for teaching undergraduate courses at the 2-year or 4-year institution in both ground and online modalities. The program balances communication content (e.g., intercultural and relational) with pedagogy to create a unique program that satisfies the requirements for ongoing professional development. Furthermore, graduates of this program will be able to fulfill the graduate course requirements necessary for opportunities in teaching at the postsecondary level.

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
COM-500	Relationships in the Workplace	4 credits
COM-505	Organizations, Culture, and Society	4 credits
<u>EDU-534</u>	Effective Pedagogy for Higher Education	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

COM-510	Strategic Communication	4 credits
COM-515	Training, Learning and Pedagogy	4 credits
EDU-548	Curricular and Instructional Methods in Higher Education	4 credits
COM-520	Media Literacy	4 credits
COM-525	Organizational Communication	4 credits
Master of A	rts in Communication with an	34 credits

Master of Arts in Communication with an 34 credits Emphasis in Education

# Master of Arts in English with an Emphasis in Education

Grand Canyon University's Master or Arts in English with an Emphasis in Education program prepares students for teaching undergraduate courses at two-year or four-year institutions of higher learning in both ground and online modalities. Including courses in rhetoric, literature, and pedagogy, this unique program provides advanced training in the field of English, while satisfying the requirements for ongoing professional development.

### **Degree Requirements**

<u>UNV-503</u> Ω	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
ENG-503	Writing Theory: An Applied	4 credits
	Approach to Rhetoric and	
	Composition	
ENG-506	Social and Technological Contexts	4 credits
	of Writing	
EDU-534	Effective Pedagogy for Higher	4 credits
	Education	
ENG-507	Grant Writing	4 credits
	Critical Practices for Teaching	4 credits
ENG-505	Literature	4 Cicuits
EDII 540	Curricular and Instructional	4 credits
EDU-548	Methods in Higher Education	4 Cledits
ENIG 500	Multimedia Writing: Creating a	4 credits
ENG-508	e e	4 cleuits
	Campaign for Social Media	4 114
ENG-509	Applied Theories of Rhetoric and	4 credits
	Organizational Communication	
Master of Ar	ts in English with an Emphasis in	34 credits

Education

Master of Arts in History with an Emphasis in

# Master of Arts in History with an Emphasis in Education

Grand Canyon University's Master of Arts in History with an Emphasis in Education program prepares students for teaching undergraduate courses at the 2-year or 4-year institution in both ground and online modalities. Balancing history content with pedagogy and classroom techniques, this unique program offers a pathway to obtaining advanced training in the field of history while satisfying the requirements for ongoing professional development. Additionally, graduates of this program will be able to fulfill the graduate course requirements necessary for opportunities in teaching at the postsecondary level.

### **Degree Requirements**

UNV-503 Ω	Introduction to Graduate Studies in	2 credits
HIS-510	the Liberal Arts	
	Concepts in Understanding World	4 credits
	History	

<u>HIS-544</u>	Concepts in Understanding U.S. History	4 credits
EDU-534	Effective Pedagogy for Higher Education	4 credits
<u>HIS-530</u>	Applied Studies in History Graduate Education	4 credits
HIS-555	Studies in the American West	4 credits
EDU-548	Curricular and Instructional	4 credits
<u>HIS-565</u>	Methods in Higher Education Historical Perspectives of Race, Class, Gender, & Ethnicity	4 credits
<u>HIS-570</u>	Graduate Research Seminar in History	4 credits
Mostor of A	eta in History with an Emphasia in	34 credits

Master of Arts in History with an Emphasis in Education 34 cr

# Master of Science in Mathematics with an Emphasis in Education

Grand Canyon University's Master or Science in Math with an Emphasis in Education program focuses on deeper understanding of mathematics while instilling the best practices in pedagogy. Redefining the graduate degree for professionals who would like to be the change-makers in higher education, graduates will grasp the conceptual knowledge of mathematics, which will drive their teaching in the classroom. Through a combined program of study offering graduate credits in mathematics and graduate credits in higher education teaching, the program open doors for its graduates and redefines mathematics education at the college level.

### **Degree Requirements**

<u>UNV-509</u> Ω	Introduction to Graduate Studies in	2 credits
	Mathematics	
MAT-525	History of Mathematical Thought	4 credits
MAT-512	Graduate Linear Algebra	4 credits
MAT-513	Graduate Algebra	4 credits
EDU-534	Effective Pedagogy for Higher	4 credits
	Education	
MAT-571	Real Analysis	4 credits
MAT-574	Graduate Probability and Statistics	4 credits
MAT-550	Mathematical Modeling	4 credits
EDU-548	Curricular and Instructional	4 credits
	Methods in Higher Education	
Master of Sc	ience in Mathematics with an	34 credits

Master of Science in Mathematics with an Emphasis in Education

# Graduate Certificate of Completion in Communication

The Graduate Certificate in Communication prepares students with the content expertise required to teach Communication coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Including courses in relationships, strategic communication, training, and media literacy, this unique program provides advanced training in the field of Communication, while satisfying the requirements for ongoing professional development.

<u>COM-500</u>	Relationships in the Workplace	4 credits
COM-505	Organizations, Culture, and Society	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

COM-510	Strategic Communication	4 credits
COM-515	Training, Learning and Pedagogy	4 credits
COM-520	Media Literacy	4 credits

Graduate Certificate of Completion in 20 credits Communication

## **Graduate Certificate of Completion in English**

The Graduate Certificate in English prepares students with the content expertise required to teach English coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Including courses in rhetoric, literature, and pedagogy, this unique program provides advanced training in the field of English, while satisfying the requirements for ongoing professional development.

### **Degree Requirements**

ENG-503	Writing Theory: An Applied Approach to Rhetoric and	4 credits
	Composition	
ENG-506	Social and Technological Contexts of Writing	4 credits
ENG-507	Grant Writing	4 credits
ENG-505	Critical Practices for Teaching	4 credits
	Literature	
ENG-508	Multimedia Writing: Creating a	4 credits
	Campaign for Social Media	
Graduate Cer	rtificate of Completion in English	20 credits

# Graduate Certificate of Completion in English Effective 10-16-2025

The Graduate Certificate in English prepares students with the content expertise required to teach English coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Including courses in rhetoric, literature, and pedagogy, this unique program provides advanced training in the field of English, while satisfying the requirements for ongoing professional development.

### **Degree Requirements**

ENG-503	Writing Theory: An Applied	4 credits
	Approach to Rhetoric and	
	Composition	
ENG-506	Social and Technological Contexts	4 credits
	of Writing	
ENG-507	Grant Writing	4 credits
ENG-505	Critical Practices for Teaching	4 credits
2110 000	Literature	
ENG-510	Literature Pedagogy	4 credits
Graduate Ce	rtificate of Completion in English	20 credits

### **Graduate Certificate of Completion in History**

The Graduate Certificate in History prepares students with the content expertise required to teach History coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Including courses in world history, U.S. history, and historical perspectives, this unique program provides advanced training in the field of History, while satisfying the requirements for ongoing professional development.

### **Degree Requirements**

HIS-510	Concepts in Understanding World	4 credits
<u>HIS-544</u>	History Concepts in Understanding U.S.	4 credits
HIS-530	History Applied Studies in History Graduate	4 credits
HIS-555	Education Studies in the American West	4 credits
HIS-565	Historical Perspectives of Race, Class, Gender, & Ethnicity	4 credits
Graduate Cer	rtificate of Completion in History	20 credits

# Graduate Certificate of Completion in Mathematics

The Graduate Certificate in Mathematics prepares students with content expertise required to teach Mathematics coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Content rich, focusing on deeper understanding of Mathematics. Students completing this certificate will grasp the conceptual knowledge of Mathematics which will drive their teaching in the classroom.

### **Degree Requirements**

<u>UNV-509</u>	Introduction to Graduate Studies in Mathematics	2 credits
MAT-513	Graduate Algebra	4 credits
MAT-525	History of Mathematical Thought	4 credits
MAT-505	Discrete Math: Data-Analysis	4 credits
MAT-550	Mathematical Modeling	4 credits
MAT-552	Applied Nonlinear Dynamics	4 credits

Graduate Certificate of Completion in 22 credits Mathematics

# Social and Behavioral Studies Programs

The Social and Behavioral Studies programs prepare students to understand, predict, and treat human behavior at both individual and societal levels. Depending on the program that is chosen, students are able to choose career paths that could involve direct patient care and treatment, justice services, social study, the development of impact initiatives, organizational understanding, human resource management, individual behavioral study and research, or consulting, to name a few. Graduates of the Social and Behavioral Studies programs will develop greater understanding and predictive knowledge of behavior at both the individual and societal levels that will provide significant impact on the overall behavioral health and wellness of society and its members.

### **Bachelor of Science in Behavioral Health Science**

Grand Canyon University's Bachelor of Science in Behavioral Health Science degree is designed to prepare students to work as behavioral health technicians or specialists in various settings as members of a clinical team. This program offers students an exhaustive study of human behavior. It prepares students to work in behavioral health, counseling, health services management, human services, government, and law enforcement. Additionally, this curriculum offers a strong foundation for students who want

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

to pursue a master's degree in counseling, criminal justice, clinical or forensic psychology, or human services.

### **Degree Requirements**

Total General Education	34-40 credits
Total Behavioral Health Science Major	48 credits
Total Electives	32-40 credits
Total Bachelor of Science in Behavioral Health Science	120 credits
Behavioral Health Science Major	

Treatm Scient			
Behavioral Health Science Major			
PCN-100	Foundations of Addiction and	4 credits	
	Substance Use Disorders		
PCN-107	Introduction to Counseling	4 credits	
	Theories		
BHS-240	Group Dynamics and Process	4 credits	
BHS-320 <sup>△</sup>	Ethics of Behavioral Health	4 credits	
	Science		
BHS-330	Cultural and Social Diversity in	4 credits	
	Behavioral Health		
BHS-420	Human Development	4 credits	
PSY-470 <sup>∆</sup>	Abnormal Psychology	4 credits	
PSY-380	Introduction to Probability and	4 credits	
	Statistics		
BHS-350	Report Writing, Research, and	4 credits	
	Information Literacy in		
	Behavioral Health		
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits	
BHS-440	Understanding Trauma	4 credits	
	<u> </u>	4 114	
BHS-490 <sup>Ω</sup>	Professional Capstone Project	4 credits	
Behavioral H	lealth Science Major	48 credits	

## **Bachelor of Science in Behavioral Health Science** with an Emphasis in Childhood and Adolescence **Disorders**

Grand Canyon University's Bachelor of Science in Behavioral Health Science degree with an Emphasis in Childhood and Adolescence Disorders is designed to prepare students to work as behavioral health technicians or specialists in various settings as members of a clinical team. This program offers students a comprehensive study of childhood and adolescent development and behavior, in particular understanding childhood and adolescence disorders. It prepares students to work in the fields of behavioral health, counseling, health services management, human services, government, and law enforcement. Additionally, this curriculum offers a strong foundation for students who want to pursue a master's degree in counseling, criminal justice, clinical or forensic psychology, or human services.

### **Degree Requirements**

Total General Education	34-40 credits
Total Behavioral Health Science with an Emphasis in Childhood and Adolescence Disorders Major	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Behavioral	120 credits

### Behavioral Health Science with an Emphasis in Childhood and Adolescence Major

and Adolescen	ice major	
PCN-100	Foundations of Addiction and Substance Use Disorders	4 credits
PCN-107	Introduction to Counseling Theories	4 credits
BHS-240	Group Dynamics and Process	4 credits
<u>BHS-320</u> <sup>∆</sup>	Ethics of Behavioral Health Science	4 credits
BHS-330	Cultural and Social Diversity in Behavioral Health	4 credits
BHS-420	Human Development	4 credits
PSY-470 <sup>∆</sup>	Abnormal Psychology	4 credits
<u>PSY-380</u>	Introduction to Probability and Statistics	4 credits
BHS-350	Report Writing, Research, and Information Literacy in Behavioral Health	4 credits
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits
BHS-440	Understanding Trauma	4 credits
BHS-450	Childhood and Adolescence Disorders	4 credits
BHS-455	Introduction to Childhood and Adolescent Physical and Behavioral Health	4 credits
<u>BHS-490 Ω</u>	Professional Capstone Project	4 credits
	ealth Science with an Emphasis in d Adolescence Disorders Major	56 credits

## **Bachelor of Science in Behavioral Health Science** with an Emphasis in Family Dynamics

Grand Canyon University's Bachelor of Science in Behavioral Health Science degree with an Emphasis in Family Dynamics is designed to prepare students to work as behavioral health technicians or specialists in various settings as members of a clinical team. This program offers students a comprehensive study of dynamics as it relates to couples and family systems. It prepares students to work in behavioral health, counseling, health services management, human services, government, and child welfare systems. Additionally, this curriculum offers a strong foundation for students who want to pursue a master's degree in counseling, criminal justice, clinical or forensic psychology, or human services.

### **Degree Requirements**

Total General Education	34-40 credits
Total Behavioral Health Science with an Emphasis in Family Dynamics	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Behavioral Health Science with an Emphasis in Family Dynamics	120 credits

### Behavioral Health Science with an Emphasis in Family **Dynamics**

PCN-100	Foundations of Addiction and	4 credits
	Substance Use Disorders	
PCN-107	Introduction to Counseling	4 credits
	Theories	
BHS-240	Group Dynamics and Process	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>BHS-320</u> <sup>∆</sup>	Ethics of Behavioral Health Science	4 credits
BHS-330	Cultural and Social Diversity in Behavioral Health	4 credits
D	—	4 credits
BHS-420	Human Development	4 credits
PSY-470 <sup>∆</sup> <sup>≴</sup>	Abnormal Psychology	4 credits
PSY-380	Introduction to Probability and	4 credits
	Statistics	
BHS-350	Report Writing, Research, and	4 credits
2110 000	Information Literacy in	
	Behavioral Health	
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits
BHS-440	Understanding Trauma	4 credits
BHS-460	Introduction to Couples and	4 credits
<u> </u>	Family Systems	
BHS-465	Marriage and Family Ethical and	4 credits
<u>D110 103</u>	Legal Issues	
BHS-490 <sup>Ω</sup>	Professional Capstone Project	4 credits
		56 114
	ealth Science with an Emphasis in	56 credits
Family Dynamics		

## **Bachelor of Science in Behavioral Health Science** with an Emphasis in Infancy and Early Childhood **Studies**

Grand Canyon University's Bachelor of Science in Behavioral Health Science with an Emphasis in Infancy and Early Childhood Studies program is designed for students interested in becoming behavioral health technicians or specialists in various settings as members of a clinical team, particularly in the fast-growing specialization in the Infancy and Early Childhood field. The program provides students with an introductive study on the development and behavior of infants and young children. Students will gain the knowledge and skills necessary to work with young children and advocate the importance of the family system and caregiving environment to the well-being of infants and young children. Graduates of this degree program will be prepared for careers in behavioral health, health services management, human services, government, and law enforcement.

# **Degree Requirements**

Total General Education	34-40 credits
Total Behavioral Health Science with an Emphasis in Infancy and Early Childhood Studies	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Behavioral Health Science with an Emphasis in Family Dynamics	120 credits

### Behavioral Health Science with an Emphasis in Infancy and **Early Childhood Studies**

PCN-100	Foundations of Addiction and	4 credits
	Substance Use Disorders	
PCN-107	Introduction to Counseling	4 credits
	Theories	
BHS-240	Group Dynamics and Process	4 credits
BHS-320 <sup>∆</sup>	Ethics of Behavioral Health	4 credits
	Science	
BHS-330	Cultural and Social Diversity in	4 credits
	Behavioral Health	

BHS-420	Human Development	4 credits
PSY-470 <sup>∆</sup>	Abnormal Psychology	4 credits
PSY-380	Introduction to Probability and Statistics	4 credits
BHS-350	Report Writing, Research, and Information Literacy in Behavioral Health	4 credits
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits
BHS-440	Understanding Trauma	4 credits
BHS-480	Infancy and Early Childhood Development	4 credits
BHS-485	Infancy and Early Childhood Disorders and Assessment	4 credits
<u>BHS-490 Ω</u>	Professional Capstone Project	4 credits
	lealth Science with an Emphasis in Early Childhood Studies	56 credits

# **Bachelor of Science in Behavioral Health Science** with an Emphasis in Substance Use Disorders

Grand Canyon University's Bachelor of Science in Behavioral Health Science with an Emphasis in Substance Use Disorders program is designed to prepare students to work as behavioral health technicians or specialists in various settings as members of a clinical team. This program offers students an introduction to behavioral health and substance abuse disorders and addiction. It prepares students to work in the fields of behavioral health, counseling, health services management, human services, government, and law enforcement. Additionally, this curriculum offers a strong foundation for students who want to pursue a master's degree in counseling, mental health, criminal justice, clinical or forensic psychology, or human services.

### Degree Requirements

Total General Education	34-40 credits
Total Behavioral Health Science with an Emphasis in Substance Use Disorders	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Behavioral Health Science with an Emphasis in	120 credits
Substance Use Disorders	

### Behavioral Health Science with an Emphasis in Substance **Use Disorders**

PCN-100	Foundations of Addiction and	4 credits
PCN-107	Substance Use Disorders Introduction to Counseling Theories	4 credits
BHS-240	Group Dynamics and Process	4 credits
<u>BHS-320</u> <sup>∆</sup>	Ethics of Behavioral Health	4 credits
BHS-330	Science Cultural and Social Diversity in Behavioral Health	4 credits
BHS-420	Human Development	4 credits
PCN-373	Spirituality and Addiction	4 credits
PSY-470 <sup>∆</sup>	Abnormal Psychology	4 credits
<u>PSY-380</u>	Introduction to Probability and Statistics	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

BHS-350	Report Writing, Research, and Information Literacy in Behavioral Health	4 credits
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits
PCN-360	Dom.Violence,Child,Elder Abuse-Fam w/Addiction &Substance Use Disorders	4 credits
BHS-440	Understanding Trauma	4 credits
<u>BHS-490 Ω</u>	Professional Capstone Project	4 credits
Behavioral H Substance Us	ealth Science with an Emphasis in e Disorders	56 credits

Bachelor of Science in Behavioral Health Science with an Emphasis in Trauma

Grand Canyon University's Bachelor of Science in Behavioral Health Science degree with an Emphasis in Trauma is designed to prepare students to work as behavioral health technicians or specialists in various settings as members of a clinical team. This program offers students a comprehensive study of the biopsychosocial impact of trauma and trauma-informed care. It prepares students to work in behavioral health, counseling, health services management, human services, government, and law enforcement. Additionally, this curriculum offers a strong foundation for students who want to pursue a master's degree in counseling, criminal justice, clinical or forensic psychology, or human services.

### **Degree Requirements**

Total General Education	34-40 credits
Total Behavioral Health Science with an	56 credits
Emphasis in Trauma	
Total Electives	24-30 credits
Total Bachelor of Science in Behavioral	120 credits
Health Science with an Emphasis in Trauma	

### Behavioral Health Science with an Emphasis in Trauma

PCN-100	Foundations of Addiction and Substance Use Disorders	4 credits
PCN-107	Introduction to Counseling Theories	4 credits
BHS-240	Group Dynamics and Process	4 credits
<u>BHS-320</u> <sup>∆</sup>	Ethics of Behavioral Health Science	4 credits
BHS-330	Cultural and Social Diversity in Behavioral Health	4 credits
BHS-420	Human Development	4 credits
<u>PSY-470<sup>∆</sup></u>	Abnormal Psychology	4 credits
PSY-380	Introduction to Probability and Statistics	4 credits
BHS-350	Report Writing, Research, and Information Literacy in Behavioral Health	4 credits
BHS-430 <sup>‡</sup>	Introduction to Family Dynamics	4 credits
BHS-440	Understanding Trauma	4 credits
<u>BHS-470</u>	Introduction to Trauma-Informed Care	4 credits
BHS-475	Overview of Assessment and Treatment of Trauma	4 credits
BHS-490 Ω	Professional Capstone Project	4 credits

Behavioral Health Science with an Emphasis in 56 credits Trauma

## Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse

The Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse is designed to meet the needs of learners who wish to pursue entrylevel careers as addiction counselors/behavioral health technicians. The demand for addiction counselors is expected to grow in both the public and private sectors in the near future. A bachelor's degree is the first step for individuals seeking certification/licensure in many states. Graduates from this degree program are prepared to meet the minimum academic requirements for licensure in Arizona as Licensed Associate Substance Abuse Counselors and Licensed Substance Abuse Technicians. Additionally, program graduates from many other states will be academically prepared to begin the process of seeking certification and/or licensure in their home states. Licensing and/or certification requirements may vary from state to state, and it is the student's responsibility to check the requirements in specific states.

### **Degree Requirements**

Total General Education	34-40 credits
Total Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Science in Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse	120 credits

# Counseling with an Emphasis in Addiction, Chemical Dependency, and Substance Abuse Major

Dependency, t	ina pappamee ripape major	
<u>PCN-100</u>	Foundations of Addiction and Substance Use Disorders	4 credits
PCN-107	Introduction to Counseling	4 credits
	Theories	
PCN-150	Psychopharmacology in	4 credits
	Treatment of Addiction and	
	Substance Use Disorders	
PCN-153	Co Occurring Disorders and	4 credits
	HIV/AIDS	
PCN-158	Multicultural Counseling in a	4 credits
101, 100	Diverse Society	
PCN-162	Group Interventions and	4 credits
	Community Resources for	
	Addiction and Substance Use	
	Disorders	
PCN-255	Case Management and Crisis	4 credits
<u>I CIV 233</u>	Intervention Skills for Addiction	
	and Substance Use Disorders	
PCN-265	Relapse Prevention in the	4 credits
101, 200	Treatment of Addiction and	
	Substance Use Disorders	
PCN-275	Family Dynamics and Comm Ed -	4 credits
<u>I CN-273</u>	Treatment of Addiction &	· crcares
	Substance Use Disorders	
	Substance Osc Disorders	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

PCN-360	Dom. Violence, Child, Elder Abuse - Fam w/ Addiction &	4 credits
	Substance Use Disorders	
PCN-365 <sup>‡</sup>	Advanced Counseling Theories - Addiction & Substance Use	4 credits
	Disorder Counselors	
<u>PCN-370</u> <sup>∆</sup>	Psychopathology & Adv Treatment - Spec Pop w/	4 credits
	Addiction & Substance Use Disorders	
PCN-373	Spirituality and Addiction	4 credits
<u>PCN-404<sup>∮∆</sup></u>	Prof., Legal, & Ethical Issues -	4 credits
	Addiction & Substance Use	
PCN-475	Disorder Counselors Treatment of Addiction & Substance Use Disorders -	4 credits
	Children and Adolescents	
PCN-481	Process Addictions	4 credits
PCN-485	Advanced Case Management for	4 credits
	Addiction and Substance Use	
	Disorders	
PCN-488	Trauma, Addiction, and	4 credits
	Substance Use Disorders	
G 1:	1.1 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	72 aradita

Counseling with an Emphasis in Addiction,
Chemical Dependency, and Substance Abuse
Major

Select states may require additional practicum hours to be completed to meet the standards for certification/licensure in that state, students should reference their Enrollment Agreement for state specific practicum requirements:

$\underline{\text{PCN-490}^{\Omega}}$	Practicum	4 credits
PCN-491 <sup>Ω</sup>	Practicum II	4 credits

## **Bachelor of Science in Justice Studies**

Grand Canyon University's Bachelor of Science in Justice Studies prepares students to enter careers in law enforcement, governmental and private agencies, research, social work, political science, and a variety of other fields. Graduates will be able to describe the components of the justice system from a systems perspective, including function, organization, issues, practices, and interrelationship of law enforcement agencies, the courts, and the corrections system.

### **Degree Requirements**

Total General Education	34-40 credits
Total Justice Studies Major	48 credits
Total Electives	32-38 credits
Total Bachelor of Science in Justice Studies	120 credits

### Justice Studies Major

	•	
JUS-104	Introduction to Justice Studies	4 credits
<u>JUS-202</u> <sup>‡</sup>	Professional Responsibility in Justice	4 credits
JUS-212	Criminal Behavior and Victimology	4 credits
JUS-320	The Police Function	4 credits
<u>JUS-325<sup>‡∆</sup></u>	The Adjudication Function	4 credits
JUS-330	The Correctional Function	4 credits
GOV-360	Civil Law	4 credits

JUS-430*	Criminal Law	4 credits
<u>JUS-441</u> <sup>∆</sup>	Criminal Procedure and Public Policy	4 credits
<u>JUS-445</u>	Justice Problem Analysis	4 credits
<u>JUS-470</u>	Threat Assessment and Behavioral Analysis	4 credits
<u>JUS-481</u>	Community-Based Strategic Planning	4 credits
Justice Stud	ies Major	48 credits

# Bachelor of Science in Justice Studies *Effective October 2025*

Grand Canyon University's Bachelor of Science in Justice Studies prepares students to enter careers in law enforcement, governmental and private agencies, research, social work, political science, and a variety of other fields. Graduates will be able to describe the components of the justice system from a systems perspective, including function, organization, issues, practices, and interrelationship of law enforcement agencies, the courts, and the corrections system.

### **Degree Requirements**

Total General Education	34-40 credits
Total Justice Studies Major	48 credits
Total Electives	32-38 credits

## Justice Studies Major

Total Bachelor of Science in Justice Studies

<u>JUS-104</u>	Introduction to Justice Studies	4 credits
JUS-202 <sup>‡</sup>	Professional Responsibility in Justice	4 credits
JUS-212	Criminal Behavior and Victimology	4 credits
JUS-320	The Police Function	4 credits
<u>JUS-325<sup>‡∆</sup></u>	The Adjudication Function	4 credits
GOV-360	Civil Law	4 credits
<u>JUS-430</u> <sup>‡</sup>	Criminal Law	4 credits
<u>JUS-441</u> <sup>∆</sup>	Criminal Procedure and Public Policy	4 credits
JUS-445	Justice Problem Analysis	4 credits
JUS-470	Threat Assessment and Behavioral Analysis	4 credits
<u>JUS-481</u>	Community-Based Strategic Planning	4 credits
<u>JUS-491</u>	Justic Studies Capstone	

Justice Studies Major

48 credits

120 credits

# **Bachelor of Science in Law Enforcement Advancement**

The Bachelor of Science in Law Enforcement Advancement degree explores all components of the justice system while maintaining an emphasis on advanced leadership models for law enforcement professionals. Emphasizing servant leadership, the program will develop one's ability to communicate their organization's mission and vision to diverse audiences and key stakeholders. As part of GCU's Christian learning community, enrollees in the program will develop leadership skills that place special importance on contributing to the greater social good. By

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

being a part of this unique program, a law enforcement student will explore the fundamentals of how to inspire and lead others through established, modern theories with the ethical principles of servant leadership. Candidates gain self-confidence in their leadership styles as they examine the core principles of communication, team-leading, and ethical practices in law enforcement. In addition, one will examine the function, organization, issues, and practices of law enforcement agencies. Students gain a thorough grounding in constitutional law, statutory law and case law interpretation, as well as 21st-century issues such as strategic policing and cybercrime. The Bachelor of Science in Law Enforcement Advancement degree offers candidates the opportunity to prepare themselves to advance within their organizations, ready to lead their agencies through the challenges of policing diverse communities facing modern policing problems.

### **Degree Requirements**

Total General Education	34-40 credits
Total Law Enforcement Advancement Major	44 credits
Total Electives	36-42 credits
Total Rachalor of Science in Justice Studies	120 credits

### **Law Enforcement Major**

Total Bachelor of Science in Justice Studies

JUS-105	Introduction to Law Enforcement	4 credits
JUS-220	Policing	4 credits
<u>JUS-301</u>	Criminal Procedure in Law Enforcement	4 credits
<u>JUS-309</u>	Communication in Law Enforcement	4 credits
JUS-323	Ethics in Leadership	4 credits
COM-312	Conflict and Negotiation	4 credits
MGT-410	Servant Leadership	4 credits
COM-457	Workplace Relationships	4 credits
MGT-420	Organizational Behavior and Management	4 credits
<u>JUS-481</u>	Community-Based Strategic Planning	4 credits
$JUS-484^{\Omega}$	Law Enforcement Capstone	4 credits

## **Bachelor of Science in Psychology**

Law Enforcement Major

Grand Canyon University's Bachelor of Science in Psychology program offers a broad array of courses that increase the understanding of past and present human actions. With this understanding comes the responsibility to improve relationships with others and to help others achieve similar understanding of and insight into their own behaviors. The program helps prepare students for entry-level positions in agencies and organizations that seek to help those in need. It should be understood that the requirements for employment in many positions in the helping professions include advanced education beyond the bachelor's degree.

### **Degree Requirements**

Total General Education	34-40 credits
Total Psychology Major	48 credits
Total Electives	32-38 credits

Total Bach	elor of Science in Psychology	120 credits
Psychology	,	
rsychology	Major	
PSY-102	General Psychology	4 credits
<u>PSY-255</u> <sup>∆</sup>	Personality Psychology	4 credits
<u>PSY-260</u>	Introduction to Psychological Research and Ethics	4 credits
PSY-352	Health Psychology	4 credits
PSY-355	Child and Adolescent Psychology	4 credits
PSY-358	Adult Development and Aging	4 credits
<u>PSY-362</u>	Social Psychology and Cultural Applications	4 credits
<u>PSY-380</u>	Introduction to Probability and Statistics	4 credits
PSY-402	Cognitive Neuroscience	4 credits
PSY-452	Experimental Psychology	4 credits
<u>PSY-470</u> <sup>₹</sup> ∆	Abnormal Psychology	4 credits
PSY-495	Professional Capstone Project	4 credits
Psychology	Major	48 credits

# Bachelor of Science in Psychology with an **Emphasis in Performance and Sport Psychology**

Grand Canyon University's Bachelor of Science in Psychology with an Emphasis in Performance and Sport Psychology degree provides individuals interested in Sport, performing arts, health and fitness, or mental health fields the opportunity to develop their skills and abilities to improve the performance and lives of those with whom they work. The field of sport and performance psychology is concerned with the psychological factors that influence human performance. It involves improving the lives of others through assessment and intervention strategies that enhance performance and personal growth.

### **Degree Requirements**

Total General Education	34-40 credits
Total Psychology with an Emphasis in	64 credits
Performance and Sport Psychology Major	
Total Electives	16-22 credits
Total Bachelor of Science in Psychology with an Emphasis in Performance and Sport	120 credits
Psychology	

### Psychology with an Emphasis in Performance and Sport **Psychology Major**

PSY-102	General Psychology	4 credits
<u>PSY-255</u> <sup>∆</sup>	Personality Psychology	4 credits
<u>PSY-260</u>	Introduction to Psychological Research and Ethics	4 credits
PSY-352	Health Psychology	4 credits
PSY-355	Child and Adolescent Psychology	4 credits
PSY-358	Adult Development and Aging	4 credits
PSY-362	Social Psychology and Cultural Applications	4 credits
PSY-380	Introduction to Probability and Statistics	4 credits
PSY-402	Cognitive Neuroscience	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

PSY-366	Introduction to Sport and Exercise	4 credits
	Psychology	
PSY-368	Social Aspects of	4 credits
	Sport/Psychosocial Aspects of Sport	
PSY-410	Psychology of Coaching	4 credits
PSY-425	Leadership and Team Building	4 credits
PSY-452	Experimental Psychology	4 credits
<u>PSY-470</u> <sup>₹</sup> ∆	Abnormal Psychology	4 credits
PSY-495	Professional Capstone Project	4 credits

64 credits Psychology with an Emphasis in Performance and Sport Psychology Major

# Bachelor of Science in Psychology with an **Emphasis in Forensic Psychology**

Grand Canyon University's Bachelor of Science in Psychology with an emphasis in Forensic psychology degree is designed to supplement the study of psychology, criminology, or other justice-related areas with an overview of the intersection of psychology and the criminal justice system. Forensic psychology is where the science of the mind intersects with the law. The emphasis focuses specifically on the psychological experiences of victims and offenders which sheds insight into behavior that leads to criminality.

### **Degree Requirements**

Total General Education	34-40 credits
Total Psychology with an Emphasis in	64 credits
Forensic Psychology Major	
Total Electives	16-22 credits

120 credits Total Bachelor of Science in Psychology with an Emphasis in Forensic Psychology

## Psychology with an Emphasis in Forensic Psychology Major

Psychology	with an Emphasis in Forensic Psychological	ogy Major
PSY-102	General Psychology	4 credits
<u>PSY-255</u> <sup>∆</sup>	Personality Psychology	4 credits
PSY-260	Introduction to Psychological Research and Ethics	4 credits
PSY-352	Health Psychology	4 credits
PSY-355	Child and Adolescent Psychology	4 credits
PSY-358	Adult Development and Aging	4 credits
<u>PSY-362</u>	Social Psychology and Cultural Applications	4 credits
<u>PSY-380</u>	Introduction to Probability and Statistics	4 credits
PSY-402	Cognitive Neuroscience	4 credits
JUS-212	Criminal Behavior and Victimology	4 credits
PSY-310	Introduction to Forensic Psychology	4 credits
JUS-430	Criminal Law	4 credits
BHS-440	Understanding Trauma	4 credits
PSY-452	Experimental Psychology	4 credits
<u>PSY-470</u> <sup>≠</sup> ∆	Abnormal Psychology	4 credits
PSY-495	Professional Capstone Project	4 credits

## **Bachelor of Science in Sociology**

The Bachelor of Science in Sociology program encourages students to think deeply and seriously, using both the Christian

and scientific perspectives, about the consequences of social structures upon human social behavior in its many diverse contexts.

### **Degree Requirements**

Total General Education	34-40 credits
Total Sociology Major	48 credits
Total Electives	32-38 credits
Total Bachelor of Science in Sociology	120 credits

Sociology Major			
SOC-102	Principles of Sociology	4 credits	
SWK-170	Introduction to Social Welfare	4 credits	
SOC-220	Social Problems	4 credits	
SOC-320 <sup>‡</sup>	Marriage and Family	4 credits	
PSY-362	Social Psychology and Cultural Applications	4 credits	
SOC-330	Globalization	4 credits	
<u>PSY-380</u>	Introduction to Probability and Statistics	4 credits	
<u>SOC-400</u> Ω	Social Research and Statistics	4 credits	
SOC-412	Sociology of Religion	4 credits	
<u>SOC-417</u> <sup>∆</sup>	Sociological Theory	4 credits	
<u>SOC-436<sup>∆</sup></u>	Stratification and Inequality in a Diverse Society	4 credits	
$\underline{SOC-481^{\Omega}}$	Sociology Capstone	4 credits	
Sociology M	ajor	48 credits	

## **Bachelor of Social Work**

Grand Canyon University's Bachelor of Social Work (BSW) program is designed to prepare students to improve the wellbeing of individuals, families, and communities while working with diverse groups of people in a variety of settings. The Generalist Social Work practice focus prepares students for entry-level social work practice or continued graduate studies in social work. This program has been developed adhering to the social work standards and competencies established by the Council on Social Work Education (CSWE).

## **Degree Requirements**

Making

Total Gener	al Education	34-40 credits
Total Social	Work	72 credits
Total Electi	ves	8-14 credits
Total Bache	elor of Social Work	120 credits
Social Work	Major	
SWK-170	Introduction to Social Welfare	4 credits
SWK-280	Social Service Delivery Systems	4 credits
<u>SWK-285</u>	Foundations of Social Work Practice	4 credits
<u>SWK-290<sup>Ω</sup></u>	Human Biology and Social Work Practice	4 credits
<u>SWK-330</u> <sup>Ω</sup>	Diversity, Advocacy, and Social Justice in Social Work	4 credits
SWK-350 $^{\Omega}$	Social Work Ethics and Decision-	4 credits

Social Welfare Policy and Services

SWK-355 $^{\Omega}$ 

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>SWK-360<sup>Ω</sup></u>	Human Behavior in the Social Environment I	4 credits
<u>SWK-370</u> <sup>Ω</sup>	Human Behavior in the Social Environment II	4 credits
SWK-420 <sup>Ω</sup>	Trauma-Informed Care	4 credits
SWK-430	Methods of Research in Social Work	4 credits
<u>SWK-450</u> <sup>Ω</sup>	Program Management and Leadership in Social Work	4 credits
<u>SWK-455</u> <sup>Ω</sup>	Generalist Social Work Practice I: Working with Individuals and Systems	4 credits
<u>SWK-460</u> <sup>Ω</sup>	Generalist Social Work Practice II: Groups, Communities, and Organizations	4 credits
<u>SWK-465<sup>Ω</sup></u>	Case Management	4 credits
SWK-470 <sup>Ω</sup>	Field Instruction I	4 credits
<u>SWK-480<sup>Ω</sup></u>	Field Instruction II	4 credits
SWK-490 <sup>Ω</sup>	Social Work Capstone	4 credits
Social Work	Major	72 credits

### Master of Education in School Counseling (IL)

### (Initial Program-Leads to Licensure)

Grand Canyon University's Master of Education in School Counseling (IL) program is designed for any individual with a bachelor's degree interested in seeking certification as a school guidance counselor. The format and courses of this regionally accredited and Arizona-approved program are tailored to meet the needs of the adult learner and to maximize strengths that the candidate already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in child and adolescent development, counseling theory, group counseling, career and college counseling, trauma and psychopathology. Candidates gain knowledge and skills necessary to be effective counseling practitioners in PK-12 settings, working with students, parents, and school personnel to address the academic, social, and emotional needs of students. Graduates of this program are prepared to apply brief counseling, child and adolescent development theories, and research to school practice. This program is informed by the American School Counseling Association (ASCA) National Model. Candidates must have access to pre-approved PK-12 schools to complete program requirements. This program includes 25 field experience hours, 100 practicum hours, and 600 internship hours, for a total of 725 hours.

### **Degree Requirements**

<u>SCN-501</u> <sup>Ω</sup>	Introduction to Graduate Studies and	3 credits
	Foundations of School Counseling	
$\frac{\text{CNL-505}}{\Omega}$	Professional Counseling, Ethical, and	3 credits
	Legal Considerations	
$\underline{\text{CNL-500}}^{\Omega}$	Theories and Models of Counseling	3 credits
<u>CNL-515</u> Ω	Counseling Skills	3 credits
<u>CNL-509</u> Ω	Counseling the Culturally Diverse	3 credits
SCN-505 Ω	Organization and Administration of a	3 credits
	School Counseling Program	
<u>SCN-600</u> Ω	School Counseling Practicum	3 credits
<u>CNL-520</u> Ω	Group Counseling	3 credits
<u>CNL-518</u> Ω	Lifespan and Development	3 credits

<u>SCN-510</u> Ω	Counseling for College and Career	3 credits
SCN-605 Ω	School Counseling Internship I	3 credits
<u>CNL-540</u> <sup>Ω</sup>	Research Methods and Program Evaluation	3 credits
<u>SCN-610</u> <sup>Ω</sup>	Contemporary Issues in School Counseling	3 credits
<u>PCN-670</u> <sup>Ω</sup>	Development through Childhood and Adolescence	3 credits
<u>PCN-673</u> Ω	Developmental Disabilities	3 credits
<u>SCN-615</u> Ω	School Counseling Internship II	3 credits
<u>PCN-672</u> Ω	Childhood and Adolescent Trauma	3 credits
<u>PCN-671</u> <sup>Ω</sup>	Psychopathology and Treatment of Children and Adolescence	3 credits
<u>SCN-620</u> <sup>Ω</sup>	Educational Tests and Measurements	3 credits
<u>SCN-625</u> Ω	School Counseling Internship III	3 credits
Master of Ed	lucation in School Counseling	60 credits
Total Practic	cum/Field Experience Hours	725 hours

# Master of Public Administration with an **Emphasis in Government and Policy**

Grand Canyon University's Master of Public Administration with an Emphasis in Government and Policy program prepares students for careers in the public sector. The program is targeted at individuals working or desirous of finding employment in all levels of government, health care administration, and other quasiand/or non-governmental organizations. The coursework gives students the opportunity to apply administrative skills in the areas of leadership, human capital development, policy, and governance within a public sector environment. Students will be challenged to identify and provide solutions for the unique issues facing public sector organizations today. This emphasis pays special attention to the government and policy fields.

## **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
ADM-624	Public Governance	4 credits
ADM-530	Public and Nonprofit Administration	4 credits
HRM-635	Acquiring, Developing, and	4 credits
	Leveraging Human Capital	
ADM-560	Influence, Power, and Politics in	4 credits
71DW-300	Public Administration	
ADM-620	Leading Public Organizations	4 credits
11DW-020	6 6	
ADM-626	Public Budgeting and Financial	4 credits
	Management	
ADM-634	Policy Studies	4 credits
	E	4 1'4
<u>ADM-614</u>	Economics for Public Administrators	4 credits
<u>ADM-640</u>	Program Evaluation	4 credits
Master of Pul	blic Administration with an Emphasis in	38 credits

Government and Policy

# Master of Public Administration with an **Emphasis in Health Care Management**

Grand Canyon University's Master of Public Administration prepares students for careers in the public sector. The program is targeted at individuals working or desirous of finding employment in all levels of government, health care

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

administration, and other quasi- and/or non-governmental organizations. The coursework gives students the opportunity to apply administrative skills in the areas of leadership, human capital development, policy, and governance within a public sector environment. Students will be challenged to identify and provide solutions for the unique issues facing public sector organizations today. This program offers two emphasis areas from which students can choose: health care management and government and policy.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
ADM-624	Public Governance	4 credits
ADM-530	Public and Nonprofit Administration	4 credits
HRM-635	Acquiring, Developing, and	4 credits
	Leveraging Human Capital	
ADM-560	Influence, Power, and Politics in	4 credits
	Public Administration	
ADM-620	Leading Public Organizations	4 credits
ADM-626	Public Budgeting and Financial	4 credits
71DW 020	Management	
HLT-520	Legal and Ethical Principles in Health	4 credits
<u>11L1-320</u>	Care	
HCA 520	Health Care Policies and Economics	4 credits
HCA-530	ricaitii Care i officies and Economies	4 ciedits
ADM-645	Strategic Planning and Program	4 credits
	Evaluation in Healthcare	

38 credits Master of Public Administration with an Emphasis in Health Care Management

# Master of Public Administration with an **Emphasis in Nonprofit Management**

Grand Canyon University's Master of Public Administration with an Emphasis in Nonprofit Management prepares students for careers in the public sector. The program is targeted at individuals working or desirous of finding employment in all levels of government and other not-for-profit organizations. The coursework gives students the opportunity to apply administrative skills in the areas of leadership, human capital development, policy, and governance within a public sector environment. Students will be challenged to identify and provide solutions for the unique issues facing public and nonprofit sector organizations today.

### **Degree Requirements**

208200 20040		
$\underline{\text{UNV-}503^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 credits
ADM-624	Public Governance	4 credits
ADM-530	Public and Nonprofit Administration	4 credits
HRM-635	Acquiring, Developing, and Leveraging Human Capital	4 credits
<u>ADM-560</u>	Influence, Power, and Politics in Public Administration	4 credits
ADM-620	Leading Public Organizations	4 credits
<u>ADM-626</u>	Public Budgeting and Financial Management	4 credits
<u>ADM-630</u>	Introduction to Nonprofit and NGO Sector	4 credits
<u>ADM-638</u>	Fundamentals of Community Development	4 credits

ADM-641	Funding and Program Evaluation of	4 credits
	Nonprofit Organizations	
Master of Pu	iblic Administration with an Emphasis in	38 credits

Nonprofit Management

# lits

2 credits

3 credits

3 credits

2 credits

### Master of Science in Addiction Counseling

The Master of Science in Addiction Counseling degree is designed to meet the needs of learners who wish to pursue careers as addiction counseling professionals. This degree prepares students to treat substance abuse\dependency disorders.

The demand for licensed addiction counselors is expected to grow in both the public and private sectors in the foreseeable future. A Master's degree is a required step for individuals seeking the highest level of licensing and/or certification in many states. Graduates from the GCU program of study are prepared to meet the academic requirements for licensure in Arizona as a:

- Licensed Associate Substance Abuse Counselor (LASAC)
- Licensed Independent Substance Abuse Counselor (LISAC).

Additionally, program graduates from most other states will be academically prepared to begin the process of seeking certification and/or licensure in their home state. Licensing and/or certification requirements may vary from state-to-state. It is the students' responsibility to check the licensing/certification requirements in their respective states.

Introduction to Graduate Studies in

### **Degree Requirements**

LINIV  $502\Omega$ 

<u>UNV-502**</u>	the Health Sciences	2 cicuits	
PCN-505	Professional Counseling	3 credits	
	Orientation and Ethics	3 credits	
PCN-500	Counseling Theories	3 credits	
PCN-501	Introduction to Addictions and	3 credits	
	Substance Use Disorders		
PCN-520	Group Counseling Theory and	3 credits	
	Practice		
PCN-509	Social and Cultural Diversity	3 credits	
	Issues in Counseling	2 11.	
PCN-527	Psychopharmacology and Addictions	3 credits	
D. C. T. T. C.		3 credits	
PCN-529	Co-Occurring Disorders		
PCN-531	Family Issues and Addictive	3 credits	
	Disorders		
PCN-610	Diagnostics, Assessment, and	3 credits	
	Treatment		
PCN-535	Counseling Chemical Dependency	3 credits	
_	Adolescents	0 11:	
$\underline{PCN-622A^{\Omega}}$	Pre-Practicum	2 credits	
$\underline{PCN-662A^{\Omega}}$	Practicum/Internship I	2 credits	
Master of Science in Addiction Counseling 36 credits			
Students who are Ohio residents must complete the Ohio-			
specific requirements to meet the standards for			
certification/licensure in that state, students must take the			
following courses:			
, ,		2 114	
PCN-518	Human Growth and Development	3 credits	

Research Methods

Pre-Practicum II

Psychopathology and Counseling

PCN-540

PCN-605 PCN-622B

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## Master of Science in Christian Counseling of Substance Use and Addictive Disorders

The Master of Science in Christian Counseling of Substance Use and Addictive Disorders degree is for learners who wish to pursue careers as addiction counseling professionals, treating individuals with substance abuse\dependency disorders and also able to integrate Christian principles into their counseling practice and to apply that knowledge in a counseling setting. With a master's in addiction counseling, graduates may be prepared to own and operate their own counseling clinic or work in a variety of settings including private practice, substance abuse clinics, group practices, and hospital settings. The demand for licensed addiction counselors is expected to grow in both the public and private sectors in the foreseeable future. A master's degree is a required step for individuals seeking the highest level of licensing and/or certification in many states.

The coursework that prepares students for licensure focuses on a variety of topics, including: theories of addiction, drug classification, assessment, and treatment; professional counseling orientation and ethics; counseling theories; group counseling theory and practice; social and cultural diversity issues in counseling; psychopharmacology theories of drug abuse, addiction, and treatment; psychiatric disorders in combination with an alcohol and/or drug abuse disorder; family issues and addictive disorders; diagnostics, assessment and treatment; and counseling chemically dependent adolescents.

Dispersed throughout the curriculum, the student will also take a number of courses that integrate a Christ-centered approach to emotional health, a foundational study of the integration of counseling theory and Christian thought, and a study of spiritual formation, thereby providing supplemental study of spiritual growth for the counselor in life and practice.

A pre-practicum or supervised field work experience concludes the program, under the supervision of a faculty member. Following the pre-practicum, students take part in a supervised practicum/internship experience to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting.

Graduates from the Grand Canyon University Master of Science in Addiction Counseling program are prepared to meet the academic requirements for licensure in Arizona as a Licensed Associate Substance Abuse Counselor (LASAC) OR a Licensed Independent Substance Abuse Counselor (LISAC). Additionally, program graduates from most other states will be academically prepared to begin the process of seeking certification and/or licensure in their home state. Licensing and/or certification requirements may vary from state-to-state. It is the students' responsibility to check the licensing/certification requirements in their respective states.

## **Degree Requirements**

UNV- $502^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Health Sciences	
PCN-501	Introduction to Addictions and	3 credits
	Substance Use Disorders	
PCN-505	Professional Counseling Orientation	3 credits
	and Ethics	
PCN-500	Counseling Theories	3 credits
PCN-520	Group Counseling Theory and Practice	3 credits

PCN-509	Social and Cultural Diversity Issues	3 credits
<u>CCN-601</u>	in Counseling Biblical Foundations for Counselors: The Story of God	3 credits
CCN-650	Spiritual Formation: Becoming a Healthy Practitioner	3 credits
PCN-527	Psychopharmacology and Addictions	3 credits
PCN-529	Co-occurring Disorders	3 credits
<u>CCN-655</u>	Biblical Concepts-Healthy Relationships: Forgiveness & Healthy Spirituality	3 credits
PCN-531	Family Issues and Addictive Disorders	3 credits
PCN-610	Diagnostics, Assessment, and Treatment	3 credits
<u>CCN-675</u>	Integration of Scripture With Counseling Theory	3 credits
<u>PCN-535</u>	Counseling Chemical Dependency Adolescents	3 credits
$PCN-622A^{\Omega}$	Pre-Practicum	2 credits
$\underline{PCN-662A^{\Omega}}$	Practicum/Internship I	2 credits
	ence in Christian Counseling of se and Addictive Disorders	48 credits

# Master of Science in Clinical Mental Health Counseling

Grand Canyon University's Master of Science in Clinical Mental Health Counseling program is designed for students interested in becoming professional counselors. The program's courses were chosen to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC), the Certified Clinical Mental Health Counselor credential (CCMHC), and by the Arizona Board of Behavioral Health Examiners. A master's degree in counseling is a required step in all 50 states for individuals seeking to become a licensed counselor. This program of study is designed to meet the academic requirements for licensure in Arizona as a: • Licensed Associate Counselor (LAC) • Licensed Professional Counselor (LPC) Licensing and/or certification requirements may vary from state to state. It is the students' responsibility to check the licensing/certification requirements in their respective state.

<u>UNV-508</u> Ω	Introduction to Graduate Studies in	2 credits
<u>CNL-505 Ω</u>	Counseling Professional Counseling, Ethical, and Legal Considerations	3 credits
$\underline{\text{CNL-500}^{\Omega}}$	Theories and Models of Counseling	3 credits
<u>CNL-501 Ω</u>	Substance Use Disorders and Addictions	3 credits
$\underline{\text{CNL-515}}^{\Omega}$	Counseling Skills	3 credits
CNL-509 Ω	Counseling the Culturally Diverse	3 credits
CNL-520 Ω	Group Counseling	3 credits
<u>CNL-527 Ω</u>	Principles of Psychopharmacology	3 credits
<u>CNL-530 Ω</u>	Human Sexuality and Issues of Aging	3 credits
<u>CNL-518 Ω</u>	Lifespan and Development	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

CNL-521 Ω	Counseling Couples and Families	3 credits
<u>CNL-545 Ω</u>	Abuse, Crisis, and Trauma	3 credits
<u>CNL-523 Ω</u>	Counseling Assessment, Tests, and Measurements	3 credits
<u>CNL-525 Ω</u>	Career Counseling	3 credits
$\underline{\text{CNL-540}}^{\Omega}$	Research Methods and Program Evaluation	3 credits
<u>CNL-610 Ω</u>	Clinical Assessment, Diagnosis, and Treatment	3 credits
CNL-605 Ω	Psychopathology	3 credits
<u>CNL-644 Ω</u>	Assessment of Mental and Emotional Health Status	2 credits
CNL-624 Ω	Counseling Practicum	2 credits
$\underline{\text{CNL-664A}}^{\Omega}$	Counseling Internship I	4 credits
$\underline{\text{CNL-664B}}^{\Omega}$	Counseling Internship II	4 credits
Master of Scie	ence in Clinical Mental Health	62 credits

Students who are Florida, Indiana, Nevada, or Utah residents must complete the Florida, Indiana, Nevada, or Utah specific requirements to meet the standards for certification/licensure in that state. Students must additionally take the following course

CNL-664C<sup>Ω</sup> Counseling Internship III 1 credit

# Master of Science in Clinical Mental Health Counseling with an Emphasis in Childhood and Adolescence Disorders

Grand Canyon University's Master of Science in Clinical Mental Health Counseling with an Emphasis in Childhood and Adolescence Disorders program is designed for students interested in becoming professional counselors. The program provides students with the knowledge and skills necessary to identify, assess, and address childhood- and adolescence-related disorders, developmental issues, child-parent-related issues, school and family life, and disorders specified in the DSM. The program's courses were selected to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC), the Certified Clinical Mental Health Counselor credential (CCMHC), and by Arizona Board of Behavioral Health Examiners. Students are provided with comprehensive training to achieve national certification and licensure in Arizona as a licensed counselor. This program of study is designed to meet the academic requirements for licensure in Arizona as a: •

Licensed Associate Counselor (LAC) •

Licensed Professional Counselor (LPC) Licensing and/or certification requirements may vary from state to state. It is the students' responsibility to check the licensing/certification requirements in their respective state.

### **Degree Requirements**

Counseling

UNV-508 $^{\Omega}$	Introduction to Graduate Studies in	2 credits
	Counseling	
CNL-505 $^{\Omega}$	Professional Counseling, Ethical,	3 credits
	and Legal Considerations	
CNL-500 $^{\Omega}$	Theories and Models of	3 credits
	Counseling	
CNL-501 $^{\Omega}$	Substance Use Disorders and	3 credits
	Addictions	
CNL-515 $^{\Omega}$	Counseling Skills	3 credits

CNL-509 Ω	Counseling the Culturally Diverse	3 credits
CNL-520 Ω	Group Counseling	3 credits
CNL-527 Ω	Principles of Psychopharmacology	3 credits
CNL-530 Ω	Human Sexuality and Issues of Aging	3 credits
CNL-518 Ω	Lifespan and Development	3 credits
CNL-521 Ω	Counseling Couples and Families	3 credits
CNL-545 Ω	Abuse, Crisis, and Trauma Counseling	3 credits
<u>CNL-523 Ω</u>	Assessment, Tests, and Measurements	3 credits
CNL-525 Ω	Career Counseling	3 credits
<u>CNL-540 Ω</u>	Research Methods and Program Evaluation	3 credits
<u>CNL-610 Ω</u>	Clinical Assessment, Diagnosis, and Treatment	3 credits
CNL-605 Ω	Psychopathology	3 credits
CNL-644 Ω	Assessment of Mental and Emotional Health Status	2 credits
<u>PCN-670</u>	Development through Childhood and Adolescence	3 credits
PCN-673	Developmental Disabilities	3 credits
PCN-672	Childhood and Adolescent Trauma	3 credits
PCN-671	Psychopathology and Treatment of Children and Adolescence	3 credits
CNL-624 Ω	Counseling Practicum	2 credits
CNL-664A Ω	Counseling Internship I	4 credits
<u>CNL-664B</u> Ω	Counseling Internship II	4 credits
Master of Scie	ence in Clinical Mental Health	74 credits

Master of Science in Clinical Mental Health Counseling with an Emphasis in Childhood and Adolescence Disorders

## Master of Science in Clinical Mental Health Counseling with an Emphasis in Christian Counseling

Grand Canyon University's Master of Science in Clinical Mental Health Counseling with an Emphasis in Christian Counseling program is designed for students interested in becoming professional counselors who are able to integrate Christian principles into their counseling practice and to apply that knowledge in a counseling setting. The program provides students with the knowledge and skills necessary for counseling clients experiencing a variety of psychological, social, behavioral, and emotional issues. This program is designed to prepare students for careers as clinical mental health counselors. Graduates may also be qualified to provide counseling services to clients with substance use issues and marital and family issues. Students will take a number of courses that integrate a Christcentered approach to emotional health, a foundational study of the integration of counseling theory and Christian thought, and a study of spiritual formation, thereby providing a supplemental study of spiritual growth for the counselor in life and practice. The program's courses were selected to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC), the Certified Clinical Mental Health Counselor credential (CCMHC), and by Arizona Board of Behavioral Health Examiners. A master's degree in counseling is a required step in

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{}^{\it{f}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

all 50 states, for individuals seeking to become a licensed counselor. This program of study is designed to meet the academic requirements for licensure in Arizona as a: •

Licensed Associate Counselor (LAC) •

Licensed Professional Counselor (LPC) Licensing and/or certification requirements may vary from state to state. It is the students' responsibility to check the licensing/certification requirements in their respective states.

### **Degree Requirements**

Degree Requi	Cincing		
<u>UNV-508 Ω</u>	Introduction to Graduate Studies in Counseling	2 credits	
<u>CNL-505 Ω</u>	Professional Counseling, Ethical, and Legal Considerations	3 credits	
<u>CNL-500 Ω</u>	Theories and Models of Counseling	3 credits	
<u>CNL-501 Ω</u>	Substance Use Disorders and Addictions	3 credits	
<u>CNL-515 Ω</u>	Counseling Skills	3 credits	
CNL-509 Ω	Counseling the Culturally Diverse	3 credits	
CNL-520 Ω	Group Counseling	3 credits	
CNL-527 Ω	Principles of Psychopharmacology	3 credits	
<u>CNL-530 Ω</u>	Human Sexuality and Issues of Aging	3 credits	
<u>CNL-518 Ω</u>	Lifespan and Development	3 credits	
CNL-521 Ω	Counseling Couples and Families	3 credits	
$\underline{\text{CNL-545}}^{\Omega}$	Abuse, Crisis, and Trauma Counseling	3 credits	
<u>CNL-523 Ω</u>	Assessment, Tests, and Measurements	3 credits	
CNL-525 Ω	Career Counseling	3 credits	
<u>CNL-540 Ω</u>	Research Methods and Program Evaluation	3 credits	
<u>CNL-610 Ω</u>	Clinical Assessment, Diagnosis, and Treatment	3 credits	
<u>CNL-605 Ω</u>	Psychopathology	3 credits	
<u>CNL-644 Ω</u>	Assessment of Mental and Emotional Health Status	2 credits	
<u>CCN-601</u>	Biblical Foundations for Counselors: The Story of God	3 credits	
<u>CCN-650</u>	Spiritual Formation: Becoming a Healthy Practitioner	3 credits	
<u>CCN-655</u>	Biblical Concepts-Healthy Relationships: Forgiveness & Healthy Spirituality	3 credits	
<u>CCN-675</u>	Integration of Scripture with Counseling Theory	3 credits	
CNL-624 Ω	Counseling Practicum	2 credits	
<u>CNL-664A</u> Ω	Counseling Internship I	4 credits	
<u>CNL-664B</u> Ω	Counseling Internship II	4 credits	
Master of Science in Clinical Mental Health Counseling with an Emphasis in Christian Counseling			

# Master of Science in Clinical Mental Health Counseling with an Emphasis in Marriage and Family Therapy

Grand Canyon University's Master of Science in Clinical Mental Health Counseling with an Emphasis in Marriage and Family Therapy program is designed for students interested in becoming professional counselors. The program provides students with the knowledge and skills necessary to identify, assess, and address marriage- and family-related issues, including, but not limited to, communication issues, parent-child relationship, different family dynamics, and couple's issues. The program's courses were selected to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC), the Certified Clinical Mental Health Counselor credential (CCMHC), and by Arizona Board of Behavioral Health Examiners. Students are provided with comprehensive training to achieve national certification and licensure in Arizona as a licensed counselor. This program of study is designed to meet the academic requirements for licensure in Arizona as a: • Licensed Associate Counselor (LAC) •

Licensed Professional Counselor (LPC) This degree does not lead to marriage and family licensure. Students are encouraged to review their marriage and family board licensure to see licensure requirements.

Degree Kequi	rements	
$\underline{\text{UNV-508}^{\Omega}}$	Introduction to Graduate Studies in Counseling	2 credits
$\underline{\text{CNL-505}}^{\Omega}$	Professional Counseling, Ethical, and Legal Considerations	3 credits
<u>CNL-500 Ω</u>	Theories and Models of Counseling	3 credits
<u>CNL-501 Ω</u>	Substance Use Disorders and Addictions	3 credits
CNL-515 Ω	Counseling Skills	3 credits
CNL-509 Ω	Counseling the Culturally Diverse	3 credits
CNL-520 Ω	Group Counseling	3 credits
CNL-527 Ω	Principles of Psychopharmacology	3 credits
$\frac{\text{CNL-530}}{\text{CNL-530}}$	Human Sexuality and Issues of Aging	3 credits
$\underline{\text{CNL-518}}^{\Omega}$	Lifespan and Development	3 credits
$\underline{\text{CNL-521}}^{\Omega}$	Counseling Couples and Families	3 credits
$\underline{\text{CNL-545}}^{\Omega}$	Abuse, Crisis, and Trauma Counseling	3 credits
$\underline{\text{CNL-523}}^{\Omega}$	Assessment, Tests, and Measurements	3 credits
$\underline{\text{CNL-525}}^{\Omega}$	Career Counseling	3 credits
<u>CNL-540 Ω</u>	Research Methods and Program Evaluation	3 credits
$\underline{\text{CNL-610}^{\Omega}}$	Clinical Assessment, Diagnosis, and Treatment	3 credits
$\underline{\text{CNL-605}}^{\Omega}$	Psychopathology	3 credits
<u>CNL-644 Ω</u>	Assessment of Mental and Emotional Health Status	2 credits
<u>MFT-526</u>	Advanced Family Systems Theory	3 credits
<u>MFT-621</u>	Couples and Family Dynamics: Systemic Perspectives	3 credits
<u>MFT-620</u>	Diversity in Family Systems	3 credits
<u>MFT-532</u>	Family Systems and Addictive Disorders	3 credits
$\underline{\text{CNL-624}}^{\Omega}$	Counseling Practicum	2 credits
$\underline{\text{CNL-664A}}^{\Omega}$	Counseling Internship I	4 credits
<u>CNL-664B</u> <sup>Ω</sup>	Counseling Internship II	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Master of Science in Clinical Mental Health	74 credits
Counseling with an Emphasis in Marriage and	
Family Therapy	

# Master of Science in Clinical Mental Health Counseling with an Emphasis in Trauma

Grand Canyon University's Master of Science in Clinical Mental Health Counseling with an Emphasis in Trauma program is designed for students interested in becoming professional counselors. The program prepares students to understand, assess, and treat developmental, childhood, and adulthood trauma-related disorders. This program offers students an exhaustive study of human behavior and trauma-informed care. The program's courses were selected to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC), the Certified Clinical Mental Health Counselor credential (CCMHC), and by Arizona Board of Behavioral Health Examiners. Students are provided with comprehensive training to achieve national certification and licensure in Arizona as a Licensed Professional Counselor. This program of study is designed to meet the academic requirements for licensure in Arizona as a: •

Licensed Associate Counselor (LAC) •

Licensed Professional Counselor (LPC) Licensing and/or certification requirements may vary from state to state. It is the students' responsibility to check the licensing/certification requirements in their respective state.

### **Degree Requirements**

Degree Requi	ii ciiicii is	
<u>UNV-508</u> Ω	Introduction to Graduate Studies in	2 credits
<u>CNL-505 Ω</u>	Counseling Professional Counseling, Ethical, and Legal Considerations	3 credits
<u>CNL-500 Ω</u>	Theories and Models of Counseling	3 credits
<u>CNL-501 Ω</u>	Substance Use Disorders and Addictions	3 credits
<u>CNL-515 Ω</u>	Counseling Skills	3 credits
CNL-509 Ω	Counseling the Culturally Diverse	3 credits
<u>CNL-520 Ω</u>	Group Counseling	3 credits
CNL-527 Ω	Principles of Psychopharmacology	3 credits
<u>CNL-530 Ω</u>	Human Sexuality and Issues of Aging	3 credits
CNL-518 Ω	Lifespan and Development	3 credits
<u>CNL-521 Ω</u>	Counseling Couples and Families	3 credits
<u>CNL-545 Ω</u>	Abuse, Crisis, and Trauma Counseling	3 credits
<u>CNL-523 Ω</u>	Assessment, Tests, and Measurements	3 credits
CNL-525 Ω	Career Counseling	3 credits
<u>CNL-540 Ω</u>	Research Methods and Program Evaluation	3 credits
<u>CNL-610 Ω</u>	Clinical Assessment, Diagnosis, and Treatment	3 credits
CNL-605 Ω	Psychopathology	3 credits
<u>CNL-644 Ω</u>	Assessment of Mental and Emotional Health Status	2 credits
PCN-680	Theoretical Foundations of Trauma Assessment, Diagnosis, and Treatment	3 credits

PCN-682	Relational Trauma: History and Treatment Issues	3 credits
PCN-683	Working with Developmental	3 credits
PCN-681	Trauma Community and Global Disaster Response	3 credits
<u>CNL-624 Ω</u>	Counseling Practicum	2 credits
<u>CNL-664A</u> Ω	Counseling Internship I	4 credits
<u>CNL-664B</u> Ω	Counseling Internship II	4 credits
Master of Scie	ence in Clinical Mental Health	74 credits

Master of Science in Clinical Mental Health Counseling with an Emphasis in Trauma

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## Master of Science in Criminal Justice with an Emphasis in Law Enforcement

Grand Canyon University's Master of Science in Criminal Justice with an Emphasis in Law Enforcement is designed for students seeking to expand their understanding of the law, social order, and justice. This program is particularly suited to law enforcement personnel who wish to advance in their field, as well as corrections, probation, and parole officers; law clerks; and other decision makers who address questions of public policy, social research, and administration of justice in the public sphere. The application of strategic planning and funding initiatives for justice organizations is also emphasized.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 credits	
<u>JUS-506</u>	Criminal Behavior Analysis	4 credits	
<u>JUS-620</u>	Exploration of Law and Public Policy	4 credits	
JUS-522	Ethics and Decision Making	4 credits	
<u>JUS-510</u>	Research Methods	4 credits	
<u>JUS-515</u>	Organizational Behavior and Leadership	4 credits	
<u>JUS-632</u>	Crime Prevention and Public Relations	4 credits	
<u>JUS-636</u>	Crime Analysis and Case Management	4 credits	
<u>JUS-640</u>	Advanced Crime Analysis	4 credits	
JUS-650	Strategic Analysis and Organizational Planning	4 credits	
Master of Sc	ience in Criminal Justice with an	38 credits	
Emphasis in Law Enforcement			

# Master of Science in Criminal Justice with an Emphasis in Legal Studies

Grand Canyon University's Master of Science in Criminal Justice with an Emphasis in Legal Studies is designed for students seeking to expand their understanding of the law, social order, and justice. This program is particularly suited to law enforcement personnel and other decision makers who address questions of public policy, social research, and administration of justice in the public sphere. This program also prepares students to work with legal concepts where in-depth analysis of law is required.

UNV- $503^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

JUS-506	Criminal Behavior Analysis	4 credits
JUS-620	Exploration of Law and Public Policy	4 credits
<u>JUS-522</u>	Ethics and Decision Making	4 credits
<u>JUS-510</u>	Research Methods	4 credits
<u>JUS-515</u>	Organizational Behavior and	4 credits
<u>JUS-631</u>	Leadership Exploration of Constitutional Criminal Law	4 credits
<u>JUS-635</u>	Legal Research	4 credits
JUS-641	Legal Communication	4 credits
<u>JUS-655</u>	Strategies for Funding and Effective Consulting	4 credits
Master of Sc	ience in Criminal Justice with an	38 credits

### Master of Science in Mental Health and Wellness

Grand Canyon University's Master of Science in Mental Health and Wellness degree exposes students to the influence of biological factors, life experience, and family history on mental health and wellness. This degree also allows students to explore areas of human nature, including cognitive, biopsychosocial, and spiritual factors, and social motivations. Students explore concepts of leadership, culture, advocacy, ethics, human development, and psychopathology. Students also become familiar with research and best practices of mental health and wellness as it relates to human resiliency, recovery, and daily functioning. This degree does not lead to licensure.

### **Degree Requirements**

Emphasis in Legal Studies

<u>UNV-503Ω</u>	Introduction to Graduate Studies in the Liberal Arts	2 credits
MHW-501	Introduction to Mental Health and Wellness	4 credits
MHW-510	Ethics and Cultural Diversity in Mental Health and Wellness	4 credits
PSY-650	Human Development	4 credits
MHW-520	Group Dynamics	4 credits
PSY-664	Community Health	4 credits
MHW-630	Documentation, Research, and Information Literacy in Mental Health and Wellness	4 credits
<u>MHW-640</u>	Mental Health, Wellness, and Health Care Integration	4 credits
$\underline{\text{MHW-649}^{\Omega}}$	Mental Health and Wellness Capstone	4 credits
Master of Sci	ience in Mental Health and Wellness	34 credits

# Master of Science in Mental Health and Wellness with an Emphasis in Christian Ministry

Grand Canyon University's Master of Science in Mental Health and Wellness degree with an Emphasis in Christian Ministry offers a foundation in biblical knowledge and theological wisdom to serve individuals who are seeking support and encouragement within a Christian framework. Students develop a deep understanding of the gospel to discuss relevant issues from a Christian perspective. This includes an exploration of spiritual health, growth, and character development for the caregiver in life and practice. They explore human nature, including cognitive, behavioral, interpersonal, mental, social, and spiritual

motivations. Students also become familiar with research and best practices of mental health and wellness as it relates to human resiliency, recovery, and daily functioning. This degree does not lead to licensure.

### **Degree Requirements**

2 082 00 210 40		
<u>UNV-503</u> <sup>Ω</sup>	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
MHW-501	Introduction to Mental Health and	4 credits
	Wellness	
MHW-510	Ethics and Cultural Diversity in	4 credits
17111777 010	Mental Health and Wellness	
MHW-511	Mental Health, the Biblical	4 credits
111111 311	Narrative, and Christian Theology	
MHW-521	Integrating Psychology and	4 credits
1111111 021	Christian Theology	
MHW-631	Spiritual Formation, Identity, and	4 credits
1111111 001	Wellness	
MHW-641	Mental Health Issues in Ministry	4 credits
	Mental Health, Wellness, and	4 credits
MHW-640		4 creuns
	Health Care Integration	
MHW-649 $^{\Omega}$	Mental Health and Wellness	4 credits
	Capstone	
Master of Sci	ence in Mental Health and Wellness	34 credits

Master of Science in Mental Health and Wellness with an Emphasis in Christian Ministry

# Master of Science in Mental Health and Wellness with an Emphasis in Community Mental Health Administration

Grand Canyon University's Master of Science in Mental Health and Wellness degree with an Emphasis in Community Mental Health Administration is designed for students interested in learning program planning and development, including policies and procedures, working with budgets, and learning leadership skills to apply in an administration role. Students who obtain this degree may be prepared to work in churches, hospitals, community-based organizations, and settings that provide social services. This degree also allows students to integrate mental health and wellness principles in a leadership role. Students explore concepts of effective communication, motivation, supervisory skills, culture, advocacy, ethics, and personal and professional development. Students also become familiar with research and best practices of mental health and wellness in an administration role. This degree does not lead to licensure.

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
MHW-501	the Liberal Arts Introduction to Mental Health and Wellness	4 credits
MHW-510	Ethics and Cultural Diversity in Mental Health and Wellness	4 credits
ADM-624	Public Governance	4 credits
<u>ADM-626</u>	Public Budgeting and Financial Management	4 credits
<u>HRM-635</u>	Acquiring, Developing, and Leveraging Human Capital	4 credits
<u>ADM-614</u>	Economics for Public Administrators	4 credits
MHW-640	Mental Health, Wellness, and Health Care Integration	4 credits
<u>MHW-649 Ω</u>	Mental Health and Wellness Capstone	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Master of Science in Mental Health and Wellness with an Emphasis in Community Mental Health Administration 34 credits

# Master of Science in Mental Health and Wellness with an Emphasis in Family Dynamics

Grand Canyon University's Master of Science in Mental Health and Wellness degree with an Emphasis in Family Dynamics is designed for those students who would like to work with families and various community settings, promoting mental health and wellness. Students who obtain this degree may be prepared to work in schools, churches, hospitals, community-based organizations, and settings that provide comprehensive children and family services. This degree also allows students to explore areas of human nature, including cognitive, behavioral, interpersonal, mental, spiritual, resiliency, family dynamics, and social motivations. Students explore concepts of culture, advocacy, ethics, human development, and psychopathology. Students also become familiar with research and best practices of mental health and wellness as it relates to family dynamics and systems. This degree does not lead to licensure.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
<u>MHW-501</u>	the Liberal Arts Introduction to Mental Health and Wellness	4 credits
MHW-510	Ethics and Cultural Diversity in Mental Health and Wellness	4 credits
MHW-512	Introduction to Family Dynamics & Systems	4 credits
MHW-522	Family Development	4 credits
MHW-632	Parenting	4 credits
MHW-642	Families in Contemporary Society	4 credits
MHW-640	Mental Health, Wellness, and	4 credits
<u>MHW-649 Ω</u>	Health Care Integration Mental Health and Wellness Capstone	4 credits

Master of Science in Mental Health and Wellness with an Emphasis in Family Dynamics 34 credits

# Master of Science in Mental Health and Wellness with an Emphasis in Grief and Bereavement

Grand Canyon University's Master of Science in Mental Health and Wellness degree with an Emphasis in Grief and Bereavement is designed to allow students to gain knowledge and understanding of dying, death, loss, and bereavement within the context of mental health and wellness. Students who obtain this degree may be prepared to work in hospice, churches, hospitals, community-based organizations, and settings that provide comprehensive grief and bereavement services. This degree also allows students to explore areas of human nature, including cognitive, behavioral, interpersonal, mental, spiritual, resiliency, family, and social dynamics. Students explore concepts of culture, advocacy, ethics, human development, and psychopathology as they relate to loss and bereavement. Students also become familiar with research and best practices of mental health and wellness when working with the bereaved. This degree does not lead to licensure.

### **Degree Requirements**

MHW-501 Introduction to Mental Health and Wellness  MHW-510 Ethics and Cultural Diversity in Mental Health and Wellness  MHW-513 Grief and Bereavement Theory and Practice  MHW-523 Journey of the Bereaved 4 credits  PSY-631 Death and Dying 4 credits  MHW-643 Death & Dying: The Influences of Cultural, Spiritual & Sociological Factors  MHW-640 Mental Health, Wellness, and Health Care Integration  MHW-649 Mental Health and Wellness 4 credits  Capstone	$\underline{\text{UNV-}503^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 (	credits
Mental Health and Wellness  MHW-513 Grief and Bereavement Theory and Practice  MHW-523 Journey of the Bereaved 4 credits  PSY-631 Death and Dying 4 credits  MHW-643 Death & Dying: The Influences of Cultural, Spiritual & Sociological Factors  MHW-640 Mental Health, Wellness, and Health Care Integration  MHW-649 Mental Health and Wellness 4 credits	<u>MHW-501</u>	Introduction to Mental Health and	4 (	credits
Practice  MHW-523 Journey of the Bereaved 4 credits  PSY-631 Death and Dying 4 credits  MHW-643 Death & Dying: The Influences of Cultural, Spiritual & Sociological Factors  MHW-640 Mental Health, Wellness, and Health Care Integration  MHW-649 Mental Health and Wellness 4 credits	MHW-510	•	4 (	credits
MHW-523Journey of the Bereaved4 creditsPSY-631Death and Dying4 creditsMHW-643Death & Dying: The Influences of Cultural, Spiritual & Sociological Factors4 creditsMHW-640Mental Health, Wellness, and Health Care Integration4 creditsMHW-649 \(^{\Omega}\)Mental Health and Wellness4 credits	MHW-513	3	4 (	credits
MHW-643 Death & Dying: The Influences of Cultural, Spiritual & Sociological Factors MHW-640 Mental Health, Wellness, and Health Care Integration MHW-649 Mental Health and Wellness  4 credits 4 credits	MHW-523		4 (	credits
Cultural, Spiritual & Sociological Factors  MHW-640 Mental Health, Wellness, and Health Care Integration MHW-649  Mental Health and Wellness  4 credits	PSY-631	Death and Dying	4 (	credits
MHW-640 Mental Health, Wellness, and Health Care Integration MHW-649 Mental Health and Wellness 4 credits	MHW-643	Cultural, Spiritual & Sociological	4 0	credits
$\underline{\text{MHW-649}}^{\Omega}$ Mental Health and Wellness 4 credits	<u>MHW-640</u>	Mental Health, Wellness, and	4 0	credits
	<u>MHW-649 Ω</u>	Mental Health and Wellness	4 (	credits

Master of Science in Mental Health and Wellness with an Emphasis in Grief and Bereavement 34 credits

# Master of Science in Mental Health and Wellness with an Emphasis in Integrated Health

Grand Canyon University's Master of Science in Mental Health and Wellness with an Emphasis in Integrated Health program introduces students to theory, knowledge, and appropriate strategies utilized within the field of integrated healthcare practices. In this program, students discuss integrated health program assessment, development, and implementation and are exposed to the therapeutic relationship between patients and practitioners. This program prepares students to assist, promote, and advocate for patient accessibility within integrated health services. Students explore areas of human nature, including cognitive, behavioral, interpersonal, mental, spiritual, resiliency, and social motivations. Students explore concepts of culture diversity, advocacy, ethics, human development, and the connection between mental and physical health. Students become familiar with research and best practices of mental health and wellness as it relates to human resiliency, recovery, and functioning within an integrated health focused environment. This degree does not lead to licensure.

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 credits
MHW-501	Introduction to Mental Health and Wellness	4 credits
<u>MHW-510</u>	Ethics and Cultural Diversity in Mental Health and Wellness	4 credits
PSY-662	Health and Wellness	4 credits
MHW-630	Documentation, Research, & Information Literacy in Mental Health & Wellness	4 credits
MHW-642	Families in Contemporary Society	4 credits
MHW-644	Community Program Development, Implementation, and Evaluation	4 credits
MHW-640	Mental Health, Wellness, and Health Care Integration	4 credits
<u>MHW-649 Ω</u>	Mental Health and Wellness Capstone	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Master of Science in Mental Health and Wellness with an Emphasis in Integrated Health

# Master of Science in Mental Health and Wellness with an Emphasis in Prevention

Grand Canyon University's Master of Science in Mental Health and Wellness degree with an Emphasis in Prevention is designed for those students who would like to promote prevention through a variety of modalities within mental health and wellness. Students who obtain this degree may be prepared to work in schools, churches, hospitals, community-based organizations, and settings that provide comprehensive prevention services. This degree also allows students to explore areas of human nature, including cognitive, behavioral, interpersonal, mental, spiritual, resiliency, and social motivations. Students explore concepts of culture, advocacy, ethics, human development, and psychopathology. Students also become familiar with research and best practices of mental health and wellness as it relates to the promotion of health and wellness, human resiliency, recovery, and functioning. This degree does not lead to licensure.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
MHW-501	the Liberal Arts Introduction to Mental Health and Wellness	4 credits
MHW-510	Ethics and Cultural Diversity in Mental Health and Wellness	4 credits
MHW-514	Introduction to Prevention Science	4 credits
MHW-524	Prevention Throughout the Lifespan	4 credits
MHW-634	Specific Prevention Topics	4 credits
MHW-644	Community Program Development, Implementation, and Evaluation	4 credits
MHW-640	Mental Health, Wellness, and Health Care Integration	4 credits
<u>MHW-649 Ω</u>	Mental Health and Wellness Capstone	4 credits

Master of Science in Mental Health and Wellness with an Emphasis in Prevention 34 credits

# Master of Science in Psychology with an Emphasis in Forensic Psychology

The Master of Science in Psychology with an Emphasis in Forensic Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. The program provides a comprehensive, rigorous, and analytic study of crime and society's responses to it. A focus is placed on the application of theory and research methods in the development of initiatives, policies, and practice. Students will develop a strong understanding and development of criminal justice ethics, issues of diversity, critical thinking, analytic, and leadership skills.

### **Degree Requirements**

UNV- $503^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
PSY-510	Contemporary and Ethical Issues in	4 credits
101 010	Psychology	
PSY-530	Social and Cultural Psychology	4 credits
PSY-620	Theories of Criminal Behavior	4 credits
PSY-621	Psychology and the Legal System	4 credits

PSY-520	Graduate Statistics	4 credits
PSY-550 Ω	Research Methods	4 credits
PSY-622	Psychopathology of Crime	4 credits
<u>PSY-623</u>	Offender Rehabilitation and Reintegration	4 credits
<u>PSY-693 Ω</u>	Professional Capstone	2 credits
Master of Science in Psychology with an		36 credits

Master of Science in Psychology with an Emphasis in Forensic Psychology

# Master of Science in Psychology with an Emphasis in General Psychology

The Master of Science in Psychology with an Emphasis in General Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology or related fields. Masters in psychology graduates seek careers working in a variety of settings including non-profit and for profit organizations. With a focus on the development of critical thinking and leadership qualities, graduates can impact others through leadership, action research, and introduction of programmatic community changes whether they are acting from the perspective of teachers, practitioners, or researchers. This program focuses on topics that include: contemporary and ethical issues in psychology; learning, cognition, and motivation; statistics; human development; research methods; health psychology; social and cultural psychology; and psychopathology. The program concludes with a capstone course that involves a research proposal.

### **Degree Requirements**

UNV- $503^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
PSY-510	Contemporary and Ethical Issues in	4 credits
	Psychology	
PSY-560	Learning, Cognition, and	4 credits
	Motivation	
PSY-530	Social and Cultural Psychology	4 credits
PSY-650	Human Development	4 credits
	Graduate Statistics	4 credits
<u>PSY-520</u>		
PSY-660	Health Psychology	4 credits
PSY-550	Research Methods	4 credits
PSY-570	Psychopathology	4 credits
PSY-693 Ω	Professional Capstone	2 credits
Master of Sc	Master of Science in Psychology with an	

Master of Science in Psychology with an Emphasis in General Psychology

# Master of Science in Psychology with an Emphasis in GeroPsychology

The Master of Science in Psychology with an Emphasis in GeroPsychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Geropsychology is a specialized field in psychology focusing on psychological and neurological aspects of aging. Student pursuing a Master's degree with an emphasis in geropsychology will apply theory and research practices to lead and influence change psychological care provided to the elderly. Exploration between the body and the mind will be explored so that interventions can be presented, which will inspire positive change. Topics of focus will include assisting aging adults to cope with anxiety, depression, and physical debilities associated

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

with the process of aging. Graduates will be prepared to conduct research on diseases related to aging such as dementia.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
<u>PSY-510</u>	the Liberal Arts Contemporary and Ethical Issues in Psychology	4 credits
PSY-530	Social and Cultural Psychology	4 credits
PSY-630	Sociology of Aging	4 credits
PSY-631	Death and Dying	4 credits
PSY-520	Graduate Statistics	4 credits
PSY-550 Ω	Research Methods	4 credits
PSY-632	Physical Health and the Biology of	4 credits
PSY-633	Aging Psychological, and Emotional, and Spiritual Aspects of Aging	4 credits
<u>PSY-693 Ω</u>	Professional Capstone	2 credits
Master of Science in Psychology with an		36 credits

## Master of Science in Psychology with an Emphasis in Health Psychology

Master of Science in Psychology with an

Emphasis in GeroPsychology

The Master of Science in Psychology with an Emphasis in Health Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. The Master's degree with an emphasis in health psychology focuses on psychological, biological and social factors influencing health and illness. Students pursuing a Master's degree with an emphasis in Health Psychology will assist individuals or groups in preventing illness and promoting healthy behaviors. Theory and research practices will be presented to prepare graduates to lead and influence change health among diverse communities. Exploration between the body and the mind will be explored so that interventions can be presented which will inspire positive change. Stress, nutrition, complementary and alternative medical approaches, eating disorders, medical compliance, and pain management are topics of interest, which will be explored in regards to how they affect health and illness. Graduates will be prepared to conduct research and work in a variety of settings including hospitals, universities, private corporations, government settings, private agencies, and health care clinics.

## **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in	2 credits
<u>PSY-510</u>	the Liberal Arts Contemporary and Ethical Issues in Psychology	4 credits
PSY-530	Social and Cultural Psychology	4 credits
PSY-661	Promotion of Health Behaviors	4 credits
PSY-662	Health and Wellness	4 credits
PSY-520	Graduate Statistics	4 credits
<u>PSY-550 Ω</u>	Research Methods	4 credits
PSY-664	Community Health	4 credits
PSY-663	Future of Health Psychology	4 credits
<u>PSY-693 Ω</u>	Professional Capstone	2 credits

36 credits Master of Science in Psychology with an Emphasis in Health Psychology

# Master of Science in Psychology with an Emphasis in Human Factors Psychology

The Master of Science in Psychology with an Emphasis in Human Factors Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Human Factors Psychology is the merging of the fields of psychology and engineering. It is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system. This profession applies research, theory, principles, data, and other methods to design in order to optimize overall system performance. This field strives to make technology easier and safer for people to use and to improve everyday life. Areas that Human Factors Psychologist's specialize in include; human computer interaction, usability, user experience design and product design. Individuals in Human Factors work in a variety of settings including government, all branches of the armed services, universities, and private technology driven companies, specializing in hardware and software product and systems.

### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 credits
<u>PSY-510</u>	Contemporary and Ethical Issues in Psychology	4 credits
PSY-530	Social and Cultural Psychology	4 credits
PSY-580	Foundations of Human Factors	4 credits
PSY-581	Sensation and Perception	4 credits
PSY-520	Graduate Statistics	4 credits
PSY-550 Ω	Research Methods	4 credits
PSY-582	Software	4 credits
PSY-583	Cognition	4 credits
PSY-693 Ω	Professional Capstone	2 credits
Master of Science in Psychology with an		36 credits

Master of Science in Psychology with an Emphasis in Human Factors Psychology

Master of Science in Psychology with an Emphasis

# in Industrial and Organizational Psychology The Master of Science in Psychology with an Emphasis in

Industrial and Organizational Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Though the work environments and job titles vary widely, oftentimes individuals with a degree in industrial and organizational psychology pursue careers as consultants and academicians.

In the master's in industrial organizational psychology program, students will study the principles of psychology in order to gain an understanding of why people act the way they do in the workplace, allowing them to better predict employer behavior. A strong focus is placed on producing usable data regarding workplace performance in order to offer recommendations to management.

Other topics included in the Master of Science in Psychology with an Emphasis in Industrial and Organizational Psychology are: contemporary and ethical issues in psychology, industrial/organizational psychology, statistics, organizational

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

behavior and development, research methods, strategies for effective leadership and consultation, social and cultural psychology, and principles of personnel and human resource management.

#### **Degree Requirements**

$\underline{\text{UNV-503}^{\Omega}}$	Introduction to Graduate Studies in the Liberal Arts	2 credits
<u>PSY-510</u>	Contemporary and Ethical Issues in Psychology	4 credits
<u>PSY-565</u>	Industrial/Organizational Psychology	4 credits
PSY-530	Social and Cultural Psychology	4 credits
<u>PSY-575</u>	Organizational Behavior and Development	4 credits
PSY-520	Graduate Statistics	4 credits
<u>PSY-655</u>	Strategies for Effective Leadership and Consultation	4 credits
PSY-550	Research Methods	4 credits
<u>PSY-665</u>	Principles of Personnel and Human Resource Management	4 credits
<u>PSY-693 Ω</u>	Professional Capstone	2 credits

Master of Science in Psychology with an
Emphasis in Industrial and Organizational
Psychology

# Master of Science in Psychology with an Emphasis in Life Coaching

The Master of Science in Psychology with an Emphasis in Life Coaching is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Life Coaching is an emerging field that involves and integrates areas of sociology, psychology and counseling. Student's pursuing a Master's degree in Psychology with an emphasis in Life Coaching will learn the skills necessary to assist others in facilitating change in their lives and include techniques and strategies related to helping others fulfill their personal and professional potential. Employment prospects in this area include working with a range of diverse individuals, groups and professional organizations. Building a business, utilizing resources to change careers, learning to create and sustain balance in one's life as well as growing and enhancing motivation levels are just a few of themes that a graduate from this program will master. Important topics in this field of study include advanced rapport building and communication strategies, identifying maladaptive cognitions, exploration of theories and models of effective leadership, interviewing and observational techniques as well as data analysis. The program prepares graduates for a non-licensed, helping profession beyond completion of the program.

#### **Degree Requirements**

UNV- $503^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Liberal Arts	
PSY-510	Contemporary and Ethical Issues in	4 credits
	Psychology	
PSY-530	Social and Cultural Psychology	4 credits
PSY-610	Introduction to Coaching	4 credits
PSY-611	Individual Coaching	4 credits
PSY-520	Graduate Statistics	4 credits

PSY-550	Research Methods	4 credits
<u>PSY-612</u>	Business and Organization Coaching	4 credits
PSY-613	Assessment/Facilitation	4 credits
<u>PSY-693 Ω</u>	Professional Capstone	2 credits
Master of Science in Psychology with an 36		36 credits

Emphasis in Life Coaching

# Master of Science in Sociology with an Emphasis in Education

Grand Canyon University's Master of Science in Sociology with an Emphasis in Education prepares students for teaching undergraduate courses at the 2-year or 4-year institution in both ground and online modalities. Balancing sociology content with pedagogy and classroom techniques, this unique program offers a pathway to obtaining advanced training in the field of sociology while satisfying the requirements for ongoing professional development. Graduates of this program will be able to fulfill the graduate course requirements necessary for opportunities in teaching at the post-secondary level.

#### **Degree Requirements**

<u>UNV-503 Ω</u>	Introduction to Graduate Studies in the Liberal Arts	2 credits
SOC-502	Sociology Today	4 credits
SOC-500	Social Theory	4 credits
EDU-534	Effective Pedagogy for Higher Education	4 credits
SOC-505	Sociology of the Family	4 credits
<u>SOC-510</u>	Stratification from Global Perspectives	4 credits
EDU-548	Curricular and Instructional Methods in Higher Education	4 credits
SOC-515	Social Change and Development	4 credits
<u>SOC-520</u>	Sociology and Pedagogy in the University	4 credits
Master of Sc	ience in Sociology with an Emphasis	34 credits

Master of Science in Sociology with an Emphasis in Education 34

### Master of Social Work

Grand Canyon University's Master of Social Work (MSW) program is designed to prepare students to gain knowledge and skills to apply social work principles, values, and ethics when working with individuals, families, and communities on various social and behavioral health issues with an Advanced Generalist Social Work practice focus. Students in the MSW Program are prepared to actively engage in social justice issues affecting diverse individuals, families, communities, and organizations, employing evidence-based practice, strategies, and interventions. This program has been developed, adhering to the social work standards and competencies established by the Council on Social Work Education (CSWE).

UNV-510 $^{\Omega}$	Introduction to Graduate Studies in	2 credits
	Social Work	
SWK-516 $^{\Omega}$	Human Behavior in the Social	3 credits
	Environment I	
SWK-520 $^{\Omega}$	Social Welfare Policy and Services	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>SWK-525</u> <sup>Ω</sup>	Generalist Social Work Practice I: Working With Individuals and Systems	3 credits
$SWK-530^{\Omega}$	Diversity and Social Justice in Social Work	3 credits
SWK-535 $^{\Omega}$	Field Instruction I	4 credits
$\underline{SWK-541^{\Omega}}$	Human Behavior in the Social Environment II	3 credits
<u>SWK-545<sup>Ω</sup></u>	Generalist Social Work Practice II: Groups, Communities, and Organizations	3 creidts
$SWK-550^{\Omega}$	Field Instruction II	4 credits
<u>SWK-555</u> <sup>Ω</sup>	Methods of Research in Social Work I	3 credits
$\underline{\text{SWK-}600^{\Omega}}$	Psychopathology and the Role of the Social Worker	3 credits
SWK-601 $^{\Omega}$	Social Work Advocacy	3 credits
$SWK-610^{\Omega}$	Advanced Social Work Practice Skills I: Individuals and Families	3 credits
$SWK-620^{\Omega}$	Field Instruction III	4 credits
<u>SWK-625<sup>Ω</sup></u>	Evidence Based Practice in Social Work	3 credits
$\underline{\text{SWK-640}^{\Omega}}$	Advanced Social Work Practice Skills II: Groups	3 credits
<u>SWK-641<sup>Ω</sup></u>	Advanced Social Work Practice Skills III: Organizations and Communities	3 credits
SWK-635 <sup>Ω</sup>	Field Instruction IV	4 credits
<u>SWK-645</u> <sup>Ω</sup>	Methods of Research in Social Work II	3 credits
<u>SWK-690</u> <sup>Ω</sup>	Social Work Capstone	2 credits
Master of So	cial Work	62 credits

### Master of Social Work (Advanced Standing)

Grand Canyon University's Master of Social Work (MSW) (Advanced Standing) program is a specialized, Advanced Generalist program for students who have completed a Bachelor of Social Work (BSW) degree from a Council on Social Work Education (CSWE) accredited program. The MSW (Advanced Standing) program is designed to build upon the knowledge and skills developed during the BSW education and applies advanced application of social work theory, practice, and social work ethics when working with individuals, families, groups, organizations, and communities on various social and behavioral health issues. Students in the MSW (Advanced Standing) program will be prepared to actively engage in social justice issues affecting each system level, employing evidence-based practice strategies and interventions through this Advanced Generalist specialization. This program has been developed, adhering to the social work standards and competencies established by the CSWE.

#### **Degree Requirements**

$\underline{\text{UNV-605}^{\Omega}}$	Introduction to Graduate Studies in Advanced Standing Social Work	2 credits
$\underline{\text{SWK-600}^{\Omega}}$	Psychopathology and the Role of the Social Worker	3 credits
<u>SWK-601<sup>Ω</sup></u>	Social Work Advocacy	3 credits
$SWK-610^{\Omega}$	Advanced Social Work Practice Skills I: Individuals and Families	3 credits
<u>SWK-621<sup>Ω</sup></u>	Advanced Standing Field Instruction I	4 credits

$\underline{\text{SWK-625}^{\Omega}}$	Evidence Based Practice in Social Work	3 credits
$SWK-640^{\Omega}$	Advanced Social Work Practice Skills II: Groups	3 credits
<u>SWK-641<sup>Ω</sup></u>	Advanced Social Work Practice Skills III: Organizations and	3 credits
	Communities	
$SWK-636^{\Omega}$	Advanced Standing Field Instruction II	4 credits
<u>SWK-645<sup>Ω</sup></u>	Methods of Research in Social	3 credits
GMMT <000	Work II	2 credits
<u>SWK-690</u> <sup>Ω</sup>	Social Work Capstone	2 cleuits
Master of So	cial Work (Advanced Standing)	33 credits

# **Graduate Certificate of Completion in Christian Counseling**

Grand Canyon University's Graduate Certificate of Completion in Christian Counseling offers an introduction to counseling theory within a Christian worldview. Students will take courses that integrate a Christ-centered approach to emotional and behavioral health difficulties. This certificate introduces students to the counseling field, which includes the integration of counseling theory, Christian worldview, and the study of spiritual formation. This certificate also offers an exploration of spiritual health for the helping professional. This certificate does not lead to certification or licensure.

#### **Degree Requirements**

CCN-601	Biblical Foundations for	3 credits
	Counselors: The Story of God	3 credits
<u>CCN-650</u>	Spiritual Formation: Becoming a Healthy Practitioner	3 credits
CCN-655	Biblical Concepts-Healthy	3 credits
	Relationships: Forgiveness &	
	Healthy Spirituality	
CCN-675	Integration of Scripture with	3 credits
	Counseling Theory	
Graduate Ce	rtificate of Completion in Christian	12 credits
Counseling		

# **Graduate Certificate of Completion in Forensic Psychology**

The Graduate Certificate of Completion in Forensic Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. The program provides a comprehensive, rigorous, and analytic study of crime and society's responses to it. A focus is placed on the application of theory and research methods in the development of initiatives, policies, and practice. Students will develop a strong understanding and development of criminal justice ethics, issues of diversity, critical thinking, analytic, and leadership skills.

PSY-620	Theories of Criminal Behavior	4 credits
PSY-621	Psychology and the Legal System	4 credits
PSY-622	Psychopathology of Crime	4 credits
PSY-623	Offender Rehabilitation and Reintegration	4 credits
Graduate Ce	rtificate of Completion in Forensic	16 credits
Psychology	•	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# **Graduate Certificate of Completion in** GeroPsychology

The Graduate Certificate of Completion in GeroPsychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. GeroPsychology is a specialized field in psychology focusing on psychological and neurological aspects of aging. Student pursuing a graduate-level certificate in geropsychology will apply theory and research practices to lead and influence change psychological care provided to the elderly. Exploration between the body and the mind will be explored so that interventions can be presented, which will inspire positive change. Topics of focus will include assisting aging adults to cope with anxiety, depression, and physical debilities associated with the process of aging. Graduates will be prepared to conduct research on diseases related to aging such as dementia.

### **Degree Requirements**

PSY-630	Sociology of Aging	4 credits
PSY-631	Death and Dying	4 credits
PSY-632	Physical Health and the Biology of the Aging	4 credits
<u>PSY-633</u>	Psychological, and Emotional, and Spiritual Aspects of Aging	4 credits

Graduate Certificate of Completion in GeroPsychology

16 credits

# **Graduate Certificate of Completion in Health Psychology**

The Graduate Certificate of Completion in Health Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. The certificate program focuses on psychological, biological and social factors influencing health and illness. Students pursuing a graduate-level certificate will assist individuals or groups in preventing illness and promoting healthy behaviors. Theory and research practices will be presented to prepare graduates to lead and influence change health among diverse communities. Exploration between the body and the mind will be explored so that interventions can be presented which will inspire positive change. Stress, nutrition, complementary and alternative medical approaches, eating disorders, medical compliance, and pain management are topics of interest, which will be explored in regards to how they affect health and illness. Graduates will be prepared to conduct research and work in a variety of settings including hospitals, universities, private corporations, government settings, private agencies, and health care clinics.

# **Degree Requirements**

PSY-661	Promotion of Health Behaviors	4 credits
PSY-662	Health and Wellness	4 credits
PSY-664	Community Health	4 credits
PSY-663	Future of Health Psychology	4 credits
Graduate C	ertificate of Completion in Health	16 credits

Psychology

# **Graduate Certificate of Completion in Human Factors Psychology**

The Graduate Certificate of Completion in Human Factors Psychology is a program designed for individuals who desire

promotion and/or continued academic exposure in the field of psychology. Human Factors Psychology is the merging of the fields of psychology and engineering. It is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system. This profession applies research, theory, principles, data, and other methods to design in order to optimize overall system performance. This field strives to make technology easier and safer for people to use and to improve everyday life. Areas that Human Factors Psychologist's specialize in include: human computer interaction. usability, user experience design and product design. Individuals in Human Factors work in a variety of settings including government, all branches of the armed services, universities, and private technology driven companies, specializing in hardware and software product and systems.

### **Degree Requirements**

PSY-580	Foundations of Human Factors	4 credits
PSY-581	Sensation and Perception	4 credits
PSY-582	Software	4 credits
PSY-583	Cognition	4 credits
Graduate Certificate of Completion in Human		16 credits

Factors Psychology

# **Graduate Certificate of Completion in Industrial** and Organizational Psychology

The Graduate Certificate of Completion in Industrial and Organizational Psychology is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Though the work environments and job titles vary widely, oftentimes individuals with a certificate in industrial and organizational psychology pursue careers as consultants and academicians.

In the graduate certificate of completion in industrial organizational psychology program, students will study the principles of psychology in order to gain an understanding of why people act the way they do in the workplace, allowing them to better predict employer behavior. A strong focus is placed on producing usable data regarding workplace performance in order to offer recommendations to management.

#### **Degree Requirements**

81		
PSY-565	Principles of Industrial and	4 credits
	Organizational Psychology	
PSY-575	Organizational Behavior and	4 credits
	Development	
PSY-655	Strategies for Effective Leadership	4 credits
101 000	and Consultation	
PSY-665	Principles of Personnel and Human	4 credits
151 000	Resource Management	
Graduate Certificate of Completion in Industrial 16 credits		
	*	
and Organiz	ational Psychology	

# **Graduate Certificate of Completion in Life** Coaching

The Graduate Certificate of Completion in Life Coaching is a program designed for individuals who desire promotion and/or continued academic exposure in the field of psychology. Life Coaching is an emerging field that involves and integrates areas of sociology, psychology and counseling. Student's pursuing a graduate certificate in Life Coaching will learn the skills

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

necessary to assist others in facilitating change in their lives and include techniques and strategies related to helping others fulfill their personal and professional potential. Employment prospects in this area include working with a range of diverse individuals, groups and professional organizations. Building a business, utilizing resources to change careers, learning to create and sustain balance in one's life as well as growing and enhancing motivation levels are just a few of themes that a graduate from this program will master. Important topics in this field of study include advanced rapport building and communication strategies, identifying maladaptive cognitions, exploration of theories and models of effective leadership, interviewing and observational techniques as well as data analysis. The program prepares graduates for a non-licensed, helping profession beyond completion of the program.

#### **Degree Requirements**

Coaching

PSY-610	Introduction to Coaching	4 credits
PSY-611	Individual Coaching	4 credits
<u>PSY-612</u>	Business and Organization Coaching	4 credits
PSY-613	Assessment/Facilitation	4 credits
Graduate C	ertificate of Completion in Life	16 credits

# Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Community Mental Health Administration

Grand Canyon University's Graduate Certificate of Completion in Mental Health and Wellness with an Emphasis in Community Mental Health Administration program is designed for students interested in learning program planning and development, including policies and procedures and working with budgets, and learning leadership skills to apply in an administration role. Students who obtain this certificate may be prepared to work in churches, hospitals, community-based organizations, and settings that provide social services. This certificate introduces students to integrating mental health and wellness principles in a leadership role. Students explore concepts of effective communication, motivation, supervisory skills, culture, advocacy, ethics, and personal and professional development. This certificate does not lead to licensure.

#### **Degree Requirements**

MHW-640	Mental Health, Wellness, and	4 credits
	Health Care Integration	
ADM-614	Economics for Public	4 credits
	Administrators	
ADM-624	Public Governance	4 credits
ADM-626	Public Budgeting and Financial	4 credits
	Management	
Graduate Ce	rtificate of Completion in Mental	16 credits
Health and Wellness Emphasis in Community		

# Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Family Dynamics Studies

Grand Canyon University's Graduate Certificate of Completion in Mental Health and Wellness with an Emphasis in Family Dynamics Studies program is designed for students interested in working with families and various community settings, promoting mental health and wellness. Students will explore areas of family development, family dynamics, parenting, and social motivations. Students are also introduced to research and best practices for integrating mental health and wellness principles within family dynamics and systems. This certificate does not lead to certification or licensure.

#### **Degree Requirements**

MHW-512	Introduction to Family Dynamics & Systems	4 credits
MHW-522	Family Development	4 credits
MHW-632	Parenting	4 credits
MHW-642	Families in Contemporary Society	4 credits
Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Family		
Dynamics Studies		

# Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Integrated Health

Grand Canyon University's Graduate Certificate of Completion in Mental Health and Wellness with an Emphasis in Integrated Health introduces students to the field of integrated healthcare practices. Students discuss integrated health program assessment, development, and implementation, and are exposed to the therapeutic relationship between patients and practitioners. Students also become familiar with research and best practices of mental health and wellness as they relate to human resiliency, recovery, and functioning within an integrated health-focused environment. This certificate does not lead to certification or licensure.

# **Degree Requirements**

MHW-630	Documentation, Research, &	4 credits
	Information Literacy in Mental	
	Health & Wellness	
MHW-642	Families in Contemporary Society	4 credits
MHW-644	Community Program Development,	4 credits
	Implementation, and Evaluation	
PSY-662	Health and Wellness	4 credits
Graduate Cer	rtificate of Completion in Mental	16 credits
Health and V	Vellness Emphasis in Integrated	
Health	-	

# Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Grief and Bereavement

Grand Canyon University's Graduate Certificate of Completion in Mental Health and Wellness with an Emphasis in Grief and Bereavement program is designed to allow students to gain knowledge and understanding of the dying, death, loss and bereavement within the context of mental health and wellness. Students become familiar with concepts of human nature as it relates to loss and bereavement, including cognitive, behavioral, interpersonal, mental, spiritual, resiliency, family and social dynamics. Students are introduced to research and best practices of mental health and wellness when working with the bereaved and those affected by loss. This certificate does not lead to licensure.

Mental Health Administration

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

MHW513	Grief and Bereavement Theory and	4 credits
	Practice	
MHW523	Journey of the Bereaved	4 credits
PSY-631	Death and Dying	4 credits
MHW-643	Death & Dying: The Influences of Cultural, Spiritual & Sociological	4 credits
	Factors	

Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Grief and Bereavement

their license

16 credits

# Graduate Certificate of Completion in Mental Health and Wellness Emphasis in Christian Ministry

Grand Canyon University's Graduate Certificate of Completion in Mental Health and Wellness with an Emphasis in Christian Ministry offers a basic foundation in biblical knowledge and theological wisdom within the context of mental health and wellness. Students become familiar with concepts of human nature from a Christian perspective, including cognitive, behavioral, interpersonal, mental, social, and spiritual motivations. Students also become familiar with research and best practices in mental health and wellness as it relates to human resiliency, recovery, and functioning. This certificate does not lead to licensure.

# **Degree Requirements**

MHW-511	Mental Health, the Biblical	4 credits
	Narrative, and Christian Theology	
MHW-521	Integrating Psychology and	4 credits
	Christian Theology	
MHW-631	Spiritual Formation, Identity, and	4 credits
	Wellness	
MHW-641	Mental Health Issues in Ministry	4 credits
Graduate Ce	rtificate of Completion in Mental	16 credits
	Wellness Emphasis in Christian	
Ministry	•	

# **Graduate Certificate of Completion in Sociology**

The Graduate Certificate in Sociology prepares students with content expertise required to teach Sociology coursework at a 2-year or 4-year institution of higher learning in both ground and online modalities. Including courses in social theory, stratification, social change and pedagogy, this unique program provides advanced training in the field of Sociology, while satisfying the requirements for ongoing professional development.

#### **Degree Requirements**

SOC-500	Social Theory	4 credits
SOC-505	Sociology of the Family	4 credits
SOC-510	Social Change and Development	4 credits
<u>SOC-520</u>	Sociology and Pedagogy in the University	4 credits
C dt C		20 credits
Graduate Certificate of Completion in Sociology		20 cicuits

# Post-Master of Science in Counseling: Addiction Counseling Certificate

The Post-Master of Science in Counseling: Addiction Counseling Certificate is designed for professionals who are working in a field related to behavioral and/or mental health. The program provides students with the knowledge and skills necessary to assess and address substance use and addictive disorders, as specified in the DSM. While this certificate may lead to certification with certain associations, it is not intended to lead to licensure. Students should apply the acquired knowledge within their license or certification scope of practice.

#### **Degree Requirements**

PCN-640	Specialization in Professional Counseling	3 credits
PCN-501	Introduction to Addiction and Substance Use Disorders	3 credits
PCN-529	Co-Occurring Disorders	3 credits
PCN-531	Family Issues and Addictive Disorders	3 credits
PCN-535	Counseling Chemically Dependent Adolescents	3 credits
Post-Master of Science in Counseling: Addiction Counseling Certificate		15 credits

# Post-Master of Science in Counseling: Childhood and Adolescence Disorders Certificate

The Post-Master of Science in Counseling: Childhood and Adolescence Disorders Certificate is designed for professionals who are working in a field related to behavioral and/or mental health. The program provides students with the knowledge and skills necessary to assess and address childhood- and adolescence-related disorders, developmental issues, child-parent-related issues, school and family life, and disorders specified in the DSM. While this certificate may lead to certification with certain associations, it is not intended to lead to licensure. Students should apply the acquired knowledge within their license or certification scope of practice.

#### **Degree Requirements**

PCN-640	Specialization in Professional	3 credits
PCN-670	Counseling Development through Childhood and Adolescence	3 credits
PCN-673	Developmental Disabilities	3 credits
PCN-672	Childhood and Adolescent Trauma	3 credits
PCN-671	Psychopathology and Treatment of Children and Adolescence	3 credits
Post-Master of Science in Counseling: Childhood 15 credits and Adolescence Disorders Certificate		

# Post-Master of Science in Counseling: Marriage and Family Therapy Certificate

The Post-Master of Science in Counseling: Marriage and Family Therapy Certificate is designed for professionals who are working in a field related to behavioral and/or mental health. The program provides students with the knowledge and skills necessary to assess and address marriage- and family-related issues, including, but not limited to, communication issues, parent-child relationship, family system dynamics, and couple's issues. While this certificate may lead to certification with certain

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

associations, it is not intended to lead to licensure. Students should apply the acquired knowledge within their license or certification scope of practice.

#### **Degree Requirements**

PCN-640	Specialization in Professional	3 credits
	Counseling	
MFT-526	Advanced Family Systems Theory	3 credits
MFT-621	Couples and Family Dynamics:	3 credits
	Systemic Perspectives	
MFT-620	Diversity in Family Systems	3 credits
MFT-532	Family Systems and Addictive	3 credits
	Disorders	

15 credits Post-Master of Science in Counseling: Marriage and Family Therapy Certificate

# Post-Master of Science in Counseling: Trauma Certificate

The Post-Master of Science in Counseling: Trauma Certificate is designed for professionals who are working in a field related to behavioral and/or mental health. This program prepares students to assess and treat developmental, childhood, and adulthood trauma-related disorders. It offers students a comprehensive study of human behavior and trauma-informed care. While this certificate may lead to certification with certain associations, it is not intended to lead to licensure. Students should apply the acquired knowledge within their license or certification scope of practice.

# **Degree Requirements**

Certificate

PCN-640	Specialization in Professional	3 credits
	Counseling	
PCN-680	Theoretical Foundations of Trauma	3 credits
101,000	Assessment, Diagnosis, and	
	Treatment	
PCN-682	Relational Trauma: History and	3 credits
	Treatment Issues	
PCN-683	Working with Developmental	3 credits
	Trauma	
PCN-681	Community and Global Disaster	3 credits
	Response	
Post-Master	of Science in Counseling: Trauma	15 credits

# **Bridge to Doctor of Philosophy in Counselor Education and Supervision Qualitative Research**

Offered online by the College of Doctoral Studies, Grand Canvon University's Bridge to Doctor of Philosophy (PhD) in Counselor Education and Supervision program is designed for ambitious learners with a Master's degree in counseling but who require specific core courses required to meet CACREP standards. Bridge courses taken prior to the PhD program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Philosophy (PhD) in Counselor Education and Supervision program includes coursework in human growth and development, assessment and testing, research and program evaluation, and career development to help prepare the learner to successfully complete the PhD degree program.

CNL-518	Lifespan and Development	3 credits
CNL-523	Assessment, Test, and	3 credits
	Measurement	

CNL-540	Research Methods and Program	3 credits		
	Evaluation			
CNL-525	Career Counseling	3 credits		
CNL-520	Group Counseling	3 credits		
CNL-505	Professional Counseling, Ethical,	3 credits		
	and Legal Considerations			
CNL-509	Counseling the Culturally Diverse	3 credits		
CNL-515	Counseling Skills	3 credits		
CNL-624	Counseling Practicum	2 credits		
Bridge to Do	octor of Philosophy in Counselor	26 credits		
Education a	nd Supervision			

# Bridge to Doctor of Philosophy in Counselor **Education and Supervision Quantitative Research**

Offered online by the College of Doctoral Studies, Grand Canyon University's Bridge to Doctor of Philosophy (PhD) in Counselor Education and Supervision program is designed for ambitious learners with a Master's degree in counseling but who require specific core courses required to meet CACREP standards. Bridge courses taken prior to the PhD program offer the essential prerequisites to doctoral study. The Bridge to the Doctor of Philosophy (PhD) in Counselor Education and Supervision program includes coursework in human growth and development, assessment and testing, research and program evaluation, and career development to help prepare the learner to successfully complete the PhD degree program.

CNL-518	Lifespan and Development	3 credits
CNL-523	Assessment, Test, and	3 credits
<u>CNL-540</u>	Measurement Research Methods and Program Evaluation	3 credits
CNL-525	Career Counseling	3 credits
CNL-520	Group Counseling	3 credits
<u>CNL-505</u>	Professional Counseling, Ethical, and Legal Considerations	3 credits
CNL-509	Counseling the Culturally Diverse	3 credits
CNL-515	Counseling Skills	3 credits
<u>CNL-624</u>	Counseling Practicum	2 credits
Bridge to Doctor of Philosophy in Counselor		26 credits

Bridge to Doctor of Philosophy in Counselor **Education and Supervision** 

# **Doctor of Philosophy in Counselor Education and Supervision (Qualitative Research)**

The doctoral degree in Counselor Education and Supervision is intended to prepare graduates to work as counselor educators, supervisors, researchers, and practitioners in academic and clinical settings. The standards for this program are intended to accommodate the unique strengths of students seeking to enhance their leadership and counseling skills. Students will be able to employ quantitative methodology to design, collect, and analyze information in alignment with conducting a scholarly dissertation.

$RES-815^{\Omega}$	Introduction to Research	3 credits
$\underline{\text{RES-820D}^{\Omega}}$	The Literature Landscape: Counselor Education and Supervision	3 credits
	Subervision	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

PCE-801	Ethics, Laws, and Multicultural Issues	3 credits		ative methodology to design, collect, alignment with conducting a scholarly	
PCE-803	Advanced Integrated Theories	3 credits	dissertation.		
PCE-905	and Practices Counselor Education and	2 credits	Degree Requir		
	Supervision Practicum		$\underline{\text{RES-815}^{\Omega}}$	Introduction to Research	3 credits
$\underline{\text{RES-831}^{\Omega}}$	Foundations of Research Design	3 credits	$\underline{\text{RES-820D}^{\Omega}}$	The Literature Landscape: Counselor Education and	3 credits
$RSD-851^{\Omega}$	Residency: Dissertation	3 credits		Supervision	
$\underline{\text{RES-832}^{\Omega}}$	Foundations of Research Design	3 credits	PCE-801	Ethics, Laws, and Multicultural Issues	3 credits
<u>PCE-806<sup>Ω</sup></u>	2 Clinical Supervision	3 credits	PCE-803	Advanced Integrated Theories and Practices	3 credits
$\underline{\text{PCE-921}^{\Omega}}$	Advanced Internship II: Supervision	2 credits	PCE-905	Counselor Education and	2 credits
PCE-805	Pedagogy in Counselor Education	3 credits	$\underline{\text{RES-831}^{\Omega}}$	Supervision Practicum Foundations of Research Design	3 credits
PCE-920 <sup>Ω</sup>	Advanced Internship I: Teaching	2 credits	RSD-851 $^{\Omega}$	Residency: Dissertation	3 credits
$\overline{\text{RES-841}^{\Omega}}$	Designing a Qualitative Study 1	3 credits	$\frac{\text{RES-832}^{\Omega}}{\text{RES-832}^{\Omega}}$	Foundations of Research Design	3 credits
RES-843 $^{\Omega}$	Designing a Qualitative Study 2	3 credits		2	2 11.
PCE-804	Leadership and Social Justice	3 credits	$\underline{\text{PCE-806}^{\Omega}}$	Clinical Supervision	3 credits
PCE-834	Special Topics in Counseling	3 credits	$\underline{\text{PCE-921}^{\Omega}}$	Advanced Internship II: Supervision	2 credits
PCE-922 <sup>Ω</sup>	Education and Supervision Advanced Internship III	2 credits	PCE-805	Pedagogy in Counselor Education	3 credits
$\underline{\text{RSD-883}^{\Omega}}$	Residency: The Qualitative	3 credits	$\underline{\text{PCE-920}^{\Omega}}$	Advanced Internship I: Teaching	2 credits
PCE-955 <sup>Ω</sup>	Dissertation Dissertation I	3 credits	$\underline{\text{RES-842}^{\Omega}}$	Designing a Quantitative Study	3 credits
$\frac{\text{RES-873}^{\Omega}}{\text{RES-873}^{\Omega}}$	Qualitative Data Collection and Management	3 credits	$\underline{\text{RES-844}^{\Omega}}$	Designing a Quantitative Study	3 credits
PCE-960 <sup>Ω</sup>	Dissertation II	3 credits	PCE-804	Leadership and Social Justice	3 credits
RES-883 $^{\Omega}$	Qualitative Data Analysis,	3 credits	PCE-834	Special Topics in Counseling	3 credits
	Results and Findings Dissertation III	3 credits		Education and Supervision	2 credits
<u>PCE-965</u> <sup>Ω</sup>		65 credits	PCE-922 <sup>Ω</sup>	Advanced Internship III Residency: The Quantitative	2 credits 3 credits
	losophy in Counselor Education on (Qualitative Research)	03 credits	$\underline{\text{RSD-884}^{\Omega}}$	Dissertation	3 Cledits
-	ners who did not complete their disse	rtation in	$\underline{\text{PCE-955}}^{\Omega}$	Dissertation I	3 credits
PCE-965 mus complete their	t take one or more of the following in r dissertation	order to	$\underline{\text{RES-874}^{\Omega}}$	Quantitative Data Collection and Statistical Mechanics	3 credits
$\frac{1}{\text{PCE-966}^{\Omega}}$	Research Continuation I	3 credits	<u>PCE-960</u> Ω	Dissertation II	3 credits
PCE-967 $^{\Omega}$	Research Continuation II	3 credits	$\underline{\text{RES-884}^{\Omega}}$	Quantitative Data Analysis,	3 credits
$\overline{\text{PCE-968}^{\Omega}}$	Research Continuation III	3 credits	PCE-965 <sup>Ω</sup>	Results, and Findings Dissertation III	3 credits
PCE-969 $^{\Omega}$	Research Continuation IV	3 credits		osophy in Counselor Education	65 credits
$PCE-970^{\Omega}$	Research Continuation V	3 credits		on (Quantitative Research)	
$\underline{\text{PCE-971}^{\Omega}}$	Research Continuation VI	3 credits	$\underline{\text{PCE-966}^{\Omega}}$	Research Continuation I	3 credits
$\underline{PCE-972^{\Omega}}$	Research Continuation VII	3 credits	$\underline{\text{PCE-967}^{\Omega}}$	Research Continuation II	3 credits
$\underline{\text{PCE-973}^{\Omega}}$	Research Continuation VIII	3 credits	$\underline{\text{PCE-968}^{\Omega}}$	Research Continuation III	3 credits
$\underline{\text{PCE-974}^{\Omega}}$	Research Continuation IX	3 credits	$\underline{\text{PCE-969}^{\Omega}}$	Research Continuation IV	3 credits
Doctor of Pl	hilosophy in Counselor Educ	ation and	$\underline{\text{PCE-970}^{\Omega}}$	Research Continuation V	3 credits
	(Quantitative Research)	with and	$\underline{\text{PCE-971}^{\Omega}}$	Research Continuation VI	3 credits
-	egree in Counselor Education and Sup	pervision is	$\underline{\text{PCE-972}^{\Omega}}$	Research Continuation VII	3 credits
	pare graduates to work as counselor e		$\underline{\text{PCE-973}^{\Omega}}$	Research Continuation VIII	3 credits
supervisors, res	earchers, and practitioners in academ	ic and	$\underline{\text{PCE-974}^{\Omega}}$	Research Continuation IX	3 credits

clinical settings. The standards for this program are intended to accommodate the unique strengths of students seeking to enhance their leadership and counseling skills. Students will be able to

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# **Minors**

# **Minor in African American Experiences**

The minor in African American experiences allows students to gain a deeper understanding of the African American influence within the U.S. and global communities, including its rich history, diverse voices and important events. Graduates will learn how cultural differences unify around the core Christian doctrines and common practices of faith.

### **Minor Requirements**

ENG-355	Multicultural Literature	4 credits
HIS-327	Community History	4 credits
<u>SOC-436</u>	Stratification and Inequality in a Diverse Society	4 credits
<u>HTH-380</u>	Kingdom Diversity	4 credits

Minor in African American Experiences

16 credits

#### Minor in Behavioral Health Sciences

The new minor in Behavioral Health focuses on a core of useful and requisite knowledge to successfully work within the behavioral health field. The five courses for this minor introduce students to the behavioral health field by teaching them concepts related to ethics, cultural diversity, and basic clinical skills to apply as behavioral health paraprofessionals. It will help fulfill the great demand for entry-level professionals to work as part of an interdisciplinary team in behavioral health. This certificate will offer the necessary education to prepare students seeking employment as behavioral health paraprofessionals. This certificate does not lead to licensure or certification.

#### **Minor Requirements**

PCN-107	Introduction to Counseling	4 credits
	Theories	
BHS-240	Group Dynamics and Process	4 credits
BHS-320	Ethics of Behavioral Health	4 credits
	Science	
BHS-330	Culture and Social Diversity in	4 credits
	Behavioral Health	
BHS-350	Report Writing, Research, and	4 credits
	Information Literacy in	
	Behavioral Health	

Minor in Behavioral Health Sciences

Minor in Child and Family Services

20 credits

# **Minor in Child and Family Services**

Students in this minor will gain a broader knowledge in the areas of social welfare, child and adolescent development, family dynamics, and counseling. Students interested in working in social services would benefit from these additional courses.

# **Minor Requirements**

SWK-170	Introduction to Social Welfare	4 credits
PCN-107	Introduction to Counseling	4 credits
	Theories	
PSY-355	Child and Adolescent Psychology	4 credits
BHS-430	Introduction to Family Dynamics	4 credits
Minor in Ch	aild and Family Services	16 credits

#### **Minor in Communication**

The minor in Communication is designed to develop a student's knowledge base of the theory of communication as well as how to speak, write, and think critically. The minor in Communication prepares students for positions in business, government, education, science, and healthcare. Communication is essential for the development of the whole person—socially, culturally, and professionally.

#### **Minor Requirements**

COM-100	Fundamentals of Communications	4 credits
COM-222	<b>Small Group Communications</b>	4 credits
COM-312	Conflict and Negotiations	4 credits
COM-451	Relational Communication	4 credits

Minor in Communication

16 credits

# **Minor in Counseling**

The minor in Counseling is designed to develop students' understanding of counseling theories and how they relate to working in the human relations field of behavioral health. This minor prepares students with applicable skills in interpreting diagnoses, writing reports, and working on integrative health teams. It prepares students for positions in behavioral health settings such as community and private organizations. The minor in Counseling will also coordinate well with the theoretical backgrounds of psychology, sociology, communications, and ministry. The interplay of theory and practical skills will allow students to market their skills to a wider audience of employers. This minor does not lead to licensure.

# **Minor Requirements**

PCN-100	Foundations of Addiction and	4 credits
	Substance Use Disorders	
PCN-107	Introduction to Counseling	4 credits
	Theories	
PCN-255	Case Management and Crisis	4 credits
	Skills for Addiction and Substance	
PCN-404 <sup>∆</sup>	Prof, Legal & Ethical Issues-	4 credits
	Addiction & Substance Use	
	Disorder	
Minor in Counseling		16 credits

**Minor in Criminal Justice** 

The minor in criminal justice provides knowledge and skills across a broad range of real-world applications in criminal justice. Students acquire detailed knowledge of criminality and the justice system's response to criminal behavior. They are prepared for careers in local, state, and federal law enforcement such as police, sheriff, probation, and correctional officers.

### **Minor Requirements**

JUS-212	Criminal Behavior and	4 credits
	Victimology	
JUS-320	Police Function	4 credits
JUS-430	Criminal Law	4 credits
<u>JUS-441</u>	Criminal Procedure and Public Policy	4 credits

Minor in Criminal Justice

16 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Minor in Forensic Psychology

The minor in forensic psychology focuses on the psychological experiences of victims and sheds insight into abnormal human behavior. Students are introduced to an understanding of the criminal justice system and exposed to crime-scene processing. The minor program better prepares students to work with people who need assistance coping with the aftereffects of a violent crime. More often than not, police officers are the first point of contact for these individuals. The program is designed for individuals seeking a career as a correctional professional, social worker, homeland security professional, community mental health professional, or private-sector worker.

#### **Minor Requirements**

JUS-212	Criminal Behavior and	4 credits
PSY-310	Victimology Introduction to Forensic Psychology	4 credits
JUS-430	Criminal Law	4 credits
PSY-470	Abnormal Psychology	4 credits
BHS-440	Understanding Trauma	4 credits
Minon in Ec	manaia Davahalaari	20 credits

Minor in Forensic Psychology

# Minor in Hispanic Experiences

The new minor in Hispanic experiences provides student with a deeper understanding of the Latinx influence within the U.S. and global communities, including its rich traditions, diverse voices and important events. Graduates will learn how cultural differences unify around the core Christian doctrines and common practices of faith.

#### **Minor Requirements**

ENG-355	Multicultural Literature	4 credits
HIS-466	Southwest Borderlands	4 credits
SOC-436	Stratification and Inequality in a	4 credits
<u>HTH-380</u>	Diverse Society Kingdom Diversity	4 credits

16 credits Minor in Hispanic Experiences

# **Minor in History**

The Minor in History encourages students to develop cultural and critical thinking competencies which orient them toward a better understanding of the global economy.

This program provides graduates with foundational knowledge of where society has come from and how best to interact with a wide variety of people from all walks of life..

# **Minor Requirements**

Minor in His	story	16 credits
HIS-426	20th Century Europe	4 credits
<u>HIS-380</u>	Renaissance and Reformation	4 credits
HIS-350	Survey of Asian Empires	4 credits
HIS-325	Ancient Mediterranean History	4 credits

### **Minor in Human Services Case Management**

The minor in Human Services Case Management provides a well-rounded knowledge in understanding trauma-informed care, case management process, coordination of care, and working on

integrative human services teams and other helping professions. This minor coordinates well with theoretical backgrounds in psychology, sociology, counseling, and ministry.

# **Minor Requirements**

SOC-372	Introduction to Social Work	4 credits
BHS-350	Report Writing, Research, and Information Literacy in Behavioral Health	4 credits
BHS-470	Introduction to Trauma-Informed Care	4 credits
SOC-445	Case Management	4 credits
Minor in Human Services Case Management		16 credits

#### Minor in Literature

The minor in Literature broadens students' exposure to, and deepens their understanding and appreciation of, essential works of fiction, poetry, and drama. The works selected represent every important period and genre in the history of British and American literature, from Anglo-Saxon poetry to Existentialist drama. The authors studied in this program include the mainstays of the literary canon such as Chaucer, Shakespeare, Pope, Wordsworth, Hawthorne, Whitman, Dickinson, James, and Eliot, as well as writers whose works exemplify the challenges faced by women, Native Americans, African Americans, and other overlooked groups.

# **Minor Requirements**

ENG-357	Foundational Texts of British	4 credits
	Literature	
ENG-359	Transatlantic Literature	4 credits
ENG-360	American Encounter Narratives	4 credits
ENG-451	Shakespeare and the History of	4 credits
	Drama	
		1 / 11

16 credits Minor in Literature

# Minor in Mathematics

The minor in mathematics teaches skills in mathematical modeling, including many applications in computer science, engineering, and business. It helps students prepare for highdemand careers in STEM (science, technology, engineering, and math), statistical modeling, and quantitative visualization and analytics.

# **Minor Requirements**

MAT-252	Calculus and Analytic Geometry	4 credits
MAT-253	Calculus and Analytic Geometry	4 credits
	II	
MAT-215	Discrete Mathematics	4 credits
MAT-345	Applied Linear Algebra	4 credits
<u>MAT-470</u>	Mathematical Modeling	4 credits
Minor in Mathematicse		20 credits

# Minor in Performance and Sport Psychology

The Minor in Performance and Sport Psychology provides individuals interested in sport, performing arts, health and fitness, or mental health fields the opportunity to develop their skills and abilities to improve the performance and lives of those with whom they work. The field of sport and performance psychology is concerned with the psychological factors that influence human

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

performance. It involves improving the lives of others through assessment and intervention strategies that enhance performance and personal growth.

# **Minor Requirements**

PSY-366	Introduction to Sport and Exercise	4 credits
	Psychology	
PSY-368	Social Aspects of	4 credits
	Sport/Psychosocial Aspects of	
	Sport	
PSY-410	Psychology of Coaching	4 credits
PSY-425	Leadership and Team Building	4 credits
Minor in Performance and Sport Psychology		16 credits

#### Minor in Pre-Law

The Pre-Law Minor provides students with exposure to major concepts of the law, which include the philosophical underpinnings of the western legal tradition, civil law, criminal law and the practice of law. This foundation of legal thought is an ideal preparation for law school or a legal career path for students that desire to get a head start in their understanding of the framework of law.

### **Minor Requirements**

<b>GOV-357</b>	Philosophy of Law	4 credits
GOV-360	Civil Law	4 credits
JUS-430	Criminal Law	4 credits
<u>GOV-455</u>	Practice of Law	4 credits
Minor in Pro	e-Law	16 credits

# **Minor in Professional Writing**

The new minor in Professional Writing focuses on preparing learners to develop skills in writing and editing that can be applied to a broad range of professional contexts and careers. The courses for this minor provide students with important practice, writing in a variety of professional genres, which will prepare them to adapt their practice to other contexts. Skills learned can include, but are not limited to, writing for public relations, writing and presentation for news stories in various forms of media, writing technical documents, and communicating scientific ideas to laypeople.

#### **Minor Pre-requisites**

ENIC 105

Eligiish Composition i	4 Cicuits
English Composition II	4 credits
Introduction to Professional Writing	4 credits
rements	
Reporting and Newswriting	4 credits
Multi-Media Journalism in the 21st Century	4 credits
Communicating Scientific Ideas to Popular Audiences	4 credits
Multimedia Feature Writing	4 credits
	English Composition II Introduction to Professional Writing rements Reporting and Newswriting Multi-Media Journalism in the 21st Century Communicating Scientific Ideas to Popular Audiences

English Composition I

# Minor in Psychology

The minor in Psychology introduces students to the study of human behavior of all ages (children through elderly adults). The program examines how personality and cognitive thinking are formed, developed, and influenced through each person's social and cultural environment. Since behavior and emotional development are often affected by both cognitive thinking and the environment, students will examine the roles of science and research in understanding and enhancing mental health.

# **Minor Requirements**

PSY-102	General Psychology	4 credits
<u>PSY-255</u> <sup>∆</sup>	Personality Psychology	4 credits
PSY-352	Health Psychology	4 credits
PSY-362	Social Psychology and Cultural Applications	4 credits
<u>PSY-470</u> <sup>∆</sup>	Abnormal Psychology	4 credits
Minor in Psychology		20 credits

16 credits

### Minor in Public Administration

The minor in Public Administration enhances students' understanding of how various factions of government and the private sector interact. Students in a business, health care, or STEM-related field would benefit, especially if there is an interest in a career tied to the public sector. This minor helps students prepare for career opportunities in the nonprofit and government sectors.

#### Minor Requirements

GOV-140	American Government and Politics	4 credits
GOV-351	Public Administration	4 credits
GOV-366	State and Local Government	4 credits
GOV-376	Municipal Government and Administration	4 credits
	Aummisuanon	

# Minor in Spanish

Minor in Public Administration

The minor in Spanish is designed to develop at least intermediate level fluency in listening, speaking, reading, and writing Spanish, and to provide a general introduction to Spanish culture and literature in order to enhance cross-cultural sensibilities and expand opportunities in the job market.

#### **Minor Requirements**

SPA-214	Intermediate Spanish I	4 credits
SPA-224	Intermediate Spanish II	4 credits
SPA-309	Spanish Conversation	4 credits
<u>SPA-310</u> <sup>∆</sup>	Spanish Composition and Grammar	4 credits
SPA-320	Contemporary Issues	4 credits
<u>SPA-341</u>	Introduction to Literature in Spanish	4 credits

Minor in Spanish

24 credits

16 credits

4 credits

Minor in Professional Writing

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# The College of Nursing and Health Care Professions

# College Description

The College of Nursing and Health Care Professions has over 40-years of preparing students to fill evolving health care roles as highly qualified professionals educated in direct care, management, health education, and administrative disciplines.

Grand Canyon University's (GCU) in-class, online, and hybrid learning environments advance critical thinking, professionalism, accountability, and ethical decision-making by applying science, health and nursing theories, along with a foundation of Christian Values.

# College Mission

The mission of the College of Nursing and Health Care Professions is to prepare competent, compassionate professionals empowered to promote health, wellness, safety and quality care for all. This mission is supported by academically rigorous programs built upon a strong foundation of liberal arts education and evidence-based practice that reflect missional, Christcentered Christian values and a global worldview — catalysts for human flourishing.

Graduates are prepared to respond to ever-changing needs by implementing both innovative thinking and skills to address complex issues within healthcare. Our commitment to preparing the next generation of transformative, servant leaders, exercising their vocational calling, is evident in the diversity of healthcare offerings and an evolving curriculum that connects theory to the real world.

# College Features

The College of Nursing and Health Care Professions offers undergraduate and graduate nursing, healthcare, and health science degree programs that meet specific students' career and academic needs. College faculty members hold master's degrees and/or doctoral degrees.

Recognition of the spiritual needs of all persons is an integral part of caring for one's self and others therefore, the spiritual dimension is integrated into courses throughout the undergraduate and graduate curriculum.

# College Philosophy

The College of Nursing and Health Care Professions curriculum is designed to facilitate the students' abilities to creatively respond to continuously changing health care systems throughout the world. Educational experiences are planned to meet the needs of and to empower both students and clients. Clinical judgement, communication, compassionate care, ethics, evidence-based practice, health policy, social determinants of health, caring for diverse populations without consideration of their gender, age, color, creed, lifestyle, or cultural background are emphasized. This is achieved through the application of liberal arts constructs, science, health and nursing theories, and the values of the Christian faith of the faculty in relation to the concepts of health, environment, person, and nursing.

#### **Nursing**

Grand Canyon University founded its College of Nursing in 1982, and the College of Nursing and Health Care Professions continues to educate nurses through rigorous academic and

clinical preparation in a tradition of values-based Christian education. The Bachelor of Science in Nursing (BSN) degree is offered both as pre-licensure (Fast and Accelerated Tracks) and degree completion programs for already licensed and registered nurses. Both the Fast and Accelerated Tracks of the pre-licensure BSN program allows students who have met all requirements for secondary admission the opportunity to complete a degree in approximately 16 months. Building on the baccalaureate degree, the College offers a Master of Science in Nursing (MSN) featuring nine areas of focus and a dual degree: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology, , Family Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner, Health Care Informatics, Nursing Education, Nursing Leadership in Health Care Systems, Public Health Nursing, Health Care Quality and Patient Safety, and a Master of Business Administration/Master of Science in Nursing with an Emphasis in Nursing Leadership in Health Care Systems. The Doctor of Nursing Practice (DNP) and the DNP with Educational Leadership Emphasis program offers students the option to continue their education at GCU and expand upon their practice using application of evidence to improve population health outcomes.

In concert with the mission of the University, the College of Nursing and Health Care Professions faculty affirms the belief in educating nurses and healthcare professionals within a dedicated and supportive community of Christian values.

#### Nursing

Baccalaureate nursing practice incorporates the roles of assessing, critical thinking, communicating, providing care, teaching, and leading. The caring professional approach includes the values of autonomy, altruism, human dignity, integrity and social justice with unconditional regard for all people. Nursing practice includes health promotion, disease prevention, early detection of health deviations, prompt and adequate treatment of the human response to acute and chronic illness, and compassionate care for those experiencing death.

Masters nursing practice expands upon baccalaureate nursing concepts to include primary care practice knowledge and advanced leadership with a focus on research and quality assurance, spirituality, diversity, critical thinking, caring, and learning. The advanced professional nursing role relies on best practices and evidence-based research with a focus on evaluation of health outcomes and process.

Doctoral nursing practice builds on the Masters to incorporate development of needed advanced competencies for increasingly complex practice, faculty, and leadership roles; enhanced knowledge to improve nursing practice and patient outcomes; enhanced leadership skills to strengthen practice and health care delivery; and provision of an advanced educational credential for

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

those who require advanced practice knowledge but do not need or desire a degree with a research focus (e.g. practice faculty).

#### **Nursing Education**

Nursing education is theory driven. Theories are derived from the humanities, sciences, and biblical concepts. Nursing knowledge, theory, research, and health promotion are influenced by spiritual perspectives, ethical, legal, political, historical, and social influences. The faculty values excellence in teaching with an individual focus on the learner. Teaching includes a variety of methods, learning modalities, and practice situations. Faculty provides opportunities for students to give comprehensive care to diverse client populations.

#### Learning

Learning environment is created and arranged to meet individual learning outcomes that are consistent with College of Nursing and Health Care Professions program outcomes. The College of Nursing and Health Care Professions supports life-long learning endeavors and fosters an appreciation of diversity among traditional and nontraditional learners. Students are educated to provide, direct and evaluate client-centered care while focusing on the person as an integrated whole

#### **Health Care Professions**

#### **Public Health**

The Master of Public Health degree is the most widely recognized professional credential for leadership positions in public health. The public health program is designed to draw on knowledge and skills from a variety of disciplines to define, assess, and ultimately resolve public health problems. Students study theories, concepts, and principles of public health and their application.

The curriculum, developed around national public health curriculum standards, uses a multidisciplinary approach that emphasizes psychological, behavioral, and social factors influencing population-based health disparities; principles of epidemiology and biostatistics; environmental public health concepts; public health administration systems and processes; and economic factors. It prepares students for an expanding range of professional opportunities and roles in public health and medicine. The Master of Public Health program culminates with a practicum and capstone project that students are able to design to best fit their area of specific interest.

The professional standards outlined by the Council on Education for Public Health (CEPH) were utilized as the foundation of this program. The following core areas of knowledge are included in the Master of Public Health curriculum:

- Biostatistics Collection, storage, retrieval, analysis, and interpretation of health data; design and analysis of healthrelated surveys and experiments; and concepts and practice of statistical data analysis.
- Epidemiology Distributions and determinants of disease, disabilities and death in human populations; the characteristics and dynamics of human populations; and the natural history of disease and the biologic basis of health.
- Environmental health sciences Environmental factors including biological, physical, and chemical factors that affect the health of a community.
- Health services administration/policy Planning, organization, administration, management, evaluation, and policy analysis of health and public health programs.

 Social and behavioral sciences – Concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems.

### **Health Care Administration**

Health care is the largest industry in the United States, and the second largest employer, providing more than 11 million jobs. The sector continues to grow, and faster than most other industries. There are many opportunities, requiring specialized skills sets, such as implementing policy and procedure, hiring and supervising staff, financial management, and technology management. A degree in health care administration can also be easily transferred into other industries.

The Bachelor of Science in Health Care Administration program is designed to prepare graduates for entry-level management positions in numerous health care settings such as hospitals, clinics, medical groups, long-term care facilities, physician offices, insurance companies, and state and federal organizations. The central focus of the program is to provide a comprehensive base in health-related business knowledge and concepts, with an emphasis on health care finance, the U.S. health delivery system and policy, strategic planning, health information technology, human resources, organization behavior, and legal/ethical issues in medicine. The program prepares students to excel in decisionmaking skills, critical thinking, and group communications. Courses offered are in traditional and online forums. Students in the Bachelor of Science in Health Care Administration program are excellent candidates for the Master of Science in Health Care Administration, Master of Public Health, and Master of Business Administration programs.

The Master of Science in Health Care Administration program is designed to prepare graduates for mid- to senior-level management positions in a variety of health care organizations. As the health care industry continues to grow, it is also becoming more competitive, and many employers prefer advanced degrees. The primary goal of this program is to develop the skills, knowledge, and experience for individuals interested in being innovative change agents and leaders within the health care industry. Individuals may be employed in a clinical health care role, with the desire to move into an administrative or management role, or have a desire to move into the health care industry in a nonclinical capacity.

The following core areas of knowledge are included in the Master of Science in Health Care Administration curriculum:

- Leadership Explores business leadership models and theory, with special attention to application of these models within organizations.
- Organizational Behavior Focuses on organizational structure and effectiveness, applying models for collaboration and teamwork, and the analysis of the impact of change.
- Financial and Analytical Issues Focuses on specific financial issues in health care, the use of appropriate analytics to measure performance and budget. Evaluates economic variables that influence market performance and outcomes.
- Human Resources Focuses on managerial communications. Areas include conflict management, negotiation, mediation, and coaching.
- Marketing and Communications Explores internal, external, and consumer communications.

### **Health Care Informatics**

Health care informatics is a rapidly emerging discipline. The Master of Science in Health Care Informatics program is

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

designed to prepare students for innovative leadership positions integrating technology with clinical operations, data management, decision support systems, and quality assessment. Graduates will be prepared for roles such as project manager, researcher, systems analyst, and mid- to senior-level management positions.

The following core areas of knowledge are included in the Master of Science in Health Care Informatics curriculum:

- Concepts in Health Care Informatics Focuses on history, application, and future need in this specialty. Includes processes that affect evidence-based medicine, administrative and clinical support, security issues, and the growing use of electronic health records.
- Health Care Information Systems Examines the use of information technology in health care, with emphasis on changing roles and challenges with implementation and communication.
- Health Care Data Management Focuses on relational database management, hardware technology, and data communication protocols applied when designing and implementing networks and systems.
- Health Care Research Methods and Analysis Examines the application of research in the delivery of health care. Focuses on strategies to synthesize and apply data.

#### **Health Sciences**

The Bachelor of Science in Health Sciences program is designed for health care professionals who graduated from accredited certificate and/or associate degree programs who wish to acquire baccalaureate level competencies in health sciences theory and in health care professional issues. Allied health professionals are involved with all aspects of health care delivery and are integral members of the collaborative, health care team. This program provides a foundation for introducing essentials of baccalaureate education, emphasizing the unique role and scope of allied health professions, emphasizing an interdisciplinary and multifaceted approach to care in order to maximize their ability to meet the specific medical needs of the patient.

# Nursing: Undergraduate Programs

# Bachelor of Science in Nursing (BSN) Pre-Licensure (Fast and Accelerated Tracks)

Grand Canyon University's Bachelor of Science in Nursing (BSN) Pre-Licensure degree prepares the graduate to practice as a registered nurse generalist for clients across the life span as a member of the health care team in a variety of settings. The BSN program prepares students to provide evidence-based, holistic, safe, quality care for culturally and spiritually diverse individuals, families, communities, and populations. Program emphasis includes clinical nursing practice, health promotion and maintenance, hands-on experiences across the continuum of care, the use of innovative technologies and preparation for assuming leadership roles as a registered nurse. The Bachelor of Science in Nursing Pre-Licensure program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials: Core Competencies for Professional Nursing Education (AACN, 2021).

Degree Requirements	Degree	Requirements
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Total General Education	39 credits
Total Program Prerequisites	24 credits
Total Nursing Pre-Licensure Major	60 credits
Total Bachelor of Science in Nursing (BSN) Pre-Licensure	123 credits

#### **Required General Education**

$\underline{\text{UNV-}103^{\Omega}}$	University Success	4 credits
ENG-105 <sup>∆</sup>	English Composition I	4 credits
MAT-144	College Mathematics	4 credits
BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I Lab	1 credit
<u>ENG-106</u> <sup>∆</sup>	English Composition II	4 credits
PSY-102	General Psychology	4 credits
MAT-274	Probability and Statistics	4 credits
<u>CWV-101<sup>Ω</sup></u>	Christian Worldview	4 credits
SOC-102	Principles of Sociology	4 credits
<u>NSG-310<sup>Ω</sup></u>	Introduction to Professional Nursing	3 credits
Total Require	ed General Education	39 credits

### **General Education Program Major Prerequisites**

CHM-101	Introduction to General, Organic,	3 credits
	and Biochemistry	
CHM-101L	Introduction to General, Organic,	1 credit
	and Biochemistry Lab	
BIO-202	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II	1 credit
	Lab	
BIO-205	Microbiology	3 credits
BIO-205L	Microbiology Lab	1 credit
BIO-322	Applied Pathophysiology	4 credits
BIO-319	Applied Nutrition	4 credits
PSY-357	Lifespan Development	4 credits
Total Program	m Prerequisites	24 credits

# Nursing Pre-Licensure Major

e-Licensure Major	
Foundations of Nursing	4 credits
Foundations of Nursing Clinical	2 credits
Health Assessment	4 credits
Introduction to Pharmacology	3 credits
Adult Health Nursing I	5 credits
Adult Health Nursing I Clinical	3 credits
Behavioral Health Nursing	3 credits
Behavioral Health Nursing	1 credit
Clinical	
Research and Evidence-Based Practice	3 credits
Adult Health Nursing II	5 credits
	Foundations of Nursing Foundations of Nursing Clinical  Health Assessment Introduction to Pharmacology Adult Health Nursing I Adult Health Nursing I Clinical  Behavioral Health Nursing Behavioral Health Nursing Clinical Research and Evidence-Based Practice

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

NSG-	Adult Health Nursing Clinical II	2 credits	=	eral Education	
430C <sup>Ω</sup>	Nursing Care of the Childbearing	3 credits		University Success	4 credits
NSG-432**	Family	3 credits	2210 100	English Composition I	4 credits
NSG-	Nursing Care of the Childbearing	1 credit	11111111	College Mathematics	4 credits
432C <sup>Ω</sup>	Family Clinical Nursing Care of the Childrearing	3 credits		Human Anatomy and Physiology I	3 credits
$\underline{\text{NSG-434}}^{\Omega}$	Family	3 credits		Human Anatomy and Physiology I Lab	1 credit
$\frac{\text{NSG-}}{434\text{C}^{\Omega}}$	Nursing Care of the Childrearing Family Clinical	1 credit		English Composition II	4 credits
	Leadership, Ethics, and Policy in	3 credits	PSY-102	General Psychology	4 credits
	Health Care		MAT-274	Probability and Statistics	4 credits
$\underline{\text{NSG-440}}^{\Omega}$	Population Health	3 credits	$\underline{\text{CWV-}101^{\Omega}}$	Christian Worldview	4 credits
$\frac{\text{NSG-}}{440\text{C}^{\Omega}}$	Population Health Clinical	1 credit	SOC-102	Principles of Sociology	4 credits
	Transition to Practice	4 credits	1100 310	Introduction to Professional Nursing	3 credits
NSG-	Transition to Practice Group or	3 credits		d General Education	39 credits
<u>444C</u> Ω	Residency Clinical	3 credits	General Educ	ation Program Major Prerequisites	
NSG-448 <sup>Ω</sup>	Evidence-Based Project Capstone	60 credits		Introduction to General, Organic,	3 credits
Major	Science in Nursing Pre-Licensure	oo credits		and Biochemistry Introduction to General, Organic,	1 aradit
-	program at GCU's Nevada location req	uires	CITITITIOIL	and Biochemistry Lab	1 credit
	completion of the following Nevada-spe			Human Anatomy and Physiology II	3 credits
	t. This course is a curriculum requirem ard of Nursing approved pre-licensure a		DIO SOL	Human Anatomy and Physiology II	1 credit
programs o	perating/located within the state of Nev	vada. This		Lab Microbiology	3 credits
	be applied to GCU's Global Awarenes. taken in place of SOC-102. Students in			Microbiology Lab	1 credit
	e ABSN program at GCU's Nevada loc		<u> </u>	Applied Pathophysiology	4 credits
plan accora	lingly:		<u> </u>	Applied Nutrition	4 credits
POS-305	Nevada and U.S.  Constitution	4 credits		Lifespan Development	4 credits
Rachalar	of Science in Nursing (BSN) P	mo	Total Program		24 credits
	e (Colorado Accelerated Track)	16-	-	Licensure Major	
	· ·	Nyagin a	NSG-300 $^{\Omega}$	Foundations of Nursing	4 credits
	on University's Bachelor of Science in Licensure degree prepares the graduate		<u>NSG-300CA<sup>Ω</sup></u>	· ·	2 credits
a registered	nurse generalist for clients across the li he health care team in a variety of settii	fe span as a		Clinical	4 a 1:4
	pares students to provide evidence-base		$\frac{\text{NSG-316}^{\Omega}}{1}$	Health Assessment	4 credits
safe, quality	care for culturally and spiritually diver	se individuals,	$\underline{\text{NSG-318}}^{\Omega}$	Introduction to Pharmacology	3 credits
	nmunities, and populations. Program en		$\underline{\text{NSG-320}}^{\Omega}$	Adult Health Nursing I	5 credits
maintenance	nical nursing practice, health promotion to, hands-on experiences across the conti	inuum of care,	NSG-320CA <sup>Ω</sup>	Adult Health Nursing I Clinical	4 credits
	novative technologies and preparation		$NSG-322^{\Omega}$	Behavioral Health Nursing	3 credits
leadership roles as a registered nurse. The Bachelor of Science in Nursing Pre-Licensure program is designed to meet current		NSG-322CA <sup>Ω</sup>		1 credit	
	standards including but not limited to: of Colleges of Nursing (AACN): The I		$\overline{\text{NSG-324A}^{\Omega}}$	Clinical Research and Evidence-Based	2 credits
	etencies for Professional Nursing Educa			Practice	5 1:4
2021).	•		$\frac{\text{NSG-430}^{\Omega}}{\text{NSG-430}}$	Adult Health Nursing II	5 credits
Degree Req	uirements		NSG-430CA <sup>Ω</sup>	Adult Health Nursing Clinical II	2 credits
Total Gene	eral Education	39 credits	NSG-432 $^{\Omega}$	Nursing Care of the	3 credits
Total Drog	ram Praraguisitas	24 credits		Childbearing Family	

24 credits

60 credits

123 credits

Pre-Licensure

**Total Program Prerequisites** 

Total Nursing Pre-Licensure Major

Total Bachelor of Science in Nursing (BSN)

1 credit

3 credits

Childbearing Family

Nursing Care of the

Nursing Care of the

Childrearing Family

Childbearing Family Clinical

 $NSG-432CA^{\Omega}$ 

 $\overline{\text{NSG-434}}^{\Omega}$ 

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

NSG-434CA <sup>Ω</sup>	Nursing Care of the	1 credit
	Childrearing Family Clinical	
NSG-436 $^{\Omega}$	Leadership, Ethics, and Policy	3 credits
	in Health Care	
$\overline{\text{NSG-440}}^{\Omega}$	Population Health	3 credits
$\underline{\text{NSG-440CA}}^{\Omega}$	Population Health Clinical	1 credit
$\underline{\text{NSG-444A}}^{\Omega}$	Transition to Practice	3 credits
NSG-444CA <sup>Ω</sup>	Transition to Practice Group or	4 credits
TIBO TITOLI	Residency Clinical	
NSG-448 $^{\Omega}$	Evidence-Based Project	3 credits
	Capstone	
Bachelor of Sci	ence in Nursing Pre-Licensure	60 credits

Major

# **Bachelor of Science in Nursing (RN-BSN)**

The RN to BSN program is designed for registered nurses with an associate's degree or diploma in nursing. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner RN, and to maximize strengths that the working RN possesses. A bridge course facilitates the transition of the working RN into the baccalaureate program. Courses are taught by experts in their respective fields who share knowledge and experience in areas of clinical patient care, health care management, and professional nursing practice and leadership. Opportunities are provided to apply concepts, theories, and research in the RN's clinical practice. Both the science and art of nursing are integral components of the program and are woven throughout. Graduates of the program are prepared to become leaders in the nursing profession.

### **Program Description**

The Registered Nurse to Bachelor of Science in Nursing (RN-BSN) program prepares registered nurses who have an associate degree or diploma in nursing to function as professionals within the health care team by providing holistic, safe, and quality care for individuals, families, and communities in diverse settings. The program includes an emphasis on spirituality, communication, health promotion, and disease prevention throughout the life span, which provides students the opportunity to achieve baccalaureate competencies.

The Registered Nurse to Bachelor of Science in Nursing program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Baccalaureate Education for Professional Nursing Practice (AACN, 2008)..

RN to BSN students who want to transition into GCU's Master of Science in Nursing (MSN) degree programs may complete two graduate level courses to meet their upper division elective credits for degree completion. Please refer to the <a href="College of Nursing and Health Care Professions website">College of Nursing and Health Care Professions website</a> for additional information.

# Degree Requirements

Total RN to BSN Major	33 credits
Total Other Transfer, Elective, or Certification Credits	87 credits
Total Registered Nurse to Bachelor of Science in Nursing (RN-BSN)	120 credits

# Registered Nurse to Bachelor of Science in Nursing (RN-BSN) Major

$\underline{\text{NRS-415}}^{\Omega}$	Nursing Leadership and Interprofessional Collaboration	3 credits
NRS-420	Health Assessment	3 credits
NRS-425	Health Promotion and Population Health	3 credits
HLT-362V	Applied Statistics for Health Care Professionals	3 credits
NRS-445	Nursing Research and Evidence Based Practice	3 credits
<u>PHI-413V</u>	Ethical and Spiritual Decision Making in Health Care	3 credits
NRS-450	Nursing Informatics	3 credits
NRS-455	Pathophysiology	3 credits
NRS-460	Complex Disease Management	3 credits
<u>NRS-465</u>	Applied Evidence-Based Project and Practicum	6 credits

RN to BSN Major

33 credits

# Bridge to Master of Science in Nursing

The Bridge to Master of Science in Nursing program is designed for registered nurses with a bachelor's degree in health sciences or other related fields. The program is intended to meet the needs of adult learners who already possess a bachelor's degree and an RN license who desire to pursue a graduate degree in nursing. Courses in the bridge program are a blending of RN to BSN core courses that are considered essential requisites to graduate study. Upon completion of bridge courses from the BSN core, students enter one of seven emphases offered for the Master of Science in Nursing or the Master of Business Administration and Master of Science in Nursing with an Emphasis in Nursing Leadership in Health Care Systems.

# Degree Requirements

$\underline{NRS-415}^{\Omega}$	Nursing Leadership and Interprofessional Collaboration	3 credits
NRS-420	Health Assessment	3 credits
NRS-425	Health Promotion and Population Health	3 credits
NRS-455	Pathophysiology	3 credits
<u>HLT-362V</u>	Applied Statistics for Health Care Professionals	3 credits
NRS-445	Nursing Research and Evidence Based Practice	3 credits
<u>NRS-465</u>	Applied Evidence-Based Project and Practicum	6 credits
Bridge to Ma	ster of Science in Nursing	24 credits

# Nursing: Graduate Programs

# Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology

The Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology program prepares experienced registered nurses to provide competent advanced practice nursing care in complex, acute, and critical care settings through an evidence-based program of study. Graduates are eligible for certification as Adult-Gerontology Acute Care Nurse

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Practitioners. The program combines courses in advanced health assessment, clinical diagnosis, procedural skill acquisition, and care management of adult and geriatric acute care patients, subacute patients, complex patients, and patients with exacerbations of chronic illness. Clinical experiences emphasize the physiological and psychosocial impact of acute and critical illness on the patient, family, and community, and prepare the Adult-Gerontology Acute Care Nurse Practitioner in the diagnosis and management of acute and life-threatening health problems. This program includes 675 hours of directly supervised clinical practice with qualified preceptors and two separate oncampus experiences. A post-master's certificate program is available to those nurses who already have a Master of Science in Nursing degree.

The Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

# **Degree Requirements**

Degree Requ	in cincins	
$\underline{\text{NUR-513}}^{\Omega}$	Introduction to Advanced Registered Nursing	4 credits
<u>NUR-514</u>	Organizational Leadership and Informatics	4 credits
$\underline{\text{NUR-550}}^{\Omega}$	Translational Research and Population Health Management	4 credits
$\underline{\text{NUR-590}^{\Omega}}$	Evidence-Based Practice Project	4 credits
<u>NUR-631</u>	Advanced Physiology and Pathophysiology	4 credits
NUR-635	Advanced Pharmacology	4 credits
<u>NUR-634</u>	Advanced Health Assessment and Diagnostic Reasoning With Skills Lab	4 credits
$\underline{\text{ANP-635}^{\Omega}}$	Health Promotion and Maintenance and On-Campus Experience I	4 credits
<u>ANP-</u> 635CE <sup>Ω</sup>	ANP-635 On-Campus Experience I	0 credit
$\underline{\text{ANP-650}^{\Omega}}$	Adult-Gerontology Acute Care I	7 credits
$\underline{\text{ANP-652}^{\Omega}}$	Adult-Gerontology Acute Care II	7 credits
$\underline{\text{ANP-654}^{\Omega}}$	Adult-Gerontology Acute Care III and On-Campus Experience II	7 credits
<u>ANP-</u> 654CE <sup>Ω</sup>	ANP-654 On-Campus Experience II	0 credit
	ience in Nursing: Acute Care Nurse with an Emphasis in Adult-	53 credits
Total Clinica	ıl Hours	675 hours

# **Master of Science in Nursing: Acute Care Nurse** Practitioner with an Emphasis in Adult-Gerontology effective 01/08/2026

The Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology program prepares experienced registered nurses for the advanced nurse practitioner role. Learners explore scope of practice, the role of evidencebased practice and research, and realistic ethical and legal issues. Graduates are eligible for certification as Adult-Gerontology Acute Care Nurse Practitioners. The program provides separate courses for advanced health assessment, advanced

pathophysiology, and advanced pharmacology. All clinical courses and experiences in the program emphasize clinical and diagnostic reasoning, and the diagnosis and management of diseases. Learners also practice procedural skill acquisition and prepare for prescribing pharmacologic and nonpharmacologic treatments and management of adult and geriatric acute care patients, subacute patients, complex patients, and patients with exacerbations of chronic illness. Clinical experiences emphasize the physiological and psychosocial impact of acute and chronic illness on the patient, family, and community, and prepare the Adult-Gerontology Acute Care Nurse Practitioner in the diagnosis and management of acute and life-threatening health problems. This program includes 750 hours of direct patient care in clinical practice with qualified preceptors and two separate oncampus experiences. A post-master's certificate program is available to those nurses who already have a Master of Science in Nursing degree.

The Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

#### **Degree Requirements**

Degree Requ	iii ciiiciias	
$\frac{\text{ANP-635A}}{\Omega}$	Health Promotion and Maintenance and On-Campus Experience I	4 credits
<u>ANP-</u> 635ACE <sup>Ω</sup>	On-Campus Experience II	0 credits
$\frac{\text{OSSACE}}{\text{ANP-650A}}$	Adult-Gerontology Acute Care I	7 credits
<u>ANP-652A</u> Ω	Adult-Gerontology Acute Care II	7 credits
$\frac{\text{ANP-654A}}{\Omega}$	Adult-Gerontology Acute Care III and On-Campus Experience II	7 credits
<u>ANP-</u> 654ACE	On-Campus Experience II	0 credits
$\frac{\text{OJ4ACE}}{\text{NUR-513A}}$	Foundations of Advanced Nursing Practice	4 credits
<u>NUR-514A</u>	Organizational Leadership and Informatics	4 credits
$\frac{\text{NUR-550A}}{\Omega}$	Translational Research and Population Health Management	4 credits
$\frac{\text{NUR-590A}}{\Omega}$	Evidence-Based Practice Project	4 credits
NUR-631	Advanced Physiology and Pathophysiology	4 credits
NUR-634	Advanced Health Assessment and Diagnostic Reasoning With Skills Lab	4 credits
NUR-635	Advanced Pharmacology	4 credits
	ience in Nursing: Acute Care Nurse with an Emphasis in Adult-	53 credits
Total Clinica	l Hours	750 hours

# Master of Science in Nursing: Family Nurse **Practitioner**

The Master of Science in Nursing: Family Nurse Practitioner program prepares experienced professional nurses for advanced practice as primary care providers. The family nurse practitioner (FNP) makes independent critical judgments in all levels of

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

prevention, including health promotion; illness prevention; and diagnosis and management for individuals, families, communities, and populations. The FNP performs comprehensive health assessments, diagnoses illness, and prescribes pharmacologic and nonpharmacologic treatments to manage acute and chronic health problems to achieve quality, costeffective outcomes in a culturally sensitive context. The role of the FNP includes educating, consulting, collaborating, using research to make practice decisions, and influencing professional and public policies. Within various practice settings, the FNP provides health care for clients across the life span. This program includes 675 hours of directly supervised clinical practice with qualified preceptors and two separate on-campus experiences. A post-master's certificate program is available to those nurses who already have a Master of Science in Nursing degree.

The Master of Science in Nursing: Family Nurse Practitioner program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

#### **Degree Requirements**

<u>NUR-513</u> Ω	Introduction to Advanced	4 credits
	Registered Nursing	
NUR-514	Organizational Leadership and	4 credits
11011 314	Informatics	
NI ID 5500	Translational Research and	4 credits
<u>NUR-550</u> Ω	Population Health Management	+ credits
		4 1:4-
$\underline{\text{NUR-590}^{\Omega}}$	Evidence-Based Practice Project	4 credits
NUR-631	Advanced Physiology and	4 credits
110K-051	Pathophysiology	
NILID (25	Advanced Pharmacology	4 credits
<u>NUR-635</u>	Advanced I narmacology	4 Cicuits
NUR-634	Advanced Health Assessment and	4 credits
	Diagnostic Reasoning With Skills	
	Lab	
FNP-630 <sup>Ω</sup>	Health Promotion and On-Campus	4 credits
FINE-030	Experience I	Creares
	1	0 credit
FNP-	FNP-630 On-Campus Experience I	0 credit
$630CE^{\Omega}$		
$FNP-652^{\Omega}$	Family Primary Care I	7 credits
$FNP-654^{\Omega}$	Family Primary Care II	7 credits
ENID (000	Practicum and On-Campus	7 credits
$\underline{\text{FNP-690}^{\Omega}}$	•	/ credits
	Experience II	0 1'4
FNP-	FNP-690 On-Campus Experience II	0 credit
<u>690CE</u> <sup>Ω</sup>		
Master of Sci	ience in Nursing: Family Nurse	53 credits
Practitioner		
	177	675 hours
Total Clinical Hours		o/3 nours

# Master of Science in Nursing: Family Nurse Practitioner effective 01/08/2026

The Master of Science in Nursing: Family Nurse Practitioner program prepares experienced professional nurses for advanced practice as primary care providers. The family nurse practitioner program (FNP) prepares learners to make independent critical decisions in all levels of prevention, including health promotion; illness prevention; and diagnosis and management for individuals, families, communities, and populations. The FNP learner performs comprehensive health assessments, implements diagnosis and disease management, and prescribes pharmacologic and nonpharmacologic treatments to manage

acute and chronic health problems to achieve quality, costeffective outcomes in a culturally sensitive environment. The FNP program equips students to take on roles that involve educating, consulting, collaborating, applying evidence-based practices for clinical decision-making, and influencing both professional and public policies. Within various practice settings, the FNP learner provides health care for clients across the life span. This program includes 750 hours of directly supervised clinical practice with qualified preceptors and two separate oncampus experiences. A post-master's certificate program is available to those nurses who already have a Master of Science in Nursing degree.

The Master of Science in Nursing: Family Nurse Practitioner program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

### **Degree Requirements**

Degree Requ		
<u>FNP-630A</u>	Health Promotion and On-Campus Experience I	4 credits
FNP- 630ACE	On-Campus Experience I	0 credits
<u>55074CL</u> <u>FNP-652A</u>	Family Primary Care I	7 credits
FNP-654A	Family Primary Care II	7 credits
FNP-690A	Practicum and On-Campus Experience II	7 credits
FNP-	On-Campus Experience II	0 credits
690ACE NUR-513A Ω	Foundations of Advanced Nursing Practice	4 credits
<u>NUR-514A</u>	Organizational Leadership and Informatics	4 credits
$\frac{\text{NUR-550A}}{\Omega}$	Translational Research and Population Health Management	4 credits
<u>NUR-590A</u> Ω	Evidence-Based Practice Project	4 credits
<u>NUR-631</u>	Advanced Physiology and Pathophysiology	4 credits
NUR-634	Advanced Health Assessment and Diagnostic Reasoning With Skills Lab	4 credits
NUR-635	Advanced Pharmacology	4 credits
Master of Sc Practitioner	ience in Nursing: Family Nurse	53 credits
Total Clinica	d Hours	750 hours

# Master of Science in Nursing with an Emphasis in **Health Care Quality & Patient Safety**

The Master of Science in Nursing with an Emphasis in Health Care Quality and Patient Safety prepares licensed nurses to apply analytical processes to improve health and patient safety outcomes. Students will develop the essential knowledge and skills to lead clinical and non-clinical process improvement projects in a complex health care environment. The Master of Science in Nursing with an Emphasis in Health Care Quality & Patient Safety program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011)

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

NUR-513 $^{\Omega}$	Introduction to Advanced	4 credits
	Registered Nursing	
NUR-514	Organizational Leadership and	4 credits
	Informatics	
$\underline{\text{NUR-550}}^{\Omega}$	Translational Research and	4 credits
	Population Health Management	
$\underline{\text{NUR-590}^{\Omega}}$	Evidence-Based Practice Project	4 credits
NUR-630	Performance Improvement and	4 credits
	Quality in Health Care	
HQS-610	Foundations of Quality	4 credits
	Improvement and Patient Safety	
HQS-620	Project Management in Health Care	4 credits
HOS-630	Implementation and Change	4 credits
	Management	
$HOS-640^{\Omega}$	Quality Improvement and Patient	4 credits
	Safety Practicum	

Master of Science in Nursing with an Emphasis in
Health Care Quality & Patient Safety

# Master of Science in Nursing with an Emphasis in Health Care Quality & Patient Safety *Effective January* 2026

The Master of Science in Nursing with an Emphasis in Health Care Quality and Patient Safety prepares licensed nurses to apply analytical processes to improve system level health and patient safety outcomes. Learners will develop the essential knowledge and skills to lead clinical and non-clinical process improvement projects in a complex health care environment. The Master of Science in Nursing with an Emphasis in Health Care Quality and Patient Safety program is designed to meet standards set by the American Association of Colleges of Nursing (AACN): The Essentials: Core Competencies for Professional Nursing Education (2021) and the Commission on Collegiate in Nursing Accreditation Standards and the Graduate Quality and Safety Education for Nurse Competencies (2024)

# **Degree Requirements**

NUR-513A $^{\Omega}$	Foundations of Advanced	4 credits
	Nursing Practice	
$\frac{\text{NUR-514}}{\text{A}^{\Omega}}$	Organizational Leadership and	4 credits
	Informatics	
NUR-550A $^{\Omega}$	Translational Research and	4 credits
<u>1101(330</u> 11	Population Health Management	
NUR-590A $^{\Omega}$	Evidence-Based Practice Project	4 credits
	Advanced Integrative Concepts:	4 credits
$NUR-600^{\Omega}$	Pathophysiology, Pharmacology	4 Cledits
	and Assessment	
*********	***************************************	4 credits
$\underline{\text{HQS-610}}\text{A}^{\Omega}$	Foundations of Quality	4 credits
	Improvement and Patient Safety	
$HQS-620A^{\Omega}$	Project Management in Health	4 credits
	Care	
$HOS-630A^{\Omega}$	Implementation and Change	4 credits
1100 000	Management	
$HQS-640A^{\Omega}$	Quality Improvement and Patient	4 credits
1105 04071	Safety Practicum	
Master of Scien	nce in Nursing with an Emphasis in	36 credits
	uality & Patient Safety	
Tieann Care Qu	ianty & rantin Saltly	

# Master of Science in Nursing with an Emphasis in Health Informatics

Grand Canyon University's Master of Science in Nursing program incorporates the advanced roles of a clinician, researcher, learner/educator/coach, leader, community advocate, manager of systems, collaborator, and consultant. The master's prepared nurse requires clinical and organizational decisionmaking skills based on critical thinking, evidence-based research, and diagnostic reasoning. Nurses prepared at the advanced level synthesize elements of caring into the nurse-patient relationship based on advocacy, as well as ethical, social, legal, political, and historical perspectives. Emphasis is placed on client empowerment with unconditional regard for all. The role of the advanced practice registered nurse (APRN) also includes the clinical/practice component in preparation to become a nurse practitioner. Specialties within the advanced nursing role include an expansion of nursing knowledge from one of the following program emphases: education, informatics, leadership, public health, acute care nurse practitioner, and family nurse practitioner. Health informatics is a rapidly evolving discipline requiring innovative leadership. As health care reform begins to impact all areas of the health care system, greater attention is being focused on the value of using health care data in reducing health care costs, increasing access to health care, and improving the quality of health care services. The integration of information technology into health care and the continuous changes in patient-care systems require professionals and leaders with training in clinical operations, data management systems, health care system operations, project management, decision making, and quality assessment. Graduates of the Master of Science in Nursing with an Emphasis in Health Informatics program may perform a variety of functions for organizations, such as automating clinical care; choosing, customizing or building new operational data systems; training health care workers in the use of computer systems; and collecting and analyzing data to improve patient care and outcomes. Depending on their areas of strength and focus, graduates may serve as project managers, project designers, researchers, systems analysts, or administrators and executives at all levels of the organization. Graduates may work in a variety of settings, including hospitals, primary care facilities, doctor's offices, insurance companies, pharmacies, technology suppliers, consulting firms, and other related settings. Potential employers for graduates of this program include the Centers for Disease Control and Prevention, National Institutes of Health, clinical data exchange insurance sites, the government's Military Health System (hospitals), Centers for Medicare and Medicaid Services, state health care organizations, and informational technology vendors. The Master of Science in Nursing with an Emphasis in Health Informatics program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011)...

NUR-513 $^{\Omega}$	Introduction to Advanced	4 credits
	Registered Nursing	
NUR-514	Organizational Leadership and	4 credits
	Informatics	
NUR-550 $^{\Omega}$	Translational Research and	4 credits
	Population Health Management	
NUR-590 $^{\Omega}$	Evidence-Based Practice Project	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>HIM-615</u>	Health Care Information Systems and Technology	4 credits
HIM-650	Health Care Data Management	4 credits
HCI-655	Electronic Health Records	4 credits
HCI-660	Health Data Analytics	4 credits
<u>HCI-670</u>	User Interface Design for Informatics	4 credits
$\underline{\text{NUR-690}^{\Omega}}$	Nursing Informatics Practicum	4 credits

40 credits Master of Science in Nursing with an Emphasis in Health Informatics

# Master of Science in Nursing with an Emphasis in Health Informatics Effective January 2026

Grand Canyon University's Master of Science in Nursing with an emphasis in Health Informatics incorporates the advanced roles of a clinician, researcher, learner/educator/coach, leader, community advocate, systems manager, collaborator, and consultant. Health informatics is a rapidly evolving discipline requiring innovative leadership. Graduates of the Master of Science in Nursing with an Emphasis in Health Informatics program will be introduced to different programming languages such as SQL and Python. Additionally, learners will gain skills in project management, user interfaces with technology, electronic health records, privacy and security with technology, and analytics. Graduates may perform a variety of functions for organizations, such as automating clinical care; choosing, customizing, or building new operational data systems; training health care workers in computer systems; and collecting and analyzing data to improve patient care and outcomes. Depending on their areas of strength and focus, graduates may serve as project managers, project designers, researchers, systems analysts, educators, administrators, or executives at all levels of the organization. The Master of Science in Nursing with an Emphasis in Health Informatics program is designed to meet standards set by the American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (2021) and the Commission for Collegiate Nursing Education (CCNE).

#### **Degree Requirements**

Degree Requi	CHICHG	
$NUR-513A^{\Omega}$	Foundations of Advanced Nursing	4 credits
	Practice	
NUR-514 $A^{\Omega}$	Organizational Leadership and	4 credits
11011 31 111	Informatics	
$\underline{\text{NUR-550A}}^{\Omega}$	Translational Research and	4 credits
1,010 00 011	Population Health Management	
$\underline{\text{NUR-590A}^{\Omega}}$	Evidence-Based Practice Project	4 credits
NUR- $600^{\Omega}$	Advanced Integrative Concepts:	4 credits
	Pathophysiology, Pharmacology	
	and Assessment	
HIM-615 $A^{\Omega}$	Health Care Information Systems	4 credits
11111 01311	and Technology	
HIM-650 $A^{\Omega}$	Health Care Data Management	4 credits
	Electronic Health Records	4 credits
$\frac{\text{HCI-}655\text{A}^{\Omega}}{}$	Electronic Health Records	4 credits
$\underline{HCI\text{-}660A^\Omega}$	Health Data Analytics	4 credits
$\underline{\text{NUR-690A}^{\Omega}}$	Nursing Informatics Practicum	4 credits

Master of Science in Nursing with an Emphasis in

# Master of Science in Nursing with an Emphasis in **Nursing Education**

Grand Canyon University's Master of Science in Nursing program incorporates the advanced roles of a clinician, researcher, learner/educator/coach, leader, community advocate, manager of systems, collaborator, and consultant. The master's prepared nurse requires clinical and organizational decisionmaking skills based on critical thinking, evidence-based research, and diagnostic reasoning. Nurses prepared at the advanced level synthesize elements of caring into the nurse-patient relationship based on advocacy, as well as ethical, social, legal, political, and historical perspectives. Emphasis is placed on client empowerment with unconditional regard for all. The role of the advanced practice registered nurse (APRN) also includes the clinical/practice component in preparation to become a nurse practitioner. Specialties within the advanced nursing role include an expansion of nursing knowledge from one of the following program emphases: education, informatics, leadership, public health, acute care nurse practitioner, and family nurse practitioner. The Master of Science in Nursing with an Emphasis in Nursing Education program prepares advanced professional nurses to address the ever changing and expanding educational needs of the nursing profession. The emphasis is designed for those students in the Master of Science in Nursing program who are interested in pursuing or advancing in a position in nursing education. Graduates will be prepared for a variety of roles in nursing education, either as a clinical educator or academic educator in both traditional and nontraditional settings in nursing education. A post-master certificate program is available to those nurses who already have a Master of Science in Nursing degree. The Master of Science in Nursing with an Emphasis in Nursing Education program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

#### **Degree Requirements**

NUR-513 $^{\Omega}$	Introduction to Advanced	4 credits	
	Registered Nursing		
NUR-514	Organizational Leadership and	4 credits	
	Informatics		
$\underline{\text{NUR-550}}^{\Omega}$	Translational Research and	4 credits	
	Population Health Management		
$NUR-590^{\Omega}$	Evidence-Based Practice Project	4 credits	
	Advanced Pathophysiology and	4 credits	
<u>NUR-641E</u>	Pharmacology for Nurse Educators	4 cicuits	
NUD < 40E	Advanced Health Assessment for	4 credits	
<u>NUR-643E</u>	Nurse Educators	4 Cledits	
		4 credits	
$\underline{\text{NUR-646E}^{\Omega}}$	Nursing Education Seminar I	4 credits	
$\underline{\text{NUR-648E}^{\Omega}}$	Nursing Education Seminar II	4 credits	
NUR-665E $^{\Omega}$	Nursing Education Practicum	4 credits	
110K-003L			
Master of Science in Nursing with an Emphasis in		36 credits	
Nursing Education			

# Master of Science in Nursing with an Emphasis in Nursing Education Effective January 2026

The Master of Science in Nursing with an Emphasis in Nursing Education program prepares advanced professional nurses to address the ever changing and expanding educational needs of the nursing profession. The program consists of graduate nursing core and education-focused courses. From the graduate nursing

40 credits

**Health Informatics** 

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

core courses, learners gain the knowledge, values, and skills needed for advanced generalist nursing practice in an evolving health care system. The education emphasis is designed for those learners in the Master of Science in Nursing program who are interested in pursuing or advancing in a position in nursing education. Graduates will be prepared for a variety of roles in nursing education, either as a clinical educator or academic educator in both traditional and nontraditional settings in nursing education. A post-master certificate program is available to those nurses who already have a Master of Science in Nursing degree. The Master of Science in Nursing with an Emphasis in Nursing Education program is designed to meet standards set by the American Association of Colleges of Nursing (AACN): The Essentials: Core Competencies for Professional Nursing Education and the National League for Nursing (NLN) Nurse Educator Core Competencies.

### **Degree Requirements**

$NUR-513A^{\Omega}$	Foundations of Advanced	4 credits
	Nursing Practice	
$\frac{\text{NUR-514}}{\text{A}^{\Omega}}$	Organizational Leadership and	4 credits
	Informatics	
$NUR-550$ A $^{\Omega}$	Translational Research and	4 credits
	Population Health Management	
$NUR-590A^{\Omega}$	Evidence-Based Practice Project	4 credits
$\underline{NUR-641E}A^{\Omega}$	Advanced Pathophysiology and	4 credits
	Pharmacology for Nurse	
	Educators	
NUR-643EA $^{\Omega}$	Advanced Health Assessment for	4 credits
	Nurse Educators	
$\underline{\text{NUR-646EA}^{\Omega}}$	Nursing Education Seminar I	4 credits
NUR-648EA $^{\Omega}$	Nursing Education Seminar II	4 credits
NUR-665EA $^{\Omega}$	Nursing Education Practicum	4 credits
NUK-003EA	Training Education Tracticum	26 11

Master of Science in Nursing with an Emphasis in Nursing Education 36 credits

# Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems

Grand Canyon University's Master of Science in Nursing program incorporates the advanced roles of a clinician, researcher, learner/educator/coach, leader, community advocate, manager of systems, collaborator, and consultant. The master's prepared nurse requires clinical and organizational decisionmaking skills based on critical thinking, evidence-based research, and diagnostic reasoning. Nurses prepared at the advanced level synthesize elements of caring into the nurse-patient relationship based on advocacy, as well as ethical, social, legal, political, and historical perspectives. Emphasis is placed on client empowerment with unconditional regard for all. The role of the advanced practice registered nurse (APRN) also includes the clinical/practice component in preparation to become a nurse practitioner. Specialties within the advanced nursing role include an expansion of nursing knowledge from one of the following program emphases: education, informatics, leadership, public health, acute care nurse practitioner, and family nurse practitioner.

The Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems program prepares nurses for leadership roles in today's rapidly changing health care delivery systems. The program consists of graduate nursing core and leadership courses, as well as leadership courses taken with Master of Science in Leadership (MSL) students. From the graduate nursing core courses, students gain the knowledge, values, and skills needed for advanced generalist nursing practice in an evolving health care system. The coursework in leadership provides insight into the functioning of organizations, including emphasis on financial and human resource management within health care organizations. Nursing leadership courses also emphasize the role of quality and performance improvement and the effective communication and interdisciplinary collaboration skills required of leaders in contemporary health care.

The Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

#### **Degree Requirements**

81		
$\underline{\text{NUR-513}}^{\Omega}$	Introduction to Advanced	4 credits
	Registered Nursing	
NUR-514	Organizaional Leadership and	4 credits
1,011 31 1	Informatics	
$\underline{\text{NUR-550}}^{\Omega}$	Translational Research and	4 credits
<u>14014 330</u>	Population Health management	
<u>NUR-590</u> Ω	Evidence-Based Practice Project	4 credits
	0 1 1 1 1 1	4 114
LDR-615	Organizational Development and	4 credits
	Change	
NUR-621	Principles of health Care Financial	4 credits
11011 021	Management	
NUR-630	Performance Improvement and	4 credits
110K-030	Quality in Health Care	
HD14 625	Acquiring, Developing, and	4 credits
<u>HRM-635</u>	1 0, 1 0,	4 Cledits
	Leveraging Human Capital	
NUR-674 $^{\Omega}$	Leadership in Health Care Systems	4 credits
	Practicum	

Master of Science in Nursing with an Emphasis in
Leadership in Health Care Systems

# Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems *Effective January* 2026

The Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems program prepares nurses for leadership roles in today's rapidly changing health care delivery systems. The program consists of graduate nursing core and leadership courses, as well as leadership courses taken with Master of Science in Health Administration (MS-HA) learners. From the graduate nursing core courses, learners gain the knowledge, values, and skills needed for advanced generalist nursing practice in an evolving health care system. The coursework in health administration provides insight into the functioning of organizations, including emphasis on strategic and human resource management within health care organizations. Nursing leadership courses also emphasize financial management, the role of quality and performance improvement, and the effective communication and interdisciplinary collaboration skills required of leaders in contemporary health care. The Master of Science in Nursing with an Emphasis in Leadership in Health Care Systems program is designed to meet standards set by the American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (2021).

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

T.	-	•	
Degree	Kea	ıuırem	ents

NUR-513A $^{\Omega}$	Foundations of Advanced	4 credits
	Nursing Practice	
$\frac{\text{NUR-514A}^{\Omega}}{\text{NUR-514A}^{\Omega}}$	Organizaional Leadership and	4 credits
	Informatics	
$\frac{\text{NUR-550}}{\text{A}^{\Omega}}$	Translational Research and	4 credits
	Population Health management	
$\underline{\text{NUR-590}}\text{A}^{\Omega}$	Evidence-Based Practice Project	4 credits
$NUR-600^{\Omega}$	Advanced Integrative Concepts:	4 credits
	Pathophysiology, Pharmacology	
	and Assessment	
NUR-621A $^{\Omega}$	Principles of health Care	4 credits
	Financial Management	
$\frac{\text{NUR-630}}{\text{A}^{\Omega}}$	Performance Improvement and	4 credits
	Quality in Health Care	
$HCA-545A^{\Omega}$	Organizational Structure,	4 credits
	Dynamics, and Effectiveness	
$\frac{\text{NUR-674A}^{\Omega}}{\text{NUR-674A}^{\Omega}}$	Leadership in Health Care	4 credits
	Systems Practicum	

# **Master of Business Administration & Master of** Nursing: Nursing Leadership in Health Care **Systems**

Master of Science in Nursing with an Emphasis in

Leadership in Health Care Systems

Refer to the Colangelo College of Business section of the catalog for specific degree requirements and course sequence information on this program: Master of Business Administration and Master of Science in Nursing: Nursing Leadership in Health Care Systems Dual - Degree.

# Master of Science in Nursing: Psychiatric Mental **Health Nurse Practitioner**

The Master of Science in Nursing: Psychiatric Mental Health Nurse Practitioner program prepares experienced professional nurses for advanced practice as psychiatric mental health care providers across the life span. The psychiatric mental health nurse practitioner (PMHNP) makes independent critical judgments in all levels of prevention of behavioral health problems, mental disorders, and comorbid conditions. This includes mental health promotion, illness prevention, and diagnosis and management for individuals, families, communities, and populations. The PMHNP performs comprehensive psychiatric assessments, diagnoses mental disorders, and prescribes pharmacologic and nonpharmacologic treatments to manage acute and chronic mental health problems to achieve quality, cost-effective outcomes in a culturally sensitive context. The role of the PMHNP includes educating, consulting, collaborating, using research to make practice decisions, and influencing professional and public policies. Within various practice settings, the PMHNP provides psychiatric mental health care for patients across the life span. This program includes 750 hours of directly supervised clinical practice with qualified preceptors and two separate on-campus experiences. A postmaster's certificate program is available to those nurses who already have a Master of Science in Nursing degree.

# **Degree Requirements**

NUR-513A <sup>Ω</sup>	Introduction to Advanced	4 credits
	Registered Nursing	

<u>NUR-514A</u>	Organizational Leadership and Informatics	4 credits
$\underline{\text{NUR-550A}^{\Omega}}$	Translational Research and Population Health Management	4 credits
<u>NUR-590A</u> <sup>Ω</sup>	Evidence-Based Practice Project	4 credits
NUR-631	Advanced Physiology and Pathophysiology	4 credits
NUR-635	Advanced Pharmacology	4 credits
<u>NUR-634</u>	Advanced Health Assessment and Diagnostic Reasoning with Skills Lab	4 credits
<u>PMH-630</u>	Foundations of Psychiatric Mental Health - On-Campus Experience I	4 credits
PMH-630CE	On-Campus Experience I	4 credits
<u>PMH-652<sup>Ω</sup></u>	Intro to Psychiatric Mental Health Assessment and Daignostic Reasoning	4 credits
<u>PMH-654</u>	Integrative Management: Psychiatric Assessment, Diagnosis and Treatment	4 credits
<u>PMH-656</u>	Advanced Management of Psychiatric Disorders - On-Campus Experience II	4 credits
<u>PMH-656CE</u>	On-Campus Experience II	4 credits
Master of Scie Health Nurse	ence in Nursing: Psychiatric Mental Practitioner	53 credits
Total Clinical	Practicum Hours	750 hours

# Master of Science in Nursing with an Emphasis in **Public Health Nursing**

Grand Canyon University's Master of Science in Nursing program incorporates the advanced roles of a clinician, researcher, learner/educator/coach, leader, community advocate, manager of systems, collaborator, and consultant. The master's prepared nurse requires clinical and organizational decisionmaking skills based on critical thinking, evidence-based research, and diagnostic reasoning. Nurses prepared at the advanced level synthesize elements of caring into the nurse-patient relationship based on advocacy, as well as ethical, social, legal, political, and historical perspectives. Emphasis is placed on client empowerment with unconditional regard for all. The demand for public health professionals is rapidly increasing as a result of health care reform, environmental health concerns, emerging and re-emerging diseases, sociopolitical factors affecting the nation's health, and expansion of health issues that are global in scope. Professionals who graduate from the Master of Science in Nursing with an Emphasis in Public Health Nursing program may hold positions of responsibility in a variety of settings, including health care facilities, county and state health departments, social service agencies, health policy and planning organizations, universities, nongovernmental organizations, governmental agencies, international health organizations, community-based health education and health promotion settings, and the corporate world. Graduates of Grand Canyon University's Master of Science in Nursing with an Emphasis in Public Health Nursing program can be actively involved in the coordination, planning, development, implementation, and evaluation of health programs and services. The Master of Science in Nursing with an Emphasis in Public Health Nursing program is designed for nurses interested in disease prevention and community and population health. Public health professionals draw on knowledge

36 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

and skills from a variety of disciplines to define, assess, and ultimately resolve public health problems and reduce health disparities. Students study theories, concepts, and principles of public health and their application. The curriculum, developed around the nursing core and national public health curriculum standards, uses a multidisciplinary approach that emphasizes psychological, behavioral, and social factors influencing population-based health disparities; principles of epidemiology and biostatistics; environmental public health concepts; public health administration systems and processes; and economic factors. It prepares students for an expanding range of professional opportunities and roles in public health and nursing. As part of the Master of Science in Nursing with an Emphasis in Public Health Nursing program, students complete an evidencebased practice project tailored to the student's area of specific interest. The program also culminates with a practicum experience through which students will learn to apply public health nursing concepts and skills in a public health setting. The Master of Science in Nursing with an Emphasis in Public Health Nursing program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

### **Degree Requirements**

$\underline{\text{NUR-513}^{\Omega}}$	Introduction to Advanced Registered Nursing	4 credits
<u>NUR-514</u>	Organizational Leadership and Informatics	4 credits
$\underline{\text{NUR-550}}^{\Omega}$	Translational Research and Population Health Management	4 credits
$\underline{\text{NUR-590}^{\Omega}}$	Evidence-Based Practice Project	4 credits
PHN-600	Foundations of Public Health Nursing	4 credits
PUB-540	Principles of Epidemiology	4 credits
<u>PUB-550</u>	Application and Interpretation of Public Health Data	4 credits
PHN-652	Population-Based Interventions	4 credits
<u>PUB-655</u>	International Perspectives in Community Health	4 credits
$\underline{PHN-690^{\Omega}}$	Public Health Nursing Practicum	4 credits
Master of Sc Public Health	ience in Nursing with an Emphasis in h Nursing	40 credits
Total Clinical/Practicum Hours		150 hours

# Master of Science in Nursing with an Emphasis in Public Health Nursing Effective January 2026

The Master of Science in Nursing with an Emphasis in Public Health Nursing program prepares advanced professional nurses to address disease prevention, community, and population health needs. The program's emphasis is designed for learners interested in a multidisciplinary approach to reducing health disparities across diverse populations. Learners integrate epidemiological and biostatistical principles to address community and population public health needs, as well as public health administration. Learners prepare for an expanding range of professional opportunities and roles in public health and nursing. The program culminates in a practicum experience, where learners apply public health nursing concepts and skills in a public health setting and complete a capstone project. The Master of Science in Nursing with an Emphasis in Public Health Nursing program is

designed to meet standards set by the American Association of Colleges of Nursing (AACN): The Essentials: Core Competencies for Professional Nursing Education (2021), the Commission on Collegiate Nursing Education (CCNE) Standards of Accreditation of Baccalaureate and Graduate Nursing Programs (2024), and the American Nurses Association (ANA) Public Health Nursing: Standards of Practice, 3rd edition (2022).

## **Degree Requirements**

$\underline{NUR\text{-}513A^{\Omega}}$	Foundations of Advanced Nursing Practice	4 credits
$\underline{NUR\text{-}514A^{\Omega}}$	Organizational Leadership and Informatics	4 credits
$\underline{NUR\text{-}550A^{\Omega}}$	Translational Research and Population Health Management	4 credits
$\underline{\text{NUR-590A}^{\Omega}}$	Evidence-Based Practice Project	4 credits
$\underline{\text{NUR-600}^{\Omega}}$	Advanced Integrative Concepts: Pathophysiology, Pharmacology and Assessment	4 credits
$\underline{\text{PHN-600A}^{\Omega}}$	Foundations of Public Health Nursing	4 credits
$PUB-540A^{\Omega}$	Principles of Epidemiology	4 credits
$\underline{PUB\text{-}550A^{\Omega}}$	Application and Interpretation of Public Health Data	4 credits
PHN-652 $A^{\Omega}$	Population-Based Interventions	4 credits
$\underline{PHN-690A^{\Omega}}$	Public Health Nursing Practicum	4 credits
Master of Scie Public Health	ence in Nursing with an Emphasis in Nursing	40 credits

# Post-Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology Certificate

The Post-Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology Certificate program prepares experienced registered nurses to provide competent advanced practice nursing care in complex, acute, and critical care settings through an evidence-based program of study. Graduates are eligible for certification as Adult-Gerontology Acute Care Nurse Practitioners. The program combines courses in advanced health assessment, clinical diagnosis, procedural skill acquisition, and care management of adult and geriatric acute care patients, subacute patients, complex patients, and/or patients with exacerbations of chronic illness. Clinical experiences emphasize the physiological and psychosocial impact of acute and critical illness on the patient, family, and community, and prepare the ACNP-AG in the diagnosis and management of acute and life-threatening health problems. This program includes 675 hours of directly supervised clinical practice with qualified preceptors and two separate on-campus experiences. The Post-Master of Science in Nursing: Acute Care Nurse Practitioner with an Emphasis in Adult-Gerontology Certificate program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011).

NUR-631	Advanced Physiology and	4 credits
	Pathophysiology	
<u>NUR-635</u>	Advanced Pharmacology	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

<u>NUR-634</u>	Advanced Health Assessment and Diagnostic Reasoning With Skills	4 credits
	Lab	
<u>ANP-635</u>	Health Promotion and Maintenance and On-Campus Experience I	4 credits
ANP-635CE	ANP-635 On-Campus Experience I	0 credit
ANP-650	Adult-Gerontology Acute Care I	7 credits
ANP-652	Adult-Gerontology Acute Care II	7 credits
<u>ANP-654</u>	Adult-Gerontology Acute Care III and On-Campus Experience II	7 credits
<u>ANP-654CE</u>	ANP-654 On-Campus Experience II	0 credit
Post-Master of	of Science in Nursing: Acute Care	37 credits
Nurse Practit	ioner with an Emphasis in Adult-	
Gerontology	Certificate	
Total Clinica	l Hours	675 hours

# Post-Master of Science in Nursing: Family Nurse Practitioner Certificate

The Post-Master of Science in Nursing: Family Nurse Practitioner Certificate program prepares the professional nurse for advanced practice as a primary care provider. The family nurse practitioner (FNP) makes independent critical judgments in all levels of prevention, including health promotion; illness prevention; and diagnosis and management for individuals, families, communities, and populations. The FNP performs comprehensive health assessments, diagnoses illness, and prescribes pharmacologic and nonpharmacologic treatments to manage acute and chronic health problems to achieve quality cost-effective outcomes in a culturally sensitive context. The role of the nurse practitioner includes educating, consulting and collaborating, using research to make practice decisions, and influencing professional and public policies. Within various practice settings, the FNP provides health care for clients across the life span. This program includes 675 hours of directly supervised clinical practice with qualified preceptors and two separate on-campus experiences. The Post-Master of Science in Nursing: Family Nurse Practitioner program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011)

# **Degree Requirements**

NUR-631	Advanced Physiology and Pathophysiology	4 credits
NUR-635	Advanced Pharmacology	4 credits
NUR-634	Advanced Health Assessment and Diagnostic Reasoning With Skills Lab	4 credits
FNP-630	Health Promotion and On-Campus Experience I	4 credits
<u>FNP-630CE</u>	FNP-630 On-Campus Experience I	0 credit
FNP-652	Family Primary Care I	7 credits
FNP-654	Family Primary Care II	7 credits
FNP-690	Practicum and On-Campus Experience II	7 credits
FNP-690CE	FNP-690 On-Campus Experience II	0 credit
Post-Master of Practitioner C	of Science in Nursing: Family Nurse Certificate	37 credits
Total Clinica	l Hours	675 hours

# Post-Master of Science in Nursing: Nursing Education Certificate

The Post-Master of Science in Nursing: Nursing Education Certificate prepares advanced professional nurses in the specialty of nursing education within the expanding educational needs of the nursing profession. Nurse educators practice in a variety of settings, including acute or chronic care settings, as staff educators or in a role responsible for planning, implementing, and evaluating continuing education programs. The advanced professional nurse educator will also be prepared to assume a faculty position in a traditional college of nursing or in a nontraditional program that relies on online technology as a teaching medium. Competencies of the professional practice nurse educator include assessing educational needs, planning programs to meet those needs, and evaluating program outcomes in the context of evidence-based practice models. The Post-Master of Science in Nursing: Nursing Education Certificate program is designed to meet current professional standards including but not limited to: American Association of Colleges of Nursing (AACN): The Essentials of Master's Education in Nursing (AACN, 2011)..

# **Degree Requirements**

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NUR-641E	Advanced Pathophysiology and	4 credits
NUR-643E	Pharmacology for Nurse Educators Advanced Health Assessment for Nurse Educators	4 credits
NUD CACEO		4 credits
$NUR-646E^{\Omega}$	runsing Education Schina 1	4 cicuits
$\underline{\text{NUR-648E}^{\Omega}}$	Nursing Education Seminar II	4 credits
$\underline{\text{NUR-665E}^{\Omega}}$	Nursing Education Practicum	4 credits
Post-Master of	of Science in Nursing: Nursing	20 credits
Education Ce	ertificate	
$\frac{\text{NUR-665E}^{\Omega}}{\text{NUR-665E}^{\Omega}}$	Nursing Education Practicum of Science in Nursing: Nursing	4 credits

# Post-Master of Science in Nursing: Psychiatric Mental Health Nurse Practitioner Certificate

effective 01/08/2026

The online Post-Master's MSN Psychiatric/Mental Health Nurse Practitioner program is designed to prepare students to provide a wide range of mental health services across the lifespan. It includes the study and application of diagnostic and treatment modalities and approaches to practice. Students learn to work with other healthcare professionals to provide mental healthcare services in all settings. The program enables graduates to deliver advanced practice services to individuals who are at risk for and/or require mental health services.

NUR-631	Advanced Physiology and	4 credits
	Pathophysiology	
NUR-634	Advanced Health Assessment and	4 credits
	Diagnostic Reasoning With Skills	
	Lab	
NUR-635	Advanced Pharmacology	4 credits
PMH-630	Foundations of Psychiatric Mental	4 credits
	Health - On-Campus Experience I	
PMH-	On-Campus Experience I	0 credits
630CE		
PMH-652	Intro to Psychiatric Mental Health	7 credits
	Assessment and Diagnostic	
	Reasoning	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>PMH-654</u>	Integrative Management: Psychiatric Assessment, Diagnosis and	7 credits
<u>PMH-656</u>	Treatment Advanced Management of Psychiatric Disorders - On-Campus	7 credits
<u>PMH-</u> 656CE	Experience II On-Campus Experience II	0 credits

Post-Master of Science in Nursing: Psychiatric Mental Health Nurse Practitioner Certificate

37 credits

# Nursing: Doctoral Programs

# **Doctor of Nursing Practice**

Grand Canyon University's Doctor of Nursing Practice program provides broad and in-depth preparation for advanced practice and leadership roles in nursing. The program expands on current theoretical and scientific foundations of health care practice, including the discipline knowledge base, the design and evaluation of clinical solutions, and clinical and organizational change leadership. The program prepares nurse leaders to design and implement evidence-based strategies for practice that improve health care delivery and patient outcomes. Emphasis will be placed on preparing graduates to practice from the foundation of our Christian heritage through an intentional focus on values and ethics.

### **Degree Requirements**

$\underline{\text{DNP-801A}^{\Omega}}$	Introduction to DNP Studies	3 credits
<u>DNP-805A</u> Ω	Health Care Informatics	3 credits
<u>DNP-810Α</u> <sup>Ω</sup>	Emerging Areas of Human Health	3 credits
<u>DNP-815A</u> Ω	Scientific Underpinnings	3 credits
$\underline{\text{DNP-820A}}^{\Omega}$	Translational Research and Evidence-Based Practice	3 credits
DNP-825A	Population Management	3 credits
$\underline{\text{DNP-835A}}^{\Omega}$	Patient Outcomes and Sustainable Change	3 credits
<u>DNP-840A</u> Ω	Leadership for Advanced Nursing Practice	3 credits
$\underline{\text{DNP-830A}}^{\Omega}$	Data Analysis	3 credits
$\underline{\text{DNP-955A}^{\Omega}}$	DPI Project: Part I	4 credits
$\underline{\text{DNP-960A}^{\Omega}}$	DPI Project: Part II	4 credits
$\underline{\text{DNP-965A}^{\Omega}}$	DPI Project: Part III	4 credits
Doctor of Nu	rsing Practice	39 credits
Total Practice	Experience Hours	1000 hours

# **Doctor of Nursing Practice with an Emphasis in Educational Leadership**

Grand Canyon University's Doctor of Nursing Practice with an Emphasis in Educational Leadership program provides broad and in-depth preparation for advanced practice and leadership roles in nursing and education. The program expands on current theoretical and scientific foundations of health care practice, including the discipline knowledge base, the design and evaluation of clinical solutions, and clinical and organizational change leadership. The program prepares nurse leaders to design and implement evidence-based strategies for practice that improve health care delivery, patient outcomes, and educational

programs. Emphasis is placed on employing methods of curriculum design and development, applying teaching strategies, and designing assessments to evaluate teaching and learning outcomes to prepare advanced practice nurses, faculty, program directors, and deans to lead nursing education programs in academia or institutions. Graduates will be prepared to practice from a foundation of the Christian heritage through an intentional focus on values and ethics.

#### **Degree Requirements**

$\underline{\text{DNP-801A}^{\Omega}}$	Introduction to DNP Studies	3 credits
<u>DNP-805A</u> Ω	Health Care Informatics	3 credits
<u>DNP-810Α</u> <sup>Ω</sup>	Emerging Areas of Human Health	3 credits
<u>DNP-815A</u> Ω	Scientific Underpinnings	3 credits
<u>DNP-820A</u> <sup>Ω</sup>	Translational Research and Evidence-Based Practice	3 credits
DNP-825A	Population Management	3 credits
	Patient Outcomes and Sustainable Change	3 credits
<u>DNP-836A</u> <sup>Ω</sup>	Facilitation of Learning in Nursing Education	3 credits
$\underline{\text{DNP-837A}}^{\Omega}$	Curriculum Design and Assessment	3 credits
<u>DNP-838A</u> Ω	Nursing Program Development and Educational Leadership	3 credits
$\underline{DNP\text{-}840A}^{\Omega}$	Leadership for Advanced Nursing Practice	3 credits
$\underline{\text{DNP-830A}}^{\Omega}$	Data Analysis	3 credits
$\underline{\text{DNP-955A}^{\Omega}}$	DPI Project: Part I	4 credits
DNP-960A $^{\Omega}$	DPI Project: Part II	4 credits
$\underline{\text{DNP-965A}^{\Omega}}$	DPI Project: Part III	4 credits
Doctor of Nu Educational I	rsing Practice with an Emphasis in Leadership	48 credits
	e Experience Hours	1000 hours

# Health Care Professions: Undergraduate Programs

# **Bachelor of Science in Communication Sciences** and Disorders

The Bachelor of Science in Communication Sciences and Disorders program provides students with foundational knowledge of the biological, physical, behavioral, and cognitive aspects of human communication and prepares graduates to support the needs of clients with impairments in communication.

Total General Education	34-40 credits
Total Athletic Training Major	74 credits
Total Electives	6-12 credits
Total Bachelor of Science in	120 credits
Communication Sciences and Disorders	
Communication Sciences and Disorders Major	
	2 11.

BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credits
BIO-202	Human Anatomy and Physiology	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

BIO-202L	Human Anatomy and Physiology II-Lab	1 credits
<u>CSD-110</u>	Introduction to Communication Disorders	4 credits
CSD-220	Speech-Language Development	4 credits
CSD-230	Phonetics and Phonology	4 credits
<u>CSD-310</u>	Anatomy and Physiology of Speech, Hearing, and Swallowing	4 credits
<u>CSD-320</u>	Speech, Language, and Hearing Sciences	4 credits
CSD-330	Introduction to Audiology	4 credits
<u>CSD-340</u>	Cultural Responsiveness in Communication Disorders	4 credits
CSD-350	Clinical Writing and Reasoning	4 credits
CSD-410	Aural Rehabilitation	4 credits
CSD-420	Acquired Neurological Disorders	4 credits
<u>CSD-430</u>	Professional Issues and Ethical Considerations	4 credits
<u>CSD-440</u>	Introduction to Clinical Practice in Communication Disorders	4 credits
<u>CSD-490</u>	Professional Capstone Project and Practicum	6 credits
MAT-274	Probability and Statistics	4 credits
<u>PHY-111</u>	General Physics I-Lecture	3 credits
PHY-111L	General Physics I - Lab	1 credits
<u>SPD-208</u>	Survey of Special Education:	
	Teaching Children with Exceptionalities	4 credits
Communication	on Sciences and Disorders Major	74 credits

# **Bachelor of Science in Health Care Administration**

The Bachelor of Science in Health Care Administration (BSHA) is an undergraduate professional degree designed to prepare students for entry-level supervisory roles in health care organizations. Ideal candidates for the BSHA program are those students looking for career entry in health care administration and those looking to advance from clinical/technical roles to supervisory roles. The BSHA program emphasizes both the conceptual and analytical skills required to manage in contemporary health care organizations. Graduates prepare themselves for administrative positions in hospitals, long-term care, outpatient facilities, physician offices, mental health organizations, insurance companies, public health agencies, and other types of health organizations. The BSHA program also prepares students who wish to eventually seek their master's degree in order to obtain senior health care executive positions.

The BSHA program features investigative and experimental opportunities in project management, teamwork, and leadership. Students of this program will have the opportunity to gain an indepth understanding of the following:

- The organization and structure of components of the health care sector to permit development and implementation of successful management strategies within the industry.
- The managerial skills needed to work in teams, build crossfunctional teams, and facilitate collaborative decision making.
- The industry-specific business knowledge and skills related to finance management, human resources, strategic planning,

- marketing, information management, and quality improvement.
- The impact that various dynamics (e.g., regulatory, legal, ethical, public policy, and political) can have on health service organizations and the management or administration of any specific sector of the health care industry.
- The manner in which public, private, and social forces can shape the health care system and affect health care providers.
- The financial options and strategies within and between component sectors of the health care industry.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Health Care Administration Major	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Health Care Administration	120 credits

Total Bache Administrat	elor of Science in Health Care	120 credits
Health Care	Administration Major	
HLT-205	Health Care Systems and	4 credits
<u>HCA-255</u>	Transcultural Health Care Health Policy and Economic Analysis	4 credits
HCA-240	Health Care Accounting and Billing	4 credits
<u>HLT-305</u>	Legal and Ethical Principles in Health Care	4 credits
<u>HLT-302</u> <sup>∆</sup>	Spirituality and Christian Values in Health Care and Wellness	4 credits
<u>HCA-360</u>	Health Information Technology and Management	4 credits
HCA-450	Quality in Health Care	4 credits
HCA-455 <sup>‡</sup>	Organizational Behavior and Leadership in Health Care	4 credits
HCA-460	Operations and Risk Management in Health Care	4 credits
HCA-465	Health Care Administration and Management	4 credits
MAT-274	Probability and Statistics	4 credits
<u>HLT-364</u> <sup>∆</sup>	Research and Communication Techniques in Health Care and Science	4 credits
<u>HCA-470<sup>≠∆</sup></u>	Strategic Planning and Implementation in Health Care	4 credits
<u>HLT-494</u> <sup>∆</sup>	Professional Capstone Project	4 credits

Health Care Administration Major

56 credits

# Bachelor of Science in Health Care Administration *Effective November 2025*

The Bachelor of Science in Health Care Administration (BSHA) is an undergraduate professional degree designed to prepare students for entry-level supervisory roles in health care organizations. Ideal candidates for the BSHA program are those students looking for career entry in health care administration and those looking to advance from clinical/technical roles to supervisory roles. The BSHA program emphasizes both the conceptual and analytical skills required to manage in contemporary health care organizations. Graduates prepare themselves for administrative positions in hospitals, long-term care, outpatient facilities, physician offices, mental health organizations, insurance companies, public health agencies, and

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

other types of health organizations. The BSHA program also prepares students who wish to eventually seek their master's degree in order to obtain senior health care executive positions.

The BSHA program features investigative and experimental opportunities in project management, teamwork, and leadership. Students of this program will have the opportunity to gain an indepth understanding of the following:

- The organization and structure of components of the health care sector to permit development and implementation of successful management strategies within the industry.
- The managerial skills needed to work in teams, build crossfunctional teams, and facilitate collaborative decision making.
- The industry-specific business knowledge and skills related to finance management, human resources, strategic planning, marketing, information management, and quality improvement.
- The impact that various dynamics (e.g., regulatory, legal, ethical, public policy, and political) can have on health service organizations and the management or administration of any specific sector of the health care industry.
- The manner in which public, private, and social forces can shape the health care system and affect health care providers.
- The financial options and strategies within and between component sectors of the health care industry.

# **Degree Requirements**

Total General Education	34-40 credits
Total Health Care Administration Major	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Health Care Administration	120 credits
Health Care Administration Major	

Administrat	ion	
<b>Health Care</b>	Administration Major	
<u>HLT-205</u>	Health Care Systems and Transcultural Health Care	4 credits
<u>HLT-302</u>	Spirituality and Christian Values in Health Care and Wellness	4 credits
ECN-351	Essentials of Economics	4 credits
<u>HLT-305</u>	Legal and Ethical Principles in Health Care	4 credits
HCA-240	Health Care Accounting and Billing	4 credits
<u>HCA-360</u>	Health Information Technology and Management	4 credits
HCA-450	Quality in Health Care	4 credits
MAT-274	Probability and Statistics	4 credits
<u>HCA-460</u>	Operations and Risk Management in Health Care	4 credits
<u>HLT-364</u> <sup>∆</sup>	Research and Communication Techniques in Health Care and Science	4 credits
MGT-420	Organizational Behavior and Management	4 credits
<u>HCA-465</u>	Health Care Administration and Management	4 credits
<u>HCA-470<sup>₹∆</sup></u>	Strategic Planning and Implementation in Health Care	4 credits
<u>HLT-494</u> <sup>∆</sup>	Professional Capstone Project	4 credits
Health Care	Administration Major	56 credits

# **Bachelor of Science in Health Sciences**

The Bachelor of Science in Health Sciences program is a degree completion program designed for health care professionals, whose primary job duty involves direct patient interaction related to health assessment or treatment, to acquire baccalaureate-level competencies in health sciences theory and issues related to health care professionals.

### **Degree Requirements**

Total General Education	34-40 credits
Health Sciences Major	36 credits
Total Electives	44-50 credits
Total Bachelor of Science in Health	120 credits
Sciences	

<b>Health Science</b>	s Major	
<u>HLT-307V</u>	Professional Dynamics and Allied Health Professions	3 credits
<u>HLT-308V</u>	Risk Management and Health Care Regulations	3 credits
<u>HLT-313V</u>	Safety, Quality, and Interdisciplinary Approaches to	3 credits
<u>HLT-362V</u>	Care Applied Statistics for Health Care Professionals	3 credits
HLT-324V	Transcultural Health Care	3 credits
<u>PHI-413V</u>	Ethical and Spiritual Decision Making in Health Care	3 credits
<u>HLT-418V</u>	Trends and Issues in Health Care	3 credits
HLT-314V	Health Care Systems	3 credits
<u>HLT-312V</u>	Ethics for Health Care Professionals	3 credits
HLT-317V <sup>∆</sup>	Communication and Application of Research in Practice	3 credits
<u>AMP-450V</u>	Leadership and Vocation	3 credits
<u>HLT-</u> 490V <sup>ΔΩ</sup>	Professional Capstone Project	3 credits

Health Sciences Major

36 credits

# **Bachelor of Science in Health Information** Management

The Bachelor of Science in Health Information Management program prepares students to assume administrative positions in health data management, information policy, information systems integration, quality improvement, medical record processing, and operations management. The health information management sector of health care provides the knowledge, resources, and tools needed to advance professional standards and professional practice to ensure the delivery of quality health care.

#### **Program Vision and Mission Statements**

#### Vision

To empower healthcare communities in transforming healthcare through the application of health information management and information systems and to incorporate collaborative initiatives led by program students, faculty, and alumni.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### Mission

Grand Canyon University's BS Health Information Management program prepares graduates to promote quality health information for the benefit of the public, healthcare consumers, providers, and other users of clinical data. This mission is accomplished through a program that focuses on integrating Christian values and servant leadership.

#### **Degree Requirements**

Total General Education	34-40 credits
Health Information Management Major	78 credits
Total Electives	2-8 credits
Total Bachelor of Science in Health Information Management	120 credits
Health Information Management Major	
A 11 1 A	

Health Informa	ation Management Major	
BIO-191	Applied Anatomy and Physiology I	3 credits
BIO-191L	Applied Anatomy and Physiology I Lab	1 credit
BIO-192	Applied Anatomy and Physiology II	3 credits
BIO-192L	Applied Anatomy and Physiology II Lab	1 credit
MAT-274	Probability and Statistics	4 credits
BIO-335	Medical Terminology	2 credits
BIO-330	Pathophysiology and Pharmacology	4 credits
<u>CST-111</u>	Introduction to Computer Science and Information Technology	4 credits
<u>HIM-200</u> <sup>₹</sup>	Principles and Practices of Health Information Management	4 credits
<u>HIM-310</u>	Clinical Data Classification	4 credits
<u>HIM-350</u>	Classification of Diagnostic Data	4 credits
<u>HIM-355</u>	Classification of Procedural Data	4 credits
<u>SYM-400</u>	Introduction to Database Structures	4 credits
<u>HLT-364</u>	Research and Communication Techniques in Health Care and Science	4 credits
<u>HIM-370</u> <sup>₹</sup>	Health Care Information Systems	4 credits
<u>BIT-430</u>	Introduction to Business Analytics	4 credits
HIM-415	Clinical Data Management	4 credits
<u>HIM-452</u>	Quality Management in Health Care	4 credits
<u>HIM-430</u>	Data Governance	4 credits
<u>HIM-425</u>	Principles of Health Care Administration and Leadership	4 credits
MGT-434	Human Resources	4 credits

**Health Information** 

Health Information Management Major

Management Capstone

# <u>OTH-410CE</u> On-C

# **Bachelor of Science in Occupational Therapy Assistant**

The Bachelor of Science in Occupational Therapy Assistant program qualifies graduates to work in the occupational therapy field. These individuals will be trained to work under the supervision of an occupational therapist. Graduates will work with individuals who have emotional, developmental, and physical disabilities and teach them new methods or techniques to perform daily activities, maximize independent functioning, and improve quality of life. Course content is research-based and prepares students to meet the requirements for the National Board for Certification in Occupational Therapy.

#### **Degree Requirements**

Degree Requirements			
Total Genera	al Education	34-40 credits	
Occupationa	l Therapy Assistant Major	80 credits	
Total Electiv	ves	0-6 credits	
Total Bachel Therapy Ass	lor of Science in Occupational istant	120 credits	
Required Ger	neral Education		
PSY-102	General Psychology	4 credits	
COM-210	Public Speaking	4 credits	
Total Require	ed General Education	8 credits	
Occupational	Therapy Assistant Major		
BIO-201	Human Anatomy and Physiology I	3 credits	
BIO-201L	Human Anatomy and Physiology I: Lab	1 credits	
PSY-357	Lifespan Development	4 credits	
BIO-202	Human Anatomy and Physiology II	3 credits	
BIO-202L	Human Anatomy and Physiology II-	1 credits	
<u>OTH-100</u>	Lab Introduction to Occupational Therapy Assistant	4 credits	
EXS-335	Kinesiology	3 credits	
EXS-335L	Kinesiology Lab	1 credits	
BIO-335	Medical Terminology	2 credits	
OTH-300	Clinical Reasoning for	4 credits	
OTH-310	Occupational Therapy Assistant Evidence-Based Practice for Occupational Therapy Assistant	4 credits	
PSY-470	Abnormal Psychology	4 credits	
OTH-320	Mental Health Practice for Occupational Therapy Assistant	4 credits	
OTH-320CE	On-Campus Experience I	0 credits	
OTH-350	Leadership and Management for	4 credits	
<u>OTH-360</u>	Occupational Therapy Assistant Geriatric Practice for Occupational Therapy Assistant	4 credits	
OTH-370	Physical Rehab for Occupational Therapy Assistant	4 credits	
<u>OTH-370CE</u>	On-Campus Experience II	0 credits	
<u>OTH-400</u>	Pediatric Practice for Occupational Therapy Assistant	4 credits	
<u>OTH-410</u>	Neurological Rehab for Occupational Therapy Assistant	4 credits	
<u>OTH-410CE</u>	On-Campus Experience III	0 credits	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\it f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

4 credits

78 credits

HIM-490<sup>Ω</sup>

OTH-420	Advanced Topics for Occupational	4 credits
	Therapy Assistant	
OTH-440	Baccalaureate Project I	4 credits
OTH-445	Baccalaureate Project II and	4 credits
	NBCOT Exam Preparation	
OTH-490	Fieldwork Level II A and B	10 credits
Bachelor of	Science in Occupational Therapy	80 credits

Assistant Major

### **Bachelor of Science in Public Health**

Grand Canyon University's Bachelor of Science in Public Health program prepares students to work as public health practitioners in various health-related settings, including community-based organizations, government agencies, behavioral health agencies, primary care centers, and global or domestic nonprofit organizations. Public health practitioners focus on the prevention of communicable diseases, health education and promotion, and reducing the impact of environmental hazards. The discipline of public health provides the knowledge, resources, and tools needed to design and implement effective health promotion programs, including health education and policies for specific populations within the larger community. The Bachelor of Science in Public Health program also integrates the National Commission for Health Education Credentialing (NCHEC) Seven Areas of Responsibility for Health Education Specialists, addressing fundamental skills in community assessment, program planning, and program implementation and evaluation.

#### **Degree Requirements**

Total General Education	34-40 credits
Public Health Major	56 credits
Total Electives	24-30 credits
Total Bachelor of Science in Public Health	120 credits

Public Health Major			
COM-222	Small Group Communication	4 credits	
BIO-130	Introduction to Life Sciences I	4 credits	
PUB-200	Health Promotion and Disease Prevention	4 credits	
<u>PUB-240</u>	Environmental and Occupational Health and	4 credits	
<u>PSY-380</u>	Safety Introduction to Probability and Statistics	4 credits	
PSY-352	Health Psychology	4 credits	
<u>PUB-360</u>	Community Assessment and Planning	4 credits	
PUB-380	Epidemiological Research Design and Methods	4 credits	
PUB-390	Foundations in Global Health Practice	4 credits	
<u>PUB-410</u>	Implementation and Evaluation of Public Health Interventions	4 credits	
PUB-430	Public Health Data Systems and Informatics	4 credits	
PUB-450	Public Health Policy and Financing	4 credits	
<u>PUB-480</u>	Ethical Practice in Public Health	4 credits	

$\underline{\text{PUB-490}}^{\Omega}$	Public Health Capstone Project	4 credits
Public Health	n Major	56 credits

# **Bridge to Master of Science in Occupational Therapy**

The Bridge to the Master of Science in Occupational Therapy is designed to provide the necessary undergraduate coursework to meet the program prerequisite requirements for the Master of Science in Occupational Therapy.

#### **Degree Requirements**

PSY-102	General Psychology	4 credits
MAT-144	College Mathematics	4 credits
BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credit
BIO-202	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II Lab	1 credit
SOC-102	Principles of Sociology	4 credits
BIO-335	Medical Terminolgy	4 credits
MAT-274	Probability and Statistics	4 credits
PSY-470	Abnormal Psychology	4 credits
<u>PSY-357</u>	Lifespan Development	4 credits
Bridge to Ma	ster of Science in Occupational	34 credits

Bridge to Master of Science in Occupational

# **Health Care Professions: Graduate Programs**

# Master of Science in Athletic Training

The Master of Science in Athletic Training program prepares graduates for employment as athletic trainers in various clinical and educational settings including secondary schools, colleges and universities, rehabilitation clinics and hospitals, as well as emerging settings in amateur and professional sports. Students in this program participate in lecture, lab, simulation, and clinical experiences at athletic and rehabilitation facilities. Students are prepared in each of the five domains of professional practice: Domain 1) Injury and Illness Prevention and Wellness Promotion; Domain 2) Examination, Assessment, and Diagnosis; Domain 3) Immediate and Emergency Care; Domain 4) Therapeutic Intervention; and Domain 5) Health Care Administration and Professional Responsibility. Students who successfully complete the coursework are prepared to take the Board of Certification (BOC) exam.

<u>ATP-500</u>	Foundations of Professional	2 credits
ATP-500L	Practice and Athletic Training Foundations of Professional	1 credit
1111 0000	Practice and Athletic Training Lab	
ATP-510	Evaluation, Diagnosis, and	4 credits
	Pathophysiology of General	
	Medical Conditions	
ATP-515	Emergency Management for	3 credits
	Athletic Trainers	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>ATP-515L</u>	Response to Emergent and Immediate Injuries and Illnesses	1 credit
<u>ATP-511</u>	Lab Evaluation and Diagnosis of the Lower Kinetic Chain	3 credits
<u>ATP-511L</u>	Evaluation and Diagnosis of the Lower Kinetic Chain Lab	1 credit
<u>ATP-520</u>	Therapeutic Interventions I - Therapeutic Modalities	3 credits
<u>ATP-520L</u>	Therapeutic Interventions I - Therapeutic Modalities Lab	1 credit
<u>ATP-530</u>	Research Methods and Statistics for Athletic Trainers	2 credits
<u>ATP-551C</u>	Clinical Education in Athletic Training I	3 credits
<u>ATP-512</u>	Evaluation and Diagnosis of the Upper Kinetic Chain and Spine	3 credits
<u>ATP-512L</u>	Evaluation and Diagnosis of the Upper Kinetic Chain and Spine Lab	1 credit
<u>ATP-521</u>	Therapeutic Interventions II - Rehabilitation	3 credits
<u>ATP-521L</u>	Therapeutic Interventions II - Rehabilitation Lab	1 credit
ATP-540	Biomechanics in Sport	2 credits
<u>ATP-552C</u>	Clinical Education in Athletic Training II	3 credits
<u>ATP-610</u>	Healthcare Administration and Public Health	3 credits
<u>ATP-522</u>	Therapeutic Interventions III - Pharmacology and Advanced Interventions	3 credits
ATP-600C	Immersive Clinical Experience	4 credits
ATP-602	Research in Athletic Training I - Proposal and Methods	2 credits
<u>ATP-601</u>	Psychosocial Conditions and Interventions	2 credits
<u>ATP-553C</u>	Clinical Education in Athletic Training III	6 credits
<u>ATP-603</u>	Research in Athletic Training II - Applied Project/Capstone	2 credits
ATP-620	BOC Prep Course	2 credits
<u>ATP-554C</u>	Clinical Education in Athletic Training IV	4 credits
		C5 1'4

Master of Science in Athletic Training 65 credits

#### **Master of Public Health**

Public health is a multidisciplinary and collaborative field of study integrating the biological, social, psychological, anthropological, political, and environmental sciences to improve health outcomes among populations. There is a high demand for trained public health professionals as a result of the increased prevalence of chronic diseases, emerging and re-emerging infectious diseases, environmental health concerns, trends toward population health management in health care, health care reform, and global health concerns. Grand Canyon University's (GCU) Master of Public Health (MPH) program prepares graduates to apply public health theories to relevant and emerging health issues in order to develop, implement, lead, and evaluate health promotion and disease prevention programs through collaborative partnerships. The program prepares students for leadership positions in state and local health departments, international government agencies, nonprofit organizations, health policy and

planning organizations, health care organizations, universities, community-based education programs, and faith-based ministries addressing public health issues. The curriculum combines core subject areas like epidemiology, environmental health, quantitative analysis and interpretation, health policy, social and behavioral factors, planning, and evaluation with unique applications to community engagement and health ministry. The program culminates with a practicum and capstone project that students are able to design based on their professional interest area. The GCU MPH program is unique because the program focuses on integrating Christian values, servant leadership, and community engagement throughout the program.

## **Degree Requirements**

Degree Requ	in cincing	
$\underline{\text{UNV-506}^{\Omega}}$	Introduction to Graduate Studies in the Health Care Professions	2 credits
PUB-510	Foundations of Public Health	2 credits
<u>PUB-520</u>	Social and Behavioral Principles of Public Health	4 credits
PUB-540	Principles of Epidemiology	4 credits
<u>PUB-550</u>	Application and Interpretation of Public Health Data	4 credits
PUB-560	Environmental Impacts on Health	4 credits
<u>PUB-610</u>	Communication for Behavior Change	4 credits
<u>PUB-620</u>	Planning and Evaluation in Public Health	4 credits
PUB-650	Public Health Advocacy and Policy	4 credits
PUB-655	International Perspectives in Community Health	4 credits
<u>PUB-660</u>	Leadership and Management in Public Health	4 credits
<u>PUB-680</u> Ω	Public Health Practicum	4 credits
<u>PUB-690</u> Ω	Public Health Capstone	4 credits
Master of Public Health		48 credits

# Master of Science in Health Administration

The Master of Science in Health Administration (MSHA) provides the skills and experience necessary to perform as middle- and upper-level managers in a variety of health care organizations. Students also gain skills and experience necessary to serve as innovative change agents and leaders of organizational improvement and adaptation within the health care industry. The MSHA program emphasizes the conceptual, analytical, and application skills required to manage in contemporary health care organizations. Graduates prepare themselves for administrative positions in hospitals, long-term care facilities, outpatient facilities, physician offices, mental health agencies, insurance companies, public health agencies, and other types of health care organizations.

UNV- $506^{\Omega}$	Introduction to Graduate Studies in	2 credits
	the Health Care Professions	
HCA-515	Analysis of Contemporary Health	4 credits
	Care Delivery Models	
HLT-520	Legal and Ethical Principles in	4 credits
	Health Care	
HCA-530	Health Care Policies and Economics	4 credits
<u>HCA-540</u>	Health Care Research Methods, Analysis, and Utilization	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>HCA-545</u>	Organizational Structure, Dynamics, and Effectiveness	4 credits
LDR-600	Leadership Styles and Development	4 credits
HCA-610	Essential Health Care Business Analysis	4 credits
<u>HCA-615</u>	Human Resource Management and Marketing Communication	4 credits
IICA 616	Strategies Networking and Professional	2 credits
<u>HCA-616</u>	Readiness	2 credits
<u>HCA-620</u>	Business/Project Plan Evaluation and Development	4 credits
$\underline{HCA-650^{\Omega}}$	Evidence-Based Research Project	4 credits
<u>HCA-670<sup>Ω</sup></u>	Health Care Administration Practicum	4 credits

# Master of Science in Health Administration with an Emphasis in Health Care Quality and Patient Safety

48 credits

Master of Science in Health Administration

The Master of Science in Health Administration with an Emphasis in Health Care Quality and Patient Safety provides the skills and experience necessary to perform as middle- and upper-level managers in a variety of health care organizations. Students also gain skills and experience necessary to serve as innovative change agents and leaders of organizational improvement and adaptation within the health care industry. This program emphasizes the conceptual, analytical, and application skills required to manage in contemporary health care organizations. Students learn to apply analytical processes to improve health and patient safety outcomes. Graduates prepare themselves for administrative positions in hospitals, long-term care facilities, outpatient facilities, physician offices, mental health agencies, insurance companies, public health agencies, and other types of health care organizations.

# **Degree Requirements**

Degree Requ	ii ciiiciits	
$\underline{\text{UNV-506}^{\Omega}}$	Introduction to Graduate Studies in the Health Care Professions	2 credits
HCA-515	Analysis of Contemporary Health Care Delivery Models	4 credits
<u>HLT-520</u>	Legal and Ethical Principles in Health Care	4 credits
HCA-530	Health Care Policies and Economics	4 credits
<u>HCA-540</u>	Health Care Research Methods, Analysis, and Utilization	4 credits
<u>HCA-545</u>	Organizational Structure, Dynamics, and Effectiveness	4 credits
<u>LDR-600</u>	Leadership Styles and Development	4 credits
<u>HQS-610</u>	Foundations of Quality Improvement and Patient Safety	4 credits
<u>HCA-610</u>	Essential Health Care Business Analysis	4 credits
<u>HCA-615</u>	Human Resource Management and Marketing Communication Strategies	4 credits
<u>HCA-616</u>	Networking and Professional Readiness	2 credits
HQS-620	Project Management in Health Care	4 credits
<u>HCA-620</u>	Business/Project Plan Evaluation and Development	4 credits

HQS-630	Implementation and Change	4 credits
	Management	
$\frac{\text{HCA-}650^{\Omega}}{\text{C}}$	Evidence-Based Research Project	4 credits
$\underline{\text{HCA-670}^{\Omega}}$	Health Care Administration Practicum	4 credits
Master of Sc	eience in Health Administration with	60 credits
		oo cicuits
an Emphasis	in Health Care Quality and Patient	
Safety		

### Master of Science in Health Care Administration

The Master of Science in Health Care Administration (MSHCA) provides the skills and experience necessary to perform as middle- and upper-level managers in a variety of health care organizations, and to serve as innovative change agents and leaders of organizational improvement and adaptation within the health care industry. The MSHCA program emphasizes the conceptual, analytical, and application skills required to manage in contemporary health care organizations. Graduates prepare themselves for administrative positions in hospitals, long-term care facilities, outpatient facilities, physician offices, mental health agencies, insurance companies, public health agencies, and other types of health organizations.

### **Degree Requirements**

$UNV-504^{\Omega}$	Introduction to Graduate Studies in	2 credits
<u>HCA-515</u>	the College of Business Analysis of Contemporary Health Care Delivery Models	4 credits
HCA-530	Health Care Policies and Economics	4 credits
<u>HLT-520</u>	Legal and Ethical Principles in Health Care	4 credits
<u>HLT-540</u>	Health Care Research Methods, Analysis, and Utilization	4 credits
<u>HCA-545</u>	Organizational Structure, Dynamics, and Effectiveness	4 credits
<u>HCA-615</u>	Human Resource Management and Marketing Communication	4 credits
	Strategies Leadership Styles and Dayslopment	4 credits
<u>LDR-600</u>	Leadership Styles and Development	4 credits
<u>HCA-610</u>	Essential Health Care Business Analyses	4 credits
<u>HLT-610</u>	Networking and Professional Readiness	2 credits
<u>HCA-620</u>	Business/Project Plan Evaluation and Development	4 credits
HCA-675	Health Care Innovation	4 credits
<u>HCA-699<sup>Ω</sup></u>	Evidence-Based Research Project	4 credits
Master of Sc	ience in Health Care Administration	48 credits

#### Master of Science in Health Care Informatics

Health care informatics is a rapidly emerging discipline that offers new frontiers requiring innovative leadership. As health care reform begins to impact all areas of the health care system, greater attention is being focused on the value of health informatics in reducing health care costs, increasing access, and improving the quality of health care services. Health care informatics is quickly becoming vital to the growth and security of the United States' health care system. The integration of information technology into health care and the continuous changes in patient-care systems require professionals and leaders with training in clinical operations, data management systems,

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

health care system operations, project management, decision making, and quality assessment.

Graduates may perform a variety of functions for the organization, such as automating clinical care, building new operational data systems, training health care workers in the use of computer systems, collecting and analyzing data to improve patient care, etc. Depending on their areas of strength and focus, graduates may serve as project managers, project designers, researchers, systems analysts, or administrators and executives at all levels of the organization. Graduates may work in a variety of settings, including hospitals, primary care facilities, doctors' offices, insurance companies, pharmacies, technology suppliers, consulting firms, and more. Organizations of potential employment include the Centers for Disease Control and Prevention; National Institutes of Health; clinical data exchange insurance sites; the government's Military Health System (hospitals); Centers for Medicare & Medicaid Services; state health care; and informational technology vendors.

### **Degree Requirements**

$\underline{\text{UNV-}504^{\Omega}}$	Introduction to Graduate Studies in	2 credits
<u>HCA-515</u>	the College of Business Analysis of Contemporary Health Care Delivery Models	4 credits
HCA-530	Health Care Policies and Economics	4 credits
<u>HLT-520</u>	Legal and Ethical Principles in Health Care	4 credits
<u>HLT-540</u>	Health Care Research Methods, Analysis, and Utilization	4 credits
<u>HIM-515</u>	Foundations and Concepts of Health Care Informatics	4 credits
<u>HIM-615</u>	Health Care Information Systems and Technology	4 credits
HIM-650	Health Care Data Management	4 credits
HCA-610	Essential Health Care Business Analyses	4 credits
<u>HLT-610</u>	Networking and Professional Readiness	2 credits
HCA-620	Business/Project Plan Evaluation and Development	4 credits
HCA-675	Health Care Innovation	4 credits
<u>HCA-699<sup>Ω</sup></u>	Evidence-Based Research Project	4 credits
Master of Sc	ience in Health Care Informatics	48 credits

#### Master of Science in Health Informatics

Grand Canyon University's Master of Science in Health Informatics program prepares graduates for a variety of positions focused on integrating information technology into health care for the purposes of improving patient safety, satisfaction, and quality of health care services while reducing costs. Continuous changes in patient-care systems require professionals and leaders with training in clinical operations, data management systems, health care system operations, project management, decision making, and quality assessment. Graduates may perform a variety of functions within health care organizations, such as automating clinical care, building new operational data systems, training health care workers in the use of computer systems, and collecting and analyzing data to improve patient care. Depending on their areas of strength and focus, graduates may serve as informaticists, project managers, researchers, systems analysts, data analysts, or administrators and executives at all levels of the

organization. Graduates may work in a variety of settings, including hospitals, primary care facilities, doctors' offices, insurance companies, pharmacies, technology vendors, consulting firms, or governmental agencies.

### **Degree Requirements**

<u>UNV-506 Ω</u>	Introduction to Graduate Studies in	2 credits
<u>SYM-506</u>	the Health Care Professions Applied Business Probability and Statistics	4 credits
HCI-600	Foundations of Informatics	4 credits
<u>HIM-615</u>	Health Care Information Systems and Technology	4 credits
HIM-650	Health Care Data Management	4 credits
HCI-655	Electronic Health Records	4 credits
HCI-660	Health Data Analytics	4 credits
HCI-665	Health Information Systems Security	4 credits
HCI-670	User Interface Design for Informatics	4 credits
HCA-680	Leadership in Health Care	4 credits
<u>HCI-690 Ω</u>	Health Informatics Applied Project and Practicum	4 credits

# **Master of Science in Occupational Therapy**

Master of Science in Health Informatics

The Master of Science in Occupational Therapy (MS-OT) program focuses on preparing occupational therapy learners to become competent, client-centered, board-certified OT practitioners. Utilizing evidence-based, academic, and clinical curricula, this program fosters critical thinking and application of best practices. Through application and skill-based experiences, learners develop the skills and knowledge to promote quality of life and the health of people, populations, and communities in traditional and emerging practice settings. Course content is research-based and prepares the learner to meet the requirements for the National Board for Certification in Occupational Therapy.

42 credits

<u>OTH-500</u>	Introduction to Occupational Therapy	4 credits
<u>OTH-510</u>	Introduction to Evidence-Based Practice in Occupational Therapy	4 credits
<u>OTH-520</u>	Functional Anatomy and Physiology in Occupational Therapy	4 credits
OTH-520CE	On-Campus Experience I	0 credits
OTH-530	Neurological and Physiological Rehab in Occupational Therapy	4 credits
<u>OTH-540</u>	Psychosocial Practice in Occupational Therapy	4 credits
OTH-550	Occupational Analysis	4 credits
OTH-550CE	On-Campus Experience II	0 credits
<u>OTH-560</u>	Ethics and Professional Issues in Occupational Therapy	3 credits
<u>OTH-570</u>	Management and Leadership in Occupational Therapy	4 credits
OTH-580	Technology and Modalities in Occupational Therapy	3 credits
<u>OTH-590</u>	Pediatrics Occupational Therapy Foundations and Practice	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

OTH-590CE	On-Campus Experience III	0 credits
OTH-600	Clinical Reasoning	4 credits
<u>OTH-610</u>	Advanced Topics in Occupational Therapy	3 credits
<u>OTH-620</u>	Application of Occupational Therapy Practice	3 credits
<u>OTH-630</u>	Adult and Geriatric Occupational Therapy	4 credits
OTH-630CE	On-Campus Experience IV	0 credits
OTH-690	Level II A Fieldwork	10 credits
OTH-680	NBCOT Exam Prep I	3 credits
OTH-695	Level II B Fieldwork	10 Credits
OTH-685	NBCOT Exam Prep II	3 credits
Master of Sci	ence in Occupational Therapy	78 credits

# Master of Science in Speech-Language Pathology

The Master of Science in Speech-Language Pathology program (MS SLP) focuses on training speech-language pathologists to provide a full range of services to individuals with communication and swallowing disorders in a variety of settings. The program provides scientifically based academic and clinical curricula to foster critical thinking and application of best practices.

### **Degree Requirements**

SLP-500	Clinical and Research Methods	4 credits
SLP-510	Articulation and Phonology	4 credits
SLP-520	Dysphagia Across the Life Span	4 credits
<u>SLP-530</u>	Developmental Language Disorders: School Age	4 credits
<u>SLP-530CE</u>	On-Campus Experience I	0 credits
<u>SLP-540</u>	Cognitive-Communication Disorders	4 credits
<u>SLP-550</u>	Aphasia and Adult Neurogenic Disorders	4 credits
SLP-560	Motor Speech Disorders	4 credits

<u>SLP-570</u>	Developmental Language Disorders: Birth-5 Years	4 credits
SLP-570CE	On-Campus Experience II	0 credit
SLP-600	Autism and Neurodiversity	3 credits
<u>SLP-610</u>	Special Populations in Speech- Language Pathology and Clinical Practicum I	5 credits
SLP-610CE	On-Campus Experience III	0 credit
SLP-620	Augmentative and Alternative Communication	3 credits
<u>SLP-630</u>	Professional Issues, Cultural Considerations, and Ethics	3 credits
SLP-650	Clinical Practicum II	7 credits
<u>SLP-660</u>	Clinical Practicum III	7 credits
Master of Sc	ience in Speech-Language Pathology	60 credits

# Graduate Certificate of Completion in Health care Quality and Patient Safety

The Graduate Certificate of Completion in Health Care Quality and Patient Safety is designed for health care professionals seeking to acquire specific knowledge and skills in the areas of health care quality and patient safety. Courses in the certificate focus on nationally recognized expectations and metrics for quality, approaches to support quality improvement measures, and technologies that support clinical decision-making for patient safety.

HCA-540	Health Care Research Methods,	4 credits
	Analysis, and Utilization	
HQS-610	Foundations of Quality	4 credits
	Improvement and Patient Safety	
HQS-620	Project Management in Health Care	4 credits
HOS-630	Implementation and Change	4 credits
1105 000	Management	
Graduate Cer	rtificate of Completion in Health	16 credits
Care Quality	and Patient Safety	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# The College of Theology

# College Description

Christian Studies programs are designed to equip students with an understanding of the Bible and its historical and theological significance for the Christian faith, to prepare them for ministry, and to provide them with spiritual guidance. Students are equipped, as well, to relate to diverse other religions in global culture. The faculty is committed to helping students formulate their call to ministry by exploring the various directions that a call may take, and by helping students develop character and integrity in all aspects of life.

# College Mission

Grand Canyon University's College of Theology, in keeping with its commitment to the authority of the Bible as Scripture and the centrality of Jesus Christ, exists to resource, educate and equip students in theological scholarship, ethical integrity, effective leadership, and ministry in service to God, the Church, the academy, and the world.

# Christian Studies: Undergraduate Programs

# **Bachelor of Arts in Christian Ministry**

Grand Canyon University's Bachelor of Arts in Christian Ministry prepares students for pastoral leadership in the local church and other Christian ministries. This practically-oriented program is designed to equip students with the broad understandings and skills needed for faithful, Christian ministry. Graduates of this program will possess basic biblical and theological knowledge, understand the dynamics of pastoral leadership, develop Christian character, and acquire the skills needed for effective ministry. The core of this pre-seminary curriculum provides a well-rounded theological education with emphasis on personal and professional formation and the development of ministerial abilities. Coursework in biblical, theological, and historical studies is combined with practical courses in leadership, spiritual formation, communication, and ministry. Students learn how to apply biblical and theological truth personally and practically to life and ministry contexts. Ministry internships provide additional opportunities for students to connect sound doctrine and practical ministry experience within the context of local churches and ministries.

#### **Degree Requirements**

**Total General Education** 

Total Christian Ministry Major

	· · · · · · · · · · · · · · · · · · ·	
Total Electives		24-30 credits
Total Bachelor of Arts in Christian Ministry		120 credits
Christian M	inistry Major	
BIB-106	Old Testament Survey	4 credits
$\underline{\text{MIN-}104}^{\Omega}$	Pastoral Identity Lab	1 credit
BIB-107	New Testament Survey	4 credits
<u>MIN-114</u> Ω	Spiritual Formation Lab	1 credit
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
HTH-201	Christian Theology I	4 credits
<u>MIN-204</u> Ω	Relational Skills Lab	1 credit
BIB-350	Pentateuch	4 credits

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MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
MIN-480	Pastoral Leadership	4 credits
<u>HTH-475</u>	Applied Theology	4 credits
$\underline{\text{MIN-494}}^{\Omega}$	Ministry Internship	4 credits
<u>HTH-330</u> <sup>∆⁵</sup>	Christian Ethics	4 credits
MIN-320	Christian Character Formation	4 credits
<u>BIB-360</u>	Gospels and Acts	4 credits
$\underline{\text{MIN-214}}^{\Omega}$	Ministry Skills Lab	1 credit
<u>HTH-202</u>	Christian Theology II	4 credits

Christian Ministry Major

56 credits

# Bachelor of Arts in Christian Ministry (Accelerated Pathway to MDiv)

The Bachelor of Arts in Christian Ministry prepares students for pastoral leadership in the local church and other Christian ministries. This practically oriented program is designed to equip students with the broad understandings and skills needed for faithful, Christian ministry. Graduates of this program will possess basic biblical and theological knowledge, understand the dynamics of pastoral leadership, develop Christian character, and acquire the skills needed for effective ministry. The core of this pre-seminary curriculum provides a well-rounded theological education with emphasis on personal and professional formation and the development of ministerial abilities. Coursework in biblical, theological, and historical studies is combined with practical courses in leadership, spiritual formation, communication, and ministry. Students learn how to apply biblical and theological truth personally and practically to life and ministry contexts. Ministry internships provide additional opportunities for students to connect sound doctrine and practical ministry experience within the context of local churches and ministries. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

# **Degree Requirements**

Total General Education		34-40 credits
Total Christian Ministry (Accelerated Pathway to MDiv) Major		64 credits
Total Electives		16-22 credits
Total Bachelor of Arts in Christian Ministry (Accelerated Pathway to MDiv)		120 credits
Christian Ministry (Accelerated Pathway to MDiv) Major		
BIB-106	Old Testament Survey	4 credits
<u>MIN-104</u> Ω	Pastoral Identity Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

34-40 credits

56 credits

BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and	4 credits
$\underline{\text{MIN-}114}^{\Omega}$	Application Spiritual Formation Lab	1 credit
BIB-350	Pentateuch	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
$\underline{\text{MIN-204}}^{\Omega}$	Relational Skills Lab	1 credit
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
BIB-360	Gospels and Acts	4 credits
$\underline{\text{MIN-214}}^{\Omega}$	Ministry Skills Lab	1 credit
MIN-500	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
HTH-505	Systematic Theology I	4 credits
MIN-509	Christian Character Formation	4 credits
BIB-650	Biblical Hermeneutics	4 credits
HTH-475	Applied Theology	4 credits
MIN-526	Ministerial Ethics	4 credits
HTH-550	Systematic Theology II	4 credits
MIN-494	Ministry Internship	4 credits

Christian Ministry (Accelerated Pathway to MDiv) Major

#### **Bachelor of Arts in Christian Studies**

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry.

The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments.

#### **Degree Requirements**

Total General Education

Total General Education		31 To Credits
Total Christian Studies Major		48 credits
Total Electives		32-38 credits
Total Bachelor of Arts in Christian Studies		120 credits
Christian S	tudies Major	
BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
HTH-201	Christian Theology I	4 credits
<u>BIB-355</u> ∆	Biblical Interpretation and Application	4 credits
HTH-202	Christian Theology II	4 credits
BIB-350	Pentateuch	4 credits
MIN-320	Christian Character Formation	4 credits
INT-310 <sup>#</sup> ∆	Christianity in a Global Context	4 credits

BIB-360	Gospels and Acts	4 credits
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
Christian Stu	idies Major	48 credits

# **Bachelor of Arts in Christian Studies (Accelerated Pathway to MDiv)**

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies (Accelerated Pathway to MDiv) Major	56 credits
Total Electives	24-30 credits
Total Bachelor of Arts in Christian Studies	120 credits

(Accelerated Pathway to MDiv)

### Christian Studies (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
MIN-104	Pastoral Identity Lab	1 credit
BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and	4 credits
MIN-114	Application Spiritual Formation Lab	1 credit
BIB-350	Pentateuch	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
MIN-204	Relational Skills Lab	1 credit
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
BIB-360	Gospels and Acts	4 credits
MIN-214	Ministry Skills Lab	1 credit
MIN-500	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
HTH-505	Systematic Theology I	4 credits
MIN-509	Christian Character Formation	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
HTH-550	Systematic Theology II	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

34-40 credits

64 credits

Christian Studies (Accelerated Pathway to MDiv) 56 credits Major

# Bachelor of Arts in Christian Studies with an Emphasis in Biblical Studies

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry.

The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments.

Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Biblical Studies program are prepared for a variety of ministerial and leadership positions that require a depth of knowledge about the content of Scripture and the ability to communicate biblical teaching effectively. Coursework focuses on the study of the books and major divisions of the Bible, from the Genesis to Revelation, for the sake of teaching the Bible to a variety of audiences including student groups and congregations. This program of study is designed to equip students with the competencies necessary for service as faithful teachers, preachers, and Christian leaders in churches and Christian institutions.

#### **Degree Requirements**

with an Emphasis in Biblical Studies

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Biblical Studies Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Arts in Christian Studies	120 credits

# Christian Studies with an Emphasis in Biblical Studies Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
HTH-201	Christian Theology I	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
HTH-202	Christian Theology II	4 credits
BIB-350	Pentateuch	4 credits
MIN-320	Christian Character Formation	4 credits
<u>INT-310</u> <sup>‡∆</sup>	Christianity in a Global Context	4 credits
BIB-360	Gospels and Acts	4 credits
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≠</sup>	Christian Ethics	4 credits
BIB-370	Hebrew Poetical and Wisdom Literature	4 credits
BIB-455	Hebrew Prophets	4 credits

BIB-380	Pauline Epistles	4 credits
<u>BIB-465</u>	General Epistles	4 credits

64 credits

Christian Studies with and Emphasis in Biblical Studies Major

**Pathway to MDiv)** 

# Bachelor of Arts in Christian Studies with an Emphasis in Biblical Studies (Accelerated

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Biblical Studies program are prepared for a variety of ministerial and leadership positions that require a depth of knowledge about the content of Scripture and the ability to communicate biblical teaching effectively. Coursework focuses on the study of the books and major divisions of the Bible, from the Genesis to Revelation, for the sake of teaching the Bible to a variety of audiences including student groups and congregations. This program of study is designed to equip students with the competencies necessary for service as faithful teachers, preachers, and Christian leaders in churches and Christian institutions. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Biblical Studies (Accelerated Pathway to MDIV) Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Biblical Studies	120 credits

# Christian Studies with an Emphasis in Biblical Studies (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
MIN-104	Pastoral Identity Lab	1 credit
BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
MIN-114	Spiritual Formation Lab	1 credit
BIB-350	Pentateuch	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
MIN-204	Relational Skills Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
BIB-360	Gospels and Acts	4 credits
MIN-214	Ministry Skills Lab	1 credit
<u>MIN-500</u>	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
BIB-380	Pauline Epistles	4 credits
BIB-455	Hebrew Prophets	4 credits
HTH-505	Systematic Theology I	4 credits
MIN-509	Christian Character Formation	4 credits
BIB-650	Biblical Hermeneutics	4 credits
BIB-370	Hebrew Poetical and Wisdom Literature	4 credits
MIN-526	Ministerial Ethics	4 credits
HTH-550	Systematic Theology II	4 credits
BIB-465	General Epistles	4 credits

Christian Studies with and Emphasis in Biblical 72 credits Studies (Accelerated Pathway to MDiv) Major

# Bachelor of Arts in Christian Studies with an Emphasis in Global Ministry

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry.

The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments.

Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Global Ministry program are prepared for cross-cultural ministry in a variety of national and international contexts. Coursework for this emphasis introduces students to cross-cultural studies and provides them with the skills required for a contextualized gospel ministry. Students are equipped with biblical and theological foundations for mission work, an understanding of missions from a historical perspective, and the skills needed for effective communication of the gospel across cultures. This program of study is designed to equip students with competencies necessary for service as effective ministers and missions leaders in churches and mission agencies, in North American and international settings.

# **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in	64 credits
Global Ministry Major	
Total Electives	16-22 credits
Total Bachelor of Arts in Christian Studies	120 credits

# Christian Studies with an Emphasis in Global Ministry Major

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BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
<u>INT-244</u>	World Religions	4 credits
HTH-201	Christian Theology I	4 credits
HTH-202	Christian Theology II	4 credits
<u>BIB-355</u> ∆	Biblical Interpretation and Application	4 credits
BIB-350	Pentateuch	4 credits
<u>INT-320</u>	Evangelism and Discipleship	4 credits
MIN-320	Christian Character Formation	4 credits
<u>INT-310</u> <sup>₹</sup> Δ	Christianity in a Global Context	4 credits
BIB-360	Gospels and Acts	4 credits
<u>INT-450</u>	Anthropology for Cross-Cultural Ministry	4 credits
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
<u>INT-460</u>	Christianity and Culture	4 credits
Christian Stu	idies with and Emphasis in Global	64 credits

Christian Studies with and Emphasis in Global Ministry Major

# Bachelor of Arts in Christian Studies with an Emphasis in Global Ministry (Accelerated Pathway to MDiv)

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Global Ministry program are prepared for cross-cultural ministry in a variety of national and international contexts. Coursework for this emphasis introduces students to cross-cultural studies and provides them with the skills required for a contextualized gospel ministry. Students are equipped with biblical and theological foundations for mission work, an understanding of missions from a historical perspective, and the skills needed for effective communication of the gospel across cultures. This program of study is designed to equip students with competencies necessary for service as effective ministers and missions leaders in churches and mission agencies, in North American and international settings. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

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with an Emphasis in Global Ministry

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Global Ministry Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Arts in Christian Studies	120 credits

Total Bachelor of Arts in Christian Studio with an Emphasis in Global Ministry (Accelerated Pathway to MDiv)

### Christian Studies with an Emphasis in Global Ministry (Accelerated Pathway to MDiv) Major

<u>INT-244</u>	World Religions	4 credits
BIB-106	Old Testament Survey	4 credits
MIN-104	Pastoral Identity Lab	1 credit
BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
MIN-114	Spiritual Formation Lab	1 credit
BIB-350	Pentateuch	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≠</sup>	Christian Ethics	4 credits
MIN-204	Relational Skills Lab	1 credit
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
BIB-360	Gospels and Acts	4 credits
MIN-214	Ministry Skills Lab	1 credit
MIN-500	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
<u>INT-320</u>	Evangelism and Discipleship	4 credits
<u>INT-450</u>	Anthropology for Cross-Cultural Ministry	4 credits
HTH-505	Systematic Theology I	4 credits
MIN-509	Christian Character Formation	4 credits
BIB-650	Biblical Hermeneutics	4 credits
<u>INT-460</u>	Christianity and Culture	4 credits
MIN-526	Ministerial Ethics	4 credits
<u>HTH-550</u>	Systematic Theology II	4 credits
Christian Stu	idies with and Emphasis in Global	72 credits

### Bachelor of Arts in Christian Studies with an Emphasis in Philosophy

Ministry (Accelerated Pathway to MDiv) Major

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry.

The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments.

Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Philosophy program are equipped for ministry that requires ethical and ideological engagement in the public arena and are prepared for further study at the graduate level in preparation for a career in the church or academy. Coursework for this emphasis introduces students to philosophical studies in key areas including knowledge and reality, ethics, and philosophy of religion. Students are trained to analyze and assess ideas and ethical systems and express their understandings effectively to others. This program of study is designed to provide students with competencies necessary for service as effective ministers who are capable of engaging the public square and leading others to do the same.

### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in	64 credits
Philosophy Major Total Electives	16-22 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Philosophy	120 credits

### Christian Studies with an Emphasis in Philosophy Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
<u>PHI-103</u>	Introduction to Philosophy and Ethics	4 credits
HTH-201	Christian Theology I	4 credits
HTH-202	Christian Theology II	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
BIB-350	Pentateuch	4 credits
PHI-301	Knowledge and Reality	4 credits
MIN-320	Christian Character Formation	4 credits
<u>INT-310</u> <sup>≠</sup> Δ	Christianity in a Global Context	4 credits
BIB-360	Gospels and Acts	4 credits
PHI-307	Applied Ethics	4 credits
MIN-430 <sup>≠</sup>	Ministerial Communication	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
PHI-403	Philosophy of Religion	4 credits
Christian Stu	idies with and Emphasis in	64 credits

Christian Studies with and Emphasis in Philosophy Major

# Bachelor of Arts in Christian Studies with an Emphasis in Philosophy (Accelerated Pathway to MDiv)

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Philosophy program are equipped for ministry that requires ethical and ideological engagement in the public arena and are prepared for further study at the graduate level in preparation for a career in the church or academy. Coursework for this emphasis introduces students to philosophical studies in key areas including knowledge and reality, ethics, and philosophy of religion. Students are trained to analyze and assess ideas and ethical systems and express their understandings effectively to others. This program of study is designed to provide students with competencies necessary for service as effective ministers who are capable of engaging the public square and leading others to do the same. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Philosophy (Accelerated Pathway to MDiv) Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Philosophy (Accelerated Pathway to MDiy)	120 credits

### Christian Studies with an Emphasis in Philosophy (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
BIB-350	Pentateuch	4 credits
<u>BIB-355</u> ∆	Biblical Interpretation and Application	4 credits
BIB-360	Gospels and Acts	4 credits
<u>BIB-650</u>	Biblical Hermeneutics	4 credits
<u>HTH-330</u> Δ≉	Christian Ethics	4 credits
HTH-505	Systematic Theology I	4 credits
HTH-550	Systematic Theology II	4 credits
MIN-104	Pastoral Identity Lab	1 credits
MIN-114	Spiritual Formation Lab	1 credits
MIN-204	Relational Skills Lab	1 credits
MIN-214	Ministry Skills Lab	1 credits
MIN-430#	Ministerial Communication	4 credits
<u>MIN-500</u>	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
MIN-509	Christian Character Formation	4 credits
MIN-526	Ministerial Ethics	4 credits
<u>PHI-103</u>	Introduction to Philosophy and Ethics	4 credits
PHI-301	Knowledge and Reality	4 credits
PHI-307	Applied Ethics	4 credits

PHI-403	Philosophy of Religion	4 credits
Christian St	tudies with and Emphasis in	72 credits
Philosophy	(Accelerated Pathway to MDiv) Major	

### Bachelor of Arts in Christian Studies with an **Emphasis in Worship Leadership**

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Worship Leadership program are prepared for careers in worship ministry. Coursework emphasizes a biblical theology of worship and an exploration of various historical and contemporary approaches to worship while developing character and leadership skills for a faithful and fruitful worship ministry. This program of study is designed to equip students with competencies necessary for service as effective worship leaders within the church and other Christian worship environments.

### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Worship Leadership Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Worship Leadership	120 credits

### Christian Studies with an Emphasis in Worship Leadership

Major		
BIB-106	Old Testament Survey	4 credits
HTH-201	Christian Theology I	4 credits
BIB-107	New Testament Survey	4 credits
MIN-320	Christian Character Formation	4 credits
HTH-202	Christian Theology II	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≴</sup>	Christian Ethics	4 credits
BIB-350	Pentateuch	4 credits
BIB-360	Gospels and Acts	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
MIN-480	Pastoral Leadership	4 credits
<u>INT-310</u> <sup>₹</sup> Δ	Christianity in a Global Context	4 credits
<u>WSA-424</u> <sup>∆</sup>	Christian Worldview and Media	4 credits
<u>WSA-322</u> <sup>∆</sup>	Theology of Worship	4 credits
WSA-423	Worship Leadership	4 credits
MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Christian Studies with an Emphasis in Worship	64 credits
Leadership Major	

### Bachelor of Arts in Christian Studies with an Emphasis in Worship Leadership (Accelerated Pathway to MDiv)

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Worship Leadership program are prepared for careers in worship ministry. Coursework emphasizes a biblical theology of worship and an exploration of various historical and contemporary approaches to worship while developing character and leadership skills for a faithful and fruitful worship ministry. This program of study is designed to equip students with competencies necessary for service as effective worship leaders within the church and other Christian worship environments. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Worship Leadership (Accelerated Pathway to MDiv) Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Worship Leadership (Accelerated Pathway to MDiv)	120 credits

### Christian Studies with an Emphasis in Worship Leadership (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
BIB-350	Pentateuch	4 credits
<u>BIB-355</u> Δ	Biblical Interpretation and Application	4 credits
BIB-360	Gospels and Acts	4 credits
BIB-650	Biblical Hermeneutics	4 credits
<u>HTH-330</u> Δ≉	Christian Ethics	4 credits
HTH-505	Systematic Theology I	4 credits
HTH-550	Systematic Theology II	4 credits
MIN-104	Pastoral Identity Lab	1 credits
MIN-114	Spiritual Formation Lab	1 credits
MIN-204	Relational Skills Lab	1 credits

MIN-214	Ministry Skills Lab	1 credits
MIN-430#	Ministerial Communication	4 credits
MIN-480	Pastoral Leadership	4 credits
<u>MIN-500</u>	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
MIN-509	Christian Character Formation	4 credits
MIN-526	Ministerial Ethics	4 credits
<u>WSA-322</u> Δ	Theology of Worship	4 credits
WSA-423	Worship Leadership	4 credits
<u>WSA-424</u> Δ	Christian Worldview and Media	4 credits

Christian Studies with an Emphasis in Worship Leadership (Accelerated Pathway to MDiv) Major 72 credits

# Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry.

The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments.

Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry program are prepared for a variety of ministerial and leadership positions that require a solid biblical and theological foundation as well as skills related to ministerial leadership and ministry. Coursework in this program explores effective ways to lead students to Christ in their formative years, develops abilities to recognize times of crisis in the lives of young people, and cultivates skills for providing guidance and help as needed. This program of study is suited to students who have a passion for serving and would like to help youth develop their relationship with Jesus Christ and fulfill their calling to minister to young men and women in churches, high school programs, parachurch ministries, and other Christian organizations.

### **Degree Requirements**

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in Youth Ministry Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry	120 credits

### Christian Studies with an Emphasis in Youth Ministry Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
HTH-201	Christian Theology I	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

HTH-202	Christian Theology II	4 credits
BIB-350	Pentateuch	4 credits
MIN-320	Christian Character Formation	4 credits
INT-310 <sup>≠</sup> Δ	Christianity in a Global Context	4 credits
BIB-360	Gospels and Acts	4 credits
 MIN-430 <sup>‡</sup>	Ministerial Communication	4 credits
HTH-350 <sup>‡</sup>	Survey of Historical Theology	4 credits
HTH-330 <sup>∆‡</sup>	Christian Ethics	4 credits
YMN-305	Philosophy and Theology of Youth	4 credits
<u>YMN-355</u>	Ministry Adolescent Development and Faith Formation	4 credits
YMN-455	Adolescent Issues and Intervention	4 credits
<u>YMN-350</u>	Leadership and Administration in Youth Ministry	4 credits
Christian Stu	idies with an Emphasis in Youth	64 credits

### **Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry (Accelerated** Pathway to MDiv)

Christian Studies with an Emphasis in Youth

Ministry Major

The Bachelor of Arts in Christian Studies is designed to prepare students for careers in ministry within the church, on the mission field, or within Christian organizations. Graduates of this program will possess a strong foundation of biblical and theological knowledge, will develop spiritually and professionally, and will gain communication and leadership skills necessary for effective ministry. The core of the Bachelor of Arts in Christian Studies program is designed to offer a well-rounded theological education and to equip students with the basic knowledge and skills required for faithful ministry. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian environments. Graduates of the Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry program are prepared for a variety of ministerial and leadership positions that require a solid biblical and theological foundation as well as skills related to ministerial leadership and ministry. Coursework in this program explores effective ways to lead students to Christ in their formative years, develops abilities to recognize times of crisis in the lives of young people, and cultivates skills for providing guidance and help as needed. This program of study is suited to students who have a passion for serving and would like to help youth develop their relationship with Jesus Christ and fulfill their calling to minister to young men and women in churches, high school programs, parachurch ministries, and other Christian organizations. This is an accelerated program (3+2) which requires a 12-month program of study and entails undergraduate and graduate coursework. Graduates will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

### **Degree Requirements**

**Total Electives** 

Total General Education	34-40 credits
Total Christian Studies with an Emphasis in	72 credits
Youth Ministry (Accelerated Pathway to	
MDIV) Major	

120 credits Total Bachelor of Arts in Christian Studies with an Emphasis in Youth Ministry (Accelerated Pathway to MDiv)

### Christian Studies with an Emphasis in Youth Ministry (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
BIB-350	Pentateuch	4 credits
<u>BIB-355</u> Δ	Biblical Interpretation and Application	4 credits
BIB-360	Gospels and Acts	4 credits
BIB-650	Biblical Hermeneutics	4 credits
<u>HTH-330</u> Δ≉	Christian Ethics	4 credits
HTH-505	Systematic Theology I	4 credits
HTH-550	Systematic Theology II	4 credits
MIN-104	Pastoral Identity Lab	1 credits
MIN-114	Spiritual Formation Lab	1 credits
MIN-204	Relational Skills Lab	1 credits
MIN-214	Ministry Skills Lab	1 credits
MIN-430*	Ministerial Communication	4 credits
MIN-500	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
MIN-509	Christian Character Formation	4 credits
MIN-526	Ministerial Ethics	4 credits
<u>YMN-305</u>	Philosophy and Theology of Youth Ministry	4 credits
<u>YMN-350</u>	Leadership and Administration in Youth Ministry	4 credits
<u>YMN-355</u>	Adolescent Development and Faith Formation	4 credits
<u>YMN-455</u>	Adolescent Issues and Intervention	4 credits

Christian Studies with an Emphasis in Youth Ministry (Accelerated Pathway to MDiv) Major 76 credits

### **Undergraduate Certificate in Biblical Studies**

The Undergraduate Certificate in Biblical Studies provides students with basic biblical knowledge and the skills necessary understandings necessary to rightly interpret Scripture. Coursework focuses on a comprehensive survey of the Old and New Testaments, biblical interpretation, and exegesis of selected books of the Bible. This program of study is designed to equip students with the competencies necessary for service as faithful biblical teachers and Christian leaders in churches and other Christian organizations.

### **Degree Requirements**

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation and Application	4 credits
<u>BIB-360</u>	Gospels and Acts	4 credits
Undergraduate Certificate in Biblical Studies		16 credits

8-14 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **Undergraduate Certificate in Christian Theology**

The Undergraduate Certificate in Christian Theology provides students with foundational understandings of basic Christian theology and the Christian life. Coursework focuses on theological methodology, essential doctrine, historical understandings of Christian thought, and the formation of a character and way of life that accords with sound doctrine. This program of study is designed to equip students with healthy, biblically-grounded understandings of God, humanity, Christ, salvation, and the church in order to serve as faithful teachers and leaders in churches and other Christian organizations.

### **Degree Requirements**

HTH-201	Christian Theology I	4 credits
HTH-202	Christian Theology II	4 credits
HTH-350*	Survey of Historical Theology	4 credits
<u>HTH-475</u>	Applied Theology	4 credits

Undergraduate Certificate in Christian Theology 16 credits

# **Undergraduate Certificate in Christian Worldview Studies**

The Undergraduate Certificate in Christian Worldview Studies equips students with the knowledge and dispositions for faithfully integrating the Christian vision for the world into their life and vocation. Coursework focuses on foundational biblical knowledge, advanced worldview studies, the Christian life, life in community, and the development of an ability to engage the culture rationally and winsomely with biblical truth. This program of study is designed to enable students to authentically follow Jesus in ways that are contextually-wise and biblically-informed in ways that are transformative within the communities where they live and serve.

#### **Degree Requirements**

BIB-100	Bible Survey	4 credits
<u>CWV-101<sup>Ω</sup></u>	Christian Worldview	4 credits
CWV-316	Christian Life: The Way of Jesus	4 credits
<u>INT-460</u>	Christianity and Culture	4 credits
Undergradua	te Certificate in Christian	16 credits

Undergraduate Certificate in Christian Worldview Studies

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# Worship Arts: Undergraduate Programs

The Bachelor of Arts in Worship Arts is a 120-credit-hour degree designed to prepare students for careers in contemporary worship ministry and the Christian music industry. Worship Arts refers not only to worship leadership within local churches but, more broadly, to performance, visual media, production, and the business aspects of the contemporary Christian music industry. Students who graduate from this program will possess a strong foundation of biblical and theological knowledge and will be skilled in worship leadership, musical performance, production, and business management.

The core of the worship arts program is designed to offer a well-rounded theological education and to equip students with basic knowledge and skills in the areas of vocal and instrumental performance, production (lighting, digital film, sound systems,

and recording), management and marketing, and worship leadership. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian worship environments.

### Bachelor of Arts in Worship Arts with an Emphasis in Media and Production Ministry

Grand Canyon University's Bachelor of Arts in Worship Arts is designed to prepare students for careers in worship leadership, ministry, technical direction, and production. Worship Arts refers not only to worship leadership within local churches but, more broadly, to songwriting, performance, media, production, and technical direction. The core of the Worship Arts program is designed to offer a well-rounded theological education and to equip students with basic knowledge and skills in the areas of worship leadership, performance, lighting, media, and sound production. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian worship environments. Students who graduate from this program will possess a strong foundation of biblical and theological knowledge and will be skilled in worship leadership, ministry, production, and the technical aspects of worship arts. In addition to the core, students will choose an emphasis in either Worship Ministry or Media and Production Ministry depending on their desired area of specialization. Graduates of the Bachelor of Arts in Worship Arts with an Emphasis in Media and Production Ministry are prepared to provide vital leadership and creative direction for worship services through media, audio/visual production, and technical direction. This degree emphasizes ministerial leadership in the areas of technical ability, artistic excellence, and production. Upon completion of the program, students will possess a strong foundation of biblical and theological knowledge and will be prepared to lead in the areas of media and production ministry. Coursework emphasizes media and production ministry for contemporary worship, sound recording and reinforcement, and audio/visual direction. Students study lighting design, technical direction, media preparation and presentation, sound and lighting enhancements, and stage and set design while learning to coordinate instrumentalists, vocalists, and audio/visual teams. Significant emphasis is placed on project management, team building, and effective leadership. An internship provides learners with diverse opportunities to apply their knowledge and continue to develop their worship arts skills under the supervision of experienced worship pastors in local ministry settings.

### **Degree Requirements**

Total General Education	34-40 credits
Total Worship Arts with an Emphasis in Media and Production Ministry Major	64 credits
Total Electives	16-22 credits
Total Bachelor of Arts in Worship Arts with an Emphasis in Media and Production Ministry	120 credits

### Worship Arts with an Emphasis in Media and Production Ministry Major

BIB-106	Old Testament Survey	4 credits
WSA-123	Church Audio	4 credits
WSA-116 $\Omega$	Worship Leader Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

WSA-320	Digital Audio Workstation	4 credits
DDN-101	Design Thinking	4 credits
BIB-107	New Testament Survey	4 credits
$MIN-114^{\Omega}$	Spiritual Formation Lab	1 credit
WSA-420	Audio Recording	4 credits
HTH-201	Christian Theology I	4 credits
<u>WSA-206<sup>Ω</sup></u>	Worship Formation Lab	1 credit
WSA-425	Audio Reinforcement	4 credits
HTH-202	Christian Theology II	4 credits
$MIN-214^{\Omega}$	Ministry Skills Lab	1 credit
WSA-423	Worship Leadership	4 credits
WSA-334	Stagecraft and Lighting for Contemporary Worship	4 credits
WSA-322	Theology of Worship	4 credits
<u>HTH-330</u> <sup>‡</sup>	Christian Ethics	4 credits
WSA-345	Digital Film Production	4 credits
<u>WSA-429<sup>Ω</sup></u>	Worship Arts Internship	4 credits

64 credits Bachelor of Arts in Worship Arts with an Emphasis in Media and Production Ministry Major

### **Bachelor of Arts in Worship Arts with an Emphasis in Media & Production (Accelerated** Pathway to MDiv)

The Bachelor of Arts in Worship Arts is designed to prepare students for careers in worship leadership, ministry, technical direction, and production. Worship Arts refers not only to worship leadership within local churches but, more broadly, to songwriting and performance. The core of the Worship Arts program is designed to offer a well-rounded theological education and to equip students with basic knowledge and skills in the areas of worship leadership. Attention is also given to the inward formation of Christlike character and an ability to minister with wisdom and sensitivity within the local church and in other Christian worship environments. Students who graduate from this program will possess a strong foundation of biblical and theological knowledge and will be skilled in worship ministry. Graduates of the Bachelor of Arts in Worship Arts with an Emphasis in Media and Production Ministry are prepared to provide vital leadership and creative direction for worship services through media, audio/visual production, and technical direction. This degree emphasizes ministerial leadership in the areas of technical ability, artistic excellence, and production. Upon completion of the program, students will possess a strong foundation of biblical and theological knowledge and will be prepared to lead in the areas of media and production ministry. Coursework emphasizes media and production ministry for contemporary worship, sound recording and reinforcement, and audio/visual direction. Students study lighting design, technical direction, media preparation and presentation, sound and lighting enhancements, and stage and set design while learning to coordinate instrumentalists, vocalists, and audio/visual teams. Significant emphasis is placed on project management, team building, and effective leadership. A capstone internship provides learners with diverse opportunities to apply their knowledge and continue to develop their worship arts skills under the supervision of experienced worship pastors in local ministry settings. This

program is part of an accelerated BA to MDiv (3+2) which requires a 12-month program of study. Graduates of the entire accelerated program will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

### **Degree Requirements**

Total General Education	34-40 credits
Total Worship Arts with an Emphasis in Media & Production (Accelerated Pathway to MDiv) Major	76 credits
	4 10 11
Total Electives	4-10 credits

### Worship Arts with an Emphasis in Media & Production (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
WSA-123	Church Audio	4 credits
$\overline{\text{WSA-116}^{\Omega}}$	Worship Leader Lab	1 credit
BIB-107	New Testament Survey	4 credits
$\underline{\text{MIN-}114^{\Omega}}$	Spiritual Formation Lab	1 credit
WSA-334	Stagecraft and Lighting for Contemporary Worship	4 credits
DDN-101	Design Thinking	4 credits
WSA-320	Digital Audio Workstation	4 credits
HTH-330 <sup>‡</sup>	Christian Ethics	4 credits
$\overline{\text{WSA-206}^{\Omega}}$	Worship Formation Lab	1 credit
WSA-420	Audio Recording	4 credits
MIN-500	Enchiridion on Ministry: Purpose,	4 credits
<u> </u>	Principles, and Practice	
$\frac{\text{MIN-214}^{\Omega}}{\text{MIN-214}^{\Omega}}$	Principles, and Practice Ministry Skills Lab	1 credit
	1 ,	1 credit 4 credits
<u>MIN-214<sup>Ω</sup></u>	Ministry Skills Lab	
$\frac{\text{MIN-}214^{\Omega}}{\text{WSA-}345}$	Ministry Skills Lab Digital Film Production	4 credits
MIN-214 <sup>Ω</sup> WSA-345 WSA-425	Ministry Skills Lab Digital Film Production Audio Reinforcement	4 credits 4 credits
MIN-214 <sup>Ω</sup> WSA-345 WSA-425 BIB-650	Ministry Skills Lab Digital Film Production Audio Reinforcement Biblical Hermeneutics	4 credits 4 credits 4 credits
MIN-214 <sup>Ω</sup> WSA-345 WSA-425 BIB-650 HTH-505	Ministry Skills Lab Digital Film Production Audio Reinforcement Biblical Hermeneutics Systematic Theology I	4 credits 4 credits 4 credits 4 credits
MIN-214 <sup>Ω</sup> WSA-345 WSA-425 BIB-650 HTH-505 WSA-322	Ministry Skills Lab Digital Film Production Audio Reinforcement Biblical Hermeneutics Systematic Theology I Theology of Worship	4 credits 4 credits 4 credits 4 credits 4 credits 4 credits
MIN-214 <sup>Ω</sup> WSA-345 WSA-425 BIB-650 HTH-505 WSA-322 MIN-526	Ministry Skills Lab Digital Film Production Audio Reinforcement Biblical Hermeneutics Systematic Theology I Theology of Worship Ministerial Ethics	4 credits

Bachelor of Arts in Worship Arts with an Emphasis in Media & Production (Accelerated Pathway to MDiv)

### Bachelor of Arts in Worship Arts with an **Emphasis in Worship Ministry**

Grand Canyon University's Bachelor of Arts in Worship Arts is designed to prepare students for careers in worship leadership, ministry, technical direction, and production. Worship Arts refers not only to worship leadership within local churches but, more broadly, to songwriting, performance, media, production, and technical direction. The core of the Worship Arts program is designed to offer a well-rounded theological education and to

76 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

equip students with basic knowledge and skills in the areas of worship leadership, performance, lighting, media, and sound production. Attention is also given to the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the local church and in other Christian worship environments. Students who graduate from this program will possess a strong foundation of biblical and theological knowledge and will be skilled in worship leadership, ministry, production, and the technical aspects of worship arts. In addition to the core, students will choose an emphasis in either Worship Ministry or Media and Production Ministry depending on their desired area of specialization. Graduates of the Bachelor of Arts in Worship Arts with an Emphasis in Worship Ministry program are prepared for careers in worship leadership and ministry. This program emphasizes creativity, artistry, musical ability, and performance in addition to ministerial preparation and leadership skills. Upon completion of the program, students will possess a strong foundation of biblical and theological knowledge and will be capable of coordinating and leading corporate worship, songwriting and arranging, and musical performance. Coursework emphasizes musical direction for contemporary worship, fundamentals of music theory for contemporary worship, song writing and arranging, mastery training in a primary performance instrument, and proficiency training in a secondary instrument. An internship provides learners with diverse opportunities to apply their knowledge and continue to develop their worship ministry skills under the supervision of experienced worship leaders in local ministry settings.

### **Degree Requirements**

Total General Education	34-40 credits
Total Worship Arts with an Emphasis in	64 credits
Worship Ministry Major Total Electives	16-22 credits
T-t-1 D1-1 f A-t- i- Wi- A-tith	120 credits

Total Bachelor of Arts in Worship Arts with an Emphasis Worship Ministry

#### Worship Arts with an Emphasis in Worship Ministry Major

WSA-300	Musical Structures I	4 credits
BIB-106	Old Testament Survey	4 credits
WVA-111	Private Voice Study I	1 credit
WSA-116 <sup>Ω</sup>	Worship Leader Lab	1 credit
WSA-301	Musical Structures II	4 credits
BIB-107	New Testament Survey	4 credits
WVA-112	Private Voice Study II	1 credit
$\underline{\text{MIN-}114^{\Omega}}$	Spiritual Formation Lab	1 credit
WSA-123	Church Audio	4 credits
HTH-201	Christian Theology I	4 credits
WVA-211	Private Voice Study III	1 credit
$\overline{\text{WSA-206}^{\Omega}}$	Worship Formation Lab	1 credit
WSA-302	Songwriting and Arranging	4 credits
HTH-202	Christian Theology II	4 credits
WSA-320	Digital Audio Workstation	4 credits
WVA-212	Private Voice Study IV	1 credit
$\underline{\text{MIN-214}^{\Omega}}$	Ministry Skills Lab	1 credit
<u>WSA-331</u>	Introduction to Worship Arts Software	4 credits

WSA-423	Worship Leadership	4 credits
WSA-322	Theology of Worship	4 credits
HTH-330	Christian Ethics	4 credits
<u>WSA-429<sup>Ω</sup></u>	Worship Arts Internship	4 credits
Bachelor of	Arts in Worship Arts with an	64 credits

Bachelor of Arts in Worship Arts with an Emphasis in Worship Ministry Major

### Bachelor of Arts in Worship Arts with an Emphasis in Worship Ministry (Accelerated Pathway to MDiv)

The Bachelor of Arts in Worship Arts is designed to prepare students for careers in worship leadership, ministry, technical direction, and production. Worship Arts refers not only to worship leadership within local churches but, more broadly, to songwriting and performance. The core of the Worship Arts program is designed to offer a well-rounded theological education and to equip students with basic knowledge and skills in the areas of worship leadership. Attention is also given to the inward formation of Christlike character and an ability to minister with wisdom and sensitivity within the local church and in other Christian worship environments. Students who graduate from this program will possess a strong foundation of biblical and theological knowledge and will be skilled in worship ministry. Emphasis in Worship Ministry Graduates of the Bachelor of Arts in Worship Arts with an Emphasis in Worship Ministry program are prepared for careers in worship leadership and ministry. This program emphasizes creativity, artistry, musical ability, and performance in addition to ministerial preparation and leadership skills. Upon completion of the program, students will possess a strong foundation of biblical and theological knowledge and will be capable of coordinating and leading corporate worship, songwriting and arranging, and musical performance. Coursework emphasizes musical direction for contemporary worship, fundamentals of music theory for contemporary worship, song writing and arranging, mastery training in a primary performance instrument, and proficiency in a secondary instrument. An internship provides learners with diverse opportunities to apply their knowledge and continue to develop their worship ministry skills under the supervision of experienced worship leaders in local ministry settings. This program is part of an accelerated BA to MDiv (3+2) which requires a 12-month program of study. Graduates of the entire accelerated program will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements.

### **Degree Requirements**

Total General Education	34-40 credits
Total Worship Arts with an Emphasis in Worship Ministry (Accelerated Pathway to MDiy) Major	76 credits
Total Electives	4-10 credits
Total Bachelor of Arts in Worship Arts with an Emphasis Worship Ministry (Accelerated Pathway to MDiv)	120 credits
Worshin Arts with an Emphasis in Worshin M	linistry

### Worship Arts with an Emphasis in Worship Ministry (Accelerated Pathway to MDiv) Major

BIB-106	Old Testament Survey	4 credits
$\overline{\text{WSA-116}^{\Omega}}$	Worship Leader Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

WSA-123	Church Audio	4 credits
WSA-331	Introduction to Worship Arts Software	4 credits
WVA-111	Private Voice Study I	1 credit
BIB-107	New Testament Survey	4 credits
$\underline{\text{MIN-}114^{\Omega}}$	Spiritual Formation Lab	1 credit
WSA-320	Digital Audio Workstation	4 credits
WSA-302	Songwriting and Arranging	4 credits
WVA-112	Private Voice Study II	1 credit
HTH-330	Christian Ethics	4 credits
<u>WSA-206<sup>Ω</sup></u>	Worship Formation Lab	1 credit
WSA-300	Musical Structures I	4 credits
WVA-211	Private Voice Study III	1 credit
<u>MIN-500</u>	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
$\underline{\text{MIN-214}^{\Omega}}$	Ministry Skills Lab	1 credit
WSA-301	Musical Structures II	4 credits
WVA-212	Private Voice Study IV	1 credit
<u>HTH-505</u>	Systematic Theology I	4 credits
BIB-650	Biblical Hermeneutics	4 credits
WSA-322	Theology of Worship	4 credits
MIN-526	Ministerial Ethics	4 credits
HTH-550	Systematic TheologyII	4 credits
WSA-423	Worship Leadership	4 credits
WSA-429	Worship Arts Internship	4 credits

Bachelor of Arts in Worship Arts with an Emphasis in Worship Ministry (Accelerated Pathway to MDiv) Major

Christian Studies: Graduate Programs

### **Master of Arts in Christian Leadership**

Grand Canyon University's Masters of Arts in Christian Leadership degree is designed for individuals who plan to provide distinctively Christian leadership within various contexts, including church, parachurch, non-profit organizations, business, community, and public service contexts. This degree program offers basic biblical knowledge, practical theology, and skills necessary for effective leadership in order to make maximum impact for God's kingdom.

Curriculum for the Masters of Arts in Christian Leadership degree explores Old and New Testament foundations, biblical interpretation, Christian doctrine, ministerial ethics, and various styles of leadership. Coursework also guides students through the process of developing theologically sound strategies for leading in ways that align well with the needs of the community and individual giftedness.

This degree prepares students with the knowledge and skills necessary for service as Christian leaders within the church or the community. Students complete the program with foundational understandings and the ability to apply those understandings practically in leadership settings. The program teaches how to

lead with Christ-like character through good times and through crises. It was created for those with a passion for biblical leadership who intend to serve faithfully within their church or community. Supervised ministry field experiences are embedded throughout the coursework to apply the program's concepts, theories, and research into real-world contexts.

### **Degree Requirements**

$\underline{\text{UNV-505}^{\Omega}}$	Introduction to Graduate Studies in Ministry and Theology	2 credits
BIB-501	Old Testament Foundations	4 credits
BIB-502	New Testament Foundations	4 credits
HTH-515	Christian Doctrines	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
CHL-510	Biblical Foundations of Christian Leadership	4 credits
<u>CHL-630</u>	Best Practices in Christian Leadership	4 credits
HTH-620	Practical Theology	4 credits
<u>CHL-650</u>	Leading Through Crisis, Conflict and Change	4 credits

Master of Arts in Christian Leadership

38 credits

### **Master of Arts in Christian Ministry**

Grand Canyon University's Masters of Arts in Christian Ministry degree prepares graduates to provide spiritual guidance and care to members of their church or Christian organization. This program is designed for those who are called to part-time, bivocational, or lay ministry and require theological training to lead in the local church.

Curriculum for the Masters of Arts in Christian Ministry degree explores Old and New Testament foundations, biblical interpretation, Christian doctrine, ministerial ethics, and basic pastoral care. Coursework also guides students through the process of preparing spiritually and professionally in order to shepherd others with grace, compassion, and skill.

This degree prepares students with the knowledge and skills necessary for service as assistant pastors, pastoral associates, administrative pastors, Bible study leaders, deacons, lay elders, or in various supporting roles related to Christian ministry and service. Students complete the program with foundational understandings and the ability to apply those understandings within the context of Christian ministry. The program teaches how to provide pastoral care that centers on the gospel of Jesus Christ, edifies the Christian community, and serves the needs of those inside and outside of the local church. It was developed for the lay person with a passion for Christ-like service and ministry. Supervised ministry field experiences are embedded throughout the coursework to apply the program's concepts, theories, and research into real-world contexts.

### **Degree Requirements**

UNV- $505^{\Omega}$	Introduction to Graduate Studies in	2 credits
	Ministry and Theology	
BIB-501	Old Testament Foundations	4 credits
BIB-502	New Testament Foundations	4 credits
HTH-515	Christian Doctrines	4 credits
BIB-650	Biblical Hermeneutics	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

76 credits

MIN-526	Ministerial Ethics	4 credits
MIN-515	Pastoral Care in a Ministry Context	4 credits
MIN-535	Communicating in a 21st-Century Ministry Context	4 credits
HTH-620	Practical Theology	4 credits
MIN-655	Leading and Organizing Ministries in the Church	4 credits

Master of Arts in Christian Ministry

38 credits

### **Master of Arts in Urban Ministry**

Grand Canyon University's Masters of Arts in Urban Ministry degree was created for individuals with a heart for the city who are concerned to meet spiritual needs in urban settings. This degree program features basic biblical knowledge, practical theology, and the skills necessary to address the unique needs that arise in urban contexts.

Curriculum for the Masters of Arts in Urban Ministry degree explores Old and New Testament foundations, biblical interpretation, Christian doctrine, and ministerial ethics. Coursework also provides students the ability to contextualize the Christian message without compromising the integrity of the gospel. Emphasis is placed on the dynamics of urban communities, challenges facing the church today, and the need to minister to people holistically through the power of the gospel while maintaining the priorities of evangelism and discipleship.

Students complete the program with foundational understandings and the ability to apply those understandings within urban contexts. Inner cities can present a unique set of issues and circumstances. Graduates of the program are prepared to address these specific challenges and offer guidance to urban communities. This program is also appropriate for those interested in working at a suburban church with an outreach to urban church counterparts, those who wish to work for a nonprofit, or individuals interested in starting their own nonprofit ministry in an urban setting. Supervised ministry field experiences are embedded throughout the coursework to apply the program's concepts, theories, and research into real-world contexts.

### **Degree Requirements**

$\underline{\text{UNV-505}^{\Omega}}$	Introduction to Graduate Studies in Ministry and Theology	2 credits
BIB-501	Old Testament Foundations	4 credits
BIB-502	New Testament Foundations	4 credits
HTH-515	Christian Doctrines	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
<u>INT-510</u>	Biblical Foundations of Urban Ministry	4 credits
<u>INT-625</u>	Multicultural Ministry and Contextualization	4 credits
HTH-620	Practical Theology	4 credits
<u>INT-630</u>	Issues in Urban Ministry	4 credits

### Master of Arts in Youth and Family Ministry

Grand Canyon University's Masters of Arts in Youth and Family Ministry degree is designed for people who have a passion for discipleship that addresses the key stages of human development, from childhood through adulthood. This degree program offers basic biblical knowledge, practical theology, and skills necessary for effective ministry to youth and families within the local church or a Christian organization.

Curriculum for the Masters of Arts in Youth and Family Ministry degree explores Old and New Testament foundations, biblical interpretation, Christian doctrine, and ministerial ethics. Coursework also guides students through the process of learning to apply biblical and theological principles within the context of ministry to specific groups and members of families. Special emphasis is placed on learning to listen and guide youth and their families through the challenging years of pre-adult growth and development.

This degree prepares students with the knowledge and skills necessary for service as youth leaders, children's ministers, assistant pastors, family ministers, or para-church leaders. Students complete the program with foundational understandings and the ability to apply those understandings within the context of youth and family ministry. The program teaches how to provide biblical care that centers on the gospel of Jesus Christ while meeting the unique needs of family life and personal development at each of life's stages. It was created for those with a strong desire to provide discipleship that addresses today's challenges with godly wisdom. Supervised ministry field experiences are embedded throughout the coursework to apply the program's concepts, theories, and research into real-world contexts.

### **Degree Requirements**

$UNV-505^{\Omega}$	Introduction to Graduate Studies in	2 credits
	Ministry and Theology	
<u>BIB-501</u>	Old Testament Foundations	4 credits
BIB-502	New Testament Foundations	4 credits
HTH-515	Christian Doctrines	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
MIN-511	Foundations of Youth and Family	4 credits
<u>MIN-620</u>	Ministry Stages of Development and Faith Formation	4 credits
HTH-620	Practical Theology	4 credits
MIN-650	Conflict, Crisis, and Pastoral Care	4 credits
		20 114

Master of Arts in Youth and Family Ministry

38 credits

### **Master of Divinity**

The Master of Divinity is the standard degree for professional ministry preparation and is designed for students who intend to serve in local churches, Christian organizations, and other ministerial roles. The Master of Divinity program offers comprehensive biblical and theological knowledge while developing skills necessary for effective Christian ministry. The Master of Divinity curriculum focuses on biblical, historical, theological, and ethical knowledge as well as exegetical, pastoral, and homiletic skills. Significant attention is also directed at the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the community of faith and as leaders in the public domain. Thus the Master of Divinity provides a strong basis for ordained, professional ministry and a substantial foundation for advanced study in

38 credits

Master of Arts in Urban Ministry

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

preparation for an academic career. This degree features a foundational, pastorally oriented program of study that emphasizes the centrality of the gospel, the significance of the church, and the pressing need to advance the Kingdom through missions. The program's courses are designed to offer the crucial components of a well-rounded, theological education and to equip students for a life of faithful ministry.

### **Degree Requirements**

$\underline{\text{UNV-505}^{\Omega}}$	Introduction to Graduate Studies in Ministry and Theology	2 credits
MIN-526	Ministerial Ethics	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-509	Christian Character Formation	4 credits
HTH-505	Systematic Theology I	4 credits
<u>INT-525</u>	Christian Worldview and Mission	4 credits
MIN-524	Evangelism and Discipleship	4 credits
HEB-501	Elementary Hebrew I	4 credits
BIB-611	Old Testament Exegesis: Pentateuch	4 credits
GRK-501	Elementary Greek I	4 credits
BIB-620	New Testament Exegesis: Gospels and Acts	4 credits
HTH-611 $^{\Omega}$	Pastoral Theology	4 credits
HTH-550	Systematic Theology II	4 credits
HTH-640	Doctrine of the Church	4 credits
BIB-610	Old Testament Exegesis: Prophets and Writings	4 credits
<u>BIB-621</u>	New Testament Exegesis: Epistles and Revelation	4 credits
HTH-510	Christian History I	4 credits
MIN-601	Christ-Centered Preaching	4 credits
HTH-511	Christian History II	4 credits
<u>PHI-610</u>	Christian Apologetics	4 credits
Students show	uld enroll in a total of 4 credits from the fo	ollowing
courses		
MIN-675	Biblical Leadership and Ministry	4 credits
MIN-690	Ministry Internship	4 credits

# Master of Divinity (Traditional Campus Accelerated)

The Master of Divinity is the standard degree for professional ministry preparation and is designed for students who intend to serve in local churches, Christian organizations, and other ministerial roles. The Master of Divinity program offers comprehensive biblical and theological knowledge while developing skills necessary for effective Christian ministry. The Master of Divinity curriculum focuses on biblical, historical, theological, and ethical knowledge as well as exegetical, pastoral, and homiletic skills. Significant attention is also directed at the inward formation of Christ-like character and an ability to minister with wisdom and sensitivity within the community of faith and as leaders in the public domain. Thus the Master of Divinity provides a strong basis for ordained, professional ministry and a substantial foundation for advanced study in

preparation for an academic career. This degree features a foundational, pastorally oriented program of study that emphasizes the centrality of the gospel, the significance of the church, and the pressing need to advance the Kingdom through missions. The program's courses are designed to offer the crucial components of a well-rounded, theological education and to equip students for a life of faithful ministry. This program is part of an accelerated BA to MDiv (3+2) which requires a 12-month program of study. Graduates of the entire accelerated program will earn a BA after completing all undergraduate requirements and a Master of Divinity after completing all graduate requirements

### **Degree Requirements**

9 1		
<u>MIN-500</u>	Enchiridion on Ministry: Purpose,	4 credits
BIB-650	Principles, and Practice Biblical Hermeneutics	4 credits
	Ministerial Ethics	4 credits
<u>MIN-526</u>	Willinsterial Edites	
<u>HEB-501</u>	Elementary Hebrew I	4 credits
HTH-505	Systematic Theology I	4 credits
<u>INT-525</u>	Christian Worldview and Mission	4 credits
MIN-509	Christian Character Formation	4 credits
<u>HTH-611<sup>Ω</sup></u>	Pastoral Theology	4 credits
HTH-550	Systematic Theology II	4 credits
MIN-524	Evangelism and Discipleship	4 credits
BIB-610	Old Testament Exegesis: Prophets	4 credits
	and Writings	
<b>GRK-501</b>	Elementary Greek I	4 credits
HTH-510	Christian History I	4 credits
MIN-601	Christ-Centered Preaching	4 credits
HTH-640	Doctrine of the Church	4 credits
BIB-621	New Testament Exegesis: Epistles	4 credits
	and Revelation	
HTH-511	Christian History II	4 credits
MIN-675	Biblical Leadership and Ministry	4 credits
PHI-610	Christian Apologetics	4 credits
Master of Di	vinity (Traditional Campus	76 credits
Masici Oi Di	vinity (Traditional Campus	

# Graduate Certificate in Advanced Biblical Languages

The Graduate Certificate in Advanced Biblical Languages program prepares students with advanced understanding and skill in the biblical languages of Hebrew and Greek. Coursework for this emphasis deepens skills related to grammar and syntax in the original biblical languages and provides additional opportunities to gain additional experience in hermeneutics. Grand Canyon Theological Seminary has adopted a tools-based curriculum in learning the biblical languages, which shapes coursework in advanced language coursework as they continue to learn ways in which to use biblical software tools in order to train competent expositors and teachers of the Scriptures.

### **Degree Requirements**

Accelerated)

GRK-501	Elementary Greek I	4 credits
GRK-601	Greek II	4 credits
HFR-501	Elementary Hebrew I	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

82 credits

Master of Divinity

HEB-601	Hebrew II	4 credits
Graduate C	ertificate in Advanced Biblical	16 credits
Languages		

## Graduate Certificate of Completion in Biblical Foundations

The Graduate Certificate of Completion in Biblical Foundations provides students with fundamental biblical understandings intended to enhance personal devotion and prepare them for teaching ministries within a variety of contexts. This program of study is designed to equip students with competencies necessary for local church service by instilling a foundational knowledge of God's word and basic competency in rightly interpreting Scripture, while cultivating Christian character. Coursework for this emphasis introduces students to the Old and New Testaments, biblical hermeneutics, and principles for spiritual formation.

### **Degree Requirements**

$\underline{\text{UNV-505}^{\Omega}}$	Introduction to Graduate Studies in Ministry and Theology	2 credits
BIB-501	Old Testament Foundations	4 credits
BIB-502	New Testament Foundations	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
	rtificate of Completion in Biblical	18 credits
Foundations		

# **Graduate Certificate of Completion in Ministry Education**

The Graduate Certificate of Completion in Ministry Education equips students with fundamental knowledge and skills needed for ministry within a variety of church and ministerial contexts. This program of study is designed to prepare students with basic understandings for biblical interpretation, theology, ethics, and pastoral ministry, while also cultivating Christian character. Coursework will help students engage in biblical exegesis and hermeneutics, think theologically, and reason and act ethically within various ministerial contexts.

### **Degree Requirements**

Education

$\underline{UNV-505^{\Omega}}$	Introduction to Graduate Studies in Ministry and Theology	2 credits
MIN-526	Ministry and Theology Ministerial Ethics	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-509	Christian Character Formation	4 credits
HTH-505	Systematic Theology I	4 credits
Graduate Cer	rtificate of Completion in Ministry	18 credits

### **Graduate Certificate in Ministry Education**

The Graduate Certificate in Ministry Education equips students with fundamental knowledge and skills needed for ministry within a variety of church and ministerial contexts. This program of study is designed to prepare students with basic understandings for biblical interpretation, theology, ethics, and pastoral ministry, while also cultivating Christian character. Coursework will help students engage in biblical exegesis and

hermeneutics, think theologically, and reason and act ethically within various ministerial contexts.

### **Degree Requirements**

MIN-526	Ministerial Ethics	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-509	Christian Character Formation	4 credits
<u>HTH-505</u>	Systematic Theology I	4 credits
Graduate C	ertificate in Ministry Education	16 credits

# **Graduate Certificate of Completion in Christian Theology**

The Graduate Certificate of Completion in Christian Theology provides students with fundamental understandings of systematic and historical theology. This program of study is designed to equip students with knowledge and competencies necessary for local church service by instilling a foundational knowledge of Christian theology including the biblical and historical roots of key doctrines of the faith. Coursework for this emphasis introduces students to the major doctrines of Christianity and traces the development of theological understanding throughout Church history.

### **Degree Requirements**

<u>UNV-505</u> Ω	Introduction to Graduate Studies in	2 credits
HTH-505	Ministry and Theology Systematic Theology I	4 credits
HTH-550	Systematic Theology II	4 credits
HTH-510	Christian History I	4 credits
<u>HTH-511</u>	Christian History II	4 credits
Graduate Cer	rtificate of Completion in Christian	18 credits
Theology		

### **Graduate Certificate in Christian Theology**

The Graduate Certificate in Christian Theology provides students with fundamental understandings of systematic and historical theology. This program of study is designed to equip students with knowledge and competencies necessary for local church service by instilling a foundational knowledge of Christian theology including the biblical and historical roots of key doctrines of the faith. Coursework for this emphasis introduces students to the major doctrines of Christianity and traces the development of theological understanding throughout Church history.

### **Degree Requirements**

HTH-505	Systematic Theology I	4 credits
HTH-550	Systematic Theology II	4 credits
HTH-510	Christian History I	4 credits
<u>HTH-511</u>	Christian History II	4 credits
Graduate Ce	rtificate in Christian Theology	16 credits

### Post-Master of Arts in Theology: Introductory Biblical Languages Certificate

The Post-Master of Arts in Theology: Introductory Biblical Languages Certificate provides students with fundamental understandings and skills that prepare them to properly interpret and communicate the biblical text for the sake of ministry within

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

a local church. This program of study is designed to equip students with the foundational skills necessary for basic analysis of Scripture in the original languages in conjunction with biblical software. Students hone their exegetical skills through application within selected portions of the Old and New Testaments. Coursework for this emphasis introduces biblical Hebrew and Greek and selected biblical passages.

#### **Degree Requirements**

HEB-501	Elementary Hebrew I	4 credits
BIB-611	Old Testament Exegesis: Pentateuch	4 credits
GRK-501	Elementary Greek I	4 credits
BIB-620	New Testament Exegesis: Gospels And Acts	4 credits

Post-Master of Arts in Theology: Introductory
Biblical Languages Certificate

16 credits

### Minors

### **Minor in Biblical Studies**

A minor in Biblical Studies provides students in any major with basic knowledge of the Bible and the ability to interpret Scripture effectively. Coursework surveys the Bible as a whole, introduces principles and practices for sound interpretation, and applies interpretive skills to major divisions of the Bible. This minor is designed for students who want to understand the Bible more fully and learn to interpret it faithfully.

### **Minor Requirements**

BIB-106	Old Testament Survey	4 credits
BIB-107	New Testament Survey	4 credits
<u>BIB-355</u> <sup>∆</sup>	Biblical Interpretation	4 credits
BIB-350	Pentateuch	4 credits
BIB-360	Gospel and Acts	4 credits

Minor in Biblical Studies 20 credits

### **Minor in Christian Ministry (Pre-Seminary)**

The Minor in Christian Ministry prepares students for pastoral leadership in the local church and other Christian ministries and a pathway to a Master of Divinity. This pre-seminary curriculum provides a well-rounded theological education with emphasis on personal and professional formation and the development of ministerial abilities. Coursework in ministry, hermeneutics, and ministerial ethics is combined with practical lab-based experiences in pastoral identity, relational skill, spiritual formation, and ministry skill.

### **Minor Requirements**

MIN-104	Pastoral Identity Lab	1 credit
MIN-114	Spiritual Formation Lab	1 credit
MIN-204	Relational Skills Lab	1 credit
MIN-214	Ministry Skills Lab	1 credit
MIN-500	Enchiridion on Ministry: Purpose, Principles, and Practice	4 credits
BIB-650	Biblical Hermeneutics	4 credits
MIN-526	Ministerial Ethics	4 credits
Minor in Christian Ministry (Pre-Seminary)		16 credits

Minor in Christian Studies

A minor in Christian studies offers you a basic understanding of the Bible and theology. Gain ethical knowledge while exploring the virtues and habits that shape Christian character and morality. This minor entails an advanced exploration of the Christian worldview with an emphasis on calling, vocation, character development, the Christian life, and Christian community.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
CWV-316	Christian Life: The Way of Jesus	4 credits
MIN-320	Christian Character Formation	4 credits
<u>HTH-330</u> <sup>∆</sup> <sup>≠</sup>	Christian Ethics	4 credits
Minor in Christian Studies		16 credits

### **Minor in Christian Theology**

A minor in Christian Theology provides a student in any major with a basic understanding of theology and church history. Coursework covers all major doctrines while engaging the historical development, contextual diversity, and practical applications of theology. This minor is for any student interested in deepening theological reasoning necessary for developing and sustaining healthy Christian convictions in any vocation or career path.

### **Minor Requirements**

Minor in Christian Theology		16 credits
HTH-475	Applied Theology	4 credits
HTH-350	Survey of Historical Theology	4 credits
HTH-202	Christian Theology II	4 credits
HTH-201	Christian Theology I	4 credits

### **Minor in Christian Worldview Studies**

The minor in Christian Worldview Studies explores the biblical foundations for the Christian faith and equips undergraduates with the knowledge needed to integrate the Christian mission into their personal, academic, and vocational pursuits. Students who complete this minor will discover their identity, learn to assess pre-modern, modern, and post-modern worldviews, communicate the salvation hope of Jesus Christ across cultural lines, live out their moral convictions in a pluralistic society, deepen their passion for Christian community, and become irenic advocates of justice and human flourishing.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
CWV-316	Christian Life: The Way of Jesus	4 credits
<u>INT-244</u>	World Religions	4 credits
<u>INT-460</u>	Christianity and Culture	4 credits
Minor in Christian Worldview Studies 16		

#### Minor in Media and Production Ministry

A minor in Media and Production Ministry provides a basic understanding of the Bible and theology along with skill and knowledge of standard media and technology used in contemporary worship services. The minor is designed for students who have a calling to serve and lead within a worship ministry context. Students gain the knowledge and skill necessary

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

for leadership opportunities in worship media and production ministries.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
WSA-123	Church Audio	4 credits
WSA-320	Digital Audio Workstation	4 credits
WSA-322	Theology of Worship	4 credits
WSA-423	Worship Leadership	4 credits
Minor in Me	dia and Production Ministry	20 credits

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### Minor in Philosophy

The Grand Canyon University Minor in Philosophy introduces students to philosophical studies in key areas including knowledge and reality, ethics, and philosophy of religion. The program complements foundational teachings introduced in Christian worldview by providing students with competencies necessary to effectively engage in ethical and philosophical discourse. Students are trained to analyze and assess ideas and ethical systems and express their understandings effectively to others.

### **Minor Requirements**

<u>PHI-103</u>	Introduction to Philosophy and Ethics	4 credits
PHI-301	Knowledge and Reality	4 credits
PHI-307	Applied Ethics	4 credits
PHI-403	Philosophy of Religion	4 credits

Minor in Philosophy

16 credits

### **Minor in Short-Term Missions**

A minor in Short-Term Missions provides students with basic biblical understandings and the ability to communicate the gospel effectively within cross-cultural contexts. Coursework surveys the Bible as a whole, introduces principles and practices for global and local missions, and culminates in a short-term missions experience. This minor is designed for students who want to understand how to share the Christian faith in word and deed within various cross-cultural contexts while gaining hands-on experience through short-term missions experiences in local and international contexts.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
CWV-316	Christian Life: The Way of Jesus	4 credits
<u>INT-101</u>	God-Centered Missions Lab	1 credit
<u>INT-102</u>	Cross-Cultural Missions Lab	1 credit
<u>INT-201</u>	Missional Skills Lab	1 credit
<u>INT-202</u>	Short-Term Missions Lab	1 credit
<u>INT-494</u>	Short-Term Missions Experience	4 credits
Minor in Sh	ort-Term Missions	16 credits

### Minor in Spiritual Formation and Discipleship

A minor in Spiritual Formation and Discipleship equips students with the knowledge and dispositions for cultivating spiritual formation and discipleship skills both individually and in community. Students who pursue this minor receive training in

the principles, practices, and history of spiritual formation. This minor involves coursework in biblical studies, character formation, evangelism and discipleship, as well as history and theories of spiritual formation.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
<u>INT-320</u>	Evangelism & Discipleship	4 credits
MIN-320	Christian Character Formation	4 credits
<u>HTH-320</u>	History and Theories of Spiritual Formation	4 credits

Minor in Spiritual Formation and Discipleship

16 credits

### **Minor in Worship Ministry**

A minor in Worship Ministry offers a basic understanding of the Bible, theology, music, and technology used in contemporary worship services. This minor is designed for students who have a calling to serve and lead within a worship ministry context. Students gain the knowledge and skill needed to serve as an effective worship pastor in a broad variety of ministry opportunities.

### **Minor Requirements**

BIB-100	Bible Survey	4 credits
WSA-300	Music Structures I	4 credits
WSA-320	Digital Audio Workstation	4 credits
WSA-322	Theology of Worship	4 credits
<u>WSA-423</u>	Worship Leadership	4 credits

Minor in Worship Ministry 20 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## The College of Engineering and Technology

### College Description

The College of Engineering & Technology (CET) at Grand Canyon University offers engineering and technology programs whose teaching inspires students to excellence and cultivates the critical foundation of the Christian worldview. From pathways in the trades, certificates, four-year baccalaureate degrees, to graduate degrees, our growing program offerings and learning modalities are available in-person and online. With ABET accreditation and the National Centers of Academic Excellence in Cybersecurity (NCAE-C) designation, CET ensures students receive the worldclass education highly sought after by industry.

CET is dedicated to shaping graduates of character who are equipped to solve real-world problems ethically and with integrity. Emphasizing an entrepreneurial mindset and a Christian worldview, the college fosters a close-knit community where students, faculty, and staff are committed to excellence. Through active, practical, hands-on learning experiences, CET prepares students to pursue their purpose, encouraging human flourishing and making a meaningful impact on society.

### College Mission & Vision Statement

The College of Engineering & Technology is dedicated to advancing excellence in engineering and technology, while fostering a Christ-centered environment of support and encouragement for students, faculty, and staff. Here at GCU, we are focused on...you, the student. Our goal is to unlock the potential of every student by equipping them with the skills and knowledge needed to become innovative leaders and entrepreneurs in their fields. Through transformative, hands-on learning and an entrepreneurial mindset, CET nurtures a community where faith, engineering, technology, and entrepreneurial mindedness converge, empowering students to become innovators who honor God through their gifts to serve others and solve challenges.

### Guiding Principles

The guiding principles of the College of Engineering & Technology are:

- Focusing on Christ-centered, servant leadership, ethical decision making, and acknowledging occupation as a ministry.
- Meeting students where they are and helping guide them to where their purpose lies using various education pathways from trades, certificates, bachelor's to graduate programs.
- Incorporating emerging technologies to provide innovative active-learning environments laser-focused on an everchanging workforce.
- · Utilizing an interdisciplinary approach to education via industry capstones and research projects.
- Exceptional teaching led by a dedicated team of faculty and staff with industry expertise, a focus on innovation, entrepreneurial excellence, and a strong commitment to fostering a vibrant student community.

### **Technology Programs**

### **Bachelor of Science in Applied Technology**

Grand Canyon University's Bachelor of Science in Applied Technology prepares students for professions in Information Technology such as IT Project Manager, Network Support Specialist, and Technology Trainer. Students take courses in networking, security, database systems, and information technology process management. The curriculum includes intensive, project-based courses that help students develop skills in project management and communication within the profession.

This program focuses on problem-solving using technology, with hands-on activities designed to provide students technical experience required in the workplace.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Applied Technology Major	40 credits
Total Electives	40-46 credits
Total Bachelor of Science in Applied Technology	120 credits

### Applied Technology Major

11		
<u>CST-111</u>	Introduction to Computer Science and Information Technology	4 credits
SYM-400	Introduction to Database Structures	4 credits
STG-390	Professionalism in Science & Technology-Communications, Conduct and Ethics	4 credits
<u>SYM-408</u>	Relational Databases for Business Applications	4 credits
<u>BIT-415</u>	IT Project Management	4 credits
<u>MGT-325</u>	Managing Business Communications and Change	4 credits
<u>ITT-415</u>	IT Business Case Planning for Global Enterprise	4 credits
CYB-300	Fundamentals in Cyber Security	4 credits
<u>BIT-310</u>	Information Systems Design and Development	4 credits
$\underline{\text{ITT-455}^{\Omega}}$	IT Project	4 credits
Applied Tecl	nnology Major	40 credits

### **Bachelor of Science in Artificial Intelligence**

The Bachelor of Science in Artificial Intelligence (AI) is a fouryear program focusing on designing, developing, and deploying intelligent systems. This degree program covers various topics, such as machine learning, natural language processing, SDLC, and ethics. The curriculum provides students with a strong foundation in computer science, mathematics, development, and software engineering and an in-depth understanding of AI technologies and their applications. Graduates of this program will be equipped with the skills and knowledge to pursue careers in industries such as technology, finance, healthcare, transportation, and academia.

### **Degree Requirements**

34-40 credits **Total General Education** 

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Total Artificial Intelligence Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Artificial Intelligence	120 credits

### **Required General Education**

AIT-114

(Included in General Education totals credits, applied to the Global Awareness competency.)

<u>AIT-450</u> <sup>∆</sup>	Ethics of AI	4 credits
<u>AIT-436</u>	Human-Robot Interaction	4 credots

(Included in General Education totals credits, applied to the Critical Thinking competency.)

MAT-154	Applications of College Algebra	4 credits
CST-180	Python Programming I	4 credits
<u>AIT-110</u>	Statistical Learning Theory	4 credits

(Included in General Education totals credits, applied to the Effective Communication competency.) Introduction to Linguistics

A11-114	mu occurrent to Emganetics	· creares		
Artificial Intelligence Major				
<u>AIT-104</u>	Data Mining and Machine Learning	4 credits		
<u>AIT-210</u>	Applied Mathematics for AI	4 credits		
<u>AIT-204</u>	Deep Learning	4 credits		
<u>AIT-214</u>  *	Natural Language Processing	4 credits		
<u>AIT-224</u>  *	Image Processing and Computer Vision	4 credits		
<u>AIT-212</u>	Scientific Computing for AI	4 credits		
<u>AIT-206</u>	Reinforcement Learning	4 credits		
<u>AIT-216</u>	Language and Vision	4 credits		
<u>AIT-226</u>	Feature Extraction and Image Representation	4 credits		
<u>AIT-306</u>	Machine Learning Applications	4 credits		
<u>AIT-326</u>	Object Recognition and Detection	4 credits		
<u>AIT-316</u>	Conversational Agents	4 credits		
<u>AIT-230</u>	Introduction to Robotics	4 credits		
<u>AIT-351</u>	Capstone 1: Planning and Design	4 credits		
<u>AIT-406</u>	Deep Learning for Computer Vision	4 credits		
<u>AIT-332</u>	Robot Perception	4 credits		
AIT-432	Robot Motion Development	4 credits		
<u>AIT-434</u>	Robot Control Systems	4 credits		
<u>AIT-451</u>	Capstone 2 – Planning	2 credits		
<u>AIT-408</u> <sup>∆</sup>	Advanced Topics in Computer Vision	4 credits		
<u>AIT-452</u>	Capstone 3: Deployment	2 credits		
Artificial In	telligence Major	80 credits		

### Bachelor of Science in Computer Science with an **Emphasis in Big Data Analytics**

Grand Canyon University's Bachelor of Science in Computer Science with an Emphasis in Big Data and Analytics prepares students for career options which include computer systems

analyst, networks specialist, database manager, programmer and software engineer. Students learn algorithms, discrete structures, programming languages, software development, networks, operating systems and computing systems fundamentals. Students also learn professional and ethical practices associated with computing through the lens of our Christian worldview. Students will explore the problems and trends associated with the management of huge volumes of data, gaining fundamental knowledge in the design of highly scalable systems that can collect, process, store and analyze large volumes of unstructured data. Competencies include large scale data processing, data mining and interpretation, pattern analysis and data-based decision making. This program integrates math, chemistry, physics and biology and emphasizes critical thinking, real-world application and practical project experience. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-confidence. Students entering the Bachelor of Science in Computer Science with an Emphasis in Big Data and Analytics program should possess knowledge of algebra and common office software applications.

### **Degree Requirements**

4 credits

Total General Education	34-40 credits
Total Computer Science with an Emphasis in Big Data Analytics Major	88 credits
Total Electives	0-6 credits
Total Bachelor of Science in Computer Science with an Emphasis in Big Data Analytics	128 credits

### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

CST-320 <sup>∆</sup>	<b>Human-Computer Interaction</b>	4 credits
	and Communication & Lab	

(Included in General Education totals credits, applied to the Critical Thinking competency.)

MAT-261	Pre-Calculus	4 credits
MAT-262	Calculus for Science and	4 credits
	Engineering I	

The following Critical Thinking course content can be met with any lab science course

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit

(Included in General Education totals credits, applied to the Effective Communication competency.)

STG-390	Professionalism in Science &	4 credits
<u>510 570</u>	Technology - Communications,	
	Conduct, and Ethics	

### Computer Science with an Emphasis in Big Data Analytics Major

CST-105	Computer Programming I	4 credits
CST-210	Object Oriented Programming & Lab	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>MAT-264</u>	Calculus for Science and	4 credits	confidence. Students entering the Bachelor of Science in		ence in
<u>CST-215</u>	Engineering II Digital Logic and Design Lecture & Lab	4 credits	Computer Science with an Emphasis in Business Entrepreneurship program should possess knowledge of algebra and common office software applications.		lge of algebra
CST-201	Algorithms and Data Structures	4 credits	Degree Requi		
<u>CST-217</u>	Principles of Database Design and Programming Lecture & Lab	4 credits	Total Genera		34-40 credits
MAT-345	Applied Linear Algebra I	4 credits		iter Science with an Emphasis in	88 credits
MAT-374	Calculus Based Probability and Statistics	4 credits	Business Ent Total Electiv	trepreneurship res	0-6 credits
<u>CST-307</u>	Introduction to Computer Architecture & Lab	4 credits		or of Science in Computer an Emphasis in Business	128 credits
CST-305	Principles of Modeling and	4 credits	Entrepreneur		
COTT 015	Simulation & Lab Operating Systems & Lab	4 credits	Required Ger	neral Education	
<u>CST-315</u>		4 credits	(Included in C	General Education totals credits, ap	plied to the
<u>CST-301</u>	Principles of Programming Languages Lecture and Lab	4 credits	Global Aware	eness competency.)	
CST-310	Computer Graphics & Lab	4 credits	<u>CST-320</u> <sup>∆</sup>	Human-Computer Interaction and Communication & Lab	4 credits
$STG-451^{\Omega\Delta}$	Capstone Project I	2 credits	(Included in C	and Communication & Lab General Education totals credits, ap	nlied to the
<u>ITT-305</u>	Information Security I	2 credits		king competency.)	nieu io ine
<u>CST-405</u>	Principles of Compiler Design & Lab	4 credits	<u>MAT-261</u>	Pre-Calculus	4 credits
<u>CST-425</u>	Very Large Information Systems & Lab	4 credits	<u>MAT-262</u>	Calculus for Science and Engineering I	4 credits
<u>CST-435</u>	Search Engines and Data Mining & Lab	4 credits	The following any lab scienc	Critical Thinking course content co	ın be met with
$STG-452^{\Omega\Delta}$	Capstone Project II	2 credits	BIO-181	General Biology I	3 credits
<u>ITT-306</u>	Information Security II	2 credits	BIO-181L	General Biology I Lab	1 credit
<u>CST-440</u>	Analytics for Dynamic Social Networks & Lab	4 credits		General Education totals credits, ap	plied to the
CST-461	Current Trends in Computer	4 credits		munication competency.)  Professionalism in Science &	4 credits
ENT 426	Science Lecture and Lab Entrepreneurship and Innovation	4 credits	STG-390	Technology – Communications,	4 credits
ENT-436		88 credits		Conduct, and Ethics	
Computer So	cience with an Emphasis in Big Data	oo cieuits	Computer Sc	ience with an Emphasis in Busine	SS

### **Bachelor of Science in Computer Science with an Emphasis in Business Entrepreneurship**

Grand Canyon University's Bachelor of Science in Computer Science with an Emphasis in Business Entrepreneurship prepares students for career options which include computer systems analyst, networks specialist, database manager, programmer and software engineer. Students learn algorithms, discrete structures, programming languages, software development, networks, operating systems and computing systems fundamentals. Students also learn professional and ethical practices associated with computing through the lens of our Christian worldview. This emphasis provides a foundation for business leaders and innovators of new technologies and business processes. Graduates will learn how to plan and manage projects, grow business opportunities, identify market opportunities and commercialize original products and services. They will also learn the best practices for creating innovative work environments and the importance of societal wealth ventures, social responsibility and community outreach. This program integrates math, chemistry, physics and biology and emphasizes critical thinking, real-world application and practical project experience. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-

### Computer Science with an Emphasis in Business

Entrepreneurship Major			
CST-105	Computer Programming I	4 credits	
<u>CST-210</u>	Object Oriented Programming & Lab	4 credits	
PHY-121	University Physics I	3 credits	
PHY-121L	University Physics I Lab	1 credit	
MAT-264	Calculus for Science and Engineering II	4 credits	
<u>CST-215</u>	Digital Logic and Design Lecture & Lab	4 credits	
CST-201	Algorithms and Data Structures	4 credits	
<u>CST-217</u>	Principles of Database Design and Programming Lecture & Lab	4 credits	
MAT-345	Applied Linear Algebra I	4 credits	
<u>MAT-374</u>	Calculus Based Probability and Statistics	4 credits	
<u>CST-307</u>	Introduction to Computer Architecture & Lab	4 credits	
<u>CST-305</u>	Principles of Modeling and Simulation & Lab	4 credits	
CST-315	Operating Systems & Lab	4 credits	
<u>CST-301</u>	Principles of Programming Languages Lecture and Lab	4 credits	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Analytics Major

CST-310	Computer Graphics & Lab	4 credits
<u>STG-451<sup>ΩΔ</sup></u>	Capstone Project I	2 credits
<u>ITT-305</u>	Information Security I	2 credits
<u>CST-405</u>	Principles of Compiler Design & Lab	4 credits
$STG-452^{\Omega\Delta}$	Capstone Project II	2 credits
<u>ITT-306</u>	Information Security II	2 credits
<u>CST-461</u>	Current Trends in Computer Science Lecture and Lab	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits
ENT-446	Business Execution	4 credits
MGT-440	Project Management	4 credits
ENT-420	New Venture Financing	4 credits
Computer So	cience with an Emphasis in Business	88 credits

# **Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development**

Grand Canyon University's Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development prepares students for career options which include computer systems analyst, networks specialist, database manager, programmer and software engineer. Students learn algorithms, discrete structures, programming languages, software development, networks, operating systems and computing systems fundamentals. Students also learn professional and ethical practices associated with computing through the lens of our Christian worldview. This emphasis provides additional preparation in areas of graphic visualization, game development, computer modeling, and simulations with applications for entertainment, educational or scientific purposes. Students will augment a foundational skillset with knowledge of the design, development and production of computer games and related applications. Competencies include visualization, gaming design, artificial intelligence implementation and development for mobile device applications. This program integrates math, chemistry, physics and biology and emphasizes critical thinking, real-world application and practical project experience. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-confidence. Students entering the Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development program should possess knowledge of algebra and common office software applications.

#### **Degree Requirements**

Entrepreneurship Major

Total General Education	34-40 credits
Total Computer Science with an Emphasis in Game and Simulation Development Major	88 credits
Total Electives	0-6 credits
Total Bachelor of Science in Computer Science with an Emphasis in Game and Simulation Development	128 credits
D 1 10 101 0	

#### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

CST-320 <sup>∆</sup>	Human-Computer Interaction	4 credits
	and Communication & Lab	

(Included in General Education totals credits, applied to the Critical Thinking competency.)

MAT-261	Pre-Calculus	4 credits
<u>MAT-262</u>	Calculus for Science and Engineering I	4 credits

The following Critical Thinking course content can be met with any lab science course

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit

(Included in General Education totals credits, applied to the Effective Communication competency.)

STG-390	Professionalism in Science &	4 credits
	Technology - Communications,	
	Conduct, and Ethics	

### Computer Science with an Emphasis in Game and Simulation Development Major

Developmen	t Major	
CST-105	Computer Programming I	4 credits
<u>CST-210</u>	Object Oriented Programming & Lab	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
MAT-264	Calculus for Science and Engineering II	4 credits
<u>CST-215</u>	Digital Logic and Design Lecture & Lab	4 credits
CST-201	Algorithms and Data Structures	4 credits
<u>CST-217</u>	Principles of Database Design and Programming Lecture & Lab	4 credits
MAT-345	Applied Linear Algebra I	4 credits
<u>MAT-374</u>	Calculus Based Probability and Statistics	4 credits
<u>CST-307</u>	Introduction to Computer Architecture & Lab	4 credits
<u>CST-305</u>	Principles of Modeling and Simulation & Lab	4 credits
<u>CST-315</u>	Operating Systems & Lab	4 credits
<u>CST-301</u>	Principles of Programming Languages Lecture and Lab	4 credits
<u>CST-310</u>	Computer Graphics & Lab	4 credits
$\underline{\text{STG-451}^{\Omega\Delta}}$	Capstone Project I	2 credits
<u>CST-405</u>	Principles of Compiler Design & Lab	4 credits
<u>CST-415</u>	AI in Games and Simulations Lecture & Lab	4 credits
<u>CST-410</u>	Game design and Game Play Lecture & Lab	4 credits
<u>ITT-305</u>	Information Security	2 credits
$\underline{STG-452^{\Omega\Delta}}$	Capstone Project II	2 credits
<u>CST-416</u>	Mobile Game Development Lecture & Lab	4 credits
<u>ITT-306</u>	Information Security II	2 credits
<u>CST-461</u>	Current Trends in Computer Science Lecture and Lab	4 credits
ENT-436	Entrepreneurship and Innovation	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Computer Science with an Emphasis in Game	88 credits
and Simulation Development Major	

### **Bachelor of Science in Cybersecurity**

Grand Canvon University's Bachelor of Science in Cybersecurity was developed with industry guidance to address the broad, foundational knowledge and skills necessary to be contributors as Cybersecurity Technician, Security Operation Center Analysts, Penetration Testers, Malware Analysts, and Digital Forensic Technician. This program teaches topics and assesses competency in all aspects of defensive and offensive cybersecurity, cyber law, and cyber ethics, in addition to information assurance foundations, digital forensic investigations, malware reverse engineering, wireless security, security architecture design, security frameworks, and secure system administration. This program emphasizes critical thinking, real-world application and practical project management project experience. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-confidence. Students learn professional and ethical practices associated with engineering through the lens of our Christian worldview.

### **Degree Requirements**

Total General Education	34-40 credits
Total Cybersecurity Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Cybersecurity	120 credits

### **Required General Education**

CYB-420<sup>≠</sup>

(Included in General Education totals credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

Global Perspectives on

Information Assurance

Cyberwarfare

Cyborcoour	Cyberwariare		Developme
Cybersecuri	Introduction to Computer Science	4 credits	Game Devel
<u>CST-111</u>	and Information Technology	4 Cledits	GMC-100
CYB-201	Algorithms and Discrete	4 credits	GDT-115
	Mathematics for Cybersecurity		
<u>ITT-116</u>	Platforms and Network	4 credits	<u>GDT-110</u>
ITT-121	Technologies System Administration and	4 credits	<u>GDT-120</u>
111 121	Maintenance		GMC-200
<u>ITT-270</u>	Routing and Switching	4 credits	GDT-205
<u>ITT-210</u>	Low Level Programming	4 credits	<u> </u>
ITT-307	Cybersecurity Foundations	4 credits	<u>GDT-210</u>
CYB-220	Cyberlaw and Privacy in a Digital	4 credits	<u>GDT-215</u>
<u>C1B-220</u>	Age		<u>GDT-220</u>
<u>ITT-310</u>	Programming for Security	4 credits	CDT 225
	Professionals	4 11.	<u>GDT-225</u>
<u>ITT-370</u>	Wireless Networks	4 credits	<u>GDT-305</u>
<u>ITT-340</u>	Cybersecurity and Ethical Hacking	4 credits	GMC-351
STG-390 <sup>∆</sup>	Professionalism in Science &	4 credits	
	Technology-Communications,		<u>GDT-310</u>
CIVID 220	Conduct and Ethics	4 credits	GDT-315
<u>CYB-320</u>	Malware Analysis	4 cleans	GMC 252

CYB-350	Social Aspects of Cybersecurity	4 credits
<u>ITT-375</u>	Cyber Forensic Investigations	4 credits
<u>ITT-415</u> <sup>‡</sup>	IT Business Case Planning for Global Enterprise	4 credits
<u>ITT-430</u>	Security Driven Systems Administration	4 credits
$\underline{\text{ITT-455}^{\Delta\Omega}}$	IT Project	4 credits
<u>ITT-425</u>	Analysis, Design, and Management of Secure Corporate Networks	4 credits
Cybersecurit	y Major	80 credits

### **Bachelor of Science in Game Development**

The Bachelor of Science in Game Development program is designed to equip students with an understanding of the technical intricacies involved in building and designing games and interactive applications. The program places a strong emphasis on the technical aspects, including advanced software development, fundamental game design principles, the game development life cycle, game engine architecture, 2D and 3D graphics, visual effects, and animation techniques. Students also study game physics and mechanics, streamlined production pipelines, rapid prototyping, artificial intelligence (AI) implementation, networking for games, and comprehensive game testing and quality assurance methodologies. Additionally, the program equips students with vital business and marketing acumen specific to the gaming industry, as well as the team collaboration and project management skills necessary for successful game development endeavors.

34-40 credits

### **Degree Requirements**

**Total General Education** 

Total Gene	Tui Duucution	
Total Game	e Development Major	76 credits
Total Elect	ives	4-10 credits
Total Bach Developme	elor of Science in Game ent	120 credits
Game Deve	lopment Major	
GMC-100	Introduction to Gaming	4 credits
GDT-115	Introduction to Game Engines	4 credits
GDT-110	Game Engine Architecture	4 credits
<u>GDT-120</u>	Virtual Reality and Game Development	4 credits
GMC-200	World Building	4 credits
GDT-205	AI for Game Developers	4 credits
GDT-210	Real-time Network Programming	4 credits
GDT-215	Mobile Game Development	4 credits
<u>GDT-220</u>	Augmented Reality and Game Development	4 credits
<u>GDT-225</u>	Advanced Graphics Programming	4 credits
<u>GDT-305</u>	Advanced Game Testing and Debugging	4 credits
<u>GMC-351</u>	Game Creation 1	4 credits
<u>GDT-310</u>	Game Security and Anti-Cheat Technology	4 credits
<u>GDT-315</u>	Multiplayer Game Development	4 credits
GMC-352	Game Creation 2	4 credits
<u>GDT-320</u>	Game Physics and Simulation	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

4 credits

4 credits

ITT-380

GMC-451	Game Creation 3	4 credits
GDT-405	Advanced Game Programming	4 credits
<u>GMC-452</u>	Game Creation 4	4 credits

Game Development Major

76 credits

### **Bachelor of Science in Information Technology**

Grand Canyon University's Bachelor of Science in Information Technology prepares students for career options which include information systems manager, information security specialist, IT project manager, network support specialist, systems programmer, IT instructor, and system integrator. Students learn platform technologies, networking, information assurance, security and management, programming fundamentals, cloud computing, and web systems and technologies. Students also learn professional and ethical practices associated with information technology through the lens of our Christian worldview. Students will be prepared to enter careers in the rapidly expanding field of information technology. The program provides an understanding of the value of information technology and how it can improve the performance and efficiency, and lower cost of enterprise systems. Graduates will utilize technology to improve the deployment, configuration, and management of technologies using a variety of local and cloudbased platforms. Competencies include knowledge about ITdriven business, software technology and tools, enterprise information systems, and cyber-security. This program provides preparation in problem-solving using technology, with a focus on applied, hands-on activities, leveraging learners' current experience and certifications. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-confidence. Students entering the Bachelor of Science in Information Technology program should possess knowledge of algebra and common office software applications.

### **Degree Requirements**

**Total General Education** 

Total Information Technology Major

Total Electives		24-30 credits
Total Bachelor of Science in Information Technology		120 credits
Information	n Technology Major	
<u>ITT-111</u>	Introduction to Information Technology	4 credits
<u>ITT-116</u>	Platforms and Network Technologies	4 credits
<u>ITT-121</u>	System Administration and Maintenance	4 credits
<u>ITT-216</u>	Enterprise Route & Switch	4 credits
<u>ITT-307</u>	Cybersecurity Foundations	4 credits
SYM-400	Introduction to Database Structures	4 credits
<u>ITT-221</u>	Linux System Administration and Maintenance	4 credits
<u>ITT-316</u>	Edge Networks	4 credits
<u>ITT-321</u>	Cloud Systems Administration and Maintenance	4 credits
<u>ITT-430</u>	Security Driven Systems Administration	4 credits

Conduct and Ethics	
Technology-Communications,	
STG-390 <sup>Δ</sup> Professionalism in Science &	4 credits
<u>ITT-490</u> <sup>Ω</sup> IT Project Management Capston	ne 4 credits
BIT-415 IT Project Management	4 credits
SYM-408 Relational Databases for Busine Applications	

Information Technology Major

56 credits

### **Bachelor of Science in Information Technology** with an Emphasis in Cybersecurity

Grand Canyon University's Bachelor of Science in Information Technology with an emphasis in Cyber Security prepares students for career options which include information systems manager, information security specialist, IT project manager, network support specialist, systems programmer, IT instructor, and system integrator. Students learn platform technologies, networking, information assurance, security and management, programming fundamentals, cloud computing, and web systems and technologies. Students also learn professional and ethical practices associated with information technology through the lens of our Christian worldview. Students will be prepared to enter careers in the rapidly expanding field of information technology. The program provides an understanding of the value of information technology and how it can improve the performance and efficiency, and lower cost of enterprise systems. Graduates will utilize technology to improve the deployment, configuration, and management of technologies using a variety of local and cloud-based platforms. Competencies include knowledge about IT-driven business, software technology and tools, enterprise information systems, and cyber-security. This program provides preparation in problem-solving using technology, with a focus on applied, hands-on activities, leveraging learners' current experience and certifications. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability and self-confidence. The Cyber Security Emphasis exposes students to the relationships between cyber defense, cyber operations, and cyber law. Students acquire working knowledge of processes and goals of cyber forensics and develop plans and strategies for security architectures. The emphasis culminates with an IT capstone project in cybersecurity. Students entering the Bachelor of Science in Information Technology with an Emphasis in Cyber Security program should possess knowledge of algebra and common office software applications.

Degree Requirements			
Total Gener	ral Education	34-40 credits	
Total Information Technology with an Emphasis in Cybersecurity Major		68 credits	
Total Electives		12-18 credits	
Total Bachelor of Science in Information 120 credits Technology with an Emphasis in Cybersecurity			
Information Technology with an Emphasis in Cybersecurity Major			
<u>ITT-111</u>	Introduction to Information Technology	4 credits	
<u>ITT-116</u>	Platforms and Network	4 credits	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

34-40 credits

56 credits

Technologies

<u>ITT-121</u>	System Administration and Maintenance	4 credits
<u>ITT-216</u>	Enterprise Route & Switch	4 credits
<u>ITT-307</u>	Cybersecurity Foundations	4 credits
SYM-400	Introduction to Database Structures	4 credits
<u>ITT-221</u>	Linux System Administration and Maintenance	4 credits
<u>ITT-316</u>	Edge Networks	4 credits
<u>ITT-340</u>	Cybersecurity and Ethical Hacking	4 credits
<u>ITT-321</u>	Cloud Systems Administration and Maintenance	4 credits
BIT-415	IT Project Management	4 credits
<u>ITT-430</u>	Security Driven Systems Administration	4 credits
<u>ITT-375</u>	Cyber Forensic Investigations	4 credits
<u>SYM-408</u>	Relational Databases for Business Applications	4 credits
$\underline{\text{ITT-490}^{\Omega}}$	IT Project Management Capstone	4 credits
<u>ITT-425</u>	Analysis, Design, and Management of Secure Corporate Networks	4 credits
<u>STG-390</u> <sup>∆</sup>	Professionalism in Science &	4 credits
	Technology-Communications, Conduct and Ethics	
Information	Technology with an Emphasis in	68 credits

### **Bachelor of Science in Software Development**

Students who earn the Bachelor of Science in Software Development degree are able to work with web technologies, mobile technologies, and today's cloud platforms. They attain proficiency in several programming languages and web application frameworks. The technology courses that make up the Software Development degree coursework ensure graduates have a well-rounded understanding of the topics listed below and provide the students with solid skills in communication, teamwork, initiative, self-confidence, and a strong work ethic.

### **Degree Requirements**

Total General Education

Cybersecurity Major

Total Software Development Major		60 credits
Total Electives		20-26 credits
Total Bachelor of Science in Software Development		120 credits
Software Do	evelopment Major	
CST-120	Introduction to Web Development	4 credits
CST-105	Computer Programming I	4 credits
CST-150	Programming in C# I	4 credits
CST-239	Programming in Java II	4 credits
CST-250	Programming in C# II	4 credits
CST-345	Database Design & Development	4 credits
CST-321	Operating Systems Fundamentals	4 credits
CST-201	Algorithms and Data Structures	4 credits
CST-339	Programming in Java III	4 credits
CST-350	Programming in C# III	4 credits

<u>CST-391</u>	JavaScript Web Application Development	4 credits
CST-323	Cloud Computing	4 credits
<u>CST-326</u>	Written and Verbal Communication for Software Development	4 credits
<u>CST-451</u> <sup>Ω</sup>	Senior Project I	2 credits
CST-407	Application Security Foundations	4 credits
$\underline{\text{CST-452}}^{\Omega}$	Senior Project II	2 credits
Software De	evelopment Major	60 credits

# Bachelor of Science in Software Development with an Emphais in Mobile App Development

Students who earn the Bachelor of Science in Software Development degree with a Mobile App Development emphasis are able to work with web technologies, mobile technologies, and today's cloud platforms. They attain proficiency in several programming languages and web application frameworks. The technology courses that make up the Software Development degree coursework ensure graduates have a well-rounded understanding of the topics listed below and provide the students with solid skills in communication, teamwork, initiative, self-confidence, and a strong work ethic. In addition to the core program, students will take a three-track sequence of courses focused on mobile application development using the top mobile application development platforms/frameworks.

### **Degree Requirements**

Total General Education	34-40 credits
Total Software Development with an Emphasis in Mobile App Development Major	72 credits
Total Electives	8-14 credits
Total Bachelor of Science in Software Development with an Emphasis in Mobile App Development	120 credits
Software Development Major	
CCT 120 Introduction to Web Development	4 credits

Introduction to Web Development	4 credits
Computer Programming I	4 credits
Programming in C# I	4 credits
Programming in Java II	4 credits
Programming in C# II	4 credits
Database Design & Development	4 credits
Programming in Java III	4 credits
Algorithms and Data Structures	4 credits
Operating Systems Fundamentals	4 credits
Programming in C# III	4 credits
JavaScript Web Application Development	4 credits
Native Mobile App Development	4 credits
Cloud Computing	4 credits
Written and Verbal Communication	4 credits
for Software Development Cross-platform Mobile App Development	4 credits
Senior Project I	2 credits
	Computer Programming I Programming in C# I Programming in Java II Programming in C# II Database Design & Development Programming in Java III Algorithms and Data Structures Operating Systems Fundamentals Programming in C# III JavaScript Web Application Development Native Mobile App Development Cloud Computing Written and Verbal Communication for Software Development Cross-platform Mobile App Development

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

34-40 credits

		72 1:4-
$\underline{\text{CST-452}}^{\Omega}$	Senior Project II	2 credits
CST-355	Advanced Mobile Development	4 credits
CST-407	Application Security Foundations	4 credits

Software Development with and Emphasis in Mobile App Development Major

72 credits

### **Bachelor of Science in Software Engineering**

The Bachelor program in Software Engineering spans software engineering principles, processes and practices with application to a series of complex systems and challenges faced by enterprises in a variety of private and public (ex. Government) sectors. A particular emphasis is placed on embedded systems, system verification, design, architecture, software analysis, process and project management, and the Software Development Lifecycle (SDLC). Graduates of the Bachelor of Science in Software Engineering may take roles within an organization, at any stage of the software development life cycle such as Software Engineer, Project Manager, Embedded Software Engineer, Systems Analyst, Chief Technology Officer (CTO, Chief Information Officer (CIO), and many others. Graduates of the Software Engineering program may work in a variety of settings, including embedded applications development, social media companies, healthcare providers, large corporations, software engineering corporations, financial institutions, insurance companies, educational institutions, technology suppliers, consulting firms, research facilities, and more. The program culminates in a capstone course that provides an opportunity for students to develop an evidence-based practice project proposal that addresses a current problem, issue, or concern in software engineering. Students identify a problem amenable to researchbased intervention; search literature; propose a solution; develop a theoretical model, a system architecture, an implementation plan for a software solution, then evaluate its outcome(s), and disseminate the findings.

### **Degree Requirements**

Total General Education	34-40 credits
Total Software Engineering	88 credits
Total Electives	0-6 credits

128 credits Total Bachelor of Science in Software Engineering

### **Required General Education**

(Included in General Education totals credits, applied to the Global Awareness competency.)

<u>CST-320</u> <sup>∆</sup>	<b>Human-Computer Interaction</b>	4 credits
	and Communication & Lab	4 11.
<u>CYB-420</u>	Global Perspectives on Cyberwarfare	4 credits

(Included in General Education totals credits, applied to the Critical Thinking competency.)

MAT-262	Calculus for Science and Engineering I	4 credits
<u>CHM-113</u>	General Chemistry I	3 credits
<u>CHM-113L</u>	General Chemistry I Lab	1 credit
CHM-115	General Chemistry II	3 credits
<u>CHM-115L</u>	General Chemistry II Lab	1 credit

(Included in General Education totals credits, applied to the Effective Communication competency.)

STG-390	Professionalism in Science &	4 credits
<u>510 570</u>	Technology - Communications,	
	Conduct, and Ethics	

### **Software Engineering Major**

	0 0	
CST-105	Computer Programming I	4 credits
<u>CST-210</u>	Object Oriented Programming & Lab	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
<u>MAT-264</u>	Calculus for Science and Engineering II	4 credits
<u>CST-135</u>	Computer Programming II	4 credits
CST-201	Algorithms and Data Structures	4 credits
<u>MAT-374</u>	Calculus Based Probability and Statistics	4 credits
PHY-122	University Physics II	3 credits
<u>PHY-122L</u>	University Physics II Lab	1 credit
MAT-345	Applied Linear Algebra I	4 credits
<u>CST-307</u>	Introduction to Computer Architecture & Lab	4 credits
<u>SWE-310</u>	Software Engineering I	4 credits
<u>CST-215</u>	Digital Logic and Design Lecture & Lab	4 credits
CST-310	Computer Graphics & Lab	4 credits
CST-315	Operating Systems & Lab	4 credits
SWE-350	Embedded Systems I	4 credits
CST-341	Open Source Computing	4 credits
$\underline{\text{STG-451}}^{\Omega\Delta}$	Capstone Project I	2 credits
SWE-451	Software Development Life Cycle (SDLC) I	2 credits
SYM-400	Introduction to Database Structures	4 credits
SWE-410	Software Engineering II	4 credits
$STG-452^{\Omega\Delta}$	Capstone Project II	2 credits
<u>SWE-452</u>	Software Development Life Cycle (SDLC) II	2 credits
<u>SYM-408</u>	Relational Databases for Business Applications	4 credits
SWE-450	Embedded Systems II	4 credits

### **Undergraduate Certificate for Computer Numerical Control (CNC)** Machinist/Manufacturing

This program focuses on equipping students with the knowledge and skills necessary start on the path toward become a CNC machinist. Students will gain skills in workplace safety, communication, applied mathematics, workplace success, and how to be a CNC machinist.

### **Degree Requirements**

JRE-105	Finding Success as a CNC	4 credits
	Machinist	
JRE-111	English for Professional Written	4 credits
	and Verbal Communication	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

JRE-121	Math Applications	4 credits
<u>JRE-171</u>	<b>CNC Machinist Foundations</b>	4 credits
Undergrad	uate Certificate for Computer	24 credits
Numerical	Control (CNC)	

Numerical Control (CNC) Machinist/Manufacturing

# **Undergraduate Certificate in Cybersecurity Foundations**

This certificate provides students with concepts and practical application of cybersecurity tools, technologies, and procedures. Deploying advanced techniques in exploitation, vulnerability assessment, penetration testing, policy management, security program design, and cyber defense activities, with real-world hands-on practical activities that go beyond theory are integrated within this certificate.

### **Degree Requirements**

<u>ITT-111</u>	Introduction to Information Technology	4 credits
<u>ITT-116</u>	Platforms and Network Technologies	4 credits
<u>ITT-121</u>	System Administration and Maintenance	4 credits
<u>ITT-307</u>	Cybersecurity Foundations	4 credits
<u>ITT-340</u>	Cybersecurity and Ethical Hacking	4 credits
<u>ITT-375</u>	Cyber Forensic Investigations	4 credits
Undergraduat Foundations	te Certificate in Cybersecurity	24 credits

### **Undergraduate Certificate for Electricians**

This program focuses on equipping students with the knowledge and skills necessary to start on the path toward becoming an electrician. Students will gain skills in workplace safety, communication, applied mathematics, workplace success, and how to be an electrician.

### **Degree Requirements**

Undergradua	ate Certificate for Electricians	24 credits
JRE-131	Electrical Foundations	4 credits
<u>JRE-121</u>	Math Applications	4 credits
<u>JRE-111</u>	English for Professional Written and Verbal Communication	4 credits
<u>JRE-101</u>	Finding Success in the Electrical Trades	4 credits

# **Undergraduate Certificate in Full-Stack Software Development**

Certificate learners develop foundational knowledge and handson experience in the development of a Web-based application. The six-course sequence encompasses experience with the tools and development skills needed to build a full-stack web application from the user interface (UI) to the data storage component. The student will connect the UI and data using Java and REST technologies, providing the complete pathway. By combining the courses in the program, the student will be able to enter the in-demand career of web and application development. The program focuses on understanding web technologies and the various activities expected in a job as a Full Stack Developer within the Java technology stack. Each class builds on the previous content while teaching the student about the methodology and tools involved in tackling the Full-Stack development process.

### **Degree Requirements**

CST-239 Programming in Java II 4 cm CST-339 Programming in Java III 4 cm CST-345 Database Design & Development 4 cm CST-391 JavaScript Web Application Development	redits redits
CST-239 Programming in Java II 4 cm CST-339 Programming in Java III 4 cm CST-345 Database Design & Development 4 cm CST-391 JavaScript Web Application 4 cm	redits
CST-239 Programming in Java II 4 cm CST-339 Programming in Java III 4 cm CST-345 Database Design & Development 4 cm	redits
CST-239 Programming in Java II 4 cm CST-339 Programming in Java III 4 cm	
CST-239 Programming in Java II 4 cm	redits
CST-239 Programming in Java II 4 cm	redits
CST-105 Computer Programming I 4 cm	redits
	redits
CST-120 Introduction to Web Development 4 cm	redits

Undergraduate Certificate for Full-Stack Software Development 28 credits

# **Undergraduate Certificate of Completion in Java Programming**

This certificate offers expanding opportunities for students to learn in-demand programming skills. This certificate is applicable to any major and provides the requisite knowledge that aligns with a certificate in Java Programming. Enhancing your knowledge in computer programming, this certificate focuses on object-oriented techniques in Java, software development using the Java programming language and building applications using software engineering methods. You will also learn concepts and techniques for improving new code and refactoring existing code. This certificate concludes with skills in professional communications and conduct associated with a career in technology.

### **Degree Requirements**

CST-105	Computer Programming I	4 credits
CST-239	Programming in Java II	4 credits
CST-339	Programming in Java III	4 credits
<u>CST-345</u>	Database Design & Development	4 credits
Undergraduate Programming	e Certificate of Completion in Java	16 credits

### **Undergraduate Certificate in Programming in C#**

Certificate learners develop foundational knowledge and handson experience in the development of software applications. The four-course sequence encompasses experience with the tools and development skills needed to build C# web and desktop applications. The lessons in development include everything from the core programming language to the deployment of applications. The student will connect the front-end tools from a .NET (C#) framework and server-side C# application to provide the complete pathway. By combining the courses in the program, the student will be able to enter the in-demand career of C# software and application development. The focus of the series of courses entails understanding programming technologies and the various activities expected in a job as a Developer. Each class builds on the previous content while teaching the student about the methodology and tools involved in tackling the software development process.

### **Degree Requirements**

CST-150	Programming in C# I	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>†</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

		1 . 11
CST-201	Algorithms and Data Structures	4 credits
CST-350	Programming in C# III	4 credits
CST-250	Programming in C# II	4 credits

Undergraduate Certificate in Programming in C# 16 credits

### **Bridge (Master of Science in Cybersecurity)**

Grand Canyon University's Master of Science in Cyber Security program trains students on using current, open source, and advanced techniques in digital forensics, penetration testing, vulnerability assessment, exploitation techniques, and other software and applications to protect organizations' systems, data, and processes. This program focuses on the various areas of cybersecurity, providing students with the tools to understand and protect against the enemy in Cyber Warfare/Cyber Defense activities; including an exploration of policies, cyber law, national and international ramifications, and ethical considerations. Students enrolled in this program will gain the technical skills and hands-on experience with real world data integrating a Christian worldview into cybersecurity. These students, applying the Hackers-with-Halos<sup>TM</sup> methodology, will build and become part of a vast network of highly-skilled professionals and white-hat penetration testers in the field of Cybersecurity.

<u>CST-111</u>	Introduction to Computer Science	4 credits
	and Information Technology	
<u>ITT-116</u>	Platforms and Network	4 credits
	Technologies	
ITT-121	System Administration and	4 credits
	Maintenance	
<u>ITT-307</u>	Cybersecurity Foundations	4 credits
Bridge (Ma	ster of Science in Cybersecurity)	16 credits

# Bridge (Master of Science in Software Development)

CST-105	Computer Programming I	4 credits
CST-239	Programming in Java II	4 credits
CST-345	Database Design & Development	4 credits
CYB-300	Fundamentals in Cyber Security	4 credits
Bridge (Master of Science in Software		16 credits
Development)		

# **Bridge (Master of Science in Software Engineering)**

MAT-252	Calculus and Analytic Geometry I	4 credits
MAT-253	Calculus and Analytic Geometry II	4 credits
CST-105	Computer Programming I	4 credits
CST-239	Programming in Java II	4 credits
CST-201	Algorithms and Data Structure	4 credits

Bridge (Master of Science in Software 20 credits Engineering)

### Master of Science in Artificial Intelligence

The Master of Science in Artificial Intelligence (AI) program focuses on designing, developing, and deploying intelligent systems. This degree program covers various topics, including

machine learning, natural language processing, SDLC, and ethics. The curriculum provides students with a strong foundation in computer science, mathematics, development, and software engineering, and an in-depth understanding of AI technologies and their applications. Graduates of this program will be equipped with the skills and knowledge necessary to pursue careers in industries such as technology, finance, healthcare, transportation, and academia.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
DSC-505	Statistics and Computing Foundations for Data Science and AI	4 credits
<u>AIT-515</u>	Programming Foundations	4 credits
<u>AIT-525</u>	Mathematics for AI	4 credits
<u>AIT-530</u>	Statistics & Data Analysis	4 credits
<u>AIT-535</u>	Machine Learning	4 credits
AIT-540	Deep Learning	4 credits
<u>AIT-545</u>	Ethics in AI	4 credits
<u>AIT-550</u>	AI Applications Development and	4 credits
<u>AIT-555</u>	Deployment Machine Learning for Text Processing	4 credits
AIT-560	Computer Vision	4 credits
<u>AIT-565</u>	Capstone in AI	4 credits
3.5		16 anadita

Master of Science in Artificial Intelligence

46 credits

### **Master of Science in Computer Science**

The Master of Science in Computer Science is designed for Computer Science or for Engineering and other Science professionals with a strong background in areas related to Computer Science, who want to deepen their knowledge of the interplay between computer science and how theory and practice influence each other. The master program in Computer Science spans topics in abstraction, complexity, evolutionary change, and a set of general principles, such as sharing common resources, security, and concurrency. Graduates will be able to design, implement, and improve theoretical and functional systems based on quantitative and qualitative assessments of their functionality, usability and performance. Graduates of the Master of Science in Computer Science may take on senior and leadership roles within an organization such as Researcher, Algorithm Designer, Enterprise Software Tool Developer, Senior Software Architect, Senior Software Developer, Director of Software Development, and many others. Graduates of the Computer Science program may work in a variety of settings, including game developers, social media companies, healthcare providers, large corporations, financial institutions, insurance companies, educational institutions, technology suppliers, consulting firms, research facilities, and more. The program culminates in a capstone course that provides an opportunity for students to develop an evidence-based practice project proposal that addresses a current problem, issue, or concern in computer science. Students identify a problem amenable to research-based intervention; search literature; propose a solution; and develop a theoretical model and implement the software solution, evaluate its outcome(s), and disseminate the findings. The Master of Science in Computer

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Science prepares graduates for pursuing a doctoral degree in Computer Science or related disciplines.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
DSC-510	Advanced Probability and Statistics	4 credits
CST-520	Design and Analysis of Algorithms	4 credits
<u>SWE-520</u>	Adavanced Software Engineering Fundamentals	4 credits
CST-535	Principles of Computer Security	4 credits
CST-545	Programming for Artificial	4 credits
	Intelligence	
CST-560	Research Methods in	4 credits
	Computational Sciences	
CST-570	Machine Learning for Computer	4 credits
	Science	
CST-585	Advanced Applications in AI	4 credits
$\underline{\text{CST-590}^{\Omega}}$	Computer Science Capstone Project	4 credits
Master of Sc	cience in Computer Science	38 credits

### Master of Science in Cybersecurity

Grand Canyon University's Master of Science in Cyber Security program trains students on using current, open source, and advanced techniques in digital forensics, penetration testing, vulnerability assessment, exploitation techniques, and other software and applications to protect organizations' systems, data, and processes. This program focuses on the various areas of cybersecurity, providing students with the tools to understand and protect against the enemy in Cyber Warfare/Cyber Defense activities; including an exploration of policies, cyber law, national and international ramifications, and ethical considerations. Students enrolled in this program will gain the technical skills and hands-on experience with real world data integrating a Christian worldview into cybersecurity. These students, applying the Hackers-with-Halos<sup>TM</sup> methodology, will build and become part of a vast network of highly-skilled professionals and white-hat penetration testers in the field of Cybersecurity.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
CYB-505	Cyber Warfare and Applications	4 credits
<u>CYB-515</u>	Enterprise Security Infrastructure Design	4 credits
<u>CYB-525</u>	Technology Implementation of Security Solutions	4 credits
<u>CYB-535</u>	Policy Management for Security Solutions	4 credits
<u>CYB-610</u>	Penetration Testing and Risk Management	4 credits
<u>CYB-630</u>	Enterprise Cyber Law and Compliance Strategies	4 credits
CYB-650	Innovation in Security Frameworks	4 credits
<u>CYB-690</u>	Cybersecurity Program Development	4 credits
Master of Sc	cience in Cybersecurity	34 credits

### **Master of Science in Data Science**

The Master of Science in Data Science program is designed for computer science or engineering professionals who want to better understand and apply predictive analytics theory, principles, and tools to a wide variety of problems in science, engineering, and business. The Data Science master program spans interdisciplinary topics such as predictive analytics, computing, statistics, business intelligence, machine learning, and software tools. The program culminates in a capstone course that provides an opportunity for students to develop an evidence-based practice project proposal that addresses a current problem, issue, or concern in data science. Students identify a problem amenable to research-based intervention; search literature; propose a solution; and develop a plan to implement the solution, evaluate its outcome(s), and disseminate the findings.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
<u>DSC-505</u>	Statistics and Computing Foundations for Data Science and AI	4 credits
DSC-510	Advanced Probability and Statistics	4 credits
DSC-515	Data Modeling and Analysis	4 credits
<u>DSC-517</u>	Applied Data Modeling and Analysis	4 credits
DSC-525	Foundations of Data Visualizations	4 credits
DSC-527	Applied Data Visualizations	4 credits
DSC-555	Data Science Project	4 credits
<u>DSC-565</u>	Machine Learning Operations (MLOps) in Data Science	4 credits
DSC-567	Practical Applications of MLOps	4 credits
DSC-575	Time Series Analysis	4 credits
<u>DSC-577</u>	Practical Applications of Time Series Forecasting	4 credits
$\overline{\mathrm{DSC-590^{\Omega}}}$	Data Science Capstone Project	4 credits
Master of Sc	cience in Data Science	50 credits

### **Master of Science in Electrical Engineering**

The Master of Science in Electrical Engineering degree focuses on preparing working engineers for leadership roles focused on the development and design of new technologies.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
CYB-505	Cyber Warfare and Applications	4 credits
EEE-500	Advanced Probability and Stochastic Processes	4 credits
EEE-510	Feedback Systems	4 credits
EEE-520	Random Signal Theory	4 credits
EEE-525	Advanced Digital Communication Systems	4 credits
EEE-530	Wireless Communication Technologies	4 credits
EEE-535	Electric Drive Systems	4 credits
EEE-540	Electric and Hybrid Electric Vehicles	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EEE-545	Smart Grids	4 credits
Master of S	cience in Electrical Engineering	38 credits

### **Master of Science in Engineering Management**

Grand Canyon University's Master of Science in Engineering Management program equip graduates with the skills for leadership and management in the engineering sector. It integrates advanced engineering principles with business concepts, highlighting project management, team dynamics, and effective communication. Graduates will excel in decisionmaking, process optimization, innovation facilitation, and compliance assurance. They will spearhead organizational expansion while supervising diverse tasks, setting goals, managing staff, and aligning work with quality and regulatory standards to enhance technology and infrastructure, all while upholding the highest ethical standards.

### **Degree Requirements**

CYB-505	Cyber Warfare and Applications	4 credits
ENM-510	Lean Manufacturing I	4 credits
ESG-600	Standards	4 credits
MGT-605	Leadership and Organizations	4 credits
MGT-640	Fundamentals of Project Management	4 credits
MGT-641	Agile Project Management	4 credits
MKT-607	Marketing Management	4 credits
<u>SYS-501</u>	Introduction to Systems Engineering	4 credits
SYS-520	Complexity Theory	4 credits
<u>UNV-507 Ω</u>	Introduction to Graduate Studies in Science, Engineering and Technology	2 credits
Master of Sc	cience in Engineering Management	38 credits

### **Master of Science in Systems Engineering**

Grand Canyon University's Master of Science in Systems Engineering program is designed for professionals who are looking to advance their career. It aims to cultivate skilled professionals capable of designing, developing, and implementing innovative and sustainable solutions for complex engineering challenges in diverse industries and domains. Graduates of this program are equipped to oversee the application of technology in a corporate setting, as well as provide an understanding of the complex forces governing industry. Graduates understand advanced concepts and practices within the realm of systems development and engineering, opening doors to diverse industries such as aerospace, technology, energy, transportation, manufacturing, and related fields.

### **Degree Requirements**

ESG-501	Applied Math	4 credits
ESG-510	Knowledge Management	4 credits
ESG-600	Standards	4 credits
MGT-605	Leadership and Organizations	4 credits
<u>SYS-501</u>	Introduction to Systems Engineering	4 credits
<u>SYS-520</u>	Complexity Theory	4 credits

	Technology	38 credits
	Science, Engineering and	
<u>UNV-507 Ω</u>	Introduction to Graduate Studies in	2 credits
<u>SYS-620</u>	Model-Based Tools	4 credits
<u>SYS-610</u>	System Architecture II	4 credits
SYS-601	System Architecture I	4 credits

Master of Science in Systems Engineering

38 credits

### Master of Science in Information Technology

Grand Canyon University's Master of Science in Information Technology (MSIT) program prepares students for a diverse range of career fields by expanding knowledge of the latest emerging technologies including operating systems, networks, and databases. This program focuses on providing students with innovative hands-on technical skills and real-world leadership know-how to create the well-rounded technical manager companies are looking for to lead their teams into the future.

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in CSET	2 credits
CYB-505	Cyber Warfare and Applications	4 credits
<u>CYB-515</u>	Enterprise Security Infrastructure Design	4 credits
<u>CYB-525</u>	Technology Implementation of	4 credits
<u>CYB-535</u>	Security Solutions Policy Management for Security	4 credits
MIS-602	Solutions Innovation in Information	4 credits
<u>ITT-610</u>	Technology and Data Management IT Development and Cloud	4 credits
ITT-640	Computing Information Systems Management	4 credits
ITT-660	and Systems Development IT Project Management and the	4 credits
	Global Economy	
Master of Sc	cience in Information Technology	34 credits

### Master of Science in Software Development

Master of Science in Information Technology

A program that focuses on the general writing and implementation of generic and customized programs to drive operating systems and that generally prepares individuals to apply the methods and procedures of software design and programming to software installation and maintenance. Includes instruction in software design, low- and high-level languages and program writing; program customization and linking; prototype testing; troubleshooting; and related aspects of operating systems and networks.

### **Degree Requirements**

UNV-507 Ω	Introduction to Graduate Studies in	2 credits
	CSET	
SWE-520	Advanced Software Engineering	4 credits
	Fundamentals	
SDD-610	Software Design and Architecture	4 credits
SWE-530	Advanced Software Architectures	4 credits
SWE-540	Advanced Software Management &	4 credits
	Concepts	
SDD-620	Advanced Database Design and	4 credits
	Administration	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

		24 gradita
SDD-680	Software Maintenance and Testing	4 credits
SDD-640	Secure Coding	4 credits
SDD-630	Mobile Software Development	4 credits

Master of Science in Software Development

34 credits

### **Master of Science in Software Engineering**

The Master of Science in Software Engineering prepares students to work at any stage of the software development life cycle. This contains eliciting project requirements, writing algorithms, development, validating that the software is meeting its intended purpose and verifying that it is safe, secure and dependable. Software engineers concentrate on how a software project is performing by being knowledgeable of software development life cycles, different software development processes, estimation techniques and measurement, and risk management. The primary objective of this program is to prepare students to develop the next generation of software products and services for consumers. industry, and government. The curriculum includes comprehensive, intensive coverage of modern software concepts and techniques, and emphasizes a holistic approach encompassing financial, legal, and presales issues; technical concepts; security; software design techniques; methods; and project management. Graduates of the Master of Science in Software Engineering may take on senior and leadership roles within an organization, at any stage of the software engineering life cycle such as Lead Software Engineer, Project Manager, Embedded Software Engineer, Systems Architect, and many others. Graduates of the Software Engineering program may work in a variety of settings, including mobile application development, game development, social media companies, healthcare providers, large corporations, financial institutions, insurance companies, educational institutions, technology suppliers, consulting firms, research facilities, and more.

### **Degree Requirements**

$\underline{\text{UNV-507}^{\Omega}}$	Introduction to Graduate Studies in CSET	2 credits
DSC-510	Advanced Probability and Statistics	4 credits
CST-520	Design and Analysis of Algorithms	4 credits
<u>SWE-520</u>	Advanced Software Engineering Fundamentals	4 credits
SWE-530	Advanced Software Architectures	4 credits
<u>SWE-540</u>	Advanced Software Management & Concepts	4 credits
<u>SWE-550</u>	Software Engineering & Security Principles	4 credits
<u>SWE-560</u>	Research & Review of Emerging Technologies in Software	4 credits
SWE-570	Engineering Software Engineering IOT & Embedded Systems	4 credits
<u>SWE-590</u>	Software Engineering Capstone	4 credits
Master of Sc	cience in Software Development	38 credits

### **Graduate Certificate in Artificial Intelligence**

The Graduate Certificate in Artificial Intelligence is an intensive 20-credit program designed for academic and professional individuals seeking foundational knowledge in the rapidly evolving field of AI. This program combines theoretical

underpinnings with practical applications to equip participants with the requisite skills to navigate the AI landscape effectively. Upon successful completion, graduates will be equipped to apply AI concepts and tools to diverse academic, industry, or research challenges. The GCAI serves as a stepping stone for those looking to delve deeper into AI specializations or integrate AI capabilities into their existing roles. Audience: Researchers transitioning to AI domains Professionals aiming to integrate AI into their business processes Computer scientists and engineers seeking specialized knowledge in AI Academic professionals aiming to teach or incorporate AI concepts into the curriculum.

### **Degree Requirements**

<u>DSC-505</u>	Statistics and Computing Foundations for Data Science and AI	4 credits
AIT-515	Programming Foundations	4 credits
AIT-525	Mathematics for AI	4 credits
<u>AIT-530</u>	Statistics & Data Analysis	4 credits
<u>AIT-535</u>	Machine Learning	4 credits
Graduate Certificate in Artificial Intelligence		20 credits

### **Graduate Certificate in Cybersecurity**

The Cybersecurity Graduate Certificate program at Grand Canyon University is designed for professionals with a bachelor's degree in a different field who are looking to advance their careers in cybersecurity. The program provides students with the technical skills, ethical decision-making abilities, and communication skills necessary to protect organizations from cyber-attacks. Upon completion of the program, graduates will be prepared to lead technical cybersecurity teams. The program is offered online and is designed to be affordable.

### **Degree Requirements**

CYB-505	Cyber Warfare and Applications	4 credits
CYB-515	Enterprise Security Infrastructure	4 credits
	Design	
CYB-525	Technology Implementation of	4 credits
	Security Solutions	
CYB-535	Policy Management for Security	4 credits
	Solutions	
CYB-610	Penetration Testing and Risk	4 credits
	Management	
Graduate Certificate in Cybersecurity		20 credits

### **Engineering Programs**

### **Bachelor of Science in Biomedical Engineering**

Grand Canyon University's Bachelor of Science in Biomedical Engineering was developed with industry and clinical guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in biomedical engineering and related fields, such as medical devices, medical imaging, tissue engineering and implantable design, government regulatory compliance, clinical research, and biomedical research. This program teaches topics and assesses competency in multidisciplinary engineering design principles linked with knowledge of human anatomy and physiology, including: biomechanics, materials properties/biocompatibility, biomedical instrumentation and imaging, and tissue engineering. This

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

program integrates math, natural sciences, and computer programming with an emphasis on critical thinking, problem solving, real-world application and practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. Biomedical engineering graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning.

### **Degree Requirements**

Total General Education	34-40 credits
Total Biomedical Engineering Major	90 credits
Total Electives	0-6 credits
Total Bachelor of Science in Biomedical	128 credits

Engineering

### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

ESG-395	Engineering Economics and	4 credits
	Project Management	

(Included in General Education total credits, applied to the Critical Thinking competency.)

ESG-162	Engineering Math	3 credits
ESG-162L	Engineering Math Lab	1 credit
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
CHM-113	General Chemistry I	3 credits
<u>CHM-113L</u>	General Chemistry I Lab	1 credit

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

ESG-210	Engineering Innovation & Lab	2 credits
ESG-220	Introduction to Engineering Design and Prototyping & Lab	2 credits
BME-471	Biomedical Design Elements I	2 credits

### Bi

Biomedical E	Engineering Major	
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
MAT-262	Calculus for Science and Engineering I	4 credits
<u>ESG-111</u>	Introduction to Engineering Programming & Lab	4 credits
<u>MAT-264</u>	Calculus for Science and Engineering II	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
ESG-251	Computer Aided Design & Lab	2 credits
ESG-374	Design of Experiment and Quality Analysis	2 credits
PHY-122	University Physics II	3 credits
PHY-122L	University Physics II Lab	1 credit
<u>MAT-364</u>	Differential Equations for Science and Engineering	4 credits
ESG-260	Statics	4 credits

EEE-202	Circuits	3 credits
EEE-202L	Circuits Lab	1 credit
BME-352	Bio-Solid Mechanics & Lab	4 credits
STG-330	Thermodynamics & Lab	4 credits
BME-356	Biomaterials	3 credits
BME-356L	Biomaterials Lab	1 credit
ESG-345	Fluid Mechanics & Lab	4 credits
BME-361	Biomechanics & Lab	4 credits
ESG-384	Applied Engineering Stochastic Processes	2 credits
BME-260	Survey of Tissue Engineering	2 credits
BME-460	Biomedical Instrumentation and Devices & Lab	4 credits
$ESG-451^{\Omega\Delta}$	Capstone Project I	2 credits
BIO-360	Medical Physiology	3 credits
BIO-360L	Medical Physiology – Lab	1 credit
$ESG-452^{\Omega\Delta}$	Capstone Project II	2 credits
BME-480	Bioimaging	3 credits
BME-480L	Bioimaging Lab	1 credit
BME-472	Biomedical Design Elements II	2 credits
BME-465	Advanced Biomedical Instrumentation and Devices &	4 credits
	Lab	
BIO-457	Genetics	4 credits
Biomedical E	Engineering Major	90 credits

### **Bachelor of Science in Computer Engineering**

Grand Canyon University's Bachelor of Science in Computer Engineering was developed with industry guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in computer engineering and related fields, such as computer hardware design, control systems, project engineering, electronics, test engineering, or engineering sales. This program teaches topics and assesses competency in operating systems, circuits, signals, communications, algorithms and data structures, computer architecture, and controls. This program integrates math, natural sciences, and computer programming with an emphasis on critical thinking, problem solving, real-world application and practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. Computer engineering graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning.

### **Degree Requirements**

Total General Education	34-40 credits
Total Computer Engineering Major	88 credits
Total Electives	0-6 credits
Total Bachelor of Science in Computer Engineering	128 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

-	eneral Education		CEE-312	Advanced Embedded Systems	4 credits
	General Education total credits, applied munication competency.)	to the	EEE-431	Design & Lab Communications Signal Processing	4 credits
ESG-395	Engineering Economics and Project Management	4 credits	$ESG-451^{\Omega\Delta}$	& Lab Capstone Project I	2 credits
	General Education total credits, applied king competency.)	to the	<u>CST-307</u>	Introduction to Computer Architecture Lecture & Lab	4 credits
ESG-162	Engineering Math	3 credits	<u>EEE-320</u>	Electronics and Devices & Lab	4 credits
ESG-162L	Engineering Math Lab	1 credit	$ESG-452^{\Omega\Delta}$	Capstone Project II	2 credits
PHY-121	University Physics I	3 credits	<u>CST-315</u>	Operating Systems Lecture & Lab	4 credits
PHY-121L	University Physics I Lab	1 credit	<u>CEE-440</u>	Applied Research in Computer Engineering	4 credits
CHM-113	General Chemistry I	3 credits	Computer E	ngineering Major	88 credits
CHM-113L	General Chemistry I Lab	1 credit	-		on
(Included in	General Education total credits, applied eness, Perspectives, and Ethics competen			of Science in Engineering with in Project Management	an
ESG-210	Engineering Innovation & Lab	2 credits		on University's Bachelor of Science in l	
ESG-220	Introduction to Engineering Design	2 credits		nasis in Project Management was develorance to address the broad, foundational	
<u>ESU-220</u>	and Prototyping & Lab	2 credits	and skills req	uired to meet or exceed the expectation	is of
<u>CEE-473</u>	Computer Engineering Design Principles I & Lab	2 credits	project mana	various engineering and related fields, gement, design or test engineering, man	nufacturing
<u>CEE-474</u>	Computer Engineering Design Principles II & Lab	2 credits		or engineering sales. This program teac competency in circuits, solid mechanic	
Computer F	Ingineering Major		mechanics, th	nermodynamics, materials science, heat	transfer, and
MAT-262	Calculus for Science and Engineering I	4 credits	natural science	project management. This program interces, and computer programming with a	n emphasis
CHM-115	General Chemistry II – Lecture	3 credits		nking, problem-solving, real-world appeter management experience. The Chris	
CHM-115L	General Chemistry II – Lab	1 credit	worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. BS in		
ESG-111	Introduction to Engineering Programming & Lab	4 credits			
ESG-251	Computer Aided Design & Lab	2 credits		graduates enters the workforce prepared s, communicate effectively, and pursue	
<u>MAT-264</u>	Calculus for Science and Engineering II	4 credits	roles and adv	ranced learning.	reactions
ESG-260	Statics	4 credits	Degree Requ		34-40 credits
EEE-202	Circuits	3 credits		tar Education	88 credits
EEE-202L	Circuits Lab	1 credit	Total Engin Robotics M	eering with an Emphasis in	88 Cleuits
MAT-364	Differential Equations for Science	4 credits	Total Electi	•	0-6 credits
PHY-122	and Engineering University Physics II	3 credits		elor of Science in Engineering phasis in Project Management	128 credits
PHY-122L	University Physics II Lab	1 credit		eneral Education	
EEE-212	Embedded Systems and Assembly Language & Lab	2 credits	(Included in	General Education General Education total credits, applic nmunication competency.)	ed to the
ESG-374	Design of Experiment and Quality Analysis	2 credits	STG-390 <sup>∆</sup>	Professionalism in Science and	4 credits
ESG-384	Applied Engineering Stochastic Processes	2 credits	<u>513 570</u>	Technology – Communications, Conduct, and Ethics	
MAT-345	Applied Linear Algebra I	4 credits		General Education total credits, applie	d to the
EEE-315	Digital Circuits & Lab	4 credits		king competency.)	2 "
EEE-213	Signals and Systems	3 credits	<u>CHM-113</u>	General Chemistry I	3 credits
<u>EEE-213L</u>	Signals and Systems Lab	1 credit	<u>CHM-113L</u>		1 credit
<u>CEE-300</u>	Data Structures, Algorithms, and Numerical Recipes	4 credits	ESG-162	Engineering Math	3 credits
EEE-480	Linear and Nonlinear Control	4 credits	ESG-162L	Engineering Math Lab	1 credit
	Systems Design & Lab		<u>PHY-121</u>	University Physics I	3 credits
			PHY-121I	University Physics I Lab	1 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

1 credit

University Physics I Lab

PHY-121L

(Included in General Education total credits, applied to the
Global Awareness, Perspectives, and Ethics competency.)

ESG-210	Engineering Innovation & Lab	2 credits	proc
ESG-220	Introduction to Engineering Design and Prototyping & Lab	2 credits	prog anal sign
Engineering	with an Emphasis in Project Manage	ment Major	cont
CHM-115	General Chemistry II – Lecture	3 credits	com

	with the zamphassis in 1 to jeet withingering	
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
<u>MAT-262</u>	Calculus for Science and Engineering I	4 credits
ESG-111	Introduction to Engineering Programming & Lab	4 credits
<u>MAT-264</u>	Calculus for Science and Engineering II	4 credits
ESG-251	Computer Aided Design & Lab	2 credits
ESG-374	Design of Experiments and Quality Analysis	2 credits
PHY-122	University Physics II	3 credits

University Physics II Lab 1 credit PHY-122L Differential Equations for Science 4 credits MAT-364 and Engineering Statics 4 credits ESG-260 Circuits 3 credits EEE-202 Circuits Lab 1 credit **EEE-202L** 

Dynamics Lab 1 credit MEE-360L 4 credits Thermodynamics & Lab STG-330 Organizational Behavior and 4 credits MGT-420 Management Structure and Property of Materials 3 credits MEE-340 Structure and Property of Materials 1 credit MEE-340L Fluid Mechanics & Lab 4 credits ESG-345

**Dynamics** 

MEE-360

SCM-410 Lean and Quality Management

ESG-395 Engineering Economics and 4 credits
Project Management

MEE-352 Solid Mechanics & Lab 4 credits

BUS-330Business Process Design4 creditsMEE-445Heat Transfer & Lab4 creditsESG-451  $^{f_{\Delta}\Omega}$ Capstone Project I2 creditsESG-384Applied Engineering Stochastic<br/>Processes2 credits

Engineering with an Emphasis in Project 88 credits Management Major

### **Bachelor of Science in Electrical Engineering**

Grand Canyon University's Bachelor of Science in Electrical Engineering was developed with industry guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in electrical engineering

and related fields, such as electronics, electrical design, project engineering, controls, test engineering, hardware design, communications, circuits engineering, or engineering sales. This gram teaches topics and assesses competency in circuits, alog and digital electronics, electromagnetic fields, optics, nal processing, communications, computer design, power, and ntrols. This program integrates math, natural sciences, and mputer programming with an emphasis on critical thinking, problem solving, real-world application and practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. Electrical engineering graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning.

### **Degree Requirements**

Total General Education	34-40 credits
Total Electrical Engineering Major	88 credits
Total Electives	0-6 credits
Total Rachalor of Science in Flactrical	128 credits

Total Bachelor of Science in Electrical Engineering

### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

ESG-395 Engineering Economics and 4 credits
Project Management

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-262	Calculus for Science and	4 credits
	Engineering I	
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
CHM-113	General Chemistry I	3 credits
CHM-113I	General Chemistry I Lab	1 credit

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

	•	
ESG-210	Engineering Innovation & Lab	2 credits
ESG-220	Introduction to Engineering Design	2 credits
	and Prototyping & Lab	
ESG-441	Power & Energy Systems 2	3 credits
ESG-441L	Power & Energy Systems Lab 2	1 credit

### **Electrical Engineering Major**

ESG-162

LDC 102	U	$\mathcal{C}$	
ESG-162L	Engine	ering Math Lab	1 credit
CHM-115	General	l Chemistry II – Lectu	re 3 credits
<u>CHM-115L</u>	General	l Chemistry II – Lab	1 credit
ESG-111		ction to Engineering	4 credits
	Progran	nming & Lab	
ESG-251	Compu	ter Aided Design & L	ab 2 credits

ESG-251 Computer Aided Design & Lab
MAT-264 Calculus for Science and

Engineering Math

Engineering II

ESG-260 Statics 4 credits

EEE-202 Circuits 3 credits

3 credits

3 credits

4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EEE-202L	Circuits Lab	1 credit	Required Go	eneral Education	
MAT-364	Differential Equations for Science and Engineering	4 credits		General Education total credits, applied nmunication competency.)	to the
PHY-122	University Physics II	3 credits	ESG-395	Engineering Economics and	4 credits
PHY-122L	University Physics II Lab	1 credits		Project Management	
EEE-212	Embedded Systems and Assembly Language & Lab	2 credits		General Education total credits, applied king competency.)	to the
ESG-374	Design of Experiments and Quality Analysis	2 credits	MAT-262	Calculus for Science and Engineering I	4 credits
ESG-384	Applied Engineering Stochastic	2 credits	PHY-121	University Physics I	3 credits
MAT-345	Processes Applied Linear Algebra I	4 credits	PHY-121L	University Physics I Lab	1 credit
<u>STG-242</u>	Science of Solid Materials	3 credits	CHM-113	General Chemistry I	3 credits
	Science of Solid Materials Lab	1 credit	CHM-113L	General Chemistry I Lab	1 credit
STG-242L	Signals and Systems	3 credits		General Education total credits, applied	
EEE-213	Signals and Systems Lab	1 credit	Global Awar	eness, Perspectives, and Ethics competer	ıcy.)
EEE-213L	Advanced Circuits & Lab	4 credits	<u>ESG-210</u>	Engineering Innovation & Lab	2 credits
EEE-302	Electromagnetic Fields & Optics	3 credits	ESG-220	Introduction to Engineering Design	2 credits
STG-350	-		ESC 441	and Prototyping & Lab Power & Energy Systems 2	3 credits
<u>STG-350L</u>	Electromagnetic Fields & Optics Lab	1 credit	ESG-441	Power & Energy Systems Lab 2	1 credit
EEE-315	Digital Circuits & Lab	4 credits	ESG-441L		1 Cledit
EEE-431	Communications Signal Processing	4 credits	Electrical E	ngineering Major	
	& Lab	2 11	ESG-162	Engineering Math	3 credits
EEE-473	Electrical Design Principles I & Lab	2 credits	ESG-162L	Engineering Math Lab	1 credit
<u>ESG-451</u> Ω <sup>\$Δ</sup>		2 credits	<u>CHM-115</u>	General Chemistry II – Lecture	3 credits
CST-307	Introduction to Computer	4 credits	CHM-115L	General Chemistry II – Lab	1 credit
EEE-320	Architecture & Lab Electronics and Devices & Lab	4 credits	<u>ESG-111</u>	Introduction to Engineering Programming & Lab	4 credits
$ESG-452^{\Omega \neq \Delta}$	Capstone Project II	2 credits	ESG-251	Computer Aided Design & Lab	2 credits
EEE-480	Linear and Nonlinear Control	4 credits	MAT-264	Calculus for Science and Engineering II	4 credits
EEE-474	Systems Design & Lab Electrical Design Principles II &	2 credits	ESG-260	Statics	4 credits
LLL-4/4	Lab		EEE-202	Circuits	3 credits
Electrical En	gineering Major	88 credits	EEE-202L	Circuits Lab	1 credit
	of Science in Electrical Engine sis in Power Systems	eering with	MAT-364	Differential Equations for Science and Engineering	4 credits
			PHY-122	University Physics II	3 credits
	of Science in Electrical Engineering of the strong of the		PHY-122L	University Physics II Lab	1 credits
	id framework of knowledge in chemis		ETG-410	Controls and Instrumentation &	4 credits
and mathema	tics before diving into degree-specific classes such as Circuits, Science of Sol	courses. In lid Materials,	<u>ESG-374</u>	Lab Design of Experiments and Quality	2 credits
Electromagne	etic Fields & Optics and Electrical Des	sign	MAT-345	Analysis Applied Linear Algebra I	4 credits
	ne emphasis focuses on the application power systems.	of these		Science of Solid Materials	3 credits
Degree Requ			STG-242	Science of Solid Materials Lab	1 credit
		34-40 credits	STG-242L	Signals and Systems	3 credits
	ar Eddearon	88 credits	EEE-213	•	1 credit
	ical Engineering with an  Power Systems Major	22 3100100	EEE-213L	Signals and Systems Lab	4 credits
Total Electi	-	0-6 credits	EEE-302	Advanced Circuits & Lab	
Total Bache	elor of Science in Electrical	128 credits	<u>STG-350</u>	Electromagnetic Fields & Optics	3 credits
	with an Emphasis in Power		<u>STG-350L</u>	Electromagnetic Fields & Optics Lab	1 credit
Systems			EEE-413	Nuclear Systems & Lab	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EEE-445	Power Electronics & Lab	4 credits
EEE-473	Electrical Design Principles I &	2 credits
	Lab	
$\underline{ESG\text{-}451}^{\Omega \not = \Delta}$	Capstone Project I	2 credits
EEE-313	Renewable Energy & Lab	4 credits
EEE-320	Electronics and Devices & Lab	4 credits
$ESG-452^{\Omega \neq \Delta}$	Capstone Project II	2 credits
EEE-480	Linear and Nonlinear Control	4 credits
	Systems Design & Lab	
EEE-474	Electrical Design Principles II &	2 credits
	Lab	

Electrical Engineering Major

88 credits

### **Bachelor of Science in Electrical Engineering Technology**

Grand Canyon University's Bachelor of Science in Electrical Engineering Technology was developed with industry guidance to address the broad, foundational knowledge and skills required to be contributors as electrical engineering technicians, electronics engineering technicians, service engineers, industrial automation technicians, robotics technicians, telecommunications technicians, electric machinery technicians, and technician supervisors. This program teaches topics and assesses competency in circuits, analog and digital electronics, signal processing, communications, computer design, electronic materials, controls and robotics, power and machinery, and technical documentation. This program integrates math, chemistry, physics, and biology and emphasizes critical thinking, real-world applications, and practical project management project experience. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, strong work ethic, analytical skills, adaptability, and selfconfidence. Students learn professional and ethical practices associated with engineering through the lens of the Christian worldview.

### **Degree Requirements**

Total General Education	34-40 credits
Total Electrical Engineering Technology	88 credits
Major	
Total Electives	0-6 credits
Total Bachelor of Science in Electrical	128 credits

**Engineering Technology** 

### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

STG-390 <sup>₹∆</sup>	Professionalism in Science and	4 credits
	Technology - Communications,	
	Conduct, and Ethics	

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-261	Pre-Calculus	4 credits
CHM-113	General Chemistry I	3 credits
CHM-113L	General Chemistry I Lab	1 credit

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

<u>STG-110</u> Ω	Team Innovation Experience	3 credits		
$\underline{\text{STG-110L}}^{\Omega}$	Team Innovation Experience Lab	1 credit		
Electrical En	gineering Technology Major			
PHY-111	General Physics I	3 credits		
PHY-111L	General Physics I Lab	1 credit		
<u>CST-111</u>	Introduction to Computer Science	4 credits		
MAT-252	and Information Technology Calculus and Analytic Geometry I	4 credits		
MAT-274	Probability and Statistics	4 credits		
PHY-112	General Physics II	3 credits		
PHY-112L	General Physics II Lab	1 credit		
EET-202	Applied Circuits I	3 credits		
EET-202L	Applied Circuits I Lab	1 credit		
<u>CST-215</u>	Digital Logic and Design Lecture & Lab	4 credits		
EET-302	Applied Circuits II & Lab	4 credits		
ETG-222	Experimental Methods	4 credits		
<u>CST-210</u>	Object-Oriented Programming Lecture & Lab	4 credits		
<u>ITT-116</u>	Platforms and Network Technologies	4 credits		
<u>EET-325</u>	Embedded Systems	4 credits		
EET-320	Digital Electronics and Integrated Circuits & Lab	4 credits		
ETG-315	Materials and Microscopy & Lab	4 credits		
<u>ETG-498</u> <sup>≠∆</sup>	Senior Project I	2 credits		
ETG-415	Power and Energy Technologies	3 credits		
ETG-415L	Power and Energy Technologies Lab	1 credit		
ETG-420	Quality Control	2 credits		
EET-330	Communication Networks & Lab	4 credits		
<u>ITT-270</u>	Routing and Switching	4 credits		
ETG-499 <sup>‡∆</sup>	Senior Project II	2 credits		
EET-425	Industrial Automation	2 credits		
ETG-410	Controls and Instrumentation &	4 credits		
<u>EET-430</u>	Lab Electrical Troubleshooting and Maintenance & Lab	4 credits		
Student must enroll in a total of 4 credits from the following				
courses:		,		
<u>CST-307</u>	Introduction to Computer Architecture Lecture & Lab	4 credits		
<u>CST-323</u>	Cloud Computing	4 credits		

<u>CST-307</u>	Introduction to Computer Architecture Lecture & Lab	4 credits
CST-323	Cloud Computing	4 credits
STG-403	Internship I	4 credits

Electrical Engineering Technology Major

88 credits

### **Bachelor of Science in Industrial Engineering**

Grand Canyon University's Bachelor of Science in Industrial Engineering was developed with industry guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in industrial engineering and related fields, such as manufacturing, quality engineering, systems design, project management, process improvement, and

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **Degree Requirements**

Total General Education	34-40 credits
Total Industrial Engineering Major	88 credits
Total Electives	0-6 credits
Total Bachelor of Science in Industrial Engineering	128 credits

### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

ESG-395	Engineering Economics and	4 credits
	Project Management	

(Included in General Education total credits, applied to the Critical Thinking competency.)

ESG-162	Engineering Math	3 credits
ESG-162L	Engineering Math Lab	1 credit
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
CHM-113	General Chemistry I	3 credits
<u>CHM-113L</u>	General Chemistry I Lab	1 credit

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

ESG-210	Engineering Innovation & Lab	2 credits
ESG-220	Introduction to Engineering Design and Prototyping & Lab	2 credits
<u>ISE-473</u>	Sustainable Design for Industrial Engineering I & Lab	2 credits
<u>ISE-474</u>	Sustainable Design for Industrial Engineering II & Lab	2 credits

### I

Industrial Engineering Major				
CHM-115	General Chemistry II – Lecture	3 credits		
CHM-115L	General Chemistry II – Lab	1 credit		
MAT-262	Calculus for Science and Engineering I	4 credits		
ESG-111	Introduction to Engineering Programming & Lab	4 credits		
MAT-264	Calculus for Science and Engineering II	4 credits		
ESG-251	Computer Aided Design & Lab	2 credits		
ESG-374	Design of Experiment and Quality Analysis	2 credits		
PHY-122	University Physics II	3 credits		

PHY-122L	University Physics II Lab	1 credit
MAT-364	Differential Equations for Science and Engineering	4 credits
ESG-260	Statics	4 credits
EEE-202	Circuits	3 credits
EEE-202L	Circuits Lab	1 credit
<u>ISE-301</u>	Probability and Statistics for Industrial Engineering & Lab	4 credits
<u>SCM-400</u>	Global Supply Chain Operations	4 credits
<u>MGT-420</u>	Organizational Behavior and Management	4 credits
<u>ISE-350</u>	Lean Work Design & Lab	4 credits
SCM-410	Lean and Quality Management	4 credits
ESG-461	Manufacturing Processes	2 credits
ESG-384	Applied Engineering Stochastic Processes	2 credits
<u>ISE-450</u>	Human Work Design & Lab	4 credits
<u>SCM-450</u>	Procurement and Global Supply Chain Management	4 credits
<u>ISE-401</u>	Decision Science	4 credits
$ESG-451^{\Omega\Delta}$	Capstone Project I	2 credits
MEE-340	Structure and Property of Materials	3 credits
MEE-340L	Structure and Property of Materials Lab	1 credit
<u>ISE-480</u>	Automation for Manufacturing and Distribution & Lab	4 credits
$ESG-452^{\Omega\Delta}$	Capstone Project II	2 credits
<u>SCM-454</u>	Manufacturing Planning and Control Systems	4 credits
Industrial En	gineering Major	88 credits

### **Bachelor of Science in Mechanical Engineering**

Grand Canyon University's Bachelor of Science in Mechanical Engineering was developed with industry guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in mechanical engineering and related fields, such as mechanical design engineering, systems engineering, manufacturing engineering, project engineering, and engineering sales. This program teaches topics and assesses competency in mechanical design principles: statics, dynamics, material science, mechanics of materials, fluid mechanics, thermodynamics, heat transfer, instrumentation, and controls. This program integrates math, natural sciences, and computer programming with an emphasis on critical thinking, problem solving, real-world application and practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. Mechanical engineering graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning.

### **Degree Requirements**

Total General Education	34-40 credits
Total Mechanical Engineering Major	88 credits
Total Electives	0-6 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Total Bachelor of Science in Mechanical		128 credits	<u>MEE-445</u>	Heat Transfer & Lab	4 credits
Engineering  Required General Education			<u>ESG-455</u>	Dynamic Systems & Lab	4 credits
=	eneral Education General Education total credits, applied	d to the	<u>MEE-473</u>	Mechanical Design Principles I & Lab	2 credits
	nmunication competency.)	a to the	$ESG-451^{\Omega \neq \Delta}$	Capstone Project I	2 credits
STG-390 <sup>₹∆</sup>	Professionalism in Science and	4 credits	MEE-474	Mechanical Design Principles II &	2 credits
<u> </u>	Technology – Communications, Conduct, and Ethics		ESG-461	Lab Manufacturing Processes	2 credits
	General Education total credits, applied	d to the	$ESG-452^{\Omega \neq \Delta}$	Capstone Project II	2 credits
Critical Thin	king competency.)		MEE-480	Electro-Mechanical Systems and	4 credits
ESG-162	Engineering Math	3 credits		Controls & Lab	
ESG-162L	Engineering Math Lab	1 credit	<u>ESG-384</u>	Applied Engineering Stochastic Processes	2 credits
PHY-121	University Physics I	3 credits	Mechanical I	Engineering Major	88 credits
PHY-121L	University Physics I Lab	1 credit			
CHM-113	General Chemistry I	3 credits		of Science in Mechanical Eng	gineering
CHM-113L	General Chemistry I Lab	1 credit	with an Er	nphasis in Aerospace	
*	General Education total credits, applied eness, Perspectives, and Ethics compet		Engineering v	n University's Bachelor of Science is with an Emphasis in Aerospace was	leveloped with
ESG-210	Engineering Innovation & Lab	2 credits		ance to address the broad, foundation uired to meet or exceed the expectati	
ESG-220	Introduction to Engineering Design and Prototyping & Lab	2 credits	employers in	mechanical engineering, aerospace e such as mechanical design engineer	ngineering, and
Mechanical	Engineering Major			manufacturing engineering, project e	
<u>CHM-115</u>	General Chemistry II – Lecture	3 credits		ales. This program teaches topics and mechanical design principles such	
<u>CHM-115</u> <u>CHM-115L</u>	G 161 1 T 1	1 credit		aterials science, fluid mechanics, the	
MAT-262	Calculus for Science and	4 credits	and heat transfer, as well as aerospace engineering, including		
<u>MA1-202</u>	Engineering I	4 Cicuits	aerodynamics, propulsion, flight control systems, and aerospace design. This program integrates math, natural sciences, and		
<u>ESG-111</u>	Introduction to Engineering Programming & Lab	4 credits	computer programming with an emphasis on critical thinking, problem solving, real-world application and practical project		
MAT-264	Calculus for Science and Engineering II	4 credits	management	experience. The Christian worldview room, preparing graduates to apply C	is integrated
ESG-251	Computer Aided Design & Lab	2 credits	principles of stewardship and discipline with a commitment to		nmitment to
ESG-374	Design of Experiments and Quality Analysis	2 credits	graduates wit	and ethical standards. Mechanical eng h an emphasis in aerospace enter the	workforce
PHY-122	University Physics II	3 credits		ork in diverse teams, communicate e	effectively, and
PHY-122L	University Physics II Lab	1 credit	-	ship roles and advanced learning.	
MAT-364	Differential Equations for Science and Engineering	4 credits	Degree Requ Total Gener	al Education	34-40 credits
ESG-260	Statics	4 credits		anical Engineering with an	88 credits
MEE-360	Dynamics	3 credits	•	Aerospace Major	0.6.11
MEE-360L	Dynamics Lab	1 credit	Total Electi	ves	0-6 credits
EEE-202	Circuits	3 credits		elor of Science in Mechanical	128 credits
EEE-202L	Circuits Lab	1 credit		with an Emphasis in Aerospace	
STG-330	Thermodynamics	4 credits	-	eneral Education	ind to the
MEE-352	Solid Mechanics & Lab	4 credits		General Education total credits, appl nmunication competency.)	ieu io ine
MEE-340	Structure and Property of Materials	3 credits	STG-390 <sup>≠∆</sup>	Professionalism in Science and	4 credits
MEE-340L	Structure and Property of Materials Lab	1 credit	<u>310-390</u>	Technology – Communications, Conduct, and Ethics	. 2200215
ESG-345	Fluid Mechanics & Lab	4 credits		General Education total credits, appl	ied to the
MEE-460	Mechanical Instrumentation and Devices & Lab	4 credits		king competency.) Engineering Math	3 credits
ESG-395	Engineering Economics and Project Management	4 credits	<u>ESG-162</u> <u>ESG-162L</u>	Engineering Math Lab	1 credit

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EMP-1211   University Physics II Lab   1 credit   Chellulard in General Chemistry I Lab   1 credit   Chellulard in General Chemistry I Lab   1 credit   Chellulard in General Engineering Innovation & Lab   2 credits   Chellulard in General Engineering Innovation & Lab   2 credits   Chellulard in General Engineering Innovation & Lab   2 credits   Chellulard in General Engineering minovation & Lab   2 credits   Chellulard in General Engineering minovation & Lab   2 credits   Chellulard in General Engineering minovation & Lab   2 credits   Chellulard in General Chemistry II   Lecture   3 credits   Chellulard in General Chemistry II   Lecture   4 credits   Chellulard in General Chemistry II   Chellulard in General Chemistry I	PHY-121	University Physics I	3 credits	MEE-473	Mechanical Design Principles I &	2 credits	
CHM-113 General Chemistry I Lab 1 credit (Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-210 Introduction to Engineering Design and Prototyping & Lab and Engineering and Fellewist (Included in General Chemistry II – Lacture and Prototyping & Lab Engineering II and Engineering Engineering II and Engineering II and Engineering Engineering II and	PHY-121L	University Physics I Lab	1 credit			A aradita	
General Chemistry I Lab   Acrosphare Project in Mechanical Engineering I movation & Lab   2 credits and Prototyping & Lab   Davisor of the Visual Arts   Acrosphare Prototyping & Lab   Credits   Chim-Lis   General Chemistry II - Lecture   3 credits   Chim-Lis   General Chemistry II - Lab   1 credit   Credits   Chim-Lis   General Chemistry II - Lab   1 credit   Credits   Credits   Calculus for Science and   4 credits   Credi	CHM-113	General Chemistry I	3 credits	<u> </u>			
Concluded in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)   ESG-210	CHM-113L	General Chemistry I Lab	1 credit			88 credits	
ESG-220   Introduction to Engineering Design   2 credits and Prototyping & Lab and Prototyping & Lab   Introduction to Engineering Design   2 credits and Prototyping & Lab   Introduction to Engineering Bosign   3 credits   Introduction to Engineering with an Emphasis in Robotics was developed with				Bachelor	of Science in Mechanical Eng	ineering	
Introduction to Engineering Design and Prototyping & Lab   Drawing for the Visual Arts   4 credits   Arts   4 credits   The Project Makerials   4 credits   The Project Makerials   4 credits   4 cr	ESG-210	Engineering Innovation & Lab	2 credits		-		
and Prototyping & Lab    Distailed			2 credits				
Month   Major   Majo	and Prototyping & Lab  and Prototyping & Lab  in  Drawing for the Visual Arts  A credits			industry guid	industry guidance to address the broad, foundational knowledge		
CHM-115  General Chemistry II - Lab		Engineering with an Emphasis in Aero	space	employers in fields, such a	mechanical and robotics engineering as mechanical design engineering, sys	and related tems	
CHM-1151, General Chemistry II – Lab		General Chemistry II – Lecture	3 credits				
Engineering I  MAT_264  Calculus for Science and Engineering II  BHY_122 University Physics II 1 3 credits Engineering II  Diriversity Physics II 1 3 credits University Physics II Lab 1 credit Interest Engineering II  BHY_122 University Physics II 1 3 credits Interest Engineering II  Differential Equations for Science and Engineering II  EEE_202 Circuits Lab 1 credit Circuits Lab 1 credit Interest EEE_202 Circuits Lab 1 credits Interest Int	CHM-115L	General Chemistry II – Lab	1 credit				
Engineering II  PHY-1221  University Physics II Lab  MAT-364  Differential Equations for Science and Engineering  EEE-2022  Circuits  EEE-2022  Circuits Lab  Thermodynamics  Acredits  MEE-352  Solid Mechanics & Lab  MEE-3540  MEE-360  ESG-451  Acrospace  MEE-450	MAT-262		4 credits	material scie thermodynar	nce, mechanics of materials, fluid me nics, heat transfer, dynamic systems,	chanics, feedback and	
PHY-122 University Physics II ab 1 credit project management experience. When the Christian worldview is integrated into the class room, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. BS in Mechanical Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in dischaincal Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in dischaincal Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in dischaincal Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in dischaincal Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in dischaincal. BS in Mechanical Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering with an Emphasis in Robotics Major Total Electives 0-6 credits Engineering Engineering Eng	MAT-264		4 credits				
management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. BS in Mechanical Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning. Degree  Requirements  Total General Education 34-40 credits Total Mechanical Engineering with an Emphasis in Robotics graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning. Degree  Requirements  Total General Education 34-40 credits Total Mechanical Engineering with an Emphasis in Robotics Major  Total Electives 0-6 credits  Total Bachelor of Science in Mechanical 128 credits  ESG-4510 <sup>total</sup> Capstone Project I 2 credits  ESG-4510 <sup>total</sup> Capstone Project I 2 credits  FSG-4111 Introduction to Engineering 4 credits Programming & Lab  MEE-345 Aerospace Propulsion & Lab 4 credits For Aerospace  MEE-450 Aerospace Design Principles & 4 credits Lab  MEE-451 Dynamics and Controls of Flight & 4 credits Lab  MEE-475 Aerospace Design Principles & 2 credits Lab  MEE-475 Computer Aided Design & Lab  ESG-352 Engineering Economics and Project Management  ESG-345 Project Management  ESG-345 Project Management  ESG-345 Project Management  ESG-346 Statics 4 credits ChM-113 General Education total credits, applied to the Critical Thinking competency.)  ESG-345 Project Management  ESG-346 Project Management  ESG-347 Project Management  ESG-340 Design of Experiments and Quality Analysis  Design of Experiments and Capston Project II  Design of Experiments and Quality Analysis  De	DHV 122		3 credits				
Differential Equations for Science and Engineering and Engineering with an Emphasis in Abobtics graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning. Degree Requirements    Stricture and Property of Materials   1 credit		• •					
and Engineering  EEE-202 Circuits		• •	4 credits				
EEE-202L STG-330         Circuits Lab         1 credit pursue leadership roles and advanced learning. Degree           MEE-352 MEE-352         Solid Mechanics & Lab         4 credits         Total General Education         34-40 credits           MEE-340 MEE-340L Lab         Structure and Property of Materials Lab         1 credit Lab         Total Mechanical Engineering with an Emphasis in Robotics Major         88 credits           ESG-451 <sup>ΩA</sup> ESG-452 <sup>ΩA</sup> Capstone Project I         2 credits Engineering Programming & Lab         Total Bachelor of Science in Mechanical Engineering with an Emphasis in Robotics         128 credits           MEE-335 ESG-111         Introduction to Engineering Programming & Lab         4 credits Engineering with an Emphasis in Robotics         Required General Education         128 credits           MEE-335 MEE-340 MEE-335         Structures of Composite Materials for Aerospace         4 credits For Aerospace         Required General Education total credits, applied to the Effective Communications competency.)           MEE-455 Dynamics and Controls of Flight & Lab         4 credits Lab         STG-390 <sup>M</sup> Frofessionalism in Science and A credits applied to the Critical Thinking competency.)           MEE-475 Lab         Aerospace Design Principles & Lab         2 credits         ESG-162 ENG-162         Engineering Math         3 credits           ESG-395 ENG-395 ENG-395 ENG-395 ENG-296 ENG-395 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 ENG-396 EN	11111 301	and Engineering		professional and ethical standards. BS in Mechanical Engineering			
Thermodynamics 4 credits  MEE_352 Solid Mechanics & Lab 4 credits  MEE_340 MEE_340 Structure and Property of Materials Lab Structure and Property of Materials Lab Capstone Project I 2 credits ESG-4510 <sup>to</sup> A Capstone Project II 2 credits Programming & Lab MEE_335 MEE_340 MEE_335 Aerospace Propulsion & Lab 4 credits for Aerospace MEE_440 MEE_450 MEE_450 MEE_450 Aerodynamics & Lab 4 credits MEE_451 Aerospace Design Principles & 2 credits Lab MEE_475 Aerospace Design Principles & 2 credits Engineering Economics and Project Management Computer Aided Design & Lab 4 credits Project Management Computer Aided Design & Lab 4 credits Project Management Computer Aided Design & Lab 4 credits Project Management Computer Aided Design & Lab 4 credits Project Management Computer Aided Design & Lab 4 credits Project Management Computer Aided Design & Lab 4 credits Project Management Project Management Computer Aided Design & Lab 4 credits Project Management Project Management Computer Aided Design & Lab 4 credits Project Management Project Management Computer Aided Design & Lab 4 credits Project Management Project Ma							
MEE_352 Solid Mechanics & Lab 4 credits MEE_340 Structure and Property of Materials Lab Structure and Property of Materials Lab Capstone Project I 2 credits ESG-451 <sup>Ω/Δ</sup> Capstone Project II 2 credits ESG-451 <sup>Ω/Δ</sup> Capstone Project II 2 credits ESG-451 <sup>Ω/Δ</sup> Capstone Project II 2 credits ESG-411 Introduction to Engineering Programming & Lab Aerospace Propulsion & Lab 4 credits MEE_450 Aerospace Propulsion & Lab 4 credits MEE_450 Aerospace Design Principles & Lab Aerospace Design Principles & Lab				pursue leade	rship roles and advanced learning.Dea		
MEE_340  MEE		•		<del>-</del>			
Structure and Property of Materials Lab   Lab   Capstone Project I   2 credits	· ·			Total General Education			
Lab Capstone Project I 2 credits  ESG-452 <sup>DA</sup> Capstone Project II 2 credits  ESG-452 <sup>DA</sup> Capstone Project II 2 credits  ESG-111 Introduction to Engineering Programming & Lab Aerospace Propulsion & Lab 4 credits  MEE-335 Aerospace Propulsion & Lab 4 credits  MEE-440 Structures of Composite Materials for Aerospace  MEE-450 Aerodynamics & Lab 4 credits  MEE-450 Dynamics and Controls of Flight & 4 credits  Lab 2 credits  ESG-195 Engineering Economics and Project Management Project Management  ESG-251 Computer Aided Design & Lab 2 credits  ESG-260 Statics 4 credits  ESG-364 Fluid Mechanics & Lab 4 credits  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics — Streetits Aerospace Propulsion & Lab 4 credits  ESG-210 Engineering Innovation & Lab 1 credits  Conflueded in General Education total credits, applied to the Critical Thinking competency.)  Total Bachelor of Science in Mechanical 128 credits  Required General Education  (Included in General Education total credits, applied to the Effective Communications competency.)  Technology – Communications, Conduct, and Ethics  (Included in General Education total credits, applied to the Critical Thinking competency.)  ESG-305 Engineering Economics and 4 credits  ESG-162 Engineering Math Lab 1 credit Phy-121 University Physics I Lab 1 credit University Physics I Lab 1 credit University Physics I Lab 1 credit General Education total credits, applied to the CHM-113 General Chemistry I Lab 1 credit (Included in General Education total credits, applied to the CHM-113 General Chemistry I Lab 2 credits (Included in General Education total credits, applied to the CHM-113 General Education total credits, applied to the CHM-113 General Education total credits, applied to the CHM-114 General Education total credits, applied to the CHM-115 Genera	· · · · · · · · · · · · · · · · · · ·					88 credits	
ESG-451 Ωνλ ESG-452 Ωνλ Capstone Project II2 credits 2 creditsTotal Bachelor of Science in Mechanical Engineering with an Emphasis in Robotics128 credits 128 credits 128 credits 128 credits 129 credits 129 credits 120	<u>MEE-340L</u>		1 credit	-		0-6 credits	
ESG-4520\( \) Capstone Project II  2 credits  Engineering  with an Emphasis in Robotics  \text{Programming & Lab}  \text{Programming & Lab}  \text{Acrospace Propulsion & Lab}  4 credits  \text{Effective Communication competency.}  \text{Professionalism in Science and for Aerospace}   \text{Professionalism in Science and for Aerospace}    \text{Professionalism in Science and for Aerospace}      \text{Professionalism in Science and for Aerospace}   \qquad   \qquad   \qquad  \qquad \qquad \qqu	$ESG-451^{\Omega \neq \Delta}$		2 credits	-		128 credits	
Programming & Lab  MEE-335 Aerospace Propulsion & Lab  MEE-440 Structures of Composite Materials for Aerospace  MEE-450 Aerodynamics & Lab  MEE-451 Dynamics and Controls of Flight & Lab  MEE-475 Lab  MEE-475 ESG-395 Engineering Economics and Project Management ESG-260 ESG-345 ESG-345 ESG-345 ESG-345 Fluid Mechanics & Lab  Programming & Lab Aerospace Propulsion & Lab  Aerodynamics & Lab Aerodynamics & Lab Aerodynamics & Lab  Aerodynamics & Lab Aerodynamics and Controls of Flight & 4 credits Lab  MEE-475 Aerospace Design Principles & 2 credits Lab  ESG-395 Engineering Economics and A credits Project Management ESG-260 ESG-345 ESG-345 ESG-346 ESG-346 Pluid Mechanics & Lab Applied Engineering Stochastic Processes ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  Aerodynamics & 4 credits Aerodits  (Included in General Education total credits, applied to the Critical Thinking competency.)  ESG-162 Engineering Math Lab 1 credits CHM-113 General Chemistry I Lab 1 credit CHM-113 General Chemistry I Lab 1 credit CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  Analysis  MEE-360 Dynamics 3 credits ESG-210 Engineering Innovation & Lab 2 credits ESG-220 Introduction to Engineering Design 2 credits	$ESG-452^{\Omega \neq \Delta}$	Capstone Project II	2 credits				
MEE-335 Aerospace Propulsion & Lab 4 credits  MEE-440 Structures of Composite Materials for Aerospace  MEE-450 Aerodynamics & Lab 4 credits  MEE-455 Dynamics and Controls of Flight & Lab  MEE-456 Aerospace Design Principles & 2 credits  Lab  MEE-475 Aerospace Design Principles & 2 credits  Lab  ESG-395 Engineering Economics and Project Management  ESG-251 Computer Aided Design & Lab  ESG-260 Statics  ESG-345 Fluid Mechanics & Lab  ESG-384 Applied Engineering Stochastic Processes  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  MEE-360 Dynamics  Aerospace Propulsion & 4 credits  2 credits  4 credits  Effective Communication competency.)  Professionalism in Science and 4 credits  Technology − Communications,  Conduct, and Ethics  (Included in General Education total credits, applied to the Critical Thinking competency.)  ESG-162 Engineering Math Lab 1 credit  ESG-162 Engineering Math Lab 1 credits  PHY-121 University Physics I as 3 credits  PHY-121 University Physics I Lab 1 credit  CHM-113 General Chemistry I Lab 1 credit  CHM-113 General Chemistry I Lab 1 credit  CHM-113 General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics 3 credits  ESG-210 Engineering Innovation & Lab 2 credits  ESG-220 Introduction to Engineering Design 2 credits	ESG-111		4 credits	Required G	eneral Education		
for Aerospace  MEE-450  Aerodynamics & Lab  MEE-455  Dynamics and Controls of Flight & 4 credits  Lab  MEE-475  Aerospace Design Principles & 2 credits  Lab  ESG-395  Engineering Economics and Project Management  ESG-251  Computer Aided Design & Lab  ESG-260  ESG-345  ESG-345  ESG-345  ESG-345  ESG-345  ESG-346  Design of Experiments and Quality  Analysis  MEE-360  MEE-360  Technology – Communications, Conduct, and Ethics  (Included in General Education total credits, applied to the Critical Thinking competency.)  ESG-162  ESG-162  Engineering Math Lab  1 credit  ESG-1621  Engineering Math Lab  1 credit  PHY-1211  University Physics I  3 credits  CHM-113  General Chemistry I  3 credits  CHM-1131  General Chemistry I Lab  1 credit  (Included in General Education total credits, applied to the Critical Thinking competency.)  Technology – Communications, Conduct, and Ethics  (Included in General Education total credits, applied to the Critical Thinking competency.)  Technology – Communications, Conduct, and Ethics  (Included in General Education total credits, applied to the CHM-1131  General Chemistry I Lab  1 credit  CHM-1131  General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-374  Design of Experiments and Quality  Analysis  Dynamics  3 credits  ESG-210  Engineering Innovation & Lab  2 credits  ESG-220  Introduction to Engineering Design  2 credits	MEE-335		4 credits			ied to the	
MEE-450Aerodynamics & Lab4 creditsConduct, and EthicsMEE-455Dynamics and Controls of Flight & Lab4 credits(Included in General Education total credits, applied to the Critical Thinking competency.)MEE-475Aerospace Design Principles & Lab2 creditsESG-162Engineering Math3 creditsESG-395Engineering Economics and Project Management4 creditsESG-162LEngineering Math Lab1 creditESG-251Computer Aided Design & Lab2 creditsPHY-121University Physics I3 creditsESG-260Statics4 creditsPHY-121LUniversity Physics I Lab1 creditESG-345Fluid Mechanics & Lab4 creditsCHM-113General Chemistry I3 creditsESG-384Applied Engineering Stochastic Processes2 creditsCHM-113LGeneral Education total credits, applied to theESG-374Design of Experiments and Quality Analysis2 creditsGlobal Awareness, Perspectives, and Ethics competency.)MEE-360Dynamics3 creditsMEE-360Dynamics3 credits	MEE-440	for Aerospace		<u>STG-390</u> <sup>₹Δ</sup>	Professionalism in Science and Technology – Communications,	4 credits	
Lab  MEE-475 Aerospace Design Principles & 2 credits Lab  ESG-395 Engineering Economics and Project Management  ESG-251 Computer Aided Design & Lab  ESG-260 Statics  ESG-345 Fluid Mechanics & Lab  ESG-345 Processes  ESG-384 Applied Engineering Stochastic Processes  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  Critical Thinking competency.)  ESG-162 Engineering Math Lab  ESG-162 Engineering Math Lab  1 credit  PHY-121 University Physics I Lab  1 credit  CHM-113 General Chemistry I  General Chemistry I Lab  1 credit  CHM-113L General Chemistry I Lab  1 credit  CHM-113L General Education total credits, applied to the  CHM-113L Global Awareness, Perspectives, and Ethics competency.)  ESG-274 Engineering Innovation & Lab  2 credits  ESG-210 Engineering Innovation & Lab  2 credits  ESG-220 Introduction to Engineering Design  2 credits	MEE-450	•			Conduct, and Ethics		
Lab  ESG-395 Engineering Economics and Project Management ESG-251 Computer Aided Design & Lab ESG-260 ESG-345 Fluid Mechanics & Lab ESG-345 Fluid Mechanics & Lab ESG-384 Applied Engineering Stochastic Processes ESG-374 Design of Experiments and Quality Analysis MEE-360 Dynamics  ESG-162 Engineering Math Lab I credit ESG-162L Engineering Math Lab I credit PHY-121 University Physics I Lab I credit CHM-113 General Chemistry I General Chemistry I Lab I credit CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.) ESG-210 Engineering Math I credit PHY-121 University Physics I General Chemistry I General Chemistry I General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.) ESG-210 Engineering Innovation & Lab I credit CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.) ESG-210 Engineering Innovation & Lab I credit CHM-113L General Chemistry I ESG-210 Introduction to Engineering Design I credits I credit CHM-113L I credit	<u>MEE-455</u>	Lab				ied to the	
ESG-395 Engineering Economics and 4 credits Project Management  ESG-251 Computer Aided Design & Lab 2 credits  ESG-260 Statics 4 credits  ESG-345 Fluid Mechanics & Lab 4 credits  ESG-345 Applied Engineering Stochastic Processes  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  Engineering Economics and 4 credits  PHY-121 University Physics I Lab 1 credit  CHM-113 General Chemistry I 3 credits  CHM-113L General Chemistry I Lab 1 credit  CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-374 EsG-210 Engineering Innovation & Lab 2 credits  ESG-220 Introduction to Engineering Design 2 credits	<u>MEE-475</u>		2 credits	ESG-162	Engineering Math	3 credits	
ESG-251 Computer Aided Design & Lab 2 credits ESG-260 Statics 4 credits ESG-345 Fluid Mechanics & Lab 4 credits ESG-384 Applied Engineering Stochastic Processes ESG-374 Design of Experiments and Quality Analysis MEE-360 Dynamics 2 credits MEE-360 Dynamics 2 credits ESG-251 Computer Aided Design & Lab 2 credits PHY-121L University Physics I Lab 1 credit CHM-113 General Chemistry I Lab 1 credit CHM-113L General Chemistry I Lab 1 credit CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.) ESG-210 Engineering Innovation & Lab 2 credits ESG-220 Introduction to Engineering Design 2 credits	ESG-395	Engineering Economics and	4 credits				
ESG-260 Statics 4 credits  ESG-345 Fluid Mechanics & Lab 4 credits  ESG-384 Applied Engineering Stochastic Processes  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  Statics 4 credits  CHM-113 General Chemistry I Lab 1 credit  CHM-113L General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-210 Engineering Innovation & Lab 2 credits  ESG-220 Introduction to Engineering Design 2 credits	ESG-251		2 credits				
ESG-345 Fluid Mechanics & Lab 4 credits  ESG-384 Applied Engineering Stochastic 2 credits Processes  ESG-374 Design of Experiments and Quality Analysis  MEE-360 Dynamics  Fluid Mechanics & Lab 4 credits CHM-113L General Chemistry I Lab 1 credit CHM-113L General Chemistry I Lab 1 credit CHM-113L General Chemistry I Lab 2 credits CHM-113L General Chemistry I Lab 2 credits (Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.) ESG-210 Engineering Innovation & Lab 2 credits ESG-220 Introduction to Engineering Design 2 credits	ESG-260	Statics	4 credits		• •		
Applied Engineering Stochastic 2 credits Processes  Design of Experiments and Quality Analysis  Dynamics  Processes  Applied Engineering Stochastic 2 credits  (Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)  ESG-210  Engineering Innovation & Lab 2 credits  ESG-220  Introduction to Engineering Design 2 credits	ESG-345	Fluid Mechanics & Lab	4 credits		•		
Analysis  MEE-360  Dynamics  3 credits  ESG-210  Engineering Innovation & Lab  2 credits  ESG-220  Introduction to Engineering Design  2 credits	<u>ESG-384</u>		2 credits	(Included in	General Education total credits, appl	ied to the	
MEE-360 Dynamics 3 credits  ESG-220 Introduction to Engineering Design 2 credits	ESG-374		2 credits	Global Awar	-	-	
ESG-220 Introduction to Engineering Design 2 credits	MFF-360		3 credits	ESG-210	-		
		•		ESG-220		2 credits	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

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Mechanical Engineering with an Emphasis in Robotics Major			tools, fluid/thermal transport, material and processes, and				
	<u>CHM-115</u>	General Chemistry II-Lecture	3 credits	controls and instrumentation. This program integrates math,			
	<u>CHM-115L</u>	General Chemistry II - Lab	1 credits	natural sciences, and computer programming with an emphasis on critical thinking, problem solving, real-world application and			
	EEE-202	Circuits	3 credits	practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates			
	EEE-202L	Circuits Lab	1 credits				
	<u>ESG-111</u>	Introduction to Engineering Programming & Lab	4 credits	commitment	to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. BS in		
	ESG-251	Computer Aided Design & Lab	2 credits	Mechanical Engineering Technology graduates enter the workforce prepared to work in diverse teams, communicate		mmunicate	
	ESG-260	Statics	4 credits	effectively, and pursue leadership roles and advanced learning.		nced learning.	
	ESG-330	Introduction to Robotics & Lab	4 credits	Degree Requ		24.40	
	ESG-345	Fluid Mechanics & Lab	4 credits	Total General Education 34-40 credit			
	ESG-374	Design of Experiments and Quality Analysis	2 credits	Total Mechanical Engineering Technology 88 credits Major		88 credits	
	ESG-384	Applied Engineering Stochastic	2 credits	Total Electi	ves	0-6 credits	
	ESG-395	Processes Engineering Economics and	4 credits		elor of Science in Mechanical g Technology	128 credits	
	<u>ESG-451</u> Ω‡Δ	Project Management Capstone Project I	2 credits	Required Go	eneral Education		
	$\frac{ESG-451}{ESG-452}\Omega \neq \Delta$	Capstone Project II	2 credits	(Included in	General Education total credits, app	plied to the	
	MAT-262	Calculus for Science and	4 credits	Effective Con	nmunication competency.)		
		Engineering I Calculus for Science and	4 credits	ESG-395	Engineering Economics and Project Management	4 credits	
	<u>MAT-264</u>	Engineering II			General Education total credits, app	plied to the	
	MAT-345	Applied Linear Algebra I	4 credits		king competency.)	2 15	
	MAT-364	Differential Equations for Science and Engineering	4 credits	ESG-162	Engineering Math	3 credits	
	MEE-340	Structure and Property of	3 credits	<u>ESG-162L</u>	Engineering Math Lab	1 credit	
		Materials	1 1.	<u>CHM-113</u>	General Chemistry I	3 credits	
	MEE-340L	Structure and Property of Materials Lab	1 credits	<u>CHM-113L</u>	General Chemistry I Lab	1 credit	
	<u>MEE-352</u>	Solid Mechanics & Lab	4 credits		General Education total credits, app eness, Perspectives, and Ethics com		
	MEE-360	Dynamics	3 credits	ESG-210	Engineering Innovation & Lab	4 credits	
	MEE-360L	Dynamics Lab	1 credits	ESG-220	Introduction to Engineering Desig	n 4 credit	
	MEE-445	Heat Transfer & Lab	4 credits		and Prototyping & Lab		
	MEE-457	Dynamics and Controls of Robotics & Lab	4 credits	Mechanical 1	Engineering Technology Major		
	MEE-473	Mechanical Design Principles I &	2 credits	<u>MAT-262</u>	Calculus for Science and Engineering I	4 credits	
	MEE-476	Robotics Design Principles & Lab	4 credits	ESG-111	Introduction to Engineering Programming & Lab	4 credits	
	PHY-122	University Physics II	3 credits	MAT-264	Calculus for Science and	4 credits	
	PHY-122L	University Physics II Lab	1 credits	<u>PHY-121</u>	Engineering II University Physics I	3 credits	
	STG-330	Thermodynamics & Lab	4 credits	PHY-121L	University Physics I Lab	1 credit	
		ngineering with an Emphasis in	88 credits	ESG-251	Computer Aided Design & Lab	2 credits	
	Robotics Major	or		<u>MET-291</u>	Applications of Machine Shop	2 credits	
	Bachelor of Technology	f Science in Mechanical Engi	neering	PHY-122	Tools & Lab University Physics II	3 credits	
	J.		Mechanical	PHY-122L	University Physics II Lab	1 credit	
Grand Canyon University's Bachelor of Science in Mechanical Engineering Technology was developed with industry guidance to address the broad, foundational knowledge and skills required			EET-202	Applied Circuits	3 credits		
			·	Applied Circuits Lab	1 credit		
to meet or exceed the expectations of employers in Mechanical			EET-202L	Statics	4 credits		
Engineering Technology and related fields, such as application engineering, test engineering, project engineering, production			ESG-260	Dynamics	3 credits		
	engineering, p	roduct development engineering, and		MEE-360 MEE-360L	Dynamics Lab	1 credit	
	manutacturing	engineering. This program teaches to	nics and	IVIEE-30UL	D J Hallings Dao	1 Cicuit	

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

MEE-360L

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manufacturing engineering. This program teaches topics and assesses competency in computerized design and manufacturing

ETG-333	Applications of Instrumentation & Lab	4 credits		
ISE-301	Probability and Statistics for	4 credits		
<u>152 301</u>	Industrial Engineering & Lab			
MET-275	Computerized Design and	4 credits		
WEI 273	Manufacturing Tools in MET &			
	Lab			
MET-203	Strength of Materials & Lab	4 credits		
MET-302	Principles of Design I & Lab	4 credits		
MET-308	Fluid/Thermal Transport & Lab	4 credits		
ETG-410 <sup>‡</sup>	Controls and Instrumentation &	4 credits		
	Lab			
ESG-451	Capstone Project I	2 credits		
ETG-420	Quality Control	2 credits		
MET-315	Material and Processes & Lab	4 credits		
MET-402	Principles of Design II & Lab	4 credits		
ESG-452	Capstone Project II	2 credits		
ESG-461	Manufacturing Processes	2 credits		
MET-484	Computer Aided Manufacturing &	4 credits		
	Lab			
<u>MET-418</u>	Heat and Power Generation & Lab	4 credits		
Mechanical l	Engineering Technology Major	88 credits		
0 11 0 11 11 10 11				

### **Bachelor of Science in Mechanical Engineering Technology with an Emphasis in Mechatronics**

Grand Canyon University's Bachelor of Science in Mechanical Engineering Technology with an Emphasis in Mechatronics was developed with industry guidance to address the broad, foundational knowledge and skills required to meet or exceed the expectations of employers in Mechanical Engineering Technology, Mechatronics, and related fields, such as application engineering, test engineering, project engineering, production engineering, product development engineering, and manufacturing engineering. This program teaches topics and assesses competency in computerized design and manufacturing tools, fluid/thermal transport, material and processes, controls and instrumentation, industrial automation, electrical troubleshooting, and electromechanical systems principles. This program integrates math, natural sciences, and computer programming with an emphasis on critical thinking, problem solving, real-world application and practical project management experience. The Christian worldview is integrated into the classroom, preparing graduates to apply Christian principles of stewardship and discipline with a commitment to professional and ethical standards. BS in Mechanical Engineering Technology with an Emphasis in Mechatronics graduates enter the workforce prepared to work in diverse teams, communicate effectively, and pursue leadership roles and advanced learning.

### **Degree Requirements**

Total General Education	34-40 credits
Total Mechanical Engineering Technology with an Emphasis in Mechatronics Major	88 credits
Total Electives	0-6 credits
Total Bachelor of Science in Mechanical Engineering Technology with an Emphasis in Mechatronics	128 credits

### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

Engineering Economics and 4 credits ESG-395 Project Management

(Included in General Education total credits, applied to the Critical Thinking competency.)

ESG-162	Engineering Math	3 credits
ESG-162L	Engineering Math Lab	1 credit
CHM-113	General Chemistry I	3 credits
CHM-113L	General Chemistry I Lab	1 credit

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

ESG-210	Engineering Innovation & Lab	4 credits
ESG-220	Introduction to Engineering Design	4 credit
	and Prototyping & Lab	

### **Mechanical Engineering Technology Major**

Micchainear	Engineering recliniology Major	
MAT-262	Calculus for Science and Engineering I	4 credits
ESG-111	Introduction to Engineering Programming & Lab	4 credits
<u>MAT-264</u>	Calculus for Science and Engineering II	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
ESG-251	Computer Aided Design & Lab	2 credits
MET-291	Applications of Machine Shop Tools & Lab	2 credits
PHY-122	University Physics II	3 credits
PHY-122L	University Physics II Lab	1 credit
EET-202	Applied Circuits	3 credits
EET-202L	Applied Circuits Lab	1 credit
ESG-260	Statics	4 credits
MEE-360	Dynamics	3 credits
MEE-360L	Dynamics Lab	1 credit
ETG-410	Controls and Instrumentation &	4 credits
<u>ISE-301</u>	Lab Probability and Statistics for	4 credits
<u>101 301</u>	Industrial Engineering & Lab	
<u>MET-275</u>	Computerized Design and Manufacturing Tools in MET &	4 credits
MET-203	Lab Strength of Materials & Lab	4 credits
MET-302	Principles of Design I & Lab	4 credits
MET-308	Fluid/Thermal Transport & Lab	4 credits
EET-302	Applied Circuits II & Lab	4 credits
	Manufacturing Automation & Lab	4 credits
ETG-426	Capstone Project I	2 credits
ESG-451	Material and Processes & Lab	4 credits
MET-315	Applications of Instrumentation &	4 credits
ETG-333	Lab	4 cicuits
ESG-452	Capstone Project II	2 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

ETG-420	Quality Control	2 credits
<u>EET-430</u>	Electrical Troubleshooting and	4 credits
ETG-403	Maintenance & Lab Principles of Mechatronics Design & Lab	4 credits
36 1 1 1	E ' E I I 'I	99 gradits

Mechanical Engineering Technology with an 88 credits Emphasis in Mechatronics Major

# **Graduate Certificate in Software Engineering**

The Software Engineering Graduate Certificate program at Grand Canyon University is designed for professionals with a bachelor's degree in a different field who are looking to advance their careers in software engineering. The program provides students with the technical skills, ethical decision-making abilities, and communication skills necessary to design, develop, and maintain software. Upon completion of the program, graduates will be prepared to lead technical software engineering teams. The program is offered online and is designed to be affordable.

# **Degree Requirements**

DSC-510	Advanced Probability and Statistics	4 credits
<u>SWE-520</u>	Advanced Software Engineering Fundamentals	4 credits
SWE-530	Advanced Software Architectures	4 credits
<u>SWE-540</u>	Advanced Software Management & Concepts	4 credits
<u>SDD-620</u>	Advanced Database Design and Administration	4 credits
Graduate C	ertificate in Software Engineering	20 credits

# Minors

# **Minor in Cybersecurity**

The minor in Cybersecurity provides students with foundational information technology skills in programming, system administration, and computer networks as well as concepts and practical applications of cybersecurity tools, technologies and procedures. Deploying advanced techniques in exploitation, vulnerability assessment, penetration testing, policy management, and security program design, with real-world hands-on practical activities that go beyond theory are integrated within this minor.

#### **Minor Requirements**

MAT-154	Applications of College Algebra	4 credits
<u>CST-111</u>	Introduction to Computer Science and Information Technology	4 credits
<u>ITT-116</u>	Platforms and Network Technologies	4 credits
<u>ITT-121</u>	System Administration and Maintenance	4 credits
<u>ITT-307</u>	Cybersecurity Foundations	4 credits
<u>ITT-340</u>	Cybersecurity and Ethical Hacking	
Minor in Cy	bersecurity	24 credits

## **Minor in Embedded Systems**

The Minor in Embedded Systems equips current technology students with the skills to design, implement, and optimize the integration of software and hardware within electronic devices. This program combines hands-on learning with real-world

knowledge, preparing students for careers in industries ranging across the any field including manufacturing, finance, engineering, and technology.

# **Minor Pre-requisites**

<u>CST-105</u>	Computer Programming I	4 credits		
Minor Requi	Minor Requirements			
CST-239	Java Programming II	4 Credits		
CST-321	Operating System Fundamentals	4 Credits		
SWE-350	Embedded Systems I	4 Credits		
<u>SWE-450</u>	Embedded Systems II	4 Credits		
Minor in Embedded Systems		16 credits		

# **Minor in Machine Learning**

The Minor in Machine Learning offers students a foundational and advanced understanding of how to build algorithms that improve automatically through experience. This interdisciplinary program covers theoretical concepts, practical applications, and ethical considerations in machine learning, preparing students for a range of careers in data science, artificial intelligence, and beyond.

## **Minor Requirements**

CST-180	Python Programming I	4 Credits
AIT-104	Data Mining and Machine	4 Credits
	Learning	
AIT-110	Statistical Learning Theory	4 Credits
<u>AIT-204</u>	Deep Learning	4 Credits
		1 . 11.

Minor in Machine Learning

16 credits

# **Minor in Mixed Reality**

The Minor in Mixed Reality introduces students to the cuttingedge field of mixed reality, merging real and virtual environments to produce new spaces where physical and digital objects co-exist and interact in real time. Through hands-on projects and theoretical study, students will learn to create applications for augmented reality (AR), virtual reality (VR), and beyond, preparing them for innovative roles in entertainment, education, and industry.

# **Minor Prerequisites**

MAT-154	Applications of College Algebra	4 credits
Minor Requi	rements	
GDT-115	Introduction to Game Engines	4 Credits
<u>GDT-110</u>	Game Engine Architecture	4 Credits
GDT-120	Virtual Reality and Game	4 Credits
<u>GDT-220</u>	Development Augmented Reality and Game Development	4 Credits
Minor in Mi	xed Reality	16 credits

# **Minor in Networking Technology**

This minor in networking technology offers opportunities for students to learn in-demand technical skills. This minor provides the knowledge in selection, design, deployment, integration, and administration of networks and communication infrastructures in an organization using in-house and cloud-based solutions. Learning how to implement routing and switching while

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

explaining the physical and transport layers relevant to the IT discipline are offered in this minor. This minor also provides opportunities to implement tools and strategies to meet business objectives and ensure network security as well as explore issues around network management.

#### **Minor Requirements**

-		
	Networks	
	Management of Secure Corporate	
ITT-425	Analysis, Design, and	4 credits
<u>ITT-370</u>	Wireless Networks	4 credits
	177' 1 N 1	4 114
ITT-270	Routing and Switching	4 credits
	Technologies	
ITT-116	Platforms and Network	4 credits
	and Information Technology	
CST-111	Introduction to Computer Science	4 credits
<u>WIA1-134</u>	11 6 6	
MAT-154	Applications of College Algebra	4 credits

Minor in Networking Technology

24 credits

# Minor in Object Oriented Programming in C#

This minor focuses on Object Oriented Programming in the C, C# and C++ programming languages. It also includes concepts in secure programming.

# **Minor Prerequisites**

MAT-154	Applications of College Algebra	4 credits
Minor Req	uirements	
CST-150	Programming in C# I	4 credits
CST-250	Programming in C# II	4 credits
<u>CST-210</u>	Object-Oriented Programming Lecture & Lab	4 credits
<u>ITT-310</u>	Programming for Security Professionals	4 credits
Minor in Object Oriented Programming in C#		16 credits

# Minor in Object Oriented Programming in Java

This minor focuses on Object Oriented Programming in the Java, C, and C++ programming languages. It also includes concepts in secure programming.

## **Minor Requirements**

CST-105	Computer Programming I	4 credits
CST-239	Programming in Java II	4 credits
<u>CST-210</u>	Object-Oriented Programming Lecture & Lab	4 credits
<u>ITT-310</u>	Programming for Security Professionals	4 credits
Minor in Object Oriented Programming in Java		16 credits

## **Minor in Web Application Development**

This five-track sequence of courses focuses on basic web development using HTML, CSS, and JavaScript, an introduction to database development using NoSQL and MySQL database, and advanced web application development using the Express, Angular, and ReactJS JavaScript frameworks.

## **Minor Prerequisite**

CST-120	Introduction to Web	4 credits
	Development	

<sup>∆</sup> Writing intensive course	◆ Fulfills General Education r	requirement     Honors Maj	or Course   <sup>Ω</sup> Non-Transferable

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	Development	
CST-391	JavaScript Web Application	4 credits
	Development	
CST-345	Database Design and	4 credits
<u>CST-239</u>	Programming in Java II	4 credits
<u>CST-105</u>	Computer Programming I	4 credits

Minor in Web Application Development 20 credits

<sup>∆</sup> Writing intensive course   ◆ Fulfills General Education		
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# The College of Natural Sciences

# College Description

The College of Natural Sciences (CNS) is focused on preparing exceptionally competent graduates to enter the dynamic and highly competitive workforce of the future. While we emphasize excellence in essential content knowledge and skills, our students develop abilities such as creativity, adaptability, collaboration, and effective communication along with personal qualities such as social awareness, responsibility, ethical character, and compassion, as these are significant differentiators of the strongest candidates for either graduate school or workforce entry.

To help students develop these abilities, we provide ample opportunity through our curricular and co-curricular activities to apply skills, solve problems, and innovate through inquiry-based learning; to participate in multifaceted team projects; and to experience cross-disciplinary exposure; ensuring that their acquired skills are relevant to the workplace and their future success.

With an intentional focus on student success, we provide unparalleled support throughout the curriculum and continuous opportunities for comprehensive mentoring and advisement. Students are also provided opportunity to develop the personal interactional qualities necessary to be an ethical team player within the workforce and productive contributor to the greater society. Such opportunities include participation in faculty mentoring, engagement in the GCU and local communities, and developing an understanding of, or fully embracing, a Christian worldview as well as developing an understanding of how their personal worldview affects both the intention and the outcome of their interactions and personal success.

# College Mission & Vision

The College of Natural Sciences is an academic community dedicated to supporting, engaging and empowering each student with the knowledge and skills to be innovative, entrepreneurial and impactful leaders. By integrating scientific discovery and a Christ-centered culture, we provide all students the opportunity to transform the world, promote human flourishing, and glorify God through their service to others.

# **Guiding Principles**

The College of Natural Sciences:

- Empowers students to find and fulfill their purpose.
- Offers an educational experience of superior value.
- Prepares students with the knowledge, skills and mental disciplines to succeed in the contemporary job market and to positively impact their world.
- Develops in students an informed, critical-thinking mind and a servant's heart.
- Fosters qualities of creativity, adaptability, collaboration, effective communication, problem solving, and appreciation that support students in their continuous learning and spiritual growth.
- Instills social awareness, responsibility, ethical character, and compassion in students that emanates from the Christian worldview and the example of Christ.

# Science Programs

## **Bachelor of Science in Biological Sciences**

Grand Canyon University's Bachelor of Science in Biological Sciences prepares students for careers in a wide range of fields that utilize biological principles and provide the foundation to develop as scientists or biology professionals. Possible career paths include: technicians, naturalists, environmental education/outreach professionals, museum coordinators, conservation biologists, park rangers, Game and Fish professionals, zookeepers, and EPA, NRCS, USGS, or other government professionals. Students completing the Bachelor of Science in Biological Sciences will understand and demonstrate competency in a broad body of knowledge that includes the

domains of biology, chemistry, environmental sciences, ecology, and conservation. Students will also learn about professional and ethical practices associated with biology, all presented through the lens of a Christian worldview..

34-40 credits

# Degree Requirements

**Total General Education** 

Total Gener	ai Eddcation	
Total Biological Sciences Major		64 credits
Total Electives		16-22 credits
Biological S	Sciences Major	120 credits
Biological Sc	iences Major	
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II – Lab	1 credit
CHM-113	General Chemistry I	3 credits
CHM-113L	General Chemistry I Lab	1 credit
PHY-105	Fundamental Physics	3 credits
PHY-105L	Fundamental Physics Lab	1 credit
CHM-115	General Chemistry II	3 credits
CHM-115L	General Chemistry II Lab	1 credit
BIO-257	Principles of Genetics	4 credits
MAT-274	Probability and Statistics	4 credits
SCI-328	Science Methods and	4 credits
BIO-342	Communication Analysis of Biological Diversification	4 credits
BIO-326	Interdisciplinary Applications of Biology	4 credits
BIO-320	Fundamentals of Ecology	3 credits
BIO-320L	Fundamentals of Ecology-Lab	1 credit
BIO-415	Vertebrate Zoology	3 credits
BIO-415L	Vertebrate Zoology Lab	1 credit
BIO-328	Animal Behavior	3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Bachelor of Science in Biology for Secondary		
Biological Sciences Major 64 credits		
$BIO-487^{\Omega}$	Capstone Thesis in Biology	4 credits
BIO-479	Applied Field Research	4 credits
BIO-420	Conservation Biology	4 credits
BIO-328L	Animal Behavior Lab	1 credit

# **Education (IP/TL)**

#### (Initial Program-Leads to Initial Teacher Licensure)

This program is offered by the College of Natural Sciences, in conjunction with teaching licensure requirement courses provided by the College of Education for students who are preparing for a teaching career in grades 7-12 and who are seeking initial teacher licensure. The format and courses of this regionally accredited and Arizona-approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles. Content courses are aligned to the standards of the National Science Teachers Association (NSTA). Opportunities are provided to apply concepts, theories, and research throughout the program. Assessments within many of the courses guide students through 85 hours of practicum/field experiences prior to student teaching, and the final semester of the program requires a full-time, 16-week student teaching component. Applicants to the program are responsible for contacting their state department of education for licensure requirements and program approval. Arizona or home state fingerprint/background clearance is required for all practicum/field experiences and student teaching. Furthermore, applicants should consult the Grand Canyon University Catalog, the University Policy Handbook, and an academic counselor to obtain information regarding current policies and procedures inherent in a teacher licensure program.

### **Degree Requirements**

Total General Education	34-40 credits
Total Biology for Secondary Education Major	86 credits
Total Electives	0-6 credits
Biology for Secondary Education Major	126 credits
Total Practicum/Field Experience	85 hours

# **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

	Pre-Calculus	4 credits
<u>MAT-274</u>	Probability and Statistics	4 credits

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

SEC-202	Psychology for Secondary	4 credits
SCI-210	Educators History Landmarks in the Natural Sciences	2 credits
<u>SCI-211</u>	Paradigm Shifts in the Natural Sciences	2 credits

# **Biology for Secondary Education Major**

BIO-181	General Biology I	3 credits
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BIO-181L	General Biology I - Lab	1 credits
CHM-113	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credits
<u>EDU-330</u> <sup>∆</sup>	Social Justice for Educators	4 credits
<u>SPD-208</u>	Survey of Special Education: Teaching Children with Exceptionalities	4 credits
<u>CHM-115</u>	General Chemistry II-Lecture	3 credits
<u>CHM-115L</u>	General Chemistry II - Lab	1 credits
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II - Lab	1 credits
POS-301	Arizona and Federal Government	2 credits
<u>SEC-356</u>	Curriculum and Assessment for Secondary Educators	4 credits
<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits
BIO-210L	Anatomy and Physiology for Science Majors I Lab	1 credits
<u>CHM-235</u>	Survey of Organic Chemistry	3 credits
<u>CHM-235L</u>	Survey of Organic Chemistry Lab	1 credits
<u>SEC-351</u>	Lit Instruction: Assessment, Remediation & Intervention for Secondary Ed	4 credits
<u>ESL-445N</u>	Methods of Structured English Immersion for Secondary Education	3 credits
<u>SCI-300L</u>	Laboratory Safety and Supervision	1 credits
BIO-211	Anatomy and Physiology for Science Majors II	3 credits
<u>BIO-211L</u>	Anatomy and Physiology for Science Majors II Lab	1 credits
BIO-333#	Molecular and Cellular Biology	4 credits
<u>SEC-456</u>	Classroom Engagement and Management for Secondary Educators	4 credits
SEC-451	Data-Driven Instructional Methods for Secondary Educators	4 credits
PHY-111	General Physics I-Lecture	3 credits
PHY-111L	General Physics I - Lab	1 credits
BIO-320	Fundamentals of Ecology	3 credits
BIO-320L	Fundamentals of Ecology-Lab	1 credits
<u>BIO-457</u> ∮∆	Genetics	4 credits
SCI-480	Methods of Teaching Science in Secondary Schools	4 credits
SEC-490	Student Teaching for Secondary Education	8 credits
Biology for S	Secondary Education Major	86 credits

# Bachelor of Science in Biology with an Emphasis in Pre-Dentistry

The Bachelor of Science in Biology with an Emphasis in Pre-Dentistry is well-suited for students seeking acceptance into graduate study in dental medicine and other related degree programs. This program will prepare graduates for graduate school entrance exams (DAT) and includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

foundational knowledge in biological sciences, physical sciences, social sciences, and general human health and dental care issues. They will also study interpersonal and intercultural communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and medical intervention.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Biology with an Emphasis in Pre- Dentistry Major	80 credits
Total Electives	0-6 credits
Biology with an Emphasis in Pre-Dentistry Major	120 credits

# **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154	Applications of Algebra	4 credits
MAT-261	Pre-Calculus	4 credits
MAT-274	Probability and Statistics	4 credits

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

PSY-362	Social Psychology and Cultural	4 credits
	Applications	

### Biology with an Emphasis in Pre-Dentistry Major

Diology with	an Emphasis in Tre-Denustry Major	
$\underline{\text{SCI-150}}^{\Omega}$	Critical Analyses in Science	4 credits
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I – Lab	1 credit
BIO-215	General Microbiology	3 credits
BIO-215L	General Microbiology Lab	1 credit
CHM-113	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credit
<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits
BIO-210L	Anatomy and Physiology for Science Majors I Lab	1 credit
PHY-111	General Physics I-Lecture	3 credits
PHY-111L	General Physics I - Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II - Lab	1 credit
CHM-115	General Chemistry II-Lecture	3 credits
CHM-115L	General Chemistry II - Lab	1 credit
BIO-211	Anatomy and Physiology for Science Majors II	3 credits
BIO-211L	Anatomy and Physiology for Science Majors II Lab	1 credit
PHY-112	General Physics II-Lecture	3 credits
PHY-112L	General Physics II - Lab	1 credit
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit
<u>BIO-342</u>	Analysis of Biological Diversification	4 credits

CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
<u>BIO-457</u> <sup>‡∆</sup>	Genetics	4 credits
CHM-360 <sup>*</sup>	Principles of Biochemistry	3 credits
CHM-360L*	Principles of Biochemistry - Lab	1 credit
BIO-333 <sup>‡</sup>	Molecular and Cellular Biology	4 credits
BIO-343	Neurobiology	4 credits
BIO-330	Pathophysiology and Pharmacology	4 credits
BIO-470	Head and Neck Anatomy & Lab	4 credits
<u>SCI-495</u> ΩΔ	Capstone Project in the Sciences	4 credits
Biology with Major	an Emphasis in Pre-Dentistry	80 credits
1114101		

# Bachelor of Science in Biology with an Emphasis in Pre-Medicine

The Bachelor of Science in Biology with an Emphasis in Pre-Medicine is designed for students seeking acceptance into graduate study in any area of medicine or dentistry. The program will prepare graduates for the medical college admission test (MCAT), optometry admission test (OAT), or dental admission test (DAT) and includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire foundational knowledge in biological sciences, physical sciences, social sciences, and health care issues. They will also study interpersonal and intercultural communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and medical intervention.

# **Degree Requirements**

Total General Education	34-40 credits
Total Biology with an Emphasis in Pre- Medicine Major	80 credits
Total Electives	0-6 credits
Biology with an Emphasis in Pre-Medicine Major	120 credits

## **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-261	Pre-Calculus	4 credits
MAT-274	Probability and Statistics	4 credits

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

PSY-102	General Psychology	4 credits
PSY-362	Social Psychology and Cultural Applications	4 credits

# Biology with an Emphasis in Pre-Medicine Major

$\underline{\text{SCI-150}}^{\Omega}$	Critical Analyses in Science	4 credits
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I – Lab	1 credit
CHM-113	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits	Total Biology with an Emphasis in Pre-		80 credits
BIO-210L	Anatomy and Physiology for	1 credit	Pharmacy Major Total Electives		4-10 credits
	Science Majors I Lab General Microbiology	3 credits		th an Emphasis in Pre-Pharmacy	120 credits
BIO-215		1 credit	Major Major	in an Emphasis in The Tharmacy	
BIO-215L	General Microbiology Lab General Chemistry II-Lecture	3 credits	Required Go	eneral Education	
<u>CHM-115</u>	General Chemistry II - Lab	1 credit		General Education total credits, app	lied to the
<u>CHM-115L</u>	•	3 credits	Critical Thin	iking competency.)	
<u>BIO-211</u>	Anatomy and Physiology for Science Majors II	5 cledits	<u>MAT-154</u>	Applications of College Algebra	4 credits
BIO-211L	Anatomy and Physiology for	1 credit	MAT-261	Pre-Calculus	4 credits
BIO-182	Science Majors II Lab General Biology II	3 credits	MAT-274	Probability and Statistics	4 credits
BIO-182L	General Biology II - Lab	1 credit		General Education total credits, app	
<u>CHM-231</u>	Organic Chemistry I	3 credits		reness, Perspectives, and Ethics comp General Psychology	4 credits
CHM-231L	Organic Chemistry I Lab	1 credit	PSY-102		4 credits
BIO-335	Medical Terminology	2 credits	<u>PSY-362</u>	Social Psychology and Cultural Applications	4 Cledits
SCI-318	Research Methods & Design	2 credits	Biology with	an Emphasis in Pre-Pharmacy Ma	ajor
PHY-111	General Physics I-Lecture	3 credits	SCI-150 Ω	Critical Analyses in Science	4 credits
PHY-111L	General Physics I - Lab	1 credit	CHM-113	General Chemistry I-Lecture	3 credits
CHM-232	Organic Chemistry II	3 credits	CHM-113L	General Chemistry I - Lab	1 credit
<u>CHM-232L</u>	Organic Chemistry II Lab	1 credit	CHM-115	General Chemistry II-Lecture	3 credits
BIO-457 <sup>‡Δ</sup>	Genetics	4 credits	CHM-115L	General Chemistry II - Lab	1 credit
CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits	CHM-231	Organic Chemistry I	3 credits
CHM-360L <sup>‡</sup>	Principles of Biochemistry - Lab	1 credit	CHM-231L	Organic Chemistry I Lab	1 credit
PHY-112	General Physics II-Lecture	3 credits	BIO-181	General Biology I	3 credits
PHY-112L	General Physics II - Lab	1 credit	BIO-181L	General Biology I – Lab	1 credit
BIO-483 <sup>‡</sup>	Pathophysiology	4 credits	PHY-111	General Physics I-Lecture	3 credits
CHM-460	Advanced Biochemistry	3 credits	PHY-111L	General Physics I - Lab	1 credit
CHM-460L	Advanced Biochemistry Lab	1 credit	BIO-210	Anatomy and Physiology for	3 credits
SCI-495 ΩΔ	Capstone Project in the Sciences	4 credits	BIO-210L	Science Majors I Anatomy and Physiology for	1 credit
BIO-333 <sup>‡</sup>	Molecular and Cellular Biology	4 credits	<u>BIO-210L</u>	Science Majors I Lab	rerear
CHM-451	Pharmacology I	4 credits	<u>CHM-232</u>	Organic Chemistry II	3 credits
Biology with	an Emphasis in Pre-Medicine	80 credits	<u>CHM-232L</u>	Organic Chemistry II Lab	1 credit
Major	•		<u>BIO-182</u>	General Biology II	3 credits
Bachelor o	of Science in Biology with an	Emphasis	BIO-182L	General Biology II - Lab	1 credit
in Pre-Pha	armacy		BIO-211	Anatomy and Physiology for Science Majors II	3 credits
	of Science in Biology with an Emphalesigned for students seeking acceptant		BIO-211L	Anatomy and Physiology for Science Majors II Lab	1 credit
graduate phar	macy school. The program will prepa	re graduates	BIO-333	Molecular and Cellular Biology	4 credits
for the pharmacy college admission test (PCAT) and includes		CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits	
specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will		CHM-360L <sup>‡</sup>		1 credit	
acquire foundational knowledge in biological sciences, physical		BIO-483 <sup>‡</sup>	Pathophysiology	4 credits	
sciences, social sciences, and health care issues. They will also develop interpersonal and intercultural communication skills and		BIO-215	General Microbiology	3 credits	
investigate the psychological, spiritual, and physical components			BIO-215L	General Microbiology Lab	1 credit
	lness, and medical intervention.		MAT-252	Calculus and Analytic Geometry I	4 credits
Degree Requ			CHM-460	Advanced Biochemistry	3 credits
Total Gener	al Education	34-40 credits			4 4.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

CHM-460L

Advanced Biochemistry Lab

1 credit

**Total General Education** 

CHM-451	Pharmacology I	4 credits
<u>BIO-457</u> <sup>₹</sup> Δ	Genetics	4 credits
CHM-452	Pharmacology II	4 credits
<u>SCI-495</u> ΩΔ	Capstone Project in the Sciences	4 credits
Biology with	n an Emphasis in Pre-Pharmacy	80 credits
Major		

# Bachelor of Science in Biology with an Emphasis in Pre-Pre-Physician Assistant

The Bachelor of Science in Biology with an Emphasis Pre-Physician Assistant is designed for students seeking acceptance into graduate level physician assistant education. The program includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire foundational knowledge in biological sciences, physical sciences, social sciences, and health care issues. They will also develop interpersonal communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and medical intervention.

# **Degree Requirements**

Total General Education	34-40 credits
Total Biology with an Emphasis in Pre-	80 credits
Physician Assistant Major	
Total Electives	0-6 credits
Biology with an Emphasis in Pre-Physician Assistant Major	120 credits

#### **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154	Applications of College Algebra	4 credits
MAT-261	Pre-Calculus	4 credits
MAT-274	Probability and Statistics	4 credits

(Included in General Education total credits, applied to the Global Awareness, Perspectives, and Ethics competency.)

PSY-102	General Psychology	4 credits
<u>PSY-362</u>	Social Psychology and Cultural Applications	4 credits

#### Biology with an Emphasis in Pre-Physician Assistant Major

Diology with	an Emphasis in 11c-1 hysician Assistan	t Major
$\underline{\text{SCI-150}}^{\Omega}$	Critical Analyses in Science	4 credits
<u>BIO-181</u>	General Biology I	3 credits
BIO-181L	General Biology I – Lab	1 credit
BIO-215	General Microbiology	3 credits
BIO-215L	General Microbiology Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II - Lab	1 credit
CHM-113	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credit
BIO-210	Anatomy and Physiology for Science Majors I	3 credits
BIO-210L	Anatomy and Physiology for Science Majors I Lab	1 credit
<u>PHY-111</u>	General Physics I-Lecture	3 credits

PHY-111L	General Physics I - Lab	1 credit
CHM-115	General Chemistry II-Lecture	3 credits
CHM-115L	General Chemistry II - Lab	1 credit
BIO-211	Anatomy and Physiology for Science Majors II	3 credits
BIO-211L	Anatomy and Physiology for Science Majors II Lab	1 credit
PHY-112	General Physics II-Lecture	3 credits
PHY-112L	General Physics II - Lab	1 credit
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit
BIO-333 <sup>‡</sup>	Molecular and Cellular Biology	4 credits
LDR-462	Professional Applications in Service Learning II	2 credits
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits
CHM-360L*	Principles of Biochemistry - Lab	1 credit
BIO-335	Medical Terminology	2 credits
BIO-358	Immunology	4 credits
BIO-483 <sup>‡</sup>	Pathophysiology	4 credits
<u>BIO-457</u> <sup>‡∆</sup>	Genetics	4 credits
BIO-343	Neurobiology	4 credits
<u>SCI-495</u> ΩΔ	Capstone Project in the Sciences	4 credits
Biology with	an Emphasis in Pre-Physician	80 credits

Biology with an Emphasis in Pre-Physician Assistant Major

# **Bachelor of Science in Biology with an Emphasis in Pre-Veterinary Medicine**

The Bachelor of Science in Biology with an Emphasis in Pre-Veterinary Medicine is well-suited for students seeking acceptance into graduate study in veterinary medicine, animal sciences, and other related degree programs. This program includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire foundational knowledge in biological sciences, physical sciences, social sciences, and animal and human health care issues. They will also study interpersonal and intercultural communication skills, and investigate the psychological, spiritual, and physical components of health, wellness, and medical intervention.

# **Degree Requirements**

Total General Education	34-40 credits
Total Biology with an Emphasis in Pre-	80 credits
Veterinary Medicine Major	
Total Electives	0-6 credits
Biology with an Emphasis in Pre-Veterinary	120 credits
Medicine Major	

#### **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154 Applications of College Algebra 4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

MAT-261	Pre-Calculus	4 credits	enter employment in the biomedical, biotechnology,		
MAT-274	MAT-274 Probability and Statistics 4 credits pharmaceutical, environmental research and chemical indu Others find work in university, government or hospital research				
Biology with an Emphasis in Pre-Veterinary Medicine Major		laboratories.			
BIO-181	General Biology I	3 credits	Degree Requ		
BIO-181L	General Biology I - Lab	1 credit	Total Gener	ral Education	34-40 credits
BIO-182	General Biology II	3 credits	Total Chem	nistry Major	80 credits
BIO-182L	General Biology II - Lab	1 credit	Total Electi	ives	0-6 credits
BIO-215	General Microbiology	3 credits	Total Bache	elor of Science in Chemistry	120 credits
BIO-215L	General Microbiology Lab	1 credit	Required Go	eneral Education	
BIO-257	Principles of Genetics	4 credits		General Education total credits, appl	lied to the
BIO-328	Animal Behavior	3 credits		nking competency.)	4 1.
BIO-328L	Animal Behavior Lab	1 credit	<u>MAT-261</u>	Pre-Calculus	4 credits
BIO-329	Animal Nutrition	4 credits	Chemistry N	=	
BIO-335	Medical Terminology	2 credits	<u>CHM-113</u>	General Chemistry I-Lecture	3 credits
BIO-342	Analysis of Biological Diversification	4 credits	<u>CHM-113L</u>	General Chemistry I – Lab	1 credit
BIO-364	Vertebrate Physiology	4 credits	<u>CHM-115</u>	General Chemistry II-Lecture	3 credits
BIO-415	Vertebrate Zoology	3 credits	<u>CHM-115L</u>	General Chemistry II – Lab	1 credit
BIO-415L	Vertebrate Zoology Lab	1 credit	$\underline{\text{SCI-150}}^{\Omega}$	Critical Analyses in Science	4 credits
BIO-463	Animal Pathophysiology	4 credits	<u>CHM-231</u>	Organic Chemistry I	3 credits
CHM-113	General Chemistry I-Lecture	3 credits	<u>CHM-231L</u>	Organic Chemistry I Lab	1 credit
<u>CHM-113L</u>	General Chemistry I - Lab	1 credit	<u>MAT-262</u>	Calculus for Science and Engineering I	4 credits
CHM-115	General Chemistry II-Lecture	3 credits	MAT-274	Probability and Statistics	4 credits
CHM-115L	General Chemistry II - Lab	1 credit	CHM-232	Organic Chemistry II	3 credits
CHM-231	Organic Chemistry I	3 credits	CHM-232L	Organic Chemistry II Lab	1 credit
CHM-231L	Organic Chemistry I Lab	1 credit	MAT-264	Calculus for Science and	4 credits
CHM-232	Organic Chemistry II	3 credits	CHM 215#	Engineering II Analytical Chemistry	3 credits
<u>CHM-232L</u>	Organic Chemistry II Lab	1 credit	<u>CHM-315</u> <sup>‡</sup> <u>CHM-315L</u> <sup>‡</sup>		1 credit
CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits	<u>CHM-313L</u> <u>CHM-420</u> <sup>∆</sup>	Environmental Chemistry	3 credits
CHM-360L*	Principles of Biochemistry - Lab	1 credit	BIO-181	General Biology I	3 credits
PHY-111	General Physics I-Lecture	3 credits	BIO-181L	General Biology I – Lab	1 credit
PHY-111L	General Physics I - Lab	1 credit	<u>BIO-181L</u> PHY-121	University Physics I	3 credits
PHY-112	General Physics II-Lecture	3 credits	PHY-121L	University Physics I Lab	1 credit
<u>PHY-112L</u>	General Physics II - Lab	1 credit	SCI-300L	Laboratory Safety and Supervision	1 credit
$\underline{\text{SCI-150}}^{\Omega}$	Critical Analyses in Science	4 credits	<u>CHM-333</u>	Structure Determination in Organic	
<u>SCI-318</u>	Research Methods & Design	2 credits		Chemistry	
<u>SCI-495 ΩΔ</u>	Capstone Project in the Sciences	4 credits	<u>CHM-360</u> <sup>‡</sup>	Principles of Biochemistry	3 credits
	n an Emphasis in Pre-Veterinary	80 credits	<u>CHM-360L</u> <sup>‡</sup>		1 credit
Medicine M	J.		<u>CHM-441</u>	Physical Chemistry I	3 credits
Bachelor of	of Science in Chemistry		<u>CHM-441L</u>	Physical Chemistry I Lab	1 credit
The Bachelor of Science (B.S.) in Chemistry conforms to the		PHY-122 <sup>‡</sup>	University Physics II	3 credits	
	ovided by the American Chemical Socudents an interdisciplinary curriculum.		PHY-122L*	University Physics II Lab	1 credit
	oad background in chemical science, the		<u>CHM-444</u>	Physical Chemistry II	3 credits
lens of our Christian worldview, guided by the principles of		<u>CHM-444L</u>	Physical Chemistry II Lab	1 credit	
	ological responsibility and humanitaria tudents planning careers in high-growt		CHM-365 <sup>‡</sup>	Instrumental Analysis	3 credits
as biotechnol	ogy and health care research or further	training in	<u>CHM-365L</u> <sup>‡</sup>	Instrumental Analysis Lab	1 credit

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

graduate biomedical professional programs. Many graduates

CHM-448	Inorganic Chemistry	3 credits	ENV-30
CHM-448L	Inorganic Chemistry Lab	1 credit	BIO-415
<u>SCI-495</u> <sup>∆</sup>	Capstone Project in the Sciences	4 credits	BIO-415
Chemistry N	Major	80 credits	BIO-479

## **Bachelor of Science in Environmental Science**

The Bachelor of Science in Environmental Science is designed for students interested in environmental science, including ecology, natural resource management, waste management, environmental health, and environmental chemistry. Graduates will acquire foundational knowledge in environmental sciences, physical sciences, epidemiology, and health care issues along with developing interpersonal and intercultural communication skills. The environmental science courses will have a teambased analytical focus to challenge students on foundational and advanced concepts to strengthen their understanding for application projects embedded in the program. This degree will prepare students for a career as an environmental scientist, analytical scientist, educator, and natural resource manager.

# **Degree Requirements**

Total General Education	34-40 credits
Total Environmental Science Major	76 credits
Total Electives	4-10 credits
Total Bachelor of Science in Environmental Science	120 credits

# **Environmental Science Major**

Environment	tal Science Major	
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II Lab	1 credit
ENV-220	Essentials of Environmental Science	4 credits
BIO-195	Fundamental Microbiology	3 credits
BIO-195L	Fundamental Microbiology Lab	1 credit
CHM-113	General Chemistry I	3 credits
CHM-113L	General Chemistry I Lab	1 credit
PHY-111	General Physics I	3 credits
PHY-111L	General Physics I Lab	1 credit
BIO-320	Fundamentals of Ecology	3 credits
BIO-320L	Fundamentals of Ecology Lab	1 credit
CHM-115	General Chemistry II	3 credits
CHM-115L	General Chemistry II Lab	1 credit
MAT-274	Probability and Statistics	4 credits
ENV-305	Environmental Management and Sustainability	4 credits
BIO-420	Conservation Biology	4 credits
<u>BIO-342</u>	Analysis of Biological Diversification	4 credits
ENV-300	Environmental and Human Health Risk Assessment	4 credits
BIO-328	Animal Behavior	3 credits
BIO-328L	Animal Behavior Lab	1 credit

		7.6
<u>BIO-487</u> <sup>Ω</sup>	Capstone Thesis in Biology	4 credits
ENV-303	Environmental Geology	4 credits
BIO-479	Applied Field Research	4 credits
BIO-415L	Vertebrate Zoology Lab	1 credit
BIO-415	Vertebrate Zoology	3 credits
ENV-301	Environmental Law	4 credits

**Environmental Science Major** 

76 credits

# **Bachelor of Science in Environmental Science** with an Emphasis in Environmental Chemistry

Grand Canyon University's Bachelor of Science in Environmental Science with emphasis in Environmental Chemistry prepares students for career options, that include but are not limited to: environmental and health scientist, analytical labs, pollution remediation, environmental impact assessment, environmental consultancy, analyst, manager, instructor, and researcher. Students also learn professional and ethical practices associated with environmental science through the lens of our Christian worldview, guided by the principles of social and ecological responsibility and humanitarianism. Students will explore the problems and trends associated with measurement, cleanup and management of environmental contaminants. Competencies include proficiency in the foundations of science, scientific communication, data mining and statistical modeling, environmental and human health regulations, environmental science, and environmental health. This program emphasizes critical thinking, real-world application, practical project experience, and the development of scientific acumen. In addition, students develop valuable workplace skills, including effective communication, teamwork, initiative, work ethic, analytical skills, adaptability, and self-confidence.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Environmental Science with an	75 credits
Emphasis in Environmental Chemistry Major	
Total Electives	5-11 credits
Total Bachelor of Science in Environmental Science with an Emphasi sin Environmental	120 credits
Chemistry	

# Environmental Science with an Emphasis in Environmental Chemistry Major $\,$

Chemistry M	iajor	
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II Lab	1 credit
ENV-220	Essentials of Environmental Science	4 credits
BIO-195	Fundamental Microbiology	3 credits
BIO-195L	Fundamental Microbiology Lab	1 credit
CHM-113	General Chemistry I	3 credits
<u>CHM-113L</u>	General Chemistry I Lab	1 credit
PHY-111	General Physics I	3 credits
PHY-111L	General Physics I Lab	1 credit
BIO-320	Fundamentals of Ecology	3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

BIO-320L	Fundamentals of Ecology Lab	1 credit
CHM-115	General Chemistry II	3 credits
<u>CHM-115L</u>	General Chemistry II Lab	1 credit
MAT-274	Probability and Statistics	4 credits
ENV-305	Environmental Management and Sustainability	4 credits
CHM-235	Survey of Organic Chemistry	3 credits
CHM-235L	Survey of Organic Chemistry Lab	1 credit
<u>ENV-300</u>	Environmental and Human Health Risk Assessment	4 credits
CHM-315	Analytical Chemistry	3 credits
CHM-315L	Analytical Chemistry Lab	1 credit
CHM-420	Environmental Chemistry	3 credits
ENV-301	Environmental Law	4 credits
CHM-365	Instrumental Analysis	3 credits
CHM-365L	Instrumental Analysis Lab	1 credit
ENV-303	Environmental Geology	4 credits
ENV-402	Chemical Investigation and Remediation Strategies	3 credits
ENV-402L	Chemical Investigation and Remediation Strategies Lab	1 credit
$BIO-487^{\Omega}$	Capstone Thesis in Biology	4 credits
	al Science with an Emphasis in al Chemistry Major	75 credits
		A . =

# Bachelor of Science in Exercise Science with an Emphasis in Pre-Athletic Training

The Bachelor of Science in Exercise Science with an Emphasis in Pre-Athletic Training is designed for students seeking acceptance into graduate level Athletic Training education. The program includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire foundational knowledge in biological sciences, exercise science, social sciences, and health care issues. They will also develop interpersonal communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and therapeutic intervention.

## **Degree Requirements**

Total General Education	34-40 credits
Total Exercise Science with an Emphasis in Pre-Athletic Training Major	80 credits
Total Electives	0-6 credits

# **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154	Applications of College Algebra	4 credits
MAT-274	Probability and Statistics	4 credits
NSC 150	Nutrition and Wellness	4 credits

(Included in General Education total credits, applied to the Effective Communication competency.)

# Exercise Science with an Emphasis in Pre-Athletic Training Major

4 credits

Introduction to Writing for the

Sciences

ENG-107

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I – Lab	1 credit
EXS-250	Resistance Training and	3 credits
EAS-250	Cardiovascular Fitness	o credits
EXS-250L	Resistance Training and	1 credit
<u>CHM-113</u>	Cardiovascular Fitness Lab General Chemistry I-Lecture	3 credits
	General Chemistry I - Lab	1 credit
CHM-113L	Anatomy and Physiology for	3 credits
<u>BIO-210</u>	Science Majors I	3 Cicaris
BIO-210L	Anatomy and Physiology for	1 credit
EVC 210	Science Majors I Lab Sports Performance Science and	3 credits
EXS-210	Coaching	3 Cicaris
EXS-210L	Sports Performance Science and	1 credit
DIO 211	Coaching Lab Anatomy and Physiology for	3 credits
<u>BIO-211</u>	Science Majors II	3 Cicaris
BIO-211L	Anatomy and Physiology for	1 credit
EVC 105	Science Majors II Lab Research Methods in Exercise	4 credits
EXS-485	Science	· credits
PHY-111	General Physics I-Lecture	3 credits
<u>PHY-111L</u>	General Physics I - Lab	1 credit
<u>ATP-214</u>	Care, Treatment, and Prevention of	3 credits
ATD 214I	Athletic Injuries Care, Treatment, and Prevention of	1 credit
<u>ATP-214L</u>	Athletic Injuries Lab	1 Cicuit
PSY-357	Lifespan Development	4 credits
EXS-340	Physiology of Exercise	3 credits
EXS-340L	Physiology of Exercise – Lab	1 credit
$EXS-481^{\Omega}$	Sports Performance Capstone	4 credits
PSY-366	Introduction to Sport and Exercise	4 credits
BIO-319	Psychology Applied Nutrition	4 credits
EXS-335	Kinesiology	3 credits
EXS-335L	Kinesiology Lab	1 credit
EXS-430	Health Promotion	4 credits
EXS-305	Motor Control and Motor Learning	4 credits
	Advanced Principles of Sports	3 credits
EXS-455	Performance	3 creates
EXS-455L	Advanced Principles of Sports	1 credit
DIO 252	Performance Lab Emergency Care for Acute Injuries	4 credits
BIO-253	Exercise Science: Special	4 credits
EXS-344	Populations	- cicuits
Exercise Scie	ence with an Emphasis in Pre-	80 credits

Exercise Science with an Emphasis in Pre-Athletic Training Major

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Bachelor of Science in Exercise Science with an Emphasis in Pre-Physical Therapy

The Bachelor of Science in Exercise Science with an Emphasis in Pre-Physical Therapy is designed for students seeking acceptance into graduate level physical therapy education. The program includes specialized coursework focused on preparing students for success in their graduate studies and professional careers. Graduates will acquire foundational knowledge in biological sciences, exercise science, social sciences, and health care issues. They will also develop interpersonal communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and therapeutic intervention.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Exercise Science with an Emphasis in	80 credits
Pre-Physical Therapy Major Total Electives	0-6 credits
Exercise Science with an Emphasis in Pre- Physical Therapy Major	120 credits

## **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154	Applications of College Algebra	4 credits
MAT-274	Probability and Statistics	4 credits
NSC-150	Nutrition and Wellness	4 credits

(Included in General Education total credits, applied to the Effective Communication competency.)

ENG-107	Introduction to Writing for the	4 credits
	Sciences	

# Exercise Science with an Emphasis in Pre-Physical Therapy Major

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I – Lab	1 credit
CHM-113	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credit
BIO-210	Anatomy and Physiology for Science Majors I	3 credits
BIO-210L	Anatomy and Physiology for Science Majors I Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II - Lab	1 credit
CHM-115	General Chemistry II-Lecture	3 credits
CHM-115L	General Chemistry II - Lab	1 credit
BIO-211	Anatomy and Physiology for Science Majors II	3 credits
BIO-211L	Anatomy and Physiology for Science Majors II Lab	1 credit
PHY-111	General Physics I-Lecture	3 credits
PHY-111L	General Physics I - Lab	1 credit
EXS-210	Sports Performance Science and Coaching	3 credits
<u>EXS-210L</u>	Sports Performance Science and Coaching Lab	1 credit

EXS-250	Resistance Training and Cardiovascular Fitness	3 credits
EXS-250L	Resistance Training and Cardiovascular Fitness Lab	1 credit
EXS-305	Motor Control and Motor Learning	4 credits
EXS-344	Exercise Science: Special Populations	4 credits
EXS-340	Physiology of Exercise	3 credits
EXS-340L	Physiology of Exercise – Lab	1 credit
$EXS-481^{\Omega}$	Sports Performance Capstone	4 credits
PHY-112	General Physics II-Lecture	3 credits
PHY-112L	General Physics II - Lab	1 credit
EXS-335	Kinesiology	3 credits
EXS-335L	Kinesiology Lab	1 credit
PSY-357	Lifespan Development	4 credits
EXS-430	Health Promotion	4 credits
PSY-470	Abnormal Psychology	4 credits
EXS-485	Research Methods in Exercise Science	4 credits
EXS-318	Principles of Corrective Exercises	4 credits
Exercise Scie	ence with an Emphasis in Pre-	80 credits

Exercise Science with an Emphasis in Pre-Physical Therapy Major

# Bachelor of Science in Exercise Science with an Emphasis in Sports Performance

The Bachelor of Science in Exercise Science with an Emphasis in Sports Performance program involves the study of the anatomical, kinesiological, and physiological principles and processes of human movement. This includes a focus on the link between physical activity and improved health outcomes with foundational knowledge of behavior change, basic nutrition, and sports nutrition. The emphasis in sports performance focuses on the application of this study to improving performance in sportsrelated activities with numerous hands-on laboratory courses in which students apply and practice skills studied in didactic courses. Students learn professional and ethical practices associated with this field of study as seen through the lens of a Christian worldview. Students in this program will be well versed in the knowledge and skills necessary for entering the field as fitness professionals. The program provides practical experience and aligns to the body of knowledge provided by organizations such as the American College of Sports Medicine, the National Strength and Conditioning Association, and/or National Academy of Sports Medicine. Options for students to continue their education include post-baccalaureate degrees such as athletic training, physical therapy, physical assistant, occupational therapy, medicine, kinesiology, exercise physiology, or fitness and wellness.

# Degree Requirements

Total General Education	34-40 credits
Total Exercise Science with an Emphasis in Sports Performance Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Exercise Science with an Emphasis in Sports Performance	120 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Exercise Science with an Emphasis in Sports Performance** Major

· ·		
NSC-150	Nutrition and Wellness	4 credits
EXS-485	Research Methods in Exercise Science	4 credits
EXS-250	Resistance Training and Cardiovascular Fitness	3 credits
EXS-250L	Resistance Training and Cardiovascular Fitness Lab	1 credit
EXS-430 <sup>‡</sup> ∆	Health Promotion	4 credits
BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credit
EXS-210	Sports Performance Science and Coaching	3 credits
EXS-210L	Sports Performance Science and Coaching Lab	1 credit
EXS-344	Exercise Science: Special Populations	4 credits
BIO-202	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II-Lab	1 credit
EXS-340 <sup>≠∆</sup>	Exercise Physiology	3 credits
EXS-340L*	Exercise Physiology Lab	1 credit
EXS-305	Motor Control and Motor Learning	4 credits
EXS-335	Kinesiology	3 credits
EXS-335L	Kinesiology Lab	1 credit
$EXS-481^{\Omega}$	Sports Performance Capstone	4 credits
EXS-455	Advanced Principles of Sports Performance	3 credits
<u>EXS-455L</u>	Advanced Principles of Sports Performance Lab	1 credit
EXS-318	Principles of Corrective Exercises	4 credits
EXS-491	Applied Exercise Science	4 credits

60 credits Exercise Science with an Emphasis in Sports Performance Major

# Bachelor of Science in Exercise Science with an **Emphasis in Sports Performance** *Effective May* 2025

The Bachelor of Science in Exercise Science with an Emphasis in Sports Performance program involves the study of the anatomical, kinesiological, and physiological principles and processes of human movement. This includes a focus on the link between physical activity and improved health outcomes, with foundational knowledge of behavior change, basic nutrition, and sports nutrition. The emphasis in sports performance focuses on the application of this study to improving performance in sportsrelated activities through numerous hands-on laboratory courses in which students apply and practice skills studied in didactic courses. Students learn professional and ethical practices associated with this field of study as seen through the lens of a Christian worldview. Students in this program will be well versed in the knowledge and skills necessary for entering the field as fitness professionals. The program provides practical experience and aligns to the body of knowledge provided by organizations such as the American College of Sports Medicine, the National

Strength and Conditioning Association, and/or National Academy of Sports Medicine. Options for students to continue their education include post-baccalaureate degrees such as athletic training, physical therapy, physical assistant, occupational therapy, medicine, kinesiology, exercise physiology, or fitness and wellness.

### **Degree Requirements**

Total General Education	34-40 credits
Total Exercise Science with an Emphasis in Sports Performance Major	60 credits
Total Electives	20-26 credits
Total Bachelor of Science in Exercise Science with an Emphasis in Sports Performance	120 credits

## **Exercise Science with an Emphasis in Sports Performance** Major

NSC-150	Nutrition and Wellness	4 credits
EXS-210	Sports Performance Science and Coaching	3 credits
<u>EXS-210L</u>	Sports Performance Science and Coaching Lab	1 credit
BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credit
EXS-250	Resistance Training and Cardiovascular Fitness	3 credits
EXS-250L	Resistance Training and Cardiovascular Fitness Lab	1 credit
EXS-318	Principles of Corrective Exercises	4 credits
BIO-202	Human Anatomy and Physiology	3 credits
BIO-202L	Human Anatomy and Physiology II-Lab	1 credit
EXS-340 <sup>≠</sup> Δ	Exercise Physiology	3 credits
EXS-340L <sup>#</sup>	Exercise Physiology Lab	1 credit
EXS-328	Sports Nutrition	4 credits
EXS-335	Kinesiology	3 credits
EXS-335L	Kinesiology Lab	1 credit
$EXS-481^{\Omega}$	Sports Performance Capstone	4 credits
EXS-430 <sup>≠</sup> Δ	Health Promotion	4 credits
EXS-455	Advanced Principles of Sports Performance	3 credits
EXS-455L	Advanced Principles of Sports Performance Lab	1 credit
EXS-485	Research Methods in Exercise Science	4 credits
EXS-344	Exercise Science: Special Populations	4 credits
EXS-491	Applied Exercise Science	4 credits
Exercise Scie	ence with an Emphasis in Sports	60 credits

Exercise Science with an Emphasis in Sports Performance Major

#### **Bachelor of Science in Forensic Science**

The Bachelor of Science in Forensic Science is designed for students who are interested in analyzing or collecting and processing biological evidence related to various types of legal and other investigations. The emphasis builds on a solid

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

foundation of biology and chemistry, and provides additional training in criminal investigation, forensic biology, forensic human pathology, serology, and forensic DNA analysis. The program provides excellent preparation for graduate work in specialized areas of forensics. Forensic science students receive extensive training in the collection and analysis of biological evidence in both lab and field settings. Students learn how to evaluate mock crime scenes and how to document, collect, and analyze the biological evidence to establish the time and cause of death. With the rapid advances in biology, and because of the precision of the science, courts are apportioning greater weight to forensic evidence. Employment growth in state and local governments should be driven by the increasing application of forensic science techniques—such as DNA analysis—to examine, solve, and prevent crime. This has created a critical need for personnel with specialized training in the field. Individuals who earn a bachelor's degree may seek employment in various private or public forensic science and conventional analytical laboratories. Students with sufficient work experience could eventually qualify for positions as laboratory supervisors, managers, or directors. Graduates will also find the program very useful in pursuing future studies at the master or Ph.D. level.

#### **Degree Requirements**

Total General Education	34-40 credits
Total Forensic Science Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Forensic	120 credits
Science	

### **Required General Education**

JUS-430

Forencie Science Major

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-154	Applications of College Algebra	4 credits
MAT-261	Pre-Calculus	4 credits
MAT-274	Probability and Statistics	4 credits

(Included in General Education total credits, applied to the Global Awareness competency.)

Criminal Law

Forensic Scie	ence Major	
FOR-150	Critical Analyses in Forensic Science	4 credits
BIO-181	General Biology I	3 credits
<u>BIO-181L</u>	General Biology I Lab	1 credit
<u>SCI-220</u>	Forensic Photography & Reconstruction	4 credits
<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits
BIO-210L	Anatomy and Physiology for Science Majors I Lab	1 credit
PHY-111	General Physics I – Lecture	3 credits
<u>PHY-111L</u>	General Physics I – Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
CHM-113L	General Chemistry I – Lab	1 credit
SCI-255	Crime Scene Processing	3 credits

Crime Scene Processing Lab

PHY-112	General Physics II – Lecture	3 credits
PHY-112L	General Physics II – Lab	1 credit
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
BIO-339	Molecular Biology	4 credits
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit
MAT-252	Calculus and Analytic Geometry I	4 credits
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
SCI-330	Physical Evidence Analysis	3 credits
SCI-330L	Physical Evidence Analysis Lab	1 credit
CHM-315	Analytical Chemistry	3 credits
CHM-315L	Analytical Chemistry Lab	1 credit
<u>CHM-440</u>	Toxicology & Instrumental Analysis	4 credits
CHM-360 <sup>≠</sup>	Principles of Biochemistry	3 credits
CHM-360L <sup>‡</sup>	Principles of Biochemistry – Lab	1 credit
BIO-457	Genetics	4 credits
<u>SCI-498</u> Ω	Senior Capstone in Forensic Science	4 credits
BIO-440 <sup>‡</sup>	Body Fluid and DNA Analysis	4 credits
Forensic Scie	ence Major	80 credits

Forensic Science Major

# **Bachelor of Science in Forensic Science** (Accelerated Pathway to Master of Science in **Forensic Science**)

Grand Canyon University's Bachelor of Science in Forensic Science (Accelerated Pathway to Master of Science in Forensic Science) program is designed for students seeking to enter their career in forensic sciences at a higher level. Students will develop a comprehensive skill set required for forensic laboratories, including data collection and analysis, critical thinking skills, integrity, ethical principles, and courtroom testimony. The incorporation of a unique curriculum with hands-on laboratory activities throughout readily prepares students to utilize logic and critical thinking in the analysis of various forms of forensic evidence.

### **Degree Requirements**

Total General Education	34-40 credits
Total Forensic Science Major	80 credits
Total Electives	0-6 credits
Total Bachelor of Science in Forensic Science (Accelerated Pathway to Master of Science in Forensic Science)	120 credits

#### **Required General Education**

(Included in General Education total credits, applied to the Critical Thinking competency.)

MAT-261	Pre-Calculus	4 credits
MAT-274	Probability and Statistics	4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

1 credit

4 credits

SCI-255L

(Included in General Education total credits, applied to the Global Awareness competency.)

<u>JUS-430</u>	Criminal Law	4 credits
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# Forensic Science (Accelerated Pathway to Master of Science in Forensic Science) Major

in Forensic 5	cicicc) Major	
FOR-150	Critical Analyses in Forensic Science	4 credits
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
<u>SCI-220</u>	Forensic Photography & Reconstruction	4 credits
<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits
<u>BIO-210L</u>	Anatomy and Physiology for Science Majors I Lab	1 credit
PHY-111	General Physics I – Lecture	3 credits
PHY-111L	General Physics I – Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
CHM-113L	General Chemistry I – Lab	1 credit
SCI-255	Crime Scene Processing	3 credits
SCI-255L	Crime Scene Processing Lab	1 credit
PHY-112	General Physics II – Lecture	3 credits
PHY-112L	General Physics II – Lab	1 credit
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
BIO-339	Molecular Biology	4 credits
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit
MAT-252	Calculus and Analytic Geometry I	4 credits
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
SCI-330	Physical Evidence Analysis	3 credits
SCI-330L	Physical Evidence Analysis Lab	1 credit
CHM-315	Analytical Chemistry	3 credits
CHM-315L	Analytical Chemistry Lab	1 credit
FOR-560	General Principles of Drug Chemistry and Forensic Toxicology	4 credits
CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits
CHM-360L*	Principles of Biochemistry - Lab	1 credit
BIO-457	Genetics	4 credits
<u>SCI-498</u> <sup>Ω</sup>	Senior Capstone in Forensic Science	4 credits
FOR-540	Advanced Body Fluid and DNA Analysis	4 credits
	ence (Accelerated Pathway to ience in Forensic Science) Major	80 credits

**Bachelor of Science in Medical Laboratory Science** 

Medical Laboratory Science (MLS) is where basic laboratory science meets the practice of medicine. It is a profession of

highly knowledgeable and skilled individuals who perform clinical laboratory tests on blood, other body fluids, or tissue samples. This is a critical part of health care, as the results obtained by these laboratory tests are a vital tool for physicians in their diagnosis, treatment, and prevention of disease. Medical laboratory scientists may work in a variety of settings. Many work in clinical laboratories in large medical centers, hospitals, and clinics. Others do research in industrial, public health, and medical laboratories,; or teach in hospitals, colleges and universities. An MLS may practice as a generalist, using knowledge in several of the scientific disciplines, or may specialize in one scientific area in larger hospitals. Successful Medical Laboratory Scientists are individuals who enjoy studying the biological, chemical and physical sciences, and who find personal satisfaction and intellectual reward in applying scientific methods in the diagnosis and evaluation of disease.

# **Degree Requirements**

34-40 credits
80 credits
0-6 credits
120 credits

#### **Required General Education**

(Included in General Education total credits, applied to the Effective Communication competency.)

ENG-107 Introduction to Writing for the 4 credits Sciences

(Included in General Education total credits, applied to the Critical Thinking competency.)

<u>CHM-113</u>	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credits
MAT-154	Applications of College Algebra	4 credits
MAT-274	Probability and Statistics	4 credits

### **Medical Laboratory Science Major**

BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credits
BIO-202	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II- Lab	1 credits
BIO-205	Microbiology	3 credits
BIO-205L	Microbiology - Lab	1 credits
BIO-335	Medical Terminology	2 credits
BIO-358	Immunology	4 credits
CHM-115	General Chemistry II-Lecture	3 credits
<u>CHM-115L</u>	General Chemistry II - Lab	1 credits
CHM-350	Fundamental Biochemistry	3 credits
CHM-350L	Fundamental Biochemistry Lab	1 credits
MLS-301L	Foundations of Medical Laboratory Practice	1 credits
MLS-303	Principles of Hematology and Hemostasis	3 credits
MLS-303L	Principles of Hematology and	1 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

MLS-305

Hemostasis Lab

Principles of Clinical Chemistry

3 credits

MLS-305L	Principles of Clinical Chemistry Lab	1 credits
MLS-307	Principles and Techniques of Immunology and Molecular Diagnostics	3 credits
MLS-311	Principles of Clinical Microbiology	3 credits
MLS-311L	Principles of Microbiology Lab	1 credits
MLS-313	Principles of Immunohematology	3 credits
MLS-313L	Principles of Immunohematology Lab	1 credits
<u>MLS-315</u>	Principles of Instrumentation in Integrated Laboratory Practice	4 credits
MLS-317C	Clinical Experience for Hematology	1 credits
MLS-319C	Clinical Experience for Chemistry	1 credits
MLS-321C	Clinical Experience for Microbiology	1 credits
MLS-323C	Clinical Experience for Immunohematology	1 credits
MLS-402	Advanced Laboratory Concepts	4 credits
MLS-404	Advanced Hematology and Hemostasis	4 credits
MLS-406	Advanced Clinical Chemistry	4 credits
MLS-408	Laboratory Teaching and Supervision	2 credits
MLS-410	Project/Research I	1 credits
MLS-412	Advanced Clinical Microbiology	4 credits
MLS-414	Advanced Immunohematology	4 credits
MLS-416	Clinical Correlation Capstone	2 credits
MLS-418	Project/Research II	1 credits

Medical Laboratory Science Major

**Total General Education Credits** 

# 80 credits

12 credits

# **Bachelor of Science in Medical Lab Sciences** (MLT to MLS)

The Bachelor of Science in Medical Lab Sciences (MLT to MLS) provides eligible students who have successfully completed a Medical Lab Technologist (MLT) program or certification the opportunity to complete their Bachelor's degree in Medical Lab Sciences.

## **Degree Requirements**

Total MLT	to MLS Major	40 credits
Total Other Certification	r Transfer, Elective, or on Credits	68 credits
Total Bachelor of Science in Medical Lab Sciences (MLT to MLS)		120 credits
Medical Lal	Sciences (MLT to MLS) Major	
	Madical Terminology	2 anadita

Medical Lab Sciences (MLT to MLS) Majo
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BIO-335	Medical Terminology	2 credits
BIO-358	Immunology	4 credits
CHM-350	Fundamental Biochemistry	3 credits
CHM-350L	Fundamental Biochemistry Lab	1 credits
MAT-274	Probability and Statistics	4 credits
MLS-402	Advanced Laboratory Concepts	4 credits
<u>MLS-404</u>	Advanced Hematology and Hemostasis	4 credits
<u>MLS-406</u>	Advanced Clinical Chemistry	4 credits

MLS-408	Laboratory Teaching and Supervision	2 credits
MLS-410	Project/Research I	1 credits
MLS-412	Advanced Clinical Microbiology	4 credits
MLS-414	Advanced Immunohematology	4 credits
MLS-416	Clinical Correlation Capstone	2 credits
MLS-418	Project/Research II	1 credits

Medical Lab Sciences (MLT to MLS) Major

40 credits

# **Bachelor of Science in Molecular and Cellular Biology**

The Bachelor of Science in Molecular and Cellular Biology offers a unique experience in scientific training within a broad spectrum of that builds a strong foundation in microbiology, cellular biology, genetics, chemistry, biochemistry, physics, and math. Students will also learn laboratory design and effectiveness, data analysis and interpretation, and basic computer programming skills. It is suitable for students planning to enter medical school, graduate school, or a career in a highgrowth biotechnology or biological area as a lab technician or research assistant. Many graduates enter employment as researchers, educators, doctors, health professionals, scientific writers, lab managers, and more.

# **Degree Requirements**

Total General Education	34-40 credits
Total Forensic Science Major	76 credits
Total Electives	4-10 credits
Total Bachelor of Science in Molecular and Cellular Biology	120 credits

Molecular and Cellular Biology Major			
CHM-113	General Chemistry I – Lecture	3 credits	
<u>CHM-113L</u>	General Chemistry I – Lab	1 credit	
BIO-181	General Biology I	3 credits	
BIO-181L	General Biology I Lab	1 credit	
CHM-115	General Chemistry II – Lecture	3 credits	
CHM-115L	General Chemistry II – Lab	1 credit	
MAT-274	Probability and Statistics	4 credits	
PHY-111	General Physics I – Lecture	3 credits	
PHY-111L	General Physics I – Lab	1 credit	
CHM-231	Organic Chemistry I	3 credits	
CHM-231L	Organic Chemistry I Lab	1 credit	
BIO-215	General Microbiology	3 credits	
BIO-215L	General Microbiology Lab	1 credit	
PHY-112	General Physics II – Lecture	3 credits	
PHY-112L	General Physics II – Lab	1 credit	
CHM-232	Organic Chemistry II	3 credits	
CHM-232L	Organic Chemistry II Lab	1 credit	
BIO-333 <sup>‡</sup>	Molecular and Cellular Biology	4 credits	
CHM-315	Analytical Chemistry	3 credits	
<u>CHM-315L</u>	Analytical Chemistry Lab	1 credit	

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

CHM-360 <sup>‡</sup>	Principles of Biochemistry	3 credits
CHM-360L*	Principles of Biochemistry - Lab	1 credit
SCI-318	Research Methods & Design	2 credits
SCI-300L	Laboratory Safety and Supervision	1 credit
LDR-461	Professional Applications in Service Learning I	1 credit
CHM-365	Instrumental Analysis	3 credits
CHM-365L	Instrumental Analysis Lab	1 credit
BIO-457 <sup>‡</sup>	Genetics	4 credit
CHM-470	Biochemical Applications & Lab	3 credits
CST-105	Computer Programming I	4 credits
BIO-475	Advanced Genetics	3 credits
BIO-475L	Advanced Genetics Lab	1 credit
<u>BIO-487</u> <sup>Ω</sup>	Capstone Thesis in Biology	4 credit
Molecular an	d Cellular Biology Major	76 credits

### **Bachelor of Science in Nutritional Sciences**

Grand Canvon University's Bachelor of Science in Nutritional Sciences prepares students for graduate studies and/or careers in a wide range of fields that utilize nutritional principles and provide the foundation to develop as nutrition, healthcare, fitness, and education professionals. Possible career paths include: nutritionists, nutrition technicians, dietitians, nutritional and health education/outreach professionals, medical and other health professionals, and fitness professionals. Because this is a greatly expanding area, students will find career opportunities in education, commercial, and corporate industries, as well as in government and non-profit sectors. Students completing the Bachelor of Science in Nutritional Sciences will understand and demonstrate competency in a broad body of knowledge that includes the domains of food science, biochemistry, physiology, dietetics, and nutrition studies. Students will also learn about professional and ethical practices associated with nutrition, all presented through the lens of a Christian worldview.

# **Degree Requirements**

Total General Education	34-40 credits
Total Nutritional Sciences Major	64 credits
Total Electives	4-10 credits
Total Bachelor of Science in Nutritional Sciences	120 credits

#### **Required General Education**

PSY-102

(Included in General Education total credits, applied to the Global Awareness competency.)

General Psychology

Nutritional Sciences Major			
NSC-150	Nutrition and Wellness	4 credits	
BIO-191	Applied Anatomy and Physiology I	3 credits	
BIO-191L	Applied Anatomy and Physiology I Lab	1 credit	
CHM-110	General and Organic Chemistry	3 credits	
<u>CHM-110L</u>	General and Organic Chemistry Lab	1 credit	

<u>BIO-192</u>	Applied Anatomy and Physiology II	3 credits
BIO-192L	Applied Anatomy and Physiology II Lab	1 credit
CHM-111	General and Organic Chemistry II	3 credits
<u>CHM-111L</u>	General and Organic Chemistry II Lab	1 credit
BIO-195	Fundamental Microbiology	3 credits
BIO-195L	Fundamental Microbiology Lab	1 credit
MAT-274	Probability and Statistics	4 credits
BIO-319	Applied Nutrition	4 credits
CHM-350	Fundamental Biochemistry	3 credits
CHM-350L	Fundamental Biochemistry Lab	1 credit
NSC-305 <sup>‡</sup>	Nutrition Across the Lifespan	4 credits
PSY-357	Lifespan Development	4 credits
NSC-350	Food Sciences	3 credits
NSC-350L	Food Sciences Lab	1 credit
PSY-352	Health Psychology	4 credits
NSC-490 <sup>∆</sup>	Nutrition Research	4 credits
NSC-419	Advanced Nutrition	4 credits
<u>NSC-495</u> ΩΔ‡	Capstone in Nutrition	4 credits
Nutritional S	ciences Major	64 credits

# Bachelor of Science in Nutritional Sciences *Effective January 2026*

Grand Canyon University's Bachelor of Science in Nutritional Sciences prepares students for graduate studies and/or careers in a wide range of fields that utilize nutritional principles and provide the foundation to develop as nutrition, healthcare, fitness, and education professionals. Possible career paths include: nutritionists, nutrition technicians, dietitians, nutritional and health education/outreach professionals, medical and other health professionals, and fitness professionals. Because this is a greatly expanding area, students will find career opportunities in education, commercial, and corporate industries, as well as in government and non-profit sectors. Students completing the Bachelor of Science in Nutritional Sciences will understand and demonstrate competency in a broad body of knowledge that includes the domains of food science, biochemistry, physiology, dietetics, and nutrition studies. Students will also learn about professional and ethical practices associated with nutrition, all presented through the lens of a Christian worldview.

# **Degree Requirements**

Total General Education	34-40 credits		
Total Nutritional Sciences Major	78 credits		
Total Electives	2-8 credits		
Total Bachelor of Science in Nutritional Sciences	120 credits		
Required General Education			

(Included in General Education total credits, applied to the Effective Communication competency.)

ENG-107 Introduction to Writing for the 4 credits Sciences

4 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

(Included in General Education total credits, applied to the Critical Thinking competency.)

	nking competency.)		Applicants to	the program are responsible for con	tacting their
MAT-274 Probability and Statistics 4 credits		4 credits	desired state's department of education for licensure requirements		
Nutritional Sciences Major  and program approval. Arizona fingerprint/background cleara is required for all practicum/field experiences and student					
NSC-101	Introduction to Dietetics	2 credits	teaching. Furthermore, applicants should consult the University		
NSC-150	Nutrition and Wellness	4 credits	Policy Handbook and a Student Service Advisor (SSA) to obtain		(SSA) to obtain
BIO-201	Human Anatomy and Physiology I	3 credits		regarding current policies and proced ensure program.	ures inherent in
BIO-201L	Human Anatomy and Physiology I: Lab	1 credit	Degree Req		
CHM-110	General and Organic Chemistry	3 credits		ral Education	34-40 credits
CHM-110L	General and Organic Chemistry	1 credit	Total Physi	ical Education Major	72 credits
BIO-202	Lab Human Anatomy and Physiology II	3 credits	Total Elect	ives elor of Science in Physical	8-14 credits 120 credits
BIO-202L	Human Anatomy and Physiology	1 credit	Education	oror or soronoo in ringorous	
CIDA 111	II-Lab General and Organic Chemistry II	3 credits	Required G	eneral Education	
<u>CHM-111</u>	С 1 10 : С : П	1 credit		n General Education total credits, app	olied to the
<u>CHM-111L</u>	Lab	reredit		reness competency.)	4 10
BIO-205	Microbiology	3 credits	<u>HIS-144</u>	U.S. History Themes	4 credits
BIO-205L	Microbiology-Lab	1 credit	(Included in General Education total credits, applied to the		
MAT-274	Probability and Statistics	4 credits		inking competency.)	4 11.
BIO-319	Applied Nutrition	4 credits	<u>MAT-154</u>	Applications of College Algebra	4 credits
CHM-350	Fundamental Biochemistry	3 credits	Physical Ed	lucation Major	
CHM-350L	Fundamental Biochemistry Lab	1 credit	PED-247	Teaching Strategy in Physical Education and Exercise Science	4 credits
NSC-305 <sup>‡</sup>	Nutrition Across the Lifespan	4 credits	BIO-155	Introduction to Anatomy and	3 credits
NSC-315	Food and Nutrition Management	4 credits	<u>DIO 133</u>	Physiology	
NSC-350	Food Sciences	3 credits	<u>BIO-155L</u>	Introduction to Anatomy and Physiology Lab	1 credit
NSC-350L	Food Sciences Lab	1 credit	PED-263	Teaching of Team Sports and	4 credits
NSC-325	Nutrition Counseling and	4 credits		Individual Activities II	
	Communication	4 114	<u>PED-251</u>	Teaching of Team Sports and Individual Activities I	4 credits
NSC-475	Medical Nutrition Therapy I	4 credits	SPD-208	Survey of Special Education:	4 credits
<u>NSC-490</u> <sup>∆</sup>	Nutrition Research	4 credits		Teaching Children with	
NSC-420	Advanced Nutritoin I	4 credits	PED-275	Exceptionalities Teaching Fitness and Wellness	4 credits
NSC-345	Community Nutrition	4 credits	EXS-340	Physiology of Exercise	3 credits
<u>NSC-495</u> ΩΔ		4 credits	EXS-340L	Physiology of Exercise-Lab	1 credit
NSC-425	Advanced Nutrition II	4 credits	EDU-330	Social Justice for Educators	4 credits
NSC-480	Medical Nutrition Therapy II	3 credits		Methods of Structured English	3 credits
NSC-480L	Medical Nutrition Therapy II Lab	1 credit	<u>ESL-446N</u>	Immersion for K-12 Education	3 cicuits
Nutritional Sciences Major 78 credits		PED-420	Physical Education Teacher	4 credits	
Bachelor	of Science in Physical Education	on		Education Methods: Elementary Grades	
	n is offered by the College of College of		GOV-260	Arizona Constitution &	1 credit
Sciences in conjunction with the College of Education for			DED 420	Government Physical Education Teacher	4 credits
students who are preparing for a teaching career in grades K-12, and who are seeking initial teacher licensure. The format and			<u>PED-430</u>	Education Methods: Middle	4 Cieuits
	courses of this regionally accredited and Arizona approved			Grades	2 "

and who are seeking initial teacher licensure. The format and courses of this regionally accredited and Arizona approved program are designed to maximize the content knowledge that the teacher candidate will possess upon graduation. All courses are directly aligned with Interstate Teacher Assessment and Support Consortium (InTASC) principles. Content courses are aligned to the national standards for Physical Education Teacher (PETE) as established by SHAPE America, the national

<sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

Kinesiology

Kinesiology Lab

with Disabilities

Physical Education for Students

EXS-335\*

PED-370

EXS-335L<sup>#</sup>

3 credits

1 credit

4 credits

organization for Physical Education. Opportunities are provided

to apply concepts, theories, and research throughout the program.

PED-440	Physical Education Teacher	4 credits
	Education Methods: Secondary	
	Grades	
PED-450 <sup>‡</sup>	Methods of Teaching and	4 credits
	Assessing Health	
PED-480A $^{\Omega}$	Physical Education Student	6 credits
	Teaching I	
PED-480B <sup>Ω</sup>	Physical Education Student	6 credits
	Teaching II	
DI ' 1 D 1	······································	72 credits

Physical Education Major 72 credits

# **Bridge to Master of Science in Athletic Training**

The Bridge to the Master of Science in Athletic Training is designed to provide the necessary undergraduate coursework to meet the program prerequisite requirements for the Master of Science in Athletic Training.

# **Degree Requirements**

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credits
BIO-201	Human Anatomy and Physiology I	3 credits
BIO-201L	Human Anatomy and Physiology I: Lab	1 credits
<u>BIO-202</u>	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II-Lab	1 credits
<u>CHM-113</u>	General Chemistry I-Lecture	3 credits
CHM-113L	General Chemistry I - Lab	1 credits
EXS-335	Kinesiology	3 credits
EXS-335L	Kinesiology Lab	1 credits
EXS-340	Physiology of Exercise	3 credits
EXS-340L	Physiology of Exercise-Lab	1 credits
MAT-154	Applications of College Algebra	4 credits
NSC-150	Nutrition and Wellness	4 credits
PHY-111	General Physics I-Lecture	3 credits
PHY-111L	General Physics I - Lab	1 credits
<u>PSY-102</u>	General Psychology	4 credits
Bridge to Ma	ster of Science in Athletic Training	40 credits

Bridge to Master of Science in Biology with an

# **Emphasis in Education**

The Bridge to the Master of Science in Biology with an Emphasis in Education is designed to provide the necessary undergraduate coursework to meet the program prerequisite requirements for the Master of Science in Biology with an Emphasis in Education.

# **Degree Requirements**

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credits
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II - Lab	1 credit
Bridge to Master of Science in Biology with an		8 credits
Emphasis in Education		

# Master of Science in Biology with an Emphasis in Education

The Master of Science in Biology with an Emphasis in Education prepares students for teaching undergraduate courses at a 2-year or 4-year institution in both ground and online modalities. Balancing biology content with pedagogy and classroom techniques, this unique program offers a pathway to obtaining advanced training in the field of biology while satisfying the requirements for ongoing professional development. Graduates of this program will be able to fulfill the graduate course requirements necessary for opportunities in teaching at the postsecondary level. Admission to the program requires a minimum of 24 UG credits in Biology content coursework (pedagogical or instructional design content will not count).

### **Degree Requirements**

<u>UNV-507 Ω</u>	Introduction to Graduate Studies in	2 credits
BIO-505	CSET A Comprehensive Overview of	4 credits
	Phylogenetics and Ecology	
BIO-510	A Comprehensive Overview of	4 credits
EDU-534	Cell and Molecular Biology Effective Pedagogy for Higher Education	4 credits
BIO-515	Concepts of Human Physiology I	4 credits
BIO-520	Concepts of Human Physiology II	4 credits
EDU-548	Curricular and Instructional Methods in Higher Education	4 credits
BIO-525	Concepts of Medical Microbiology	4 credits
<u>CHM-550</u>	Concepts of Biochemistry	4 credits
Master of Sc	ience in Biology with an Emphasis	34 credits

in Education

# Master of Science in Chemistry with an Emphasis in Education

The Master of Science in Chemistry with an Emphasis in Education prepares students for teaching undergraduate courses at a 2-year or 4-year institution in both ground and online modalities. Balancing chemistry content with pedagogy and classroom techniques, this unique program offers a pathway to obtaining advanced training in the field of chemistry while satisfying the requirements for ongoing professional development. Graduates of this program will be able to fulfill the graduate course requirements necessary for opportunities in teaching at the postsecondary level. Admission to the program requires a minimum of 24 UG credits in Chemistry content coursework (pedagogical or instructional design content will not count) including a least one full year of organic chemistry and a semester of biochemistry.

### **Degree Requirements**

UNV-507 $^{\Omega}$	Introduction to Graduate Studies in	2 credits
	CSET	
CHM-505	Concepts of Medicinal Chemistry	4 credits
CHM-510	Concepts of Physical Chemistry	4 credits
EDU-534	Effective Pedagogy for Higher	4 credits
	Education	
CHM-515	Concepts of Inorganic Chemistry	4 credits
CHM-520	Concepts of Analytical Chemistry	4 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\Phi}$  Fulfills General Education requirement |  $^{\dagger}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

EDU-548	Curricular and Instructional Methods in Higher Education	4 credits
CHM-525	Current Topics in Chemistry	4 credits
<u>CHM-530</u>	Concepts of Biochemistry	4 credits
Master of Science in Chemistry with an		34 credits

**Emphasis** in Education

# Master of Science in Exercise Physiology

The Master of Science in Exercise Physiology is designed for students seeking to advance their understanding of human exercise physiology and apply that knowledge in healthcare. The program includes specialized coursework focused on advanced human physiology and the science of wellness, including exercise and diet physiology, preparing students for careers in the wellness industry, advanced certifications, and further graduate study. They will also develop interpersonal communication skills and investigate the psychological, spiritual, and physical components of health, wellness, and therapeutic intervention.

### **Degree Requirements**

<u>UNV-507</u>	Introduction to Graduate Studies in Science, Engineering and Technology	2 credits
EXS-520	Exercise Research Methods	4 credits
EXS-530	Clinical Exercise Physiology	4 credits
EXS-540	Cardiovascular and Pulmonary Physiology	4 credits
EXS-610	Advanced Exercise Testing and Health Risk Appraisal	4 credits
EXS-620	Advanced Exercise Prescription Cardiopulmonary Rehabilitation	4 credits
EXS-690	Clinician Exercise Physiology Experience I	4 credits
EXS-660	Theory of Behavior Change and Health Promotion	4 credits
EXS-695	Clinician Exercise Physiology Experience II	4 credits

Master of Science in Exercise Physiology

34 credits

# **Master of Science in Forensic Science**

Grand Canvon University's Master of Science in Forensic Science program is designed for professionals who are looking to advance their career in forensic sciences, as well as those who would like to enter the field. Students will develop a skill set required for forensic laboratories, including data collection and analysis, critical thinking skills, integrity, ethical principles, and courtroom testimony. The incorporation of a unique curriculum with hands-on, in-home laboratory activities readily prepares students to utilize logic and critical thinking in the analysis of various forms of forensic evidence. Admission to the program requires: a Bachelor's degree in Forensic Science, or any natural or applied science Bachelor's degree from an accredited institution; two (2) semesters of general chemistry with laboratory; two (2) semesters of organic chemistry with laboratory; and one (1) semester of biochemistry.

## **Degree Requirements**

UNV-507 Ω	Introduction to Graduate Studies in	2 credits
	CSET	
FOR-505	Ethical Principles in Forensic	4 credits
	Science and the Role of QA and	
	OC	

<u>FOR-620</u>	Advanced Topics in Forensic Science	2 credits
FOR-600	Courtroom Presentation of Scientific Evidence	4 credits
FOR-575	Comparative Methods	4 credits
	Chemistry and Forensic Toxicology	
FOR-560	General Principles of Drug	4 credits
FOR-540	Advanced Body Fluid and DNA Analysis	4 credits
	Analysis Methods in Forensic Science	
<u>FOR-530</u>	Microscopy and Instrumental	4 credits
<u>FOR-525</u>	Applied Statistics for Forensic Science	4 credits
FOR-515	Crime Scene Processing and Medicolegal Death Investigation	4 credits

Master of Science in Forensic Sciencee

36 credits

#### Master of Science in Nutrition and Dietetics

Grand Canyon University's Master of Science in Nutrition and Dietetics is an online program that prepares students to take the Commission on Dietetic Registration (CDR) credentialing examination to become a Registered Dietitian Nutritionist. The accreditation standards of the Accreditation Council for Education in Nutrition Dietetics in the Future Education Model integrate didactic coursework with supervised experiential learning in a competency-based curriculum, designed to prepare nutrition and dietetics practitioners for future practice. Graduates will be prepared to pursue careers in a wide range of fields that utilize nutrition principles and provide the foundation to develop as nutrition professionals. Possible career paths include clinical nutrition, sports nutrition, health and wellness, public health, education, eating disorders, food and nutrition management, entrepreneurship, research, food science, and other areas of dietetics. Students completing the Master of Science in Nutrition and Dietetics will understand and demonstrate competency in a broad body of knowledge that includes the domains of food science, biochemistry, physiology, dietetics, and nutrition studies. Students will also learn about professional and ethical practices associated with nutrition, all presented through the lens of a Christian worldview. Licensing and/or certification requirements may vary from state to state. It is the students' responsibility to check the licensing/certification requirements in their respective

# **Degree Requirements**

NSC-507	Introduction to Graduate Studies in	2 credits
	Dietetics	
NSC-510	Behavioral Science and	4 credits
	Counseling	
NSC-550	Advanced Medical Nutrition	4 credits
	Therapy	
NSC-595	Applied Medical Nutrition	4 credits
	Therapy	
NSC-600	Food and Nutrition Management	4 credits
	Community Nutrition and	4 credits
NSC-650	Advocacy	4 Cicuits
NICC CTE	Leadership in Nutrition and	4 credits
NSC-675	Dietetics	4 Credits
NIGO COS	Capstone in Nutrition and Dietetics	4 credits
NSC-695	Capsione in Nutrition and Dietetics	4 Cleuits
Master of S	cience in Nutrition and Dietetics	30 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Master of Science in Sustainability

The Master of Science in Sustainability is designed for students interested in advocating for and creating a sustainable world. Graduates will acquire advanced knowledge in environmental science, economics, and engineered systems. This degree will prepare students for a career as a sustainability agent for organizations and companies, educator, or advocate. This program would be ideal for current professionals looking to add Sustainability credentials to their existing career knowledge and experience.

## **Degree Requirements**

<u>UNV-507</u>	Introduction to Graduate Studies in	2 credits
	Science, Engineering and Technology	
SUS-501	Sustainability Science and Systems	4 credits
SUS-502	Foundations of Sustainability	4 credits
SUS-510	Climate Change and Resilience	4 credits
<u>SUS-520</u>	Sustainable Development and	4 credits
<u>SUS-530</u>	Policy Environmental Ethics and Social Justice	4 credits
<u>SUS-540</u>	Sustainable Business Practices and Economics	4 credits
<u>SUS-550</u>	Global Perspectives in Sustainability Leadership	4 credits
<u>SUS-560</u>	Renewable Energy and Sustainable Technology	4 credits
<u>SUS-590</u> <sup>Ω</sup>	Capstone Project in Sustainability	4 credits

Master of Science in Sustainability

# Minors

# **Minor in Athletic Coaching**

The Minor in Athletic Coaching is intended to assist the future teacher, fitness professional, or other professional who wishes to coach interscholastic, intercollegiate, or other sports teams in all aspects of preparation for competition.

# **Minor Requirements**

BIO-155	Introduction to Anatomy and Physiology	3 credits
BIO-155L	Introduction to Anatomy and Physiology Lab	1 credit
<u>ATP-214</u>	Care, Treatment, and Prevention of Athletic Injuries	3 credits
<u>ATP-214L</u>	Care, Treatment, and Prevention of Athletic Injuries Lab	1 credit
PED-337	Theory, Philosophy, and Principles of Coaching	4 credits
Choose any .	3 of the following 5 courses:	
PED-325	Coaching Baseball: Theory and Practice	4 credits
PED-326	Coaching Basketball: Theory and Practice	4 credits
PED-327	Coaching Volleyball: Theory and Practice	4 credits
PED-328	Coaching Softball: Theory and Practice	4 credits
PED-329	Coaching Soccer: Theory and Practice	4 credits

Minor in Athletic Coaching	24 credits
Minor in Athletic Coaching	24 (

# **Minor in Biological Sciences**

# **Minor Pre-requisites**

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II – Lab	1 credit

### **Minor Requirements**

BIO-320	Fundamentals of Ecology	3 credits
BIO-320L	Fundamentals of Ecology-Lab	1 credit
BIO-342	Analysis of Biological Diversification	4 credits
BIO-415	Vertebrate Zoology	3 credits
BIO-415L	Vertebrate Zoology Lab	1 credit
BIO-328	Animal Behavior	3 credits
BIO-328L	Animal Behavior Lab	1 credit

Minor in Biological Sciences

24 credits

40 credits

# Minor in Chemistry for Chemical and Structural **Analysis**

The minor in Chemistry-Chemical and Structural Analysis will give students majoring in non-chemistry disciplines a solid foundation in chemical science. This minor is particularly suitable for students that are studying laboratory sciences such as Forensic Science or Environmental Science.

### **Minor Pre-requisites**

MAT-154	Applications of College Algebra	4 credits
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
CHM-113L	General Chemistry I – Lab	1 credit
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
CHM-231	Organic Chemistry I	3 credits
<u>CHM-231L</u>	Organic Chemistry I Lab	1 credit
Minor Requir	ements	
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
CHM-315	Analytical Chemistry	3 credits
CHM-315L	Analytical Chemistry Lab	1 credit
<u>CHM-333</u>	Structural Determination in Organic Chemistry	4 credits
CHM-360	Principles of Biochemistry	3 credits
<u>CHM-360L</u>	Principles of Biochemistry – Lab	1 credit
<u>CHM-460</u>	Advanced Biochemistry	3 credits
<u>CHM-460L</u>	Advanced Biochemistry Lab	1 credit

Minor in Chemistry for Chemical and Structural

38 credits

Analysis

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# **Minor in Chemistry for Life Sciences**

The minor in chemistry for life sciences will give students majoring in non-chemistry disciplines a solid foundation in chemical science. This minor is particularly suitable for students in life sciences but will interest anyone seeking to learn more about the relationship of chemistry with life processes.

## **Minor Pre-requisites**

MAT-154	Applications of College Algebra	4 credits
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
CHM-113L	General Chemistry I – Lab	1 credit
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit

#### **Minor Requirements**

BIO-205	Microbiology	3 credits
BIO-205L	Microbiology – Lab	1 credit
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
CHM-315	Analytical Chemistry	3 credits
CHM-315L	Analytical Chemistry Lab	1 credit
CHM-360	Principles of Biochemistry	3 credits
<u>CHM-360L</u>	Principles of Biochemistry – Lab	1 credit
CHM-365	Instrumental Analysis	3 credits
CHM-365L	Instrumental Analysis Lab	1 credit
CHM-451	Pharmacology I	4 credits
CHM-452	Phamacology II	4 credits
CHM-460	Advanced Biochemistry	3 credits
<u>CHM-460L</u>	Advanced Biochemistry Lab	1 credit

# Minor in Chemistry for Physical Science and Engineering

Minor in Chemistry for Life Sciences

The minor in chemistry for physical science and engineering will give students in non-chemistry disciplines a solid foundation in chemical science. This minor is particularly suitable for students in physical science and engineering disciplines but will suit anyone seeking a strong physical chemistry experience.

# **Minor Pre-requisites**

	4	
MAT-154	Applications of College Algebra	4 credits
MAT-261	Pre-Calculus	4 credits
PHY-121	University Physics I	3 credits
PHY-121L	University Physics I Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
<u>CHM-113L</u>	General Chemistry I – Lab	1 credit

#### **Minor Requirements**

MAT-262	Calculus for Science and	4 credits
	Engineering I	
CHM-115	General Chemistry II – Lecture	3 credits
CHM-115L	General Chemistry II – Lab	1 credit
CHM-235	Survey of Organic Chemistry	3 credits
CHM-235L	Survey of Organic Chemistry	1 credit
	Lab	
CHM-365	Instrumental Analysis	3 credits
CHM-365L	Instrumental Analysis Lab	1 credit
CHM-441	Physical Chemistry I	3 credits
CHM-441L	Physical Chemistry I Lab	1 credit
CHM-444	Physical Chemistry II	3 credits
CHM-444L	Physical Chemsitry II Lab	1 credit
) (' ' CI	'	40 credits

Minor in Chemistry for Physical Science and 40 credits Engineering

# **Minor in Dietetic Preparation**

The minor in Dietetics Preparation enables students to gain the background in Biology, Chemistry, and Statistics necessary for advanced study in Nutrition and Dietetics. This minor is ideal for non-science majors who wish to apply for competitive entry into Masters-level Dietetics programs.

Applications of College Algebra

4 credits

#### **Minor Pre-requisites**

MAT-154

Minor Requirements		
CHM-110	General & Organic Chemistry I	credit 3
<u>CHM-110L</u>	General & Organic Chemistry I Lab	credit 1
<u>CHM-111</u>	General & Organic Chemistry II	credit 3
<u>CHM-111L</u>	General & Organic Chemistry II Lab	credit 1
CHM-350	Fundamental Biochemistry	credit 3
CHM-350L	Fundamental Biochemistry Lab	credit 1
BIO-201	Human Anatomy and Physiology I	credit 3
BIO-201L	Human Anatomy and Physiology I Lab	credit 1
BIO-202	Human Anatomy and Physiology II	credit 3
BIO-202L	Human Anatomy and Physiology II Lab	credit 1
BIO-205	Microbiology	credit 3
BIO-205L	Microbiology Lab	credit 1
BIO-319	Applied Nutrition	credit 4
MAT-274	Probability and Statistics	credit 4
Minor in Diete	tic Preparation	32 credits

# Minor in Dietetic Preparation Minor in Exercise Science

The minor in Exercise Science will provide the student with knowledge about general wellness, the fundamentals of exercise, basic anatomy, and coaching for sport performance.

52 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Minor Requirements**

NSC-150	Nutrition and Wellness	1 credit
BIO-155	Introduction to Anatomy and	3 credits
	Physiology	
BIO-155L	Introduction to Anatomy and	1 credit
	Physiology Lab	
EXS-210	Sports Performance Science and	3 credits
·	Coaching	
EXS-210L	Sports Performance Science and	1 credit
·	Coaching Lab	
EXS-250	Sports Performance Science and	3 credits
	Coaching	
EXS-250L	Sports Performance Science and	1 credit
	Coaching Lab	

Minor in Exercise Science 16 credits

# **Minor in Food and Nutrition Management**

A minor in Food and Nutrition Management enables students to gain an understanding of food, nutrition, and hospitality management. This minor is ideal for students seeking a better understanding of how food safety and science integrates effectively in the hospitality industry.

# **Minor Requirements**

NSC-150	Nutrition and Wellness	4 credits
HOS-200	Introduction to Hospitality	4 credits
BIO-319	Applied Nutrition	4 credits
NSC-350	Food Sciences	3 credits
NSC-350L	Food Sciences Lab	1 credit
HOS-455	Events and Tourism	4 credits
	Management	
HOS-460	Food and Beverage Service	4 credits
	Management and Operations	

Minor in Food and Nutrition Management 24 credits

### **Minor in Forensic Science**

The minor in forensic science provides a basic understanding of how crime laboratories use science to solve crimes against persons. Students will develop an understanding of the types of evidence that are collected, how analyses are performed, and ways to present this information in a court of law. The minor in forensic science is ideal for students who are interested in pursuing careers in forensic pathology and investigations.

### **Minor Requirements**

FOR-150	Critical Analysis in Forensic	4 credits
	Science	
BIO-181	General Biology I	3 credits
BIO-181L	General Biology I - Lab	1 credit
CHM-113	General Chemistry I – Lecture	3 credits
<u>CHM-113L</u>	General Chemistry I – Lab	1 credit
SCI-220	Forensic Photography &	4 credits
	Reconstruction	
SCI-255	Crime Scene Processing	3 credits
SCI-255L	Crime Scene Processing Lab	1 credit
SCI-330	Physical Evidence Analysis	3 credits
SCI-330L	Physical Evidence Analysis Lab	1 credit

Minor in Forensic Science 24 credits

### **Minor in Nutrition**

A minor in Nutrition enables students to gain a basic understanding of human nutritional needs & how nutrition contributes to healthy lifestyles & disease prevention. It is ideal for any student seeking a greater understanding of the relationship among food, nutrition, & health & fits easily with any major program of study.

#### **Minor Requirements**

NSC-150	Nutrition & Wellness	4 credits
BIO-319	Applied Nutrition	4 credits
NSC-305	Nutrition Across the Lifespan	4 credits
NSC-419	Advanced Nutrition	4 credits

Minor in Nutrition 16 credits

# **Minor in Pre-Athletic Training**

The Minor in Pre-Athletic Training is intended to assist the future coach, fitness professional, or other professional who wishes to provide care to interscholastic, intercollegiate, or other sports teams.

# **Minor Requirements**

PSY-102	General Psychology	4 credits
<u>ATP-214</u>	Care, Treatment, and Prevention of Athletic Injuries	3 credits
<u>ATP-214L</u>	Care, Treatment, and Prevention of Athletic Injuries Lab	1 credit
BIO-253	Emergency Care for Acute Injuries	4 credits
BIO-319	Applied Nutrition	4 credits
PSY-357	Lifespan Development	4 credits
<u>PSY-366</u>	Introduction to Sport and Exercise Psychology	4 credits
Choose 2 of	the following courses	
BIO-201	Human Anatomy and Physiology I	3 credits
<u>BIO-201L</u>	Human Anatomy and Physiology I: Lab	1 credit
<u>BIO-210</u>	Anatomy and Physiology for Science Majors I	3 credits
<u>BIO-210L</u>	Anatomy and Physiology for Science Majors I Lab	1 credit
Choose 2 of	the following courses	
BIO-202	Human Anatomy and Physiology II	3 credits
BIO-202L	Human Anatomy and Physiology II: Lab	1 credit
BIO-211	Anatomy and Physiology for Science Majors II	3 credits
BIO-211L	Anatomy and Physiology for Science Majors II Lab	1 credit
Minor in Pre	-Athletic Training	32 credits

#### **Minor in Pre-Medicine**

The Minor in Pre-Medicine includes the standard science coursework required for admission into most graduate medical programs. It also provides all the foundational concepts that

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

would be covered in any entrance exam (MCAT, PCAT, DAT, OAT, etc.).

Graduate medical programs will accept applications from students with any baccalaureate degree as long as they meet all the other prescribed admission requirements. While the coursework defined in this minor covers the standard science courses required by almost all graduate programs, schools may have additional requirements for admission. It is strongly recommended that students considering this minor do some investigation into the admission requirements of the specific graduate programs that they are considering.

### **Minor Requirements**

BIO-181	General Biology I	3 credits
BIO-181L	General Biology I Lab	1 credit
BIO-182	General Biology II	3 credits
BIO-182L	General Biology II Lab	1 credit
CHM-113	General Chemistry I	3 credits
CHM-113L	General Chemistry I Lab	1 credit
CHM-115	General Chemistry II	3 credits
CHM-115L	General Chemistry II Lab	1 credit
CHM-231	Organic Chemistry I	3 credits
CHM-231L	Organic Chemistry I Lab	1 credit
CHM-232	Organic Chemistry II	3 credits
CHM-232L	Organic Chemistry II Lab	1 credit
CHM-360	Principles of Biochemistry	3 credits
CHM-360L	Principles of Biochemistry Lab	1 credit
PHY-111	General Physics I	3 credits
PHY-111L	General Physics I Lab	1 credit
PHY-112	General Physics II	3 credits
<u>PHY-112L</u>	General Physics II Lab	1 credit

# **Minor in Sports Performance**

Minor in Pre-Medicine

The minor in Sports Performance will provide the student with advanced knowledge of sports performance, including the fundamentals of exercise, coaching for sport performance, anatomy, and exercise physiology. Successful completion can impart eligibility for the NSCA Certified Strength & Conditioning Specialist (CSCS) certification.

#### **Minor Requirements**

BIO-155	Introduction to Anatomy and Physiology	3 credits
BIO-155L	Introduction to Anatomy and Physiology Lab	1 credit
EXS-210	Sports Performance Science and	3 credits
EXS-210L	Coaching Sports Performance Science and	1 credit
EXS-250	Coaching Lab Sports Performance Science and	3 credits
EXS-250L	Coaching Sports Performance Science and	1 credit
EAS-230L	Coaching Lab	
EXS-340	Physiology of Exercise	3 credits
EXS-340L	Physiology of Exercise Lab	1 credit

	Advanced Principles of Sports	3 credits
EXS-455	Performance	
	Advanced Principles of Sports	1 credits
<b>EXS-455L</b>	Performance Lab	
Minor in Sports Performance		20 credits

# Minor in Weight Management and Health

The minor in Weight Management & Health will provide the student with knowledge about behavior change theory, nutritional support, and exercise prescription for weight management.

#### **Minor Requirements**

EXS-210	Sports Performance Science and Coaching	3 credits
EXS-210L	Sports Performance Science and Coaching Lab	1 credit
BIO-319	Applied Nutrition	4 credits
EXS-247	Health Risk Appraisal, Weight Control, and Management	4 credits
<u>PUB-200</u>	Health Promotion and Disease Prevention	4 credits

Minor in Weight Management and Health 16 credits

36 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# University Administration and Faculty

# Academic Administration

## **Brian Mueller**

President

B.A.Ed., M.A.Ed., Concordia University

#### Dr. Randy Gibb

Provost

B.S., US Air Force Academy; M.S.E., Arizona State University; M.A., Naval Command & Staff College; Ph.D., Arizona State University

#### Dr. Jennifer Lech

Vice Provost

B.A., Washington State University; M.B.A., University of Phoenix; Ph.D., Walden University

# College of Doctoral Studies

## Dr. Michael Berger

Dean, College of Doctoral Studies

B.A., M.A., University of Dayton; Ed.D., Grand Canyon University

# College of Education

#### Dr. Meredith Critchfield

Dean, College of Education; Professor B.S., Indiana University - Bloomington; M.Ed., University of Louisville; Ph.D., Arizona State University

#### **Lindy Gaudiano**

Assistant Dean, College of Education

B.A., Arizona State University; M.Ed., Grand Canyon University

# College of Arts and Media

## Dr. Craig Detweiler

Dean, College of Arts and Media

B.A. Davidson College; M.Div. Fuller Theological Seminary; M.F.A. University of Southern California; Ph.D. Fuller Theological Seminary

# William H. Symington V

Assistant Dean of Theatre and Dance

B.A., Grand View College; M.F.A., Arizona State University

#### Dr. Joe Veres

Vice President, Student Success

B.S. Ashland University; M.A., University of Phoenix; Ed.D. Grand Canyon University

#### **Shanna Milonas**

Associate Vice President of Academic Compliance; Title IX and

Section 504 Coordinator

B.A., Argosy University; MBA, Grand Canyon University

## **Dr. Emily Pottinger**

Associate Dean, College of Education; Assistant Professor B.A. Arizona State University; M.Ed., Ph.D., Grand Canyon University

### Dr. Juan de Dios Hernandez

Assistant Dean of Music

B.A., The Masters College; M.M., A.D., Yale University; D.M.A. University of Arizona

#### Dr. Paul Koch

Associate Dean, College of Arts and Media

B.A. University of North Texas; M.A. Arizona State University; D.M.A. Arizona State University

# College of Humanities and Social Sciences

### Dr. Sherman Elliott

Dean, College of Humanities and Social Sciences; Assistant

B.A., University of San Francisco; M.Ed., Arizona State University; M.A., University of San Francisco; Ed.D., Arizona

State University

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# College of Nursing and Health Care Professions

#### Dr. Lisa Smith

Dean, College of Nursing and Health Care Professions; Professor BSN, Salisbury University; MSN-Healthcare Education, University of Phoenix; Ph.D., Barry University

#### Dr. Trina Staton

Associate Dean, Prelicensure BSN Program B.S.N., Morningside College; MSN, University of Phoenix: DNP, Grand Canyon University

#### Heather Ziemianski

Associate Dean, Accelerated Bachelor of Science in Nursing (aBSN)

B.S.N., Grand Canyon University; M.S.N., Grand Canyon University; M.B.A., Grand Canyon University

### Dr. Maria Delph

Associate Dean of Professional Studies & Baccalaureate Programs B.S.N., University of Arizona; M.A., Midwestern University; M.S.N., M.B.A., Grand Canyon University; Ph.D., Grand Canyon University

### Dr. Tamara Wisely

Associate Dean, Graduate Studies B.S.N. Northern Arizona University; MSN Arizona State University; DNP, Grand Canyon University

# College of Engineering and Technology

#### **Paul Lambertson**

Dean, College of Engineering and Technology B.S., US Air Force Academy; M.A.S., Embry Riddle Aeronautical University; M.S., Air Force Institute of Technology

#### Dr. Michael De Gregorio

Assistant Dean, College of Engineering and Technology B.S., Lafayette College; M.S., Stevens Institute of Technology; PhD, Arizona State University

#### Dr. Pam Rowland

Associate Dean, College of Engineering and Technology D.Sc., Dakota State University

# College of Natural Sciences

#### Dr. K. Mark Wooden

Dean, College of Natural Sciences; Professor B.S., Ph.D., Arizona State University

# Dr. Bina Vanmali

Assistant Dean, College of Natural Sciences B.A., Westminster College; M.A., University of Missouri-Columbia; Ph.D., University of Missouri-Columbia

#### Dr. Jon Valla

Associate Dean, College of Natural Sciences; Associate Professor B.S., Minnesota State; Ph.D., University of Texas at Austin

# College of Theology

# Dr. Jason Hiles

Dean, College of Theology and Grand Canyon Theological Seminary

B.F.A., Milwaukee Institute of Arts and Design; M.Div., Southwestern Baptist Theological Seminary; Ph.D., Southeastern Baptist Theological Seminary

#### Dr. Paul Smith

Assistant Dean, Grand Canyon Theological Seminary B.A., Cedarville University; Th.M., Dallas Theological Seminary; Ph.D., University of St. Michael's College in the University of Toronto

# Dr. Peter Anderson

Assistant Dean, College of Theology B.A., Appalachian Bible College; Th.M., Southeastern Baptist Theological Seminary; Ph.D. Southeastern Baptist Theological Seminary

<sup>&</sup>lt;sup>Δ</sup>Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Colangelo College of Business

## John Kaites

Dean, Colangelo College of Business B.S., Allegheny College; JD, Duquesne University School of Law

#### Dr. Allison Mason

Senior Associate Dean, Colangelo College of Business B.A., Winona State University, M.Ed, Northern Arizona University, M.B.A., Grand Canyon University; DBA., Grand Canyon University

# Honors College

## Dr. Breanna Naegeli

Dean, Honors College & Study Abroad B.A. Bethany College; M.A. Argosy University; M.S. Grand Canyon University; Ph.D., Grand Canyon University

# Faculty

For a current list GCU faculty, please visit the Faculty Directory.

# Qualified Facutly

GCU complies with the Higher Learning Commission standards related to faculty qualifications. All Grand Canyon University faculty must meet specific academic and experiential qualifications defined by the University in order to be approved to teach GCU students. A current list of GCU's full-time faculty is available at <a href="https://www.gcu.edu/faculty-list">https://www.gcu.edu/faculty-list</a>.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Course Descriptions

# Accounting (ACC)

#### ACC-240**♦**: **Fundamentals of Accounting** 4 credits

In this course, students examine basic accounting concepts and explore how accounting information assists business leaders in making financial decisions that increase profitability and contribute to competitive advantage. There is specific emphasis on the analysis of financial statements in the business decisionmaking process, budgeting, and factors businesses must consider when determining appropriate pricing of goods and services. Prerequisite: MAT-134, MAT-144, MAT-154, or higher subsequent math course.

#### ACC-250**♦**: **Financial Accounting** 4 credits

This course is an introduction to the accounting cycle and the construction of financial statements. Students explore the fundamental principles and practices of financial accounting as outlined by Generally Accepted Accounting Principles (GAAP); the steps in the accounting cycle from journalizing transactions through the preparation of financial statements; and the use and interpretation of the balance sheet, income statement, and statement of cash flows. Prerequisite: MAT-134, MAT-144, MAT-154, or higher subsequent math course.

#### ACC-260**♦**: **Management Accounting** 4 credits

This course is an introduction to the use of managerial accounting data in the decision-making process. Topics include the use of cost-volume-profit (CVP) analysis and relevant costs in decision making, using budgets and the balanced scorecard to evaluate performance, methods for setting prices of products and services, and analyzing capital investment opportunities. Prerequisite: ACC-250.

#### **ACC-335: Accounting Information Systems** 4 credits

This course provides students with an introduction to current practices and techniques used to design, install, operate, and manage an integrated accounting system in either a manual or computerized setting. Application controls, information security requirements, and integration with other business information systems are examined. Prerequisite: ACC-250.

#### ACC-337: **Introduction to Accounting** 4 credits **Analytics**

This course is an introduction to data analytics techniques frequently used in accounting. Students explain basic concepts of financial data analytics and apply descriptive analyses, diagnostic analyses, predictive analytics, and prescriptive analytics to business scenarios. Prerequisite: ACC-335.

#### ACC-360<sup>♦</sup>: Cost <u>Accounting</u> 4 credits

This course provides a study of principles of internal accounting, including job order systems, process costing, activity-based costing, and budgeting. Prerequisite: ACC-260 or ACC-350.

#### ACC-361: 4 credits Intermediate Managerial Accounting

This course explores intermediate managerial accounting concepts. Students analyze cost behavior, value inventory using multiple costing methods, prepare budgets and evaluate variances, and use financial data and nonfinancial measures to analyze performance. Prerequisite: ACC-260.

#### ACC-370**♦**: **Intermediate Accounting I** 4 credits

This course is an in-depth study of accounting objectives, principles, theory, and practice as related to the balance sheet and income statement. Students explore the accounting cycle, the preparation of detailed financial statements in accordance with Generally Accepted Accounting Principles (GAAP), accounting for assets, and other items frequently addressed on the Uniform Certified Public Accounting Examination (Uniform CPA Exam). Prerequisites: ACC-250 and ACC-260.

#### ACC-371<sup>♦</sup>: Intermediate Accounting II 4 credits

This course is an in-depth study of accounting objectives, principles, theory, and practice as related to the balance sheet and income statement. Students explore liabilities and equity items; the specific rules for accounting for leases, accounting changes, and revenue recognition; and other items frequently addressed on the Uniform Certified Public Accounting Examination (Uniform CPA Exam). Prerequisite: ACC-370.

#### **Ethics in Accounting**

This course is an in-depth study of ethical issues encountered in public accounting. Students develop a foundation for ethical decision making and explore ethical guidelines specific to the accounting profession. This course is designed to meet the requirements for licensure of certified public accountants in California. Prerequisites: BUS-340, ACC-460, and ACC-491.

## **Taxation**

This course provides a study of the theory and practices of accounting for income taxes of individuals. Students explore the responsibilities of a tax accountant, specific transactions that affect the tax liability of individuals. Prerequisite: ACC-370 or FIN-350.

#### ACC-465: **Taxation II** 4 credits

This course provides a study of the theory and practices of accounting for income taxes of corporations, partnerships, and S corporations. Students explore tax treatment of transactions frequently encountered by various entities and prepare illustrative tax returns and related schedules. Prerequisite: ACC-460.

## Advanced Accounting

This course provides a study of accounting theory as it applies to partnerships and business combinations, international accounting, and governmental accounting. Prerequisites: ACC-370 and ACC-371.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## **ACC-486**♦: Financial Statement Analysis

This course provides a detailed analysis and interpretation of a firm's three principal financial statements and their uses from a managerial perspective. Prerequisites: ACC-240, ACC-260, or ACC-350; and FIN-350.

4 credits

# ACC-491♦: Auditing 4 credit

Auditing is an examination of generally accepted auditing standards, procedures involved in the auditing process, and ethical issues faced by the auditor. Through class discussions, practical applications, and case studies, students learn the responsibilities of the independent public auditor in the expression of opinion within the guidelines set by the AICPA's Code of Professional Ethics. Topics include the nature and types of audits, auditor responsibilities and legal liabilities, audit reports, auditing procedures, ethical issues, contemporary issues in auditing, and the Sarbanes-Oxley Act of 2002. Prerequisites: ACC-260 or ACC-350, and ACC-370.

#### ACC-502: Accounting Practices 4 credits

This course is designed for students who are preparing for more advanced coursework in business but who have not had accounting in undergraduate work. Topics covered include the principles and practices of financial accounting, including the fundamentals of revenue recognition, the components of the balance sheet, and financial statement analysis. The course explores accounting theories using publicly traded companies and case studies.

#### ACC-614: Accounting Research 2 credits

This course provides students with applied research experience using electronic databases to determine proper application of GAAP, IASs, and IFRSs to practical situations. Students develop the skills needed to access accounting and auditing rules and regulations, company financial statements, and related industry data used for analyzing financial statements.

# ACC-616: Financial Research and 4 credits Compliance

This course provides students with applied research experience using electronic databases to determine proper application of GAAP, IASs, and IFRSs to practical situations. Students develop the skills needed to access accounting, auditing, and taxation rules and regulations; company financial statements; and related industry data used for analyzing financial statements.

### ACC-650: Managerial Accounting 4 credits

This course covers managerial accounting concepts and procedures for internal reporting, including the study of cost behavior, cost systems, budgeting, and performance evaluation. Coursework includes case studies, group projects, and class discussion. Prerequisite: ACC-502.

# ACC-653: Advanced Managerial and Cost 4 credits Accounting

This course explores advanced managerial and cost accounting methods frequently used in accounting. Students apply managerial and cost accounting methods that are commonly tested on the Uniform Certified Public Accountant (CPA) Exam Business Analysis and Reporting (BAR) discipline.

#### **ACC-656:** Advanced Accounting

4 credits

This course explores advanced accounting theories and practices frequently used in public accounting. Students apply advanced accounting methods that are commonly tested on the Uniform Certified Public Accountant (CPA) Exam: Business Analysis and Reporting (BAR) Discipline.

#### ACC-657: Advanced Data Analytics 4 credits

This course explores advanced data analytics techniques frequently used in public accounting. Students apply financial data analytics methods that are commonly tested on the Uniform Certified Public Accountant (CPA) Exam: Business Analysis and Reporting (BAR) Discipline.

# ACC-658: Governmental and Not-For-Profit 4 credits Accounting

This course explores accounting theories and practices used for governmental and not-for-profit entities. Students apply governmental and not-for-profit accounting methods that are commonly tested on the Uniform Certified Public Accountant (CPA) Exam: Business Analysis and Reporting (BAR) Discipline.

#### ACC-660: Advanced Financial Accounting 4 credits

This course is an exploration of advanced topics in financial accounting and reporting, including recognition, measurement, and valuation issues affecting organizations. Prerequisite: ACC-650.

# ACC-661: Flow-Through Entities and 4 credits Planning

This course is a study of the theory and practices of accounting for income taxes of flow-through entities. In addition, students explore advanced tax planning concepts and tax research. Prerequisite: ACC-669.

# ACC-663: Personal Financial Advisory 4 credits Services 4

This course is a study of the theory and practices of financial planning for individuals and business owners. In addition, students explore advanced tax planning concepts, including estate, gift, and trust taxation. Prerequisite: ACC-614.

## ACC-669: Corporate Taxation 4 credits

This course is a study of the theory and practices of accounting for income taxes of corporations and state taxation. In addition, students explore advanced tax planning concepts, including acquisitions and consolidated financial statements for tax compliance. Prerequisite: ACC-614.

# ACC-670: Advanced Financial Statement 4 credits Analysis

This course covers in-depth analysis and interpretation of corporate financial reports. Students examine the form, content, and general accounting principles governing the construction of financial statements. There is particular emphasis on the analysis and interpretation of financial data as well as on the utility and limitations of financial accounting data. Prerequisites: ACC-650 or ACC-653, and ACC-660.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# ACC-680: Auditing and Data Analytics Core 4 credits

This course is a review of concepts frequently tested on the Uniform Certified Public Accountant (CPA) Exam: Auditing and Accounting Information Systems Core (AUD). Students reinforce concepts learned in undergraduate work and apply them by completing questions and simulations similar to those found on the Uniform CPA Exam.

#### ACC-681: Tax Core 4 credits

This course is a review of concepts frequently tested on the Uniform Certified Public Accountant (CPA) Exam: Regulation and Taxation Core (REG). Students reinforce concepts learned in undergraduate work and apply them by completing questions and simulations similar to those found on the Uniform CPA Exam.

# ACC-682: Accounting and Data Analytics 4 credits Core

This course is a review of concepts frequently tested on the Uniform Certified Public Accountant (CPA) Exam: Accounting and Data Analytics Core (ACC). Students reinforce concepts learned in undergraduate work and apply them by completing questions and simulations similar to those found on the Uniform CPA Exam.

# ACC-683: TCP Discipline Capstone 2 credits

This course is a review of concepts frequently tested on the Uniform Certified Public Accountant (CPA) Exam: Tax Compliance and Planning (TCP). Students reinforce concepts learned in prior graduate work and apply them by completing questions and simulations similar to those found on the Uniform CPA Exam. Prerequisites: ACC-669, ACC-661, and ACC-663.

### ACC-685: BAR Discipline Capstone 2 credit

This course is a review of concepts frequently tested on the Uniform Certified Public Accountant (CPA) Exam: Business Analysis and Reporting (BAR) Discipline. Students reinforce concepts learned throughout the program and apply them by completing questions and simulations similar to those found on the Uniform CPA Exam. Prerequisites: ACC-653, ACC-656, ACC-657, and ACC-658.

# Administration (ADM)

# ADM-530: Public and Nonprofit 4 credits Administration

This course examines the day-to-day duties of public administrators. Relationship building, political awareness, and collaborative strategies are highlighted throughout the course. How to best employ skills for the effective running of an organization is incorporated.

# ADM-560: Influence, Power, and Politics in 4 credits Public Administration 4

This course examines power and political structures employed within public administration. The ethical use of power and how to effectively influence others in public administration is practiced.

# ADM-614: Economics for Public Administrators

4 credits

In this course, the role of government in the economy is explored within the general context of market failure and social equity. Topics include allocation of goods and services, income distribution, externalities, public goods, and public choice theory. This course also examines the impact of macroeconomic events and policy decisions on the budgets and service levels of public entities.

#### ADM-620: Leading Public Organizations 4 credit

This course examines leadership practices and qualities necessary to lead an organization. A focus is given to the science of organizational behavior and how it contributes to effective leaders and managers.

## ADM-624: Public Governance 4 credits

This course focuses on how government and public organizations serve their stakeholders, the manner in which their services are carried out, how resources are managed, and how regulatory powers are complied with and/or managed. The best practices in public governance, issues related to transparency, participation, and accountability are examined.

# ADM-626: Public Budgeting and Financial 4 credits Management

This course provides an introduction to the revenue and expenditure structure of the public sector, including revenue policy, expenditure policy, and budget structure and administration.

# ADM-630: Introduction to the Nonprofit and 4 credits NGO Sector

This course explores the theories and concepts of nonprofit and nongovernmental organizations, stressing their waxing importance in the domestic and international arenas. In particular, the course examines the history, structure, management, missions, and future of nonprofits and NGOs.

# ADM-634: Policy Studies 4 credits

This course focuses on how challenges and problems facing society become policy issues. Leading theories in policy analysis and the policy-making process are examined and critiqued. The impact of policy decisions on various groups within society (related to gender, age, ethnicity, etc.) is also examined.

# ADM-638: Fundamentals of Community 4 credits Development

This course reviews the theoretical concepts on community development. The practice of community development includes effective mobilization, building, and management of collective efforts. In particular, the course explores the social, political, economic, environmental, and religious aspects of community-based collective action to solve pressing problems.

## ADM-640: Program Evaluation 4 credits

This course examines systematic program evaluation using various research methods. A focus is given to Local and State programs and policies.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# ADM-641: Funding and Program Evaluation 4 credits of Nonprofit Organizations

This course addresses the many facets of funding for nonprofit organizations. Relationship building, in addition to various funding strategies are covered. Approaches to keep an organization on solid financial ground are examined.

### ADM-645: Strategic Planning and Program 4 credits Evaluation in Healthcare

This course exposes students to the role strategic planning and program evaluation play in developing, implementing, and assessing public health care programs. The use of a strategic planning and program evaluation framework for program proposals is covered.

# Advertising (ADV)

# ADV-110: Fundamentals of Advertising 4 credits

This course introduces the fundamentals of the advertising industry including basic elements of campaign strategy and design. Students learn the foundational communication and writing skills necessary to create effective campaigns. Contemporary legal and ethical issues in advertising are also addressed. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### ADV-250<sup>\*</sup>: Advanced Design Fundamentals 4 credits

This course builds on design fundamentals by increasing students' understanding of content development and production methods within the advertising design process. Students will create and produce advertising campaigns and products of various scope and size. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ADV-110, DDN-110 or DDN-115.

#### ADV-260 $^{\triangle \Phi}$ : Advertising Copywriting 4 credits

This writing intensive course focuses on creative copywriting techniques to develop advertising campaigns for print and multimedia channels. Students enhance persuasive writing skills to create compelling and ethical advertising campaigns that are competitive in the industry. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

## **ADV-340**<sup>△</sup> • Media Law and Ethics

4 credits

This writing intensive course provides an overview of the laws and regulations that apply to advertising, marketing, and media organizations with emphasis on business organization, intellectual property, and regulatory processes. Ethical practices and theory as they apply to the mass media industry are also addressed. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

## ADV-350<sup>△/•</sup>: Digital Advertising Communication 4 credits

This writing intensive course explores integrated marketing communications and the development of marketing and advertising messages across digital platforms. Students focus on current trends in online advertising, social media platforms, and relevant emerging technologies. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-110 or DDN-115, ADV-260.

#### ADV-355: Image Creation

4 credits

Students learn methods of image creation, including vectors, typographic, and pixel-based imagery manipulation, for the purposes of aligning image production with advertising campaign strategy. Emphasis is placed on selection of appropriate imagery through analysis of audience needs, historical representation of ideas, stereotypes, and cultural iconography. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-110 or DDN-115.

# ADV-371<sup>♦</sup>: Design Studio I

Students work with industry-based projects within a highly collaborative environment to develop strong strategy and concept development methodologies. Projects focus on production methods for print, web, and digital media. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisites: DDN-120 and DDN-210.

# ADV-456\*: Design Studio II

4 credits

4 credits

In this course students use the principles of user experience and user interaction to improve client-brand relationships within industry-based projects. Students create client and consumer profiles and develop projects within a highly collaborative environment. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ADV-371.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

4 credits

Working with industry-based projects, students act as art directors to concept, develop, and produce interactive and multiplatform advertising solutions within a highly collaborative environment. Working in teams, students strengthen their process of collaboration from initial project identification through to final production. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ADV-350, ADV-456.

# Aerospace Studies (AES)

# AES-101: Air Force Today I 2

Every Fall. A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems and an introduction to communication skills. Leadership Laboratory (AES-102) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

#### AES-101A: Heritage and Values I 2 credits

A survey course designed to introduce students and cadets to the Department of the Air Force (DAF) and the Air Force Reserve Officer Training Corps (AFROTC). The course allows students and cadets to examine general aspects of the DAF, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Airman or Guardian by outlining our heritage and values. As a foundational course, this course provides a historical perspective such as lessons on war and US military, DAF operations, principles of war, and airpower.

#### AES-101B: DAF Professionalism 2 credits

The aim of Course 1: "DAF Professionalism" is to cultivate a foundational understanding and appreciation of the Department of the Air Force's (DAF) core values, culture, and the essential personal attributes that define professionalism within this unique environment. This course is meticulously designed to bridge theoretical knowledge with practical skills, fostering a cadre of well-rounded students ready to excel in the DAF ecosystem. Upon completion of this course, students will have a solid grasp of the DAF culture and the personal and professional qualities necessary for success within it. They will understand the significance of self-mastery, the dynamics of effective followership, and the importance of innovative problem-solving. With these foundational skills and knowledge, students will be better prepared to embark on their journey to become future leaders of the DAF.

Every Fall. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. Leadership Lab emphasizes common Air Force customs and courtesies, drill and ceremonies, health and physical fitness through group participation. Co-requisite: AES-101.

## AES-103: The Air Force Today II 2 credits

Every Spring. A survey and follow-on course to AES-101 designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps (AFROTC). Featured topics include: introduction to leadership, Air Force Core Values, introduction to interpersonal communication and team building, and a continuation of communication skills. Prerequisite: AES-101. Co-Requisites: Leadership Laboratory (AES-104) is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

#### AES-103A: Heritage and Values II 2 credits

A survey course designed to introduce students and cadets to the Department of the Air Force (DAF) and the Air Force Reserve Officer Training Corps (AFROTC). The course allows students and cadets to examine general aspects of the DAF, leadership fundamentals, service benefits, and opportunities for officers. The course also lays the foundation for becoming an Airman or Guardian by outlining our heritage and values. As a foundational course, this course provides a historical perspective such as lessons on war and US military, DAF operations, principles of war, and airpower.

# AES-103B: Competition and Security 2 credits

The overarching aim of Course 2, "Competition and Security," is to introduce students to the concept of national security from a broad perspective, encompassing the military's involvement in securing national interests through a range of activities from cooperation to armed conflict. This course is designed to lay a solid foundation for understanding the multifaceted nature of global security and the critical role of the DAF in maintaining peace and security. By the end of this course, students will have a solid grasp of the nature of conflict and the continuum of competition, appreciating the nuanced roles the military plays in both peacetime and wartime efforts to secure national interests. Students should understand the DoD structure and the specific contributions of the DAF, grounded in a comprehensive view of national security strategies.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **AES-104:** Leadership Laboratory

0 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. Prerequisites: AES-104 is a continuation of AES-102 with more in-depth emphasis on learning the environments and dynamics of an Air Force officer. Co-Requisite: AES-103.

# AES-201: Evolution of USAF Air/Space 2 credits Power

Every Fall. This course focuses on facilitating the transition from Air Force ROTC cadet to Air Force ROTC candidate. The course is designed to examine the general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the modern technology currently used in overseas contingency operations. Featured topics include: Air Force heritage, Air Force leaders, introduction to ethics and values, group leadership problems and continuing application of communication skills. Leadership Laboratory (AES-202) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences. Prerequisite: AES-103.

# AES-201A: Team and Leadership 2 credits Fundamentals I

A survey course designed to provide a fundamental understanding of both leadership and team building. Students and cadets will learn that there are many layers to leadership, including aspects that do not always come to mind. Such things include listening, understanding themselves, being a good follower, and problem solving efficiently. Students and cadets will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students and cadets should demonstrate basic verbal and written communication skills.

#### AES-202: Leadership Laboratory 2 credits

Every Fall. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. AES-202 provides application of advanced drill and ceremonies, issuing commands, knowing flag etiquette, and developing, directing, and evaluating skills to lead others. Co-requisite: AES-201.

# AES-202A: Leadership Laboratory 0 credits

Every Fall. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. AES-202A provides application of advanced drill and ceremonies, issuing commands, knowing flag etiquette, and developing, directing, and evaluating skills to lead others. Co-requisite: AES-201.

# AES-203: Evolution of USAF Air/Space

2 credits

Every Spring. Continuation of AES-201. The course provides students with knowledge level understanding for general element and employment of air and space power. Furthermore, it discusses the importance of Air Force Core Values with use of operational examples and historical Air Force leaders. Continues to develop communication skills. Topics include: the Air Force mission and organization, modern joint expeditionary Airmen, officer opportunities, and professionalism. Prerequisite: AES-201 or department approval. Co-Requisites: Leadership Laboratory (AES-204) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

### AES-203A: Team and Leadership 2 credits Fundamentals II

A survey course designed to provide a fundamental understanding of both leadership and team building. Students and cadets will learn that there are many layers to leadership, including aspects that do not always come to mind. Such things include listening, understanding themselves, being a good follower, and problem solving efficiently. Students and cadets will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students and cadets should demonstrate basic verbal and written communication skills.

# AES-204: Leadership Laboratory 0 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

# AES-294A: Air Force Physical Fitness 2 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

## AES-294B: Air Force Physical Fitness 2 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

#### AES-294C: Air Force Physical Fitness 2 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **AES-294D:** Air Force Physical Fitness

2 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

#### AES-294E: Air Force Physical Fitness 2 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-202 with an emphasis on preparation for field training. Co-requisite: AES-203.

#### AES-294F: Air Force Physical Fitness 2 credits

Instruction on adapted physical activities to promote a healthy Air Force lifestyle mixed with a variety of sports and sports activities to include calisthenics, sit-ups, push-ups, running, basketball, volleyball, and other physical events. Co-Requisite: AES-101, AES-103, AES-201, AES-203, AES-301, AES-303, AES-401 or AES-403.

#### AES-294G: Air Force Physical Fitness 2 credits

Instruction on adapted physical activities to promote a healthy Air Force lifestyle mixed with a variety of sports and sports activities to include calisthenics, sit-ups, push-ups, running, basketball, volleyball, and other physical events. Co-Requisite: AES-101, AES-103, AES-201, AES-203, AES-301, AES-303, AES-401 or AES-403.

#### AES-294H: Air Force Physical Fitness 2 credit

Instruction on adapted physical activities to promote a healthy Air Force lifestyle mixed with a variety of sports and sports activities to include calisthenics, sit-ups, push-ups, running, basketball, volleyball, and other physical events. Co-Requisite: AES-101, AES-103, AES-201, AES-203, AES-301, AES-303, AES-401 or AES-403.

# AES-301: U.S. Air Force Communication 3 credits Management Leadership

Every Fall. A study of leadership, quality management fundamentals, professional knowledge, Air Force personnel evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical applications of the concepts being studied. Individual leadership skills and personal strengths and weaknesses are applied to the Air Force environment. Prerequisite: AES-203. Co-Requisites: Leadership Laboratory (AES-302) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

# AES-301A: Leading People and Effective Communication I

3 credits

This survey course is a study of leadership, management fundamentals, professional knowledge, and communication skills required of an Air Force junior officer. Lecture, text, case studies, and class discussion will be used to examine all aspects of leadership including counseling, mentoring, empowering, problem solving, accountability and authority. Students and cadets will develop upon basic written and oral communications skills primarily through written assignments and oral presentations.

# AES-302: Leadership Laboratory

0 credits

Every Fall. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Advanced leadership experiences applying leadership and management principles to motivate and enhance the performance of other cadets. Leadership traits and abilities are enhanced. Co-Requisite: AES-301.

# AES-303: Air Force Leadership Studies II 3 credits

Every Spring. AES-303 is a continuation of AES-301 on the study of leadership and management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Prerequisite: AES-203. Co-Requisites: Leadership Laboratory (AES-304) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

# AES-303A: Leading People and Effective 3 credits Communication II

This survey course is a study of leadership, management fundamentals, professional knowledge, and communication skills required of an Air Force junior officer. Lecture, text, case studies, and class discussion will be used to examine all aspects of leadership including counseling, mentoring, empowering, problem solving, accountability and authority. Students and cadets will develop upon basic written and oral communications skills primarily through written assignments and oral presentations.

### AES-304: Leadership Laboratory 0 credit

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-302 with emphasis on planning the military activities of the cadet corps and applying advanced leadership methods. Co-Requisite: AES-303.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **AES-401:** National Security Affairs

3 credits

Every Fall. The course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest include the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting the military profession. Within this structure, continued emphasis is given to the refinement of communication skills. Prerequisite: AES-303. Co-Requisites: Leadership Laboratory (AES-402) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

# AES-401A: National Security, Leadership Responsibilities Commissioning Preparation I

3 credits

This course is designed to address the basic elements of national security policy and process. The cadets and students will comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students and cadets will develop upon basic written and oral communications skills primarily through written assignments and oral presentations.

### **AES-402:** Leadership Laboratory

0 credits

Every Fall. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Advanced leadership experience demonstrating learned skills in planning and controlling the military activities of the corps. Co-Requisite: AES-401.

### AES-403A: Regional Security Issues 3 credits

Every Spring. Continuation of AES-401 which examines regional studies and advanced leadership ethics. Special topics of interest focus on the military as a profession, officership, military justice, preparation for active duty, and current issues affecting military professionalism. Special emphasis is given on the transition from civilian to military life and what it takes to be a good second lieutenant in the United States Air Force. Co-requisite: Leadership Laboratory (AES-404) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership Laboratory (AES-404) is mandatory for AFROTC cadets and complements this course by providing cadets with followership and leadership experiences.

# AES-403B: National Security, Leadership Responsibilities Commissioning Preparation II 3 credits

This course is designed to address the basic elements of national security policy and process. The cadets and students will comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students and cadets will develop upon basic written and oral communications skills primarily through written assignments and oral presentations.

# **AES-404:** Leadership Laboratory

0 credits

Every Spring. Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. Continuation of AES-402 with emphasis on preparation for transition from civilian to military life. Co-Requisite: AES-403.

# Artificial Intelligence (AIT)

### AIT-104: Data Mining and Machine Learning

4 credits

This course covers the principles and techniques of data mining and machine learning. Students learn to apply algorithms and models to large datasets and evaluate their performance. Prerequisites: MAT-154 and CST-180.

# AIT-110: Statistical Learning Theory 4 credits

This course covers the principles and techniques of statistical learning theory, including bias-variance trade-off, model selection, and regularization. Students learn to apply statistical learning techniques to model and analyze complex AI systems. Prerequisites: CST-180 and MAT-154.

#### AIT-114: Introduction to Linguistics 4 credits

This course covers the basic concepts and theories of linguistics, including syntax, semantics, and pragmatics. Students learn to analyze and describe language structure and use. Prerequisite: ENG-105.

## AIT-204: Deep Learning 4 credits

This course covers the theory and practice of deep learning, including neural networks, convolutional networks, and recurrent networks. Students learn to apply deep learning techniques to solve image, speech, and natural language processing problems. Prerequisite: AIT-104.

# AIT-206: Reinforcement Learning 4 credits

This course covers the fundamentals of reinforcement learning and how it can be applied to decision-making problems. Students learn to implement and evaluate reinforcement learning algorithms. Prerequisite: AIT-104.

#### AIT-210: Applied Mathematics for AI 4 credits

This course covers advanced mathematical and statistical techniques for AI, such as convex optimization, spectral graph theory, and Bayesian inference. Students learn to apply these techniques to solve real-world AI problems. Prerequisite: AIT-110.

# AIT-212: Scientific Computing for AI 4 credits

This course covers scientific computing methods for AI, including numerical methods for differential equations, stochastic simulation, and high-performance computing. Students learn to apply scientific computing techniques to develop and evaluate algorithms and models for AI. Prerequisite: AIT-210.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# AIT-214<sup>\*</sup>: Natural Language Processing 4 credits

This course covers the methods and techniques for processing natural language, including text classification, sentiment analysis, and machine translation. Students learn to implement NLP algorithms using a programming language and NLP libraries. Prerequisite: AIT-114, MAT-154.

#### AIT-216: Language and Vision 4 credits

This course covers the intersection of natural language processing and computer vision. Students learn to analyze and generate language descriptions of visual scenes and objects. Prerequisite: AIT-214, AIT-225.

# AIT-224': Image Processing and Computer 4 credits Vision

This course covers the principles and techniques of digital image processing and computer vision. Students learn to use image processing algorithms for tasks such as filtering, enhancement, and restoration. Prerequisites: MAT-154 and CST-180.

# AIT-226: Feature Extraction and Image 4 credits Representation

This course covers the methods and techniques for feature extraction and image representation, including SIFT, SURF, and HOG. Students learn to extract features from images and represent them in a meaningful way for computer vision tasks. Prerequisite: AIT-224.

# AIT-230: Introduction to Robotics 4 credits

This course covers the basic concepts and principles of robotics, including kinematics, dynamics, and control. Students learn to design and build simple robotic systems and control them using sensors and actuators. Prerequisite: MAT-154.

### AIT-306<sup>‡</sup>: Machine Learning Applications 4 credits

This course covers the practical applications of machine learning in various fields such as healthcare, finance, and social media. Learners will develop machine learning solutions for real-world problems. Prerequisite: AIT-206.

#### AIT-316: Conversational Agents 4 credits

This course covers the design and implementation of conversational agents, including chatbots and virtual assistants. Students learn to develop conversational agents that can understand and respond to natural language input.

## AIT-326: Object Recognition and Detection 4 credits

This course covers the methods and techniques for object recognition and detection in images and videos. Students learn to apply computer vision algorithms for tasks such as face detection, object tracking, and activity recognition. Prerequisite: AIT-226.

### AIT-332<sup>‡</sup>: Robot Perception 4 credits

This course covers the methods and techniques for robotic perception, may include computer vision and sensor fusion. Prerequisite: AIT-230.

#### AIT-351: Capstone 1: Planning and Design 4 credits

This course is focused on planning and designing AI projects from start to finish, including identifying project goals, scoping project requirements, designing system architecture, and creating project plans. Prerequisite: AIT-306, AIT-316, AIT-326.

# AIT-406: Deep Learning for Computer 4 credits Vision

This course covers the application of deep learning techniques to computer vision tasks, including convolutional neural networks (CNNs) and recurrent neural networks (RNNs). Students learn to integrate deep learning models in computer vision for tasks such as image classification, object detection, and semantic segmentation. Prerequisite: AIT-204.

# AIT-408<sup>Δ</sup>: Advanced Topics in Computer 4 credits Vision

This writing intensive course covers advanced topics in computer vision. Students learn to read and critique research papers and propose their own research ideas. Prerequisite: AIT-204, AIT-226.

# AIT-432: Robot Motion Development 4 credits

This course covers the algorithms and techniques for robot motion planning, including configuration space, sampling-based methods, and optimization. Students learn to plan and execute robot movements for different tasks and scenarios. Prerequisite: AIT-332.

## AIT-434: Robot Control Systems 4 credits

This course covers the principles and methods for controlling robotic systems, including feedback control and adaptive control. Students learn to design and implement control systems for different types of robots. Prerequisite: AIT-332.

### AIT-436: Human-Robot Interaction 4 credits

This course covers the design and evaluation of human-robot interaction systems, including gesture recognition, speech recognition, and natural language processing. Students learn to develop robots that can interact with humans in a natural and intuitive way. Prerequisite: AIT-306, AIT-316, AIT-326.

# AIT- $450^{\triangle}$ : Ethics of AI 4 credits

This writing intensive course covers the ethical and social implications of AI technology. Students learn to identify and mitigate ethical issues such as bias, privacy, and accountability.

# AIT-451: Capstone 2 - Planning 2 credits

This course is focused on the development and implementation of AI projects, including the creation and testing of models and algorithms, and the integration of AI technologies into existing systems. Prerequisites: AIT-230, AIT-351, AIT-406, and AIT-432.

### AIT-452: Capstone 3: Deployment 2 credits

This course is focused on the deployment and maintenance of AI projects, including the deployment of AI models and technologies, monitoring and maintaining system performance, and ensuring system security and privacy. Prerequisite: AIT-451.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **AIT-515: Programming Foundations**

4 credits This course introduces computer programming for AI

applications, focusing on structures and algorithms used in AI and machine learning. Prerequisite: DSC-505.

#### **AIT-525:** Mathematics for AI 4 credits

This course equips students with the mathematical knowledge essential for understanding and developing AI algorithms. Prerequisite: DSC-505, AIT-515 or a BS in a computing field.

#### **Statistics & Data Analysis**

This course focuses on the statistical techniques required for effective data analysis, crucial for AI and machine learning. Prerequisite: AIT-525.

#### **AIT-535: Machine Learning** 4 credits

This course covers key machine learning methodologies and their practical applications. Prerequisite: AIT-530.

#### **AIT-540: Deep Learning** 4 credits

This course explores the advanced techniques and models in deep learning, a key driver of recent AI successes. Prerequisite: AIT-535.

#### **AIT-545:** Ethics in AI

This course addresses the ethical challenges and considerations that come with the development and deployment of AI systems. Prerequisite: AIT-535.

#### AIT-550: AI Applications Development and 4 credits **Deployment**

This course provides comprehensive training in the development and deployment of AI applications, focusing on the practical aspects of bringing AI solutions to production. Prerequisite: AIT-535, AIT-540.

#### **AIT-555: Machine Learning for Text** 4 credits **Processing**

This course focuses on the statistical techniques required for effective data analysis, crucial for AI and machine learning methods for text processing. Prerequisite: AIT-540.

#### AIT-560: **Computer Vision** 4 credits

This course offers a comprehensive introduction to the field of computer vision. It focuses on developing and applying computer vision algorithms and techniques in real-world scenarios. Prerequisite: AIT-540.

#### AIT-565: Capstone in AI

This capstone course is designed to be a culmination of the MS in AI program, allowing students to demonstrate their mastery of the subject and readiness for professional challenges or further academic pursuits in the field of AI. Prerequisites: AIT-545, AIT-550, and AIT-555.

### Applied Management (AMP)

#### AMP-450V: Leadership and Vocation

3 credits

This course emphasizes major leadership approaches and models used within health care today. Topics include regulatory leadership, servant leadership, and formal and informal leadership roles. Students have an opportunity to analyze leadership approaches to decision making and the impact of professional mentorship. The significance and use of collaborative leadership, communication, and decision making, in health care are explored. Students examine leadership behaviors that leverage diversity and foster inclusion to ensure professionalism and the professional responsibility of leaders today.

### Acute Care Nurse Practitioner (ANP)

#### ANP-635 $^{\Omega}$ : Health Promotion and Maintenance 4 credits and On-Campus Experience I

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Learners explore concepts relevant to acute care, including integration of the family and patient support systems into care. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Learners examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

#### ANP-635CE<sup>Ω</sup>: ANP-635 On-Campus Experience I 0 credits

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Learners explore concepts relevant to acute care, including integration of the family and patient support systems into care. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Learners examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ANP-650 $^{\Omega}$ : Adult-Gerontology Acute Care I 7 credits

This course focuses on evidence-based theory and research related to adult-gerontological patients experiencing acute illnesses with comorbidities. Learners synthesize data from a variety of health resources related to the care of the adultgerontological patient. Learners analyze common problems seen in the acute care setting to develop prioritized differential diagnoses, make clinical judgments, and recommend appropriate treatments for acute alterations in health with particular emphasis on restorative care. Clinical practice affords learners the opportunity to refine their clinical decision-making skills in advanced health assessment, clinical diagnosis, procedural skill acquisition, and care management of acute and chronically ill adult-gerontological patients. Practicum experiences emphasize the physiological and psychosocial impact of acute and critical illness on patients, family, and community. Practicum/field experience hours: 225. Prerequisite: ANP-635.

#### ANP-652 $^{\Omega}$ : Adult-Gerontology Acute Care II 7 credits

This course continues to focus on evidenced-based theory and research related to acute illnesses in the adult-gerontological population in the acute care setting. Learners build on prior knowledge and synthesize data from a variety of health resources related to the care of the acutely ill patient. Utilizing a systems framework, learners further develop clinical judgment and decision-making skills in order to recommend treatments for alterations in different systems as they develop an evidence-based plan of care. Clinical practice affords learners the opportunity to refine their clinical decision-making skills in advanced health assessment, clinical diagnosis, procedural skill acquisition, and care management of acute and chronically ill adult-gerontological patients. Practicum experiences emphasize the physiological and psychosocial impact of acute and critical illness on patients, family, and community. Practicum/field experience hours: 225. Prerequisite: ANP-650.

# ANP-654 $^{\Omega}$ : Adult-Gerontology Acute Care III 7 credits and On-Campus Experience II

This course serves as the final synthesis of evidenced-based theory and research related to care of complex, acute, and critically ill adult-gerontological and frail elderly patients with comorbidities. Learners continue to build on prior knowledge and synthesize data from a variety of health resources related to the care of the acutely ill patient. Utilizing a systems framework, learners further develop appropriate clinical judgment and decision-making skills regarding appropriate recommendations and treatments related to alterations in different systems as they develop an evidence-based plan of care for adult-gerontological patients. Practicum experiences emphasize the physiological and psychosocial impact of acute and critical illness on patients, family, and community, and prepare the Adult Gerontology Acute Care Nurse Practitioner in the diagnosis and management of chronic, exacerbated, acute, and life-threatening health problems. This course includes a required 2-day, on-campus experience. Practicum/field experience hours: 225. Prerequisite: ANP-652.

### ANP-654CE $^{\Omega}$ : ANP-654 On-Campus Experience 0 credits II

This course serves as the final synthesis of evidenced-based theory and research related to care of complex, acute, and critically ill adult-gerontological and frail elderly patients with comorbidities. Learners continue to build on prior knowledge and synthesize data from a variety of health resources related to the care of the acutely ill patient. Utilizing a systems framework, learners further develop appropriate clinical judgment and decision-making skills regarding appropriate recommendations and treatments related to alterations in different systems as they develop an evidence-based plan of care for adult-gerontological patients. Practicum experiences emphasize the physiological and psychosocial impact of acute and critical illness on patients, family, and community, and prepare the Adult Gerontology Acute Care Nurse Practitioner in the diagnosis and management of chronic, exacerbated, acute, and life-threatening health problems. This course includes a required 2-day, on-campus experience. Prerequisite: ANP-652.

### Arts Education (ARE)

#### ARE- $480^{\Omega}$ : Student Teaching: Arts Education 12 credits

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Performance of Evaluation (STEP). Fingerprint clearance required. Prerequisites: Successful completion of all courses in POS and content area; a 2.8 GPA; successful completion of NES or your state's mandated content area exams; and approval and placement by the College of Education Office of Clinical Practice. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching. Fingerprint clearance required.

### Art Studio (ART)

#### ART-220: Creative Collaboration 4 credits

This course explores the calling and responsibility of creative collaboration towards human flourishing: work, entertainment, and recreation. Students will develop their ideas and inspirations through teamwork, from planning to implementation. Through interpersonal communication and technical skills, students explore how to express intentions and solve problems.

### Athletic Training (ATP)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ATP-214<sup>\Omega</sup>: Care, Treatment, and Prevention of 3 credits Athletic Injuries

This course provides students with a basic knowledge and understanding of the principles of sports medicine, the care and treatment of athletic trauma, and the use of proper conditioning principles for the prevention of injury. Prerequisites: BIO-155 and BIO-155L or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: ATP-214L.

#### ATP-214L<sup>\Omega</sup>: Care, Treatment, and Prevention of 1 credits Athletic Injuries Lab

This lab complements and supports the principles taught in the lecture course and provides students with a basic knowledge and understanding of the principles of sports medicine, the care and treatment of athletic trauma, safety and its importance in related settings, and the use of proper conditioning principles in the prevention of injury. Prerequisites: BIO-155 and BIO-155L or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: ATP-214.

### ATP-256 $^{\Omega •}$ : Health Promotion and Wellness 4 credits Protection

This course includes the study of the general principles of health maintenance and promotion. Students learn the role of exercise, including flexibility, strength training, and cardiovascular conditioning in maintaining a healthy lifestyle. Topics include nutrition and dietary requirements for health and weight management. Students administer testing procedures to obtain baseline data regarding a patient's level of general health and use this data to design a program specific to the performance and health goals of the patient. In addition, this course reviews the basics of evidence-based practice in athletic training. Prerequisites: BIO-201 and BIO-201L.

### ATP-301 $^{\prime\Omega}$ : Recognition and Evaluation of 3 credits Injuries I

This course provides students with the specific knowledge and practical skills required to perform proper evaluation of the upper and lower body. Students learn to palpate body and soft tissue structures, and perform active, passive, and resistive range of motion testing, neurological testing, and special ligament tests for the major synovial joints in the body. Students are provided multiple opportunities to reinforce their knowledge with hands-on practice. Prerequisites: ATP-214, ATP-214L, BIO-202, BIO-202L, and acceptance into the Athletic Training program. Co-Requisite: ATP-301L.

### ATP-301L<sup>fQ</sup>: Recognition and Evaluation of 1 credits Injuries I Lab

This lab complements and supports the principles taught in the lecture course and provides students with the specific knowledge and practical skills required to perform proper evaluation of the lower body. Students learn to palpate body and soft tissue structures, and perform active, passive, and resistive range of motion testing, neurological testing, and special ligament tests for the major synovial joints in the body. Students are provided multiple opportunities to reinforce their knowledge with hands-on practice. Prerequisites: ATP-214, ATP-214L, BIO-202, BIO-202L, and acceptance into the Athletic Training program. Co-Requisite: ATP-301.

### ATP-302<sup>fΩ</sup>: Recognition and Evaluation of Injuries II

3 credits

Building on concepts from ATP-301, this course provides students the opportunity to further analyze and apply skills in the areas related to the components of injury evaluation of the upper extremity, including history taking, inspection, palpation, joint movement, manual muscle testing, joint stability tests, neurological testing, and formulation of both a clinical and a differential diagnoses. Prerequisites: ATP-301, ATP-301L, ATP-315, and ATP-315L. Co-Requisite: ATP-302L.

### ATP-302HN/: Recognition and Evaluation of 3 credits Injuries II

Building on concepts from ATP-301, this course provides students the opportunity to further analyze and apply skills in the areas related to the components of injury evaluation of the upper extremity, including history taking, inspection, palpation, joint movement, manual muscle testing, joint stability tests, neurological testing, and formulation of both a clinical and a differential diagnoses. Prerequisites: ATP-301, ATP-301L, ATP-315, and ATP-315L. Co-Requisite: ATP-302L.

# ATP-302L<sup>40</sup>: Recognition and Evaluation of 1 credits Injuries II Lab

This lab complements and supports the principles taught in the lecture course and provides students with specific knowledge and practical skills required to perform proper evaluation of the upper extremity. This course also allows students to demonstrate differences between on-field and clinical evaluations, including history taking, inspection, palpation, joint movement, manual muscle testing, joint stability tests, neurological testing, and formulation of both a clinical and a differential diagnosis. Students are provided multiple opportunities to reinforce their knowledge with hands-on practice. Prerequisites: ATP-301, ATP-301L, ATP-315, and ATP-315L. Co-Requisite: ATP-302.

### ATP- Recognition and Evaluation of 1 credits 302LHN<sup>t</sup>: Injuries II Lab

This lab complements and supports the principles taught in the lecture course and provides students with specific knowledge and practical skills required to perform proper evaluation of the upper extremity. This course also allows students to demonstrate differences between on-field and clinical evaluations, including history taking, inspection, palpation, joint movement, manual muscle testing, joint stability tests, neurological testing, and formulation of both a clinical and a differential diagnosis. Students are provided multiple opportunities to reinforce their knowledge with hands-on practice. Prerequisites: ATP-301, ATP-301L, ATP-315, and ATP-315L. Co-Requisite: ATP-302.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. In this clinical course, students select, apply, evaluate, and modify appropriate standard protective equipment, taping, wrapping, bracing, padding, and other custom devices for the patient. Students administer testing procedures to obtain baseline data regarding a patient's level of general health (including nutritional habits, physical activity status, and body composition) and use these data to design, implement, evaluate, and modify a program specific to the performance and health goals of the patient. This includes instructing the patient in the proper performance of the activities, recognizing the warning signs and symptoms of potential injuries and illnesses that may occur, and explaining the role of exercise in maintaining overall health and the prevention of diseases. Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-tostudent demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisites: ATP-214, ATP-214L, ATP-256, BIO-202, BIO-202L, and acceptance into the Athletic Training program.

### ATP-315 $^{\Omega \bullet}$ : Emergency Care for Acute Injuries 3 credits

This course includes the study of the proper techniques in caring for patients by recognizing catastrophic and emergent conditions and treating appropriately. Students learn establishing and maintaining an airway, maintaining neutral spine alignment with an athlete wearing protective equipment, wound management, immobilization, transfer techniques including spine boarding, core body temperature, and caring for athletes with conditions such as asthma and diabetes. Students are prepared to complete Emergency Cardiac Care (ECC) certification upon completion of the course. Prerequisites: BIO-202, BIO-202L, and acceptance into the Athletic Training program. Co-Requisite: ATP-315L.

### ATP-315 $\mathbf{L}^{\Omega \Phi}$ : Emergency Care for Acute Injuries 1 credits Lab

This lab complements and supports the principles taught in the lecture course, including the study of the proper techniques in caring for a patient by recognizing catastrophic and emergent conditions and treating appropriately. Students demonstrate establishing and maintaining an airway, maintaining neutral spine alignment with an athlete wearing protective equipment, wound management, immobilization, transfer techniques including spine boarding, core body temperature, and caring for athletes with conditions such as asthma and diabetes. Prerequisites: BIO-202, BIO-202L, and acceptance into the Athletic Training program. Co-Requisite: ATP-315.

#### ATP-320<sup>Ω</sup>: Emergency Care and Lower Extremity Evaluation Clinical

4 credits

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. In this clinical course, students perform a comprehensive clinical examination of a patient with a lower extremity condition. This exam incorporates clinical reasoning in the selection of assessment procedures and interpretation of findings in order to formulate a diagnosis or differential diagnosis, determine underlying impairments, and identify activity limitations and participation restrictions. Based on the assessment data and consideration of the patient's goals, students provide the appropriate initial care and establish overall treatment goals. In addition, students also clinically evaluate and manage a patient with an emergency injury or condition to include the assessment of vital signs and level of consciousness, activation of emergency action plan, secondary assessment, diagnosis, and provision of the appropriate emergency care (e.g., CPR, AED, supplemental oxygen, airway adjunct, splinting, spinal stabilization, control of bleeding). Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-tostudent demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisites: ATP-301, ATP-301L, ATP-310, ATP-315, and ATP-315L.

#### ATP-322 $\Omega$ : Therapeutic Modalities 3 credits

This course is a study of various therapeutic modalities that aid in the healing process of injuries. The course covers the theory behind and proper use of these modalities. Prerequisites: ATP-301 and ATP-301L. Co-Requisite: ATP-322L.

#### ATP-322 $L^{\Omega}$ : Therapeutic Modalities Lab 1 credits

This lab complements and supports the principles taught in the lecture course. Students develop practical applications of therapeutic modality techniques. Prerequisites: ATP-301 and ATP-301L. Co-Requisite: ATP-322.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# ATP-330<sup>\Omega</sup>: Therapeutic Modalities and Upper 4 credits Extremity Techniques Clinical

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. In this clinical course, students perform a comprehensive clinical examination of a patient with an upper extremity, head, neck, thorax, and spine injury or condition. This exam incorporates clinical reasoning in the selection of assessment procedures and interpretation of findings in order to formulate a diagnosis or differential diagnosis, determine underlying impairments, and identify activity limitations and participation restrictions. Based on the assessment data and consideration of the patient's goals, students provide the appropriate initial care, including appropriate therapeutic modalities, and establish overall treatment goals. Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisites: ATP-302, ATP-302L, ATP-320, ATP-322, and ATP-322L.

#### ATP-360 $^{\text{A}\Omega}$ : Theory of Prescribing Exercise 3 credits

This course covers the specific and applied use of exercise in prevention of injury, improvement of performance, and recovery from disability and dysfunction, including specific exercise routines, kinesiological principles, history and scope of rehabilitating exercise, abnormal clinical kinesiology, examination procedures, and reconditioning of specific disorders. Prerequisites: ATP-302, ATP-302L, ATP-322, and ATP-322L. Co-Requisite: ATP-360L.

#### ATP-360HN<sup>t</sup>: Theory of Prescribing Exercise 3 credits

This course covers the specific and applied use of exercise in prevention of injury, improvement of performance, and recovery from disability and dysfunction, including specific exercise routines, kinesiological principles, history and scope of rehabilitating exercise, abnormal clinical kinesiology, examination procedures, and reconditioning of specific disorders. Prerequisites: ATP-302, ATP-302L, ATP-322, and ATP-322L. Co-Requisite: ATP-360L.

#### ATP-360L<sup>1</sup>: Theory of Prescribing Exercise Lab 1 credits

This lab complements and supports the principles taught in the lecture course. Practical applications and experiments include exercise prescription and rehabilitation techniques. Prerequisites: ATP-302, ATP-302L, ATP-322, and ATP-322L. Co-Requisite: ATP-360.

#### ATP- $401^{A}$ : General Medical Conditions 3 credits

This course provides a broad discussion of general medical conditions and associated pathologies of the physically active, as well as information applicable to athletes, coaches, and athletic trainers of all levels. This course covers evaluation techniques and equipment for all body systems, conditions, and special populations. Prerequisites: ATP-360 and ATP-360L. Co-Requisite: ATP-401L.

#### ATP-401HN<sup>‡</sup>: General Medical Conditions

3 credits

This course provides a broad discussion of general medical conditions and associated pathologies of the physically active, as well as information applicable to athletes, coaches, and athletic trainers of all levels. This course covers evaluation techniques and equipment for all body systems, conditions, and special populations. Prerequisites: ATP-360 and ATP-360L. Co-Requisite: ATP-401L.

#### ATP-401L<sup>A</sup>: General Medical Conditions Lab 1 credits

This lab complements and supports principles taught in the lecture course and provides a broad discussion of general medical conditions and associated pathologies of the physically active, as well as information applicable to athletes, coaches, and athletic trainers of all levels. This course covers evaluation techniques and equipment for all body systems, conditions, and special populations. Prerequisites: ATP-360 and ATP-360L. Co-Requisite: ATP-401.

### ATP- General Medical Conditions Lab 1 credits 401LHN\*:

This lab complements and supports principles taught in the lecture course and provides a broad discussion of general medical conditions and associated pathologies of the physically active, as well as information applicable to athletes, coaches, and athletic trainers of all levels. This course covers evaluation techniques and equipment for all body systems, conditions, and special populations. Prerequisites: ATP-360 and ATP-360L. Co-Requisite: ATP-401.

### ATP-402<sup>\Omega</sup>: Pharmacology and Advanced 4 credits Therapeutic Interventions

This course examines current theories and practices of pharmacology and epidemiology of drug use as related to athletic training and sports medicine. The course also examines how to appropriately create a plan of care for a patient utilizing therapeutic modalities, rehabilitation, and pharmacologic interventions. Prerequisites: ATP-322, ATP-322L, ATP-360, ATP-360L, ATP-401, and ATP-401L.

# ATP-420 $^{\Omega}$ : Health Care Administration in 4 credits Athletic Training

This course establishes a framework for health care administration and management, tasks and techniques required in athletic training, health care programs, the health care industry, and interscholastic and intercollegiate athletics. Students assess their personal and professional readiness for management and leadership and acquire skills necessary for effective administration and leadership within the industry. Co-Requisite: ATP-450.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ATP-440 $^{\Omega}$ : Therapeutic Interventions Clinical 4 credits

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. In this clinical course, students perform a comprehensive clinical examination of a patient. Based on the assessment data and consideration of the patient's goals, the student creates and implements a therapeutic intervention that targets these treatment goals to include, as appropriate, therapeutic modalities, medications (with physician involvement as necessary), and rehabilitative techniques and procedures. Students integrate and interpret various forms of standardized documentation, including both patient-oriented and clinicianoriented outcome measures, to recommend activity level, make return-to-play decisions, maximize patient outcomes and progress in the treatment plan, and analyze injury data to formulate a prevention program. Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisites: ATP-330, ATP-360, and ATP-360L.

### ATP-450 $^{\Omega}$ : General Medicine and Health Care 4 credits Administration Clinical

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. Students develop, implement, and monitor prevention strategies for at-risk individuals (e.g., persons with asthma or diabetes, a previous history of heat illness, or sickle cell trait) and large groups to allow safe physical activity in a variety of conditions. This includes obtaining and interpreting data related to potentially hazardous environmental conditions, monitoring body functions (e.g., blood glucose, peak expiratory flow, hydration status), and making the appropriate recommendations for individual safety and activity status. Students also demonstrate the ability to recognize and refer atrisk individuals and individuals with psychosocial disorders or mental health emergencies. Students also demonstrate appropriate documentation and policy/procedure strategies. As part of this clinical experience, students will participate in a minimum of four weeks at an immersive clinical rotation. This rotation allows the student to partake in the totality of care associated with professional practice. Per CAATE Standard 55, "Clinical education may begin prior to or extend beyond the institution's academic calendar." The student's clinical immersion site will be selected by the program. Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisites: ATP-401, ATP-401L, and ATP-440. Co-Requisite: ATP-420.

### ATP-460<sup>Ω</sup>: Advanced Athletic Training Clinical

4 credits

This course provides a clinical setting in which athletic training students apply and demonstrate proficiency in athletic training skills. Students demonstrate knowledge and skills assessed in previous clinical coursework while integrating evidence-based practice into clinical decision making. Students are assigned to a preceptor who provides supervision on a daily basis through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on true patients. Practicum/field experience hours: 150. Prerequisite: ATP-450.

#### ATP-480 $^{\Delta\Omega}$ : Athletic Training Capstone 3 credits

This writing-intensive capstone course serves as a culmination of the learning experiences during the athletic training education program at Grand Canyon University. Students are challenged to demonstrate higher level thinking, review evidence-based literature, and display athletic training professional behaviors. Students have the opportunity to identify a clinical practice problem, search the literature, and propose an evidence-based solution that results in practice improvement. Prerequisites: ATP-402, ATP-420, and ATP-450.

#### ATP-485<sup>\Omega</sup>: Athletic Training Board of 1 credits Certification Exam Preparation

This course prepares students to sit for the Athletic Training Board of Certification (BOC) exam. Students examine professional regulations and certification requirements and use practice exam questions to prepare for the certification exam. Prerequisite: ATP-420.

### ATP-500: Foundations of Professional 2 credits Practice and Athletic Training

This course provides students with an introduction to the foundations of professional athletic training practice. Students learn about the various health professions that comprise the sports medicine team and the appropriate communication strategies in patient care. These concepts are rooted in rules, regulations, and profession documents that comprise the athletic trainer's scope of practice and standards of care. Students also learn about injury and illness prevention strategies such as health and wellness, nutrition, athletic taping and bracing, and sports regulations (NCAA, NAIA, etc.). Lastly, students learn about the Core Competencies: patient-centered care, interprofessional education (IPE), evidence-based practice, quality improvement, and health care informatics. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-500L.

# ATP-500L: Foundations of Professional 1 credits Practice and Athletic Training Lab

This lab complements and supports the principles taught in the lecture course. This course encompasses: the principles of health and wellness, injury and illness prevention basics, nutrition planning, taping, bracing and padding for the extremities and spine, communication strategies in sports medicine, and sports-specific equipment fitting. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-500.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### ATP-510: Evaluation, Diagnosis, and Pathophysiology of General Medical Conditions

4 credits

This course provides foundational knowledge in general evaluation skills for an athletic trainer. This course also provides knowledge, skills, and assessment techniques for general medical conditions and associated pathologies of the physically active, as well as information applicable to athletes, coaches, and athletic trainers of all levels. The systems instructed in this course are: Respiratory, Cardiovascular, Abdominal, Genitourinary, Gynecologic, Reproductive, Neurology and Concussions, Ears, Eyes, Nose, Throat, Infectious Disease, Systemic Conditions, Dermatology, and an Introduction to Psychosocial Conditions.

### ATP-511: Evaluation and Diagnosis of the 3 credits Lower Kinetic Chain

This course provides students with the specific knowledge and practical skills required to perform proper orthopedic evaluations. Students learn to palpate body and soft tissue structures, and perform active, passive, and resistive range of motion testing, neurological testing, and special ligament tests for the major synovial joints in the body. The body regions that are taught in this course include: Foot/Toes, Ankle/Lower Leg, Knee, and Pelvis/Thigh. Students also learn appropriate documentation strategies for orthopedic evaluations. The evaluation process is rooted in the use of evidence-based practice and students learn the basics in the application of this concept while making clinical decisions. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-511L.

### ATP-511L: Evaluation and Diagnosis of the Lower Kinetic Chain Lab

This lab complements and supports the principles taught in the lecture course. This course encompasses evaluation of the Foot/Toes, Ankle/Lower Leg, Knee/Thigh, and Hip/Pelvis. Students will use an electronic medical records (EMR) system. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-511.

### ATP-512: Evaluation and Diagnosis of the Upper Kinetic Chain and Spine 3 credits

This course builds on the knowledge and skills from ATP-511. This course provides students with the specific knowledge and practical skills required to perform proper orthopedic evaluations. Students learn to palpate body and soft tissue structures, and perform active, passive, and resistive range of motion testing, neurological testing, and special ligament tests for the major synovial joints in the body. The body regions that are taught in this course include: Fingers, Hand, Wrist, Forearm, Elbow, Upper Arm, Shoulder, and Spine. Students also learn appropriate documentation strategies for orthopedic evaluations. The evaluation process is rooted in the use of evidence-based practice and students learn the basics in the application of this concept while making clinical decisions. Prerequisite: ATP-511. Co-Requisite: ATP-512L.

#### ATP-512L: Evaluation and Diagnosis of the Upper Kinetic Chain and Spine Lab

1 credits

This lab complements and supports the principles taught in the lecture course. This course encompasses evaluation of the Fingers, Hand, Wrist, Forearm, Elbow, Upper Arm, Shoulder, and Spine. Students will use an electronic medical records (EMR) system. Prerequisite: ATP-511. Co-Requisite: ATP-512.

### ATP-515: Emergency Management for 3 credits Athletic Trainers

This course includes the study of the proper techniques for managing patients with acute or emergent conditions. Students learn to perform a primary and secondary survey, as well as triage medical emergencies. Skills and knowledge instructed in this course include establishing and maintaining an airway, maintaining neutral spine alignment with an athlete wearing protective equipment, wound management, immobilization, management of shock, anaphylaxis, mental health emergencies, transfer techniques including spine boarding, core body temperature, and caring for athletes with systemic conditions. All this content is founded in the development of an Emergency Action Plan. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-515L.

#### ATP-515L: Response to Emergent and 1 credits Immediate Injuries and Illnesses Lab

This lab complements and supports the principles taught in the lecture course. This course encompasses: establishing and maintaining an airway, maintaining neutral spine alignment with an athlete wearing protective equipment, wound management, immobilization, management of shock, anaphylaxis, mental health emergencies, transfer techniques including spine boarding, core body temperature, and caring for athletes with systemic conditions. Prerequisite: Formal acceptance into the MS – Athletic Training program. Co-Requisite: ATP-515.

### ATP-520: Therapeutic Interventions I - 3 credits Therapeutic Modalities

This course is a study of various therapeutic modalities that aid in the healing process of injuries. Students learn the theories of pain relief and management, the phases of the healing process, and the viscoelastic properties of tissue. These concepts are woven into each of the electrophysical agents taught in this course such as manual therapies, electrical stimulation, cryotherapy, thermotherapy, ultrasound, diathermy, LASER, and other contemporary modalities. The course also covers treatment planning, goal setting, and the appropriate prescription of therapeutic agents. Prerequisite: ATP-500. Co-Requisite: ATP-520L.

### ATP-520L: Therapeutic Interventions I - 1 credits Therapeutic Modalities Lab

This lab complements and supports the principles taught in the lecture course. This course encompasses: manual therapies, electrical stimulation, cryotherapy, thermotherapy, ultrasound, diathermy, LASER, and other contemporary modalities. Prerequisite: ATP-500. Co-Requisite: ATP-520.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course covers the specific and applied use of manual therapies and therapeutic exercises. Students are introduced to the principles of rehabilitation, including, exercise prescription, injury prevention programs, clinical evaluation, collecting and analyzing patient-rated outcome measures to make clinical decisions, and developing a plan of care, to include objective return to play criteria. Students in this course are prepared to work with members of the sports medicine team, through interprofessional collaboration, to optimize patient-centered care, function, and return to play. This course has a foundation in the ICF model to guide patient care to address all contextual and personal factors in the rehabilitation process. Prerequisite: ATP-520. Co-Requisite: ATP-521L.

### ATP-521L: Therapeutic Interventions II - 1 credits Rehabilitation Lab

This lab complements and supports the principles taught in the lecture course. This course encompasses the principles of rehabilitation, including exercise prescription, injury prevention programs, clinical evaluation, collecting and analyzing patient-rated outcome measures to make clinical decisions, and developing a plan of care that includes objective return-to-play criteria. Prerequisite: ATP-520. Co-Requisite: ATP-521.

# ATP-522: Therapeutic Interventions III - 3 credits Pharmacology and Advanced Interventions

This course examines current theories and practices of pharmacology as related to athletic training and sports medicine. Students learn about the drugs used to treat musculoskeletal injuries, respiratory conditions, cardiovascular system, GI disorders, metabolic disorders, and infectious diseases. This course also covers the FDA approval process, supplements and banned substances in international sport. The course also examines how to appropriately create a plan of care for a patient utilizing therapeutic modalities, rehabilitation, and pharmacologic interventions.

### ATP-530: Research Methods and Statistics 2 credits for Athletic Trainers

This course introduces the student to statistics and research design in medicine. Students learn how to identify clinical and research problems. The main purpose of the Research Methods and Design and Statistics for Athletic Trainers course is to introduce students to quantitative and qualitative methods for conducting meaningful inquiry and research. Students gain an overview of research formulation, specifically: design, methodology, format, data management, data analysis, and data presentation. The course helps students develop the ability to use this knowledge to become more effective sports medicine researchers. This course also teaches students about: injury and illness surveillance systems and public data sources, incidence and prevalence rates, screening data, and patterns and trends in epidemiology. This course is an introduction to basic public health concepts and will be scaffolded upon later in the program.

#### ATP-540: Biomechanics in Sport

This course prepares students for NASM's corrective exercise specialist credential. Students learn about human movement patterns, foundations in kinesiology, sports biomechanics, static and dynamic postural assessments, assessments for movement, strength, and range of motion, foundations in corrective exercise, and corrective exercise interventions.

### ATP-551C: Clinical Education in Athletic 3 credits Training I

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. Students are assigned to a preceptor who provides supervision daily through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on real patients. The emphasis of this clinical is on developing critical thinking skills, reasonable clinical decision making and clinical competency in emergency response, general medical evaluations, injury prevention strategies, lower extremity evaluations, and therapeutic modalities. Clinical hours: 135.

### ATP-552C: Clinical Education in Athletic 3 credits Training II

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. Students are assigned to a preceptor who provides supervision daily through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on real patients. The emphasis of this clinical is on developing critical thinking skills, reasonable clinical decision making and clinical competency in upper extremity evaluations, orthopedic rehabilitation, and a review of skills from the previous clinical class. Clinical hours: 135.

### ATP-553C: Clinical Education in Athletic 6 credits Training III 6

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. Students are assigned to a preceptor who provides supervision daily through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on real patients. The emphasis of this clinical is on developing critical thinking skills, reasonable clinical decision making, clinical competency, and integration of knowledge and skills from all domains of athletic training. Clinical hours: 270.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course provides a clinical setting in which athletic training students clinically apply and demonstrate proficiency in athletic training skills. Students are assigned to a preceptor who provides supervision daily through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on real patients. The emphasis of this clinical is on developing critical thinking skills, reasonable clinical decision making, clinical competency, and integration of knowledge and skills from all domains of athletic training. Clinical hours: 180.

#### ATP-600C: Immersive Clinical Experience 4 credits

This clinical allows students to experience the totality of care rendered by an athletic trainer. Students are assigned to a preceptor who provides supervision daily through constant visual and auditory interaction, providing feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, or professional) on real patients. Clinical hours: 180.

### ATP-601: Psychosocial Conditions and 2 credits Interventions

This course provides content in the recognition and management of mental health conditions, motivation of the athlete, and self-care strategies for the athletic trainer. This includes skills and knowledge in communication strategies, motivational techniques, appropriate referral strategies, intervention planning and mental health first response. Focus on the development and application of interpersonal communication strategies, motivational techniques, and referral strategies commonly used for psychosocial interventions in athletic training.

# ATP-602: Research in Athletic Training I - 2 credits Proposal and Methods

In this course, learners propose their capstone project. This includes: Problem Statements, a PICO question, Methodology, Review of Relevant Literature, CITI Training, Formal Proposal, and IRB Submission (if applicable). This course culminates into the second research class in preparation for data collection, publications, professional abstract submission, and final capstone presentations.

### ATP-603: Research in Athletic Training II - 2 credits Applied Project/Capstone

In this course, students complete and present their capstone project. This includes: IRB Approval (if applicable), Data Collection, Data Analysis, Completion of Final Project, Dissemination of Results, and Future Research/Directions. This course prepares students to be clinical scholars and disseminate research that is practice-based and relevant to current practice.

### ATP-610: Healthcare Administration and Public Health

This course establishes a framework for health care administration and management, tasks and techniques required in athletic training, health care programs, the health care industry, and interscholastic and intercollegiate athletics. Students assess their personal and professional readiness for management and leadership and acquire skills necessary for effective administration and leadership within the industry. This knowledge and skills include: documentation in EHR/EMRs, leadership concepts, management (human resources, payor systems, budget, grant funding or other income sources), organizational concepts, facility design, scope of practice and legal aspects in sports medicine. This course also builds on the foundations in public health and includes topics such as advocacy groups, group interventions, public education on specific pathologies, population health, regional identification of healthrelated problems, and other advanced public health concepts. This course contains a culminating project that proposes a solution to an identified public health problem.

#### ATP-620: BOC Prep Course 2 credits

This course prepares students to sit for the Athletic Training Board of Certification (BOC) exam. Students examine professional regulations and certification requirements and use practice exam questions to prepare for the certification exam. Students also develop a timeline for preparation for the BOC examination.

### Behavioral Health Science (BHS)

#### BHS-240♦: Group Dynamics and Process 4 credits

This course provides a broad understanding of group development stages, group dynamics, group counseling theories, and ethical standards pertaining to group work. In addition, this course explores theoretical approaches to group work. The course also addresses the growth and development of group members.

#### BHS-240XV: Group Dynamics and Process 4 credits

This course provides a broad understanding of group development stages, group dynamics, group counseling theories, and ethical standards pertaining to group work. In addition, this course explores theoretical approaches to group work. The course also addresses the growth and development of group members.

#### BHS-320<sup>∆</sup>: Ethics of Behavioral Health Science 4 credits

This writing-intensive course provides a broad understanding of ethics, legal standards, and responsibilities in behavioral health. Students explore basic ethical concepts, legislation, and current trends in behavioral health ethics. This course pays special attention to technology and its effects on lawmaking and ethics in behavioral health. Important goals of this course are to help students develop a comprehensive understanding of the history and current application of ethics in the behavioral health field.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BHS-320HN<sup>t</sup>: Ethics of Behavioral Health Science 4 credits

This writing-intensive course provides a broad understanding of ethics, legal standards, and responsibilities in behavioral health. Students explore basic ethical concepts, legislation, and current trends in behavioral health ethics. This course pays special attention to technology and its effects on lawmaking and ethics in behavioral health. Important goals of this course are to help students develop a comprehensive understanding of the history and current application of ethics in the behavioral health field.

### BHS-330: Cultural and Social Diversity in 4 credits Behavioral Health

This course provides a comprehensive foundation through exploring the content areas of cultural diversity, social justice, and religious and spiritual values. Examination of these areas strives to offer an overarching framework to guide students and gain perspectives for working with multicultural populations in the behavioral health field. This course assists students with developing knowledge and application of cultural diversity, cultural competency, and the importance of self-awareness, social justice, and advocacy. In addition, this course provides students a blended approach of the beliefs and values associated with religion and spirituality as a component of cultural competency.

# BHS-350: Report Writing, Research, and 4 credits Information Literacy in Behavioral Health

This course provides a comprehensive understanding of the various documentation styles used in the behavioral health field. Students critically examine evidence-based research in the field of behavioral health. The course offers an introduction to conducting applied clinical research.

#### BHS-420<sup>/♦</sup>: Human Development 4 credits

This course provides an understanding of the nature and needs of individuals across the life-span development. This course covers physical, cognitive, and socioemotional development across various points in human development. Additionally, students learn about the influence of spiritual and moral beliefs throughout the life span.

#### BHS-420HN<sup>‡</sup>: Human Development 4 credits

This course provides an understanding of the nature and needs of individuals across the life-span development. This course covers physical, cognitive, and socioemotional development across various points in human development. Additionally, students learn about the influence of spiritual and moral beliefs throughout the life span.

#### BHS-430\*: Introduction to Family Dynamics 4 credits

This course introduces the historical and theoretical perspectives of family dynamics and systems. Topics include roles, communication styles, boundaries, generational patterns, cultural influences, and couples and parenting dynamics. Skills and modalities relevant to working with families in the behavioral health field are explored.

#### BHS-430HN<sup>‡</sup>: Introduction to Family Dynamics 4 credits

This course introduces the historical and theoretical perspectives of family dynamics and systems. Topics include roles, communication styles, boundaries, generational patterns, cultural influences, and couples and parenting dynamics. Skills and modalities relevant to working with families in the behavioral health field are explored.

#### BHS-440: Understanding Trauma 4 credits

This course offers an overview of various types of trauma and effects of traumatic experiences within the physical, emotional, sociological, cognitive, and spiritual domains of a human being. It studies the dynamics of trauma throughout the human life-span development. It offers a brief overview of trauma, informed care assessment and treatment, and ethics associated with working with trauma victims.

### BHS-450: Childhood and Adolescence 4 credits Disorders

This course provides students with an understanding of the biological, emotional, and environmental aspects that impact childhood and adolescent development. The course addresses assessment, diagnosis, and intervention as it relates to childhood and adolescent disorders. Students examine the classification and epidemiology of anxiety disorders, mood disorders, conduct problems, ADD/ADHD, language and learning, intellectual disabilities, autism spectrum disorders, schizophrenia, and other childhood- and adolescence-related disorders according to the DSM. Prerequisite: BHS-420.

# BHS-455\*: Introduction to Childhood and Adolescent Physical and Behavioral Health

This course provides a broad understanding of the components and theories related to childhood and adolescent physical and behavioral health. Also covered are the modalities that can be utilized to promote best practice approaches in behavioral health treatment of both children and adolescents. Students gain the necessary knowledge to advance in the Childhood and Adolescence Disorders emphasis program. Prerequisite: BHS-420.

### BHS-460: Introduction to Couples and Family 4 credits Systems

This course introduces the historical and theoretical perspectives of couples and family systems. Topics include a review of family systems, including roles within couples and family systems. Also covered are couple and family dynamics, the developmental stages of couples, and characteristics of successful couples and families. Additionally, the course explores the impact of substance use, mental illness, and culture on couple and family dynamics. Treatment modalities in working with couples and families are explored. Prerequisite: PCN-100.

## BHS-465: Marriage and Family Ethical and 4 credits Legal Issues

This course examines ethical and legal considerations encountered in marital and family support roles. Special emphasis is placed on developing critical insights into handling sensitive family dynamics, legal obligations, and ethical dilemmas. Prerequisites: BHS-320 and BHS-430.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### BHS-470: Introduction to Trauma-Informed 4 credits Care

This course offers an overview of the six key principles of the trauma-informed care approach. The purpose of the course is to develop knowledge and awareness about safety building, trustworthiness, peer support networking, connectedness, empowerment, cultural, historical, spiritual, and gender issues. In addition, the course addresses recovery, support systems, resiliency, and an integrated approach when working with trauma victims

### BHS-475: Overview of Assessment and 4 credits Treatment of Trauma

This course offers an overview of the evidence-based screening and assessment tools utilized in assessing the impact of trauma. In addition, this course will cover best practice approaches to trauma treatment. Prerequisite: BHS-470.

### BHS-480: Infancy and Early Childhood 4 credits Development 4

This course provides a comprehensive overview of the cognitive, physical, and socioemotional developmental stages and sensitive periods of early human development. The course addresses the critical influence the care-getting environment has on brain development and how relationships change the structure of the brain both positively and negatively. The stages of human attachment and a brief overview of styles of attachment as they relate to development throughout the lifespan are also reviewed. Additionally, the course addresses the effects of prenatal maternal care, environment, and premature birth on developmental stages. Students understand how culture and socioeconomic status affects development.

### BHS-485: Infancy and Early Childhood 4 credits Disorders and Assessment 4

This course provides an overview of a variety of assessments commonly used to diagnose disorders in early childhood. Students learn the importance of ongoing assessment, assessment in a variety of settings, and the importance of the caregiver-child relationship in assessment. Students are provided an overview of common disorders found in early childhood, and how the DC: 0-5 is used to accurately identify early childhood disorders. Students understand the role of cultural and familial influence on assessment and diagnosis. Prerequisite: BHS-480.

#### BHS- $490^{\Omega}$ : Professional Capstone Project 4 credits

The capstone project is a culmination of the learning experiences while a student is within the behavioral health science program at Grand Canyon University's College of Humanities and Social Sciences. Students prepare a written proposal for a community-based behavioral health organization related to the student's specific area of focus. The proposal includes the name, geographical location, identified service gap, target populations, types of service/treatments, potential challenges, ethical considerations, and supervision/oversight considerations. The professional capstone project proposal needs to reflect synthesis and integration of course content. This capstone course needs to be completed at the end of program. Prerequisite: BHS-350.

### Bible (BIB)

#### BIB-100♦: Bible Survey

4 credits

This course surveys the text of the Bible with emphasis on the overarching biblical narrative, the gospel of Jesus Christ, and God's Kingdom.

#### BIB-106\*: Old Testament Survey 4 credits

This course introduces the text of the Old Testament with emphasis on the biblical narrative, genres, major historical periods, and theological themes.

#### BIB-107<sup>♦</sup>: New Testament Survey 4 credits

This course introduces the text of the New Testament with emphasis on the biblical narrative, genres, major historical periods, and theological themes.

#### BIB-350♦: Pentateuch 4 credits

This course is an exegetical study of the first major division of the Old Testament with an emphasis on the application of hermeneutical principles. The class focuses on the interpretation of selected passages from the Pentateuch. Attention is also given to textual issues and major theological themes. Prerequisites: BIB-106 and BIB-355.

# BIB-355<sup>△/•</sup>: Biblical Interpretation and 4 credits Application

This writing-intensive course helps equip students to understand and use basic principles of biblical hermeneutics, including an introduction to the nature of Bible interpretation and the application to contemporary issues. The majority of the course focuses on developing practical procedures and step-by-step skills in exegesis of Scripture. Prerequisite: BIB-106.

#### BIB-360<sup>♦</sup>: Gospels and Acts 4 credits

This course is an exegetical study of the initial books of the New Testament with an emphasis on the application of hermeneutical principles. The class focuses on the interpretation of selected passages from the Gospels and Acts. Attention is also given to textual issues and major theological themes. Prerequisites: BIB-107 and BIB-355.

#### BIB-365<sup>♦</sup>: Old Testament Writings 4 credits

This course addresses the historical books of the Old Testament (Joshua, Judges, Ruth, Samuel, Kings, Esther, Ezra, and Nehemiah), giving special attention to the text with regard to its politics, culture, religions, geographical setting, literary genre, and theological themes. Prerequisite: BIB-355.

### BIB-370♥: Hebrew Poetical and Wisdom 4 credits Literature

This course is a study of Hebrew poetry and wisdom literature in the Old Testament. Attention is given to the development of the literature as well as an investigation of each book's composition and theological themes. Prerequisite: BIB-355.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **BIB-380**♦: Pauline Epistles

4 credits

This course provides an overview of the Apostle Paul's letters to the early New Testament churches. Special attention is given to the nature of Paul's ministry; the theological, social, and practical issues he addressed; and how these texts are relevant for faithful Christian living. Prerequisite: BIB-355.

#### BIB-455♦: Hebrew Prophets 4 credits

This course offers a critical study of the pre-exilic, exilic, and post-exilic prophets, with special consideration given to the social, political, and religious conditions of their times. Attention is given to the ministry and message of the prophets, in their day and today. Prerequisite: BIB-355.

#### BIB-465<sup>♦</sup>: The General Epistles 4 credits

This course covers Hebrews, James, 1 and 2 Peter, 1-3 John, and Jude as they relate to the theological and ethical content of Christianity. Students examine the nature, message, and historical context of the books. Prerequisite: BIB-355.

#### BIB-475<sup>♦</sup>: Johannine Literature 4 credits

This course provides an overview of the New Testament texts of the Apostle John. Special attention is given to the nature of John's ministry; the theological, social, and practical issues he addressed; and how these texts are relevant for faithful Christian living. Prerequisite: BIB-355.

#### BIB-501: Old Testament Foundations 4 credits

This course surveys the text and historical background of the Old Testament with an introduction to hermeneutics and the proper interpretation of the books of the Old Testament.

#### BIB-501GAR: Old Testament Foundations 4 credits

This course surveys the text and historical background of the Old Testament with an introduction to hermeneutics and the proper interpretation of the books of the Old Testament.

#### **BIB-502:** New Testament Foundations 4 credits

This course surveys the text and historical background of the New Testament with an introduction to hermeneutics and the proper interpretation of the books of the New Testament.

#### BIB-502GAR: New Testament Foundations 4 credits

This course surveys the text and historical background of the New Testament with an introduction to hermeneutics and the proper interpretation of the books of the New Testament.

### BIB-610: Old Testament Exegesis: Prophets 4 credits and Writings

This course is an exegetical study of the second and third major divisions of the Old Testament. Special attention is given to key theological themes. Emphasis is also placed on the interpretation of selected passages from the prophets and writings and the application of elementary Hebrew language skills and interpretive tools. Prerequisite: HEB-501.

### BIB-611: Old Testament Exegesis: Pentateuch

4 credits

This course is an exegetical study of the first major division of the Old Testament. Special attention is given to key theological themes. Emphasis is also placed on the interpretation of selected passages from the Pentateuch and the elementary Hebrew language skills and interpretive tools. Prerequisite: HEB-501.

### BIB-620: New Testament Exegesis: Gospels 4 credits and Acts

This course is an exegetical study of the initial books of the New Testament. Special attention is given to key theological themes. Emphasis is placed on the interpretation of selected passages from the Gospels and Acts and the application of elementary Greek language skills and interpretive tools. Prerequisite: GRK-501.

### BIB-621: New Testament Exegesis: Epistles 4 credits and Revelation

This course is an exegetical study of the latter books of the New Testament. Special attention is given to key theological themes. Emphasis is placed on the interpretation of selected passages from the New Testament epistles and the book of Revelation as well as the application of elementary Greek language skills and interpretive tools. Prerequisite: GRK-501.

#### BIB-650: Biblical Hermeneutics 4 credits

This course is a study of the basic principles of evangelical biblical interpretation, exegesis, and application, especially in the context of ministry, including an introduction to the use of biblical language tools.

#### BIB-650GAR: Biblical Hermeneutics 4 credits

This course is a study of the basic principles of evangelical biblical interpretation, exegesis, and application, especially in the context of ministry, including an introduction to the use of biblical language tools.

### Biology (BIO)

#### BIO-130\*: Introduction to Life Sciences I 4 credits

This course introduces students to the concepts of the scientific method and critical thinking in making observations and formulating hypotheses. Students learn about the structure of cells, DNA replication and gene expression, metabolic pathways, cell cycle, and cell division. The final section of the class includes an overview of animal form and function, organs and organ systems, and physiological processes, with an emphasis on human systems.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### BIO-155\*: Introduction to Anatomy and Physiology

3 credits

A study of the basic structure and function of the major systems of the human body, this course focuses on an in-depth exploration of the musculoskeletal and neurological systems for athletic training, health, and exercise science majors. This course also compares normal and abnormal function for more comprehensive understanding of the human body. Co-requisite: BIO-155L.

## BIO-155L\*: Introduction to Anatomy and 1 credits Physiology Lab

This lab is designed to complement and support the principles taught in BIO-155. Upon successful completion of the course, students will be able to identify and describe functions, structures, and classifications of the skeletal, muscular, and organ systems along with related disorders. Co-requisite: BIO-155.

#### BIO-181<sup>♦</sup>: General Biology I 3 credits

This course is a study of biological concepts emphasizing the interplay of structure and function, particularly at the molecular and cellular levels of organization. Cell components and their duties are investigated, as well as the locations of cellular functions within the cell. The importance of the membrane is studied, particularly its roles in controlling movement of ions and molecules and in energy production. The effect of genetic information on the cell is followed through the pathway from DNA to RNA to protein. Co-requisite: BIO-181L.

#### BIO-181L\*: General Biology I - Lab 1 credits

This lab course is designed to reinforce principles learned in BIO-181 through experiments and activities which complement and enhance understanding of macromolecules, cell membrane properties, cellular components, and their contribution to cell structure and function. Assignments are designed to relate cellular processes such as metabolism, cell division, and the flow of genetic information to cell structure. Co-requisite: BIO-181.

#### BIO-181LXV: General Biology I - Lab 1 credits

This lab course is designed to reinforce principles learned in BIO-181 through experiments and activities which complement and enhance understanding of macromolecules, cell membrane properties, cellular components, and their contribution to cell structure and function. Assignments are designed to relate cellular processes such as metabolism, cell division, and the flow of genetic information to cell structure. Co-requisite: BIO-181.

#### BIO-181XV: General Biology I 3 credits

This course is a study of biological concepts emphasizing the interplay of structure and function, particularly at the molecular and cellular levels of organization. Cell components and their duties are investigated, as well as the locations of cellular functions within the cell. The importance of the membrane is studied, particularly its roles in controlling movement of ions and molecules and in energy production. The effect of genetic information on the cell is followed through the pathway from DNA to RNA to protein. Co-requisite: BIO-181L.

#### BIO-182<sup>♦</sup>: General Biology II

3 credits

This course is a study of biological concepts emphasizing the interplay of structure and function at the molecular, cellular, and organismal levels of organization. Relationships of different life forms are studied, noting characteristics and general lifecycles of the different types of organisms, including bacteria, archaea, and eukaryotes. Plant structure, function, and reproduction are studied, as well as photosynthesis and plant nutrition. Ecological principles are discussed, including organism interactions at the various ecological levels. Principles of conservation are introduced. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-182L.

#### BIO-182L<sup>♦</sup>: General Biology II - Lab 1 credits

This lab is designed to reinforce principles learned in BIO-182. Organisms are examined to recognize similarities and differences among different types. Plant structure and processes, including photosynthesis and water transport, are investigated through observation and activities. Concepts of ecology are explored through study of species interactions projects and other activities. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-182.

#### BIO-191\*: Applied Anatomy and Physiology I 3 credits

This course examines the structure and function of the human body and mechanisms of homeostasis. This portion includes the study of cells; tissues; genetics; and the integumentary, skeletal, muscular, and nervous systems. Co-Requisite: BIO-191L.

### BIO-191L\*: Applied Anatomy and Physiology I 1 credits Lab

This laboratory course examines the structure and function of the human body and mechanisms of homeostasis, complementing the lecture portion with a focus on anatomy. This portion includes the study of cells; tissues; and the integumentary, skeletal, muscular, and nervous systems. Co-Requisite: BIO-191.

#### BIO-192\*: Applied Anatomy and Physiology II 3 credits

This course examines the structure and function of the human body and mechanisms of homeostasis. This portion includes the study of metabolism; energetics; fluid, electrolyte and acid-base balance; and the endocrine, hematologic, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIO-191. Co-Requisite: BIO-192L.

#### BIO-192L\*: Applied Anatomy and Physiology II 1 credits Lab

This laboratory course examines the structure and function of the human body and mechanisms of homeostasis, complementing the lecture portion with a focus on anatomy. This portion includes the study of the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems. Prerequisite: BIO-191L. Co-Requisite: BIO-192.

#### BIO-195: Fundamental Microbiology 3 credits

This course provides an introduction to the principles and applications of microbiology, including the study of microorganisms and their relationships. Students develop an understanding of microbial cell structure and function, microbial genetics, pathologies, and other selected applied areas. Co-Requisite: BIO-195L.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BIO-195L: **Fundamental Microbiology Lab** 1 credits

The laboratory accompanying Fundamental Microbiology supports further learning surrounding principles gained in the lecture course. Students develop fundamental knowledge of microbiological laboratory techniques and application to realworld situations. Co-Requisite: BIO-195.

#### BIO-201\*: **Human Anatomy and Physiology I**

This course is the first in a two-course sequence examining the structure and function of the human body and mechanisms for maintaining homeostasis within it. This portion includes the study of cells; tissues; genetics; and the integumentary, skeletal, muscular, and nervous systems. Co-Requisite: BIO-201L.

#### BIO-201L<sup>♦</sup>: Human Anatomy and Physiology I: 1 credits Lab

This course is a systematic study of human gross anatomy and function. Topics include the integumentary, skeletal, muscular, and nervous systems. Co-Requisite: BIO-201.

### BIO-201LXV: Human Anatomy and Physiology I: 1 credits

This course is a systematic study of human gross anatomy and function. Topics include the integumentary, skeletal, muscular, and nervous systems. Co-Requisite: BIO-201.

#### BIO-201XV: Human Anatomy and Physiology I 3 credits

This course is the first of a two-course sequence examining the structure and function of the human body and mechanisms for maintaining homeostasis within it. This portion includes the study of cells; tissues; genetics; and the integumentary, skeletal, muscular, and nervous systems. Co-requisite: BIO-201L.

#### BIO-202\*: Human Anatomy and Physiology II 3 credits

This course is the second in a two-course sequence examining the structure and function of the human body and mechanisms for maintaining homeostasis within it. This portion includes the study of immunity; metabolism; energetics; fluid, electrolyte and acid-base balance; and the endocrine, hematologic, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Prerequisites: BIO-201 and BIO-201L. Co-Requisite: BIO-202L.

#### BIO-202L\*: Human Anatomy and Physiology 1 credits II-Lab

This course is a systematic study of human gross anatomy and function. Topics include the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems. Prerequisites: BIO-201 and BIO-201L. Co-Requisite: BIO-202.

#### **BIO-202LB:** Human Anatomy and Physiology 1 credits II-Lab

This course is a systematic study of human gross anatomy and function. Topics include the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems.

#### BIO-205**♦**: Microbiology

This course provides an introduction to the principles and

3 credits

applications of microbiology and a study of the general characteristics of microorganisms, their activities, and their relationship to humans. Students develop understanding of microbial cell structure and function, microbial genetics, related pathologies, immunity, and other selected applied areas. Corequisite: BIO-205L.

#### BIO-205L\*: Microbiology - Lab 1 credits

The laboratory section of BIO-205 supports further learning surrounding principles gained in the lecture course. Students develop fundamental skills in microbiological laboratory techniques, microscopy methodologies, and the isolation and identification of pathogenic microorganisms. Co-requisite: BIO-

#### BIO-210<sup>♦</sup>: **Anatomy and Physiology for** 3 credits Science Majors I

This course examines human anatomy and physiology with an emphasis on function and homeostasis of the following areas: tissues, integument, skeletal system, muscular system, and the nervous system. Case studies are utilized to reinforce physiological processes. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-210L.

#### BIO-210L\*: Anatomy and Physiology for 1 credits Science Majors I Lab

This course involves study of the gross anatomy and function of the skeletal, muscular, and nervous systems. This experiential lab involves an advanced exploration of concepts utilizing human cadavers and other supplemental materials. Co-Requisite: BIO-

#### BIO-211\*: Anatomy and Physiology for 3 credits Science Majors II

This course examines human anatomy and physiology with an emphasis on function and homeostasis of the following systems: endocrine, cardiovascular, respiratory, digestive, urinary and reproductive. Case studies are utilized to reinforce physiological processes. Prerequisites: BIO-210 and BIO-210L. Co-Requisite: BIO-211L.

#### BIO-211L\*: Anatomy and Physiology for 1 credits Science Majors II Lab

This course involves study of the gross anatomy and functions of the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems. This experiential lab involves an advanced exploration of concepts utilizing human cadavers and other supplemental materials. Prerequisite: BIO-210L. Co-Requisite: BIO-211.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BIO-215<sup>♦</sup>: General Microbiology

3 credits

This course, designed for Science majors, introduces the principles of microbiology and the study of the general characteristics, growth, and diversity of microorganisms. Topics include microbial cell structure and function, bacterial genetics, immune response and immunization, physical and chemical control of microorganisms, specific characteristics and mechanisms of antimicrobial medications, and microbial diseases with emphasis on pathogenesis, epidemiology and treatment. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-215L.

#### BIO-215L<sup>♦</sup>: General Microbiology Lab 1 credits

The General Microbiology laboratory supports further learning surrounding principles gained in the lecture. Students develop fundamental skills in microbiological laboratory techniques, microscopy methodologies, molecular methods of detection, and the isolation and identification of pathogenic microorganisms. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-215.

#### BIO-220<sup>♦</sup>: Environmental Science 4 credits

This course examines the risks and the environmental impact of human behavior and population growth on natural resources. Emphasis is placed on a holistic approach to environmental science using hands-on exercises, environmental surveys, and class discussions to reinforce scientific principles.

#### BIO-250<sup>♦</sup>: Introduction to Life Sciences II 4 credits

This course introduces students to the relevance and impact of scientific endeavors/advances/processes on human populations, society, and the environment. Natural phenomena and relationships between scientific disciplines and technology provide foundational knowledge for students to critically analyze the interactions between humans and their world. Prerequisite: BIO-130.

#### BIO-253♦: Emergency Care for Acute Injuries 4 credits

This course includes the study of the proper techniques in caring for a patient by recognizing catastrophic and emergent conditions and treating appropriately. Students learn establishing and maintaining an airway, maintaining neutral spine alignment with an athlete wearing protective equipment, wound management, immobilization, transfer techniques including spine boarding, core body temperature, as well as caring for athletes with conditions such as asthma and diabetes. Students are prepared to complete Emergency Cardiac Care (ECC) certification upon completion of the course. Prerequisites: BIO-155 and BIO-155L, or BIO-202 and BIO-202L, or BIO-211 and BIO-211L.

#### BIO-257<sup>\*</sup> Principles of Genetics 4 credit

This course explores the principles of Mendelian and molecular genetics, focusing on the relationship of inheritance to biological function at multiple levels: molecular, cellular, and with multicellular organisms. By examining the multiple levels of genetic organization, students will master concepts related to patterns of inheritance, genetic relationships across species, and biotechnological applications. Prerequisites: BIO-181 and BIO-181L.

#### **BIO-257HN**<sup>‡</sup>: Principles of Genetics

4 credits

This course explores the principles of Mendelian and molecular genetics, focusing on the relationship of inheritance to biological function at multiple levels: molecular, cellular, and with multicellular organisms. By examining the multiple levels of genetic organization, students will master concepts related to patterns of inheritance, genetic relationships across species, and biotechnological applications. Prerequisites: BIO-181 and BIO-181L.

### BIO-316V\*: Pharmacology for Health Care 3 credits Professionals

The content of this course is designed to broaden the health care professional's knowledge of pharmacology. Topics include types and effects of drugs, including diagnostic imaging contrast media. The pharmacology, pharmacokinetics, and pharmacodynamics of drugs commonly used in ancillary health care are presented. Conscious sedation, adverse reactions, and patient care under sedation are also included.

### BIO-317V<sup>∆</sup>•: Science Communication & 3 credits Research

This writing intensive course focuses on the use of scientific research as a basis for understanding and improving clinical practice. Topics include differentiation between various forms of written communication, utilizing former research to support a position and/or develop new research proposals, organizing and writing research papers, and producing visual aids for oral presentations. Emphasis in this course is on the critical review of research studies and their applications to clinical practice. An overview of evidence-based practice is provided. Prerequisite: HLT-312.

#### BIO-319<sup>/♠</sup>: Applied Nutrition 4 credits

This course provides a foundation of basic nutrition theory, with a focus on assessment, food components, exercise, nutrition, weight control, community programs, and resources. Application of these aspects is used to promote health and prevent illness.

#### BIO-319HN<sup>/♠</sup>: Applied Nutrition 4 credits

This course provides a foundation of basic nutrition theory, with a focus on assessment, food components, exercise, nutrition, weight control, community programs, and resources. Application of these aspects is used to promote health and prevent illness.

#### BIO-320<sup>♦</sup>: Fundamentals of Ecology 3 credits

A study of plants and animals as individuals and in communities in relation to their physical and biological environment. Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-320L.

#### BIO-320L♦: Fundamentals of Ecology-Lab 1 credits

A laboratory course designed to complement and support the principles being learned in Biology (BIO-320). Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-320.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course is designed to bridge the gap between basic preclinical science courses and the clinical requirements of health care professionals. Critical thinking skills are enhanced with case studies that integrate nutritional and pharmacological concepts. Systematic studies focus on the etiology, pathogenesis, and clinical manifestations associated with various altered health states and diseases. Upon completion of this course, students should be able to correctly discuss a variety of disease states with health care professionals while addressing the following questions: How does a change in normal physiology cause the signs and symptoms of a given condition or disease? How do these physiological effects correlate to mechanisms of accurate diagnoses? Why is one treatment method chosen over another? How do different systems intricately interrelate to cause a clinical picture? This course does not substitute for BIO-483 or fulfill the Biology major requirement for pathophysiology. Prerequisites: BIO-201 and BIO-202.

#### BIO-322HN<sup>≠</sup>•: Applied Pathophysiology 4 credits

This course is designed to bridge the gap between basic preclinical science courses and the clinical requirements of health care professionals. Critical thinking skills are enhanced with case studies that integrate nutritional and pharmacological concepts. Systematic studies focus on the etiology, pathogenesis, and clinical manifestations associated with various altered health states and diseases. Upon completion of this course, students should be able to correctly discuss a variety of disease states with health care professionals while addressing the following questions: How does a change in normal physiology cause the signs and symptoms of a given condition or disease? How do these physiological effects correlate to mechanisms of accurate diagnoses? Why is one treatment method chosen over another? How do different systems intricately interrelate to cause a clinical picture? This course does not substitute for BIO-483 or fulfill the Biology major requirement for pathophysiology. Prerequisites: BIO-201 and BIO-202.

## BIO-326: Interdisciplinary Applications of 4 credits Biology

Course Description: Interdisciplinary Applications of Biology introduces students to the intersections of biology with other fields of study, i.e. archaeology, paleontology, geology, psychology, and anthropology. Focus will be on how these disciplines intersect in research, practice, and application and include many real-world examples. Prerequisites: BIO-182 and BIO-182L.

#### BIO-328: Animal Behavior 3 credits

This course examines the complexities of animal behaviors and how we study them. Specifically, students will develop an understanding of how animals learn and communicate with each other, as well as other behaviors to help them survive and thrive in their natural habitats, by integrating concepts, theories, and models of the discipline with behavioral analyses and an historical perspective. Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-328L.

The laboratory section of Animal Behavior reinforces and expands learning of principles introduced in the lecture course. Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-328.

#### BIO-329<sup>∆</sup>: Animal Nutrition 4 credits

This writing intensive course focuses on digestive anatomy of various domestic species and the classes of nutrients including their digestion, use and sources. Prerequisite: CHM-115, CHM-115L, BIO-364.

#### BIO-330<sup>/♠</sup>: Pathophysiology and Pharmacology 4 credits

This course introduces the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Students also learn basic principles of pharmacotherapeutics and major classes of drugs used to treat disease. Emphasis is on clinically relevant terminology required to support accurate and effective communication in the health information management field. Prerequisites: BIO-192 and BIO-192L, or BIO-202 and BIO-202L, or BIO-211 and BIO-211L.

#### BIO-330HN\*: Pathophysiology and Pharmacology 4 credits

This course introduces the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Students also learn basic principles of pharmacotherapeutics and major classes of drugs used to treat disease. Emphasis is on clinically relevant terminology required to support accurate and effective communication in the health information management field. Prerequisites: BIO-192 and BIO-192L.

#### BIO-333<sup>\*</sup> • : Molecular and Cellular Biology 4 credits

This course is a comprehensive study of the composition, structure, energetics, regulation, and growth of eukaryotic cells. Other topics include the essential processes of cells including the correlation of structure and function at the organelle and cellular levels. As well as, principles of molecular biology including recombinant DNA technology and other approaches and method used to investigate cell structure, development, chromosome organization, gene expression, and gene regulation. Prerequisites: BIO-181 and BIO-181L, and one of the following combinations: BIO-205 and BIO-205L, BIO-215 and BIO-215L, or CHM-113 and CHM-113L.

#### BIO-333HN<sup>/♠</sup>: Molecular and Cellular Biology 4 credits

This course is a comprehensive study of the composition, structure, energetics, regulation, and growth of eukaryotic cells. Other topics include the essential processes of cells including the correlation of structure and function at the organelle and cellular levels. As well as, principles of molecular biology including recombinant DNA technology and other approaches and method used to investigate cell structure, development, chromosome organization, gene expression, and gene regulation. Prerequisites: BIO-181 and BIO-181L, and one of the following combinations: BIO-205 and BIO-205L, BIO-215 and BIO-215L, or CHM-113 and CHM-113L.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **BIO-335:** Medical Terminology

2 credits

This course covers the language of medicine that will be used as a foundation for understanding upper level undergraduate and graduate level courses to follow. It will include pronunciation, definition, usage and origins of medical terms. Medical terms presented will be used to identify signs, symptoms, diagnoses, and treatment options for selected pathologies. With these skills the student will be able to effectively interpret and communicate in a healthcare setting. Prerequisite: BIO-192 or BIO-202 or BIO-211 or BIO-364.

#### BIO-339: Molecular Biology 4 credits

This course examines the activity within and between cells at the molecular level. The relationship between structure and function is examined within the genome through an analysis of its impact on proteins, gene expression, and gene regulation. The application of polymerase chain reaction, DNA sequencing, and recombinant DNA techniques are discussed within the context of real-world application. Prerequisites: BIO-181 and BIO-181L, and one of the following combinations: BIO-201 and BIO-201L, or BIO-210 and BIO-210L.

### BIO-342<sup>t</sup>: Analysis of Biological 4 credits Diversification

This courses introduces students to biological change at multiple levels of life, including molecular, cellular, organismal, and population. Students will gain an understanding of the mechanisms of change and how they work, as well as the patterns that result by examining molecular and organismal data, geological time, fossil evidence, and the history of Earth and man. Prerequisites: BIO-181 and BIO-181L.

# BIO-342HN<sup>i</sup>: Analysis of Biological 4 credits Diversification

This courses introduces students to biological change at multiple levels of life, including molecular, cellular, organismal, and population. Students will gain an understanding of the mechanisms of change and how they work, as well as the patterns that result by examining molecular and organismal data, geological time, fossil evidence, and the history of Earth and man. Prerequisites: BIO-181 and BIO-181L.

#### BIO-343: Neurobiology 4 credits

This course focuses on fundamental concepts of the nervous system, including anatomy and function at various levels of analysis. Topics include key structures, neural development, neural communication, and neural systems, as well as select neuropathologies. Prerequisites: BIO-211 and BIO-211L.

#### BIO-358: Immunology 4 credits

This course provides an in depth study of the principles and applications of immunology and of the general characteristics of the innate and adaptive immune systems. Students develop understanding of pattern recognition receptors, antigen presentation, B and T cell responses, immunity, and other selected areas. Prerequisites: BIO-181 or BIO-201 or BIO-210, and BIO-205 or BIO-215.

#### BIO-360<sup>♦</sup>: Medical Physiology

3 credits

This course focuses on the normal function of human cells, tissues, and organ systems. Emphasis is placed on the interconnections and biochemical functions between systems of the body and maintenance of homeostasis. Minor emphasis is placed on the dysfunctions and resulting pathologies.

Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-360L.

#### BIO-360L<sup>♦</sup>: Medical Physiology - Lab 1 credits

This course involves the exploration of normal function of human cells, tissues, and organ systems through hands-on laboratory experimentation. Students develop a deeper understanding of the materials learned in BIO-360 using simulation software for human functions, systems, and pathologies. Prerequisites: BIO-181 and BIO-181L. Co-Requisite: BIO-360.

#### BIO-364<sup>♦</sup>: Vertebrate Physiology 4 credits

This course covers the functions of cells, organs, and systems of vertebrates. Prerequisite: BIO-182, BIO-182L.

#### BIO-415: Vertebrate Zoology 3 credits

This course is a study of vertebrates, including fish, amphibians, reptiles, birds, and mammals. By integrating their history, morphology, physiology, ecology, and behavioral adaptations, students will develop a greater understanding of vertebrates and how they survive effectively in their natural habitats.

Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-415L.

#### BIO-415L: Vertebrate Zoology Lab 1 credits

The laboratory section of Vertebrate Zoology reinforces and expands learning of principles introduced in the lecture course. Prerequisites: BIO-182 and BIO-182L. Co-Requisite: BIO-415.

#### BIO-420<sup>‡</sup>: Conservation Biology 4 credits

Conservation biology systematically and scientifically studies biological diversity and the events and processes that affect the maintenance, loss, and recovery of biological diversity. This courses delves into the concepts and theories behind biological diversity and environmental conservation. As an interdisciplinary field, students will also consider perspectives from ecology, economics, psychology, sociology, and financing. Prerequisites: BIO-320 and BIO-320L.

#### BIO-420HN<sup>t</sup>: Conservation Biology 4 credits

Conservation biology systematically and scientifically studies biological diversity and the events and processes that affect the maintenance, loss, and recovery of biological diversity. This courses delves into the concepts and theories behind biological diversity and environmental conservation. As an interdisciplinary field, students will also consider perspectives from ecology, economics, psychology, sociology, and financing. Prerequisites: BIO-320 and BIO-320L.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BIO-440<sup>/♦</sup>: Body Fluid and DNA Analysis

4 credits

The content of this lecture/laboratory course is designed to equip learners with a strong background in molecular biology as it applies to serology and forensic DNA analysis. The identification of body fluids pertinent to forensic science, with a focus on saliva, blood, and semen, is introduced. Past and present theories, methods, and techniques used in the analysis of forensic DNA evidence are addressed. DNA profiling of various fluids and tissues of forensic interest is included. Laboratory work practicing various serology and STR analysis techniques provides hands-on experience. Key components of QC/QA are featured with reference to FBI, ANAB, and ISO guidelines. Prerequisites: CHM-360, CHM-360L, and BIO-457.

#### BIO-440HN<sup>/♦</sup>: Body Fluid and DNA Analysis 4 credits

The content of this lecture/laboratory course is designed to equip learners with a strong background in molecular biology as it applies to serology and forensic DNA analysis. The identification of body fluids pertinent to forensic science, with a focus on saliva, blood, and semen, is introduced. Past and present theories, methods, and techniques used in the analysis of forensic DNA evidence are addressed. DNA profiling of various fluids and tissues of forensic interest is included. Laboratory work practicing various serology and STR analysis techniques provides hands-on experience. Key components of QC/QA are featured with reference to FBI, ASCLD, and ISO guidelines. Prerequisites: BIO-457, CHM-360 and CHM-360L.

#### BIO-457<sup>△/</sup>•: Genetics 4 credits

This writing intensive course provides a comprehensive examination of the principles of heredity and variation, including Mendelian, molecular, and population genetics. Students explore topics such as gene mapping, DNA structure and replication, population genetics, and molecular change. Prerequisites: BIO-181 and BIO-181L, and one of the following: BIO-205, BIO-215, BIO-333, BIO-339, or CHM-115.

### BIO- Genetics 4 credits $457\text{HN}^{\triangle/\Phi}$ :

This writing intensive course provides a comprehensive examination of the principles of heredity and variation, including Mendelian, molecular, and population genetics. Students explore topics such as gene mapping, DNA structure and replication, population genetics, and molecular change. Prerequisites: BIO-181 and BIO-181L, and one of the following: BIO-205, BIO-215, BIO-333, BIO-339, or CHM-115.

### BIO- Honors Genetics 4 credits 458HN<sup>∆/♠</sup>:

This writing intensive course provides a comprehensive examination of the principles of heredity and variation, including Mendelian, molecular, and population genetics. Students explore topics such as gene mapping, DNA structure and replication, population genetics, and molecular change. Prerequisites: BIO-181 and BIO-181L, and one of the following: BIO-205, BIO-215, BIO-333, BIO-339, or CHM-115.

#### BIO-460<sup>♦</sup>: Toxicology

4 credits

The content of this course is designed to equip learners with general principles of toxicology, forensic toxicology, and drug metabolism. Topics include chemistry and biological activities, as well as types and effects of drugs of forensic interest in biological material. Key components of QC/QA are featured with reference to FBI, ASCLD, and ISO guidelines. Prerequisites: CHM-365 and CHM-365L

#### BIO-463<sup>\*</sup>: Animal Pathophysiology 4 credits

This course focuses on the etiology, pathogenesis, and clinical manifestations associated with various altered health states and diseases in domestic animals. Prerequisite: BIO-364.

#### BIO-470: Head and Neck Anatomy & Lab 4 credit

This course focuses on the regional anatomy and function of the human head and neck, including skeletal structure, musculature, relevant neuroanatomy, and other topics pertinent to a detailed, clinical understanding of the head and neck. This course includes a significant experiential learning component. Prerequisites: BIO-211 and BIO-211L.

#### BIO-475<sup>\*</sup> • Advanced Genetics 3 credit

This course presents advanced topics in genetics and genomics, including prokaryotic and eukaryotic DNA replication and repair, regulation of transcription in prokaryotes and eukaryotes, reverse transcription, mutagenesis, carcinogenesis, cancer and personalized medicine, epigenetics, genomic analyses, genomic libraries and databases, phylogenetics and bioinformatics.

Prerequisite: BIO-457, BIO-205; Co-Requisite: BIO-475L.

#### BIO-475HN<sup>/♠</sup>: Advanced Genetics 3 credits

This course presents advanced topics in genetics and genomics, including prokaryotic and eukaryotic DNA replication and repair, regulation of transcription in prokaryotes and eukaryotes, reverse transcription, mutagenesis, carcinogenesis, cancer and personalized medicine, epigenetics, genomic analyses, genomic libraries and databases, phylogenetics and bioinformatics.

Prerequisite: BIO-457, BIO-205; Co-Requisite: BIO-475L.

#### BIO-475L<sup>/♠</sup>: Advanced Genetics Lab 1 credits

This hands-on laboratory course is designed to provide a project-based experience utilizing DNA, RNA, and molecular analysis techniques. These include isolation of DNA, action and laboratory use of restriction and modification enzymes, DNA amplification, DNA sequencing, mutagenesis and cloning, gene inactivation and complementation analysis, RT-PCR, DNA and RNA gel electrophoresis, Southern and Northern blot, and expression analyses (including Western blot and DNA microarrays). Co-requisite: BIO-475.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

475LHN\*\*:

This hands-on laboratory course is designed to provide a project-based experience utilizing DNA, RNA, and molecular analysis techniques. These include isolation of DNA, action and laboratory use of restriction and modification enzymes, DNA amplification, DNA sequencing, mutagenesis and cloning, gene inactivation and complementation analysis, RT-PCR, DNA and RNA gel electrophoresis, Southern and Northern blot, and expression analyses (including Western blot and DNA microarrays). Co-requisite: BIO-475.

#### BIO-479: Applied Field Research 4 credits

This courses immerses students in a variety of topics related to field work, including hypothesis and methods development, principles and procedures of field methodology, data collection, analysis, and communication, and problems encountered in field research. Prerequisites: BIO-320 and BIO-320L.

#### BIO-483<sup>≠</sup> Pathophysiology 4 credits

This course is designed to bridge the gap between basic preclinical science courses and the clinical requirements of health care/life science professionals. Systematic studies focus on the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Material is presented using clinically relevant terminology that increases accurate and effective communication through extensive vocabulary expansion. Upon completion of this course, students should be able to correctly discuss a variety of disease states with health care professionals and patients while addressing the following questions: What is actually happening at the physiological level that causes the signs and symptoms of a given condition or disease? How does a change in normal physiology cause the signs and symptoms of a given condition or disease? How do these physiological effects correlate to mechanisms of accurate diagnoses? Why is one treatment method chosen over another? How do different systems intricately interrelate to cause a clinical picture and complications?. Prerequisites: One of the following combinations: BIO-201 and BIO-202; 2) BIO-210 and BIO-211; or 3) BIO-360.

#### BIO-483HN<sup>≠</sup> : Pathophysiology

This course is designed to bridge the gap between basic preclinical science courses and the clinical requirements of health care/life science professionals. Systematic studies focus on the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Material is presented using clinically relevant terminology that increases accurate and effective communication through extensive vocabulary expansion. Upon completion of this course, students should be able to correctly discuss a variety of disease states with health care professionals and patients while addressing the following questions: What is actually happening at the physiological level that causes the signs and symptoms of a given condition or disease? How does a change in normal physiology cause the signs and symptoms of a given condition or disease? How do these physiological effects correlate to mechanisms of accurate diagnoses? Why is one treatment method chosen over another? How do different systems intricately interrelate to cause a clinical picture and complications?. Prerequisites: One of the following combinations: 1) BIO-201 and BIO-202; 2) BIO-210 and BIO-211; or 3) BIO-360.

#### BIO-485HN<sup>≠</sup>: Honors Pathophysiology 4 credits

This course is designed to bridge the gap between basic preclinical science courses and the clinical requirements of health care/life science professionals. Systematic studies focus on the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Material is presented using clinically relevant terminology that increases accurate and effective communication through extensive vocabulary expansion. Upon completion of this course, students should be able to correctly discuss a variety of disease states with health care professionals and patients while addressing the following questions: What is actually happening at the physiological level that causes the signs and symptoms of a given condition or disease? How does a change in normal physiology cause the signs and symptoms of a given condition or disease? How do these physiological effects correlate to mechanisms of accurate diagnoses? Why is one treatment method chosen over another? How do different systems intricately interrelate to cause a clinical picture and complications?. Prerequisites: One of the following combinations: BIO-201 and BIO-202; 2) BIO-210 and BIO-211; or 3) BIO-360.

#### BIO-487 $^{\Delta\Omega}$ : Capstone Thesis in Biology 4 credit

This writing intensive capstone course requires students to integrate and apply what they have learned in their program. To do this, students will engage in projects and assignments that will demonstrate the knowledge and research skills gained in the program, including literature review, developing a research project, data collection and analysis, and written and oral communication of findings. Prerequisite: BIO-328 or BIO-415 or BIO-457 or CHM-420.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# BIO-505: A Comprehensive Overview of 4 credits Phylogenetics and Ecology

This course will give a broad overview of the classification of organisms, including prokaryotes, protists, fungi, plants, and animals. Students will discuss the importance of the various types of organisms in global and human ecology. This course will also address principles of ecology with regard to populations, communities, and global ecology. Ecological research will be analyzed, and conservation and restoration efforts will be evaluated through the use of case studies.

## BIO-510: A Comprehensive Overview of Cell 4 credits and Molecular Biology

This course will cover an overview of properties of cellular organization using molecular, genetic, and cell biological approaches. This course will provide a comprehensive study of the composition, structure, energetics, regulation, and growth of eukaryotic cells. Students will also become competent in DNA structure and function, protein synthesis and gene regulation and will also learn the molecular tools for studying genes, gene cloning, and gene activity. From this fundamental perspective, students will be reviewing important scientific literature on the subject of cell biology and will examine the information through discussions, presentations, literature based essays and presentations. Prerequisite: Students should have completed an undergraduate course in cellular/molecular biology.

#### BIO-515: Concepts of Human Physiology I 4 credits

This course presents a selection of complex physiological mechanisms which will be explored and analyzed to provide students with a comprehensive understanding of human physiology. Topics will be introduced through a system-based approach with the inclusion of application scenarios to enhance the understanding. Prerequisite: BIO-510.

#### BIO-520: Concepts of Human Physiology II 4 credits

This course continues the study of complex physiological mechanisms which will be explored and analyzed to provide students with a deeper understanding of human physiology. Topics will be introduced through a systems-based approach with the inclusion of application scenarios to enhance the understanding. Prerequisite: BIO-515.

#### BIO-525: Concepts of Medical Microbiology 4 credits

This course provides an introduction to the principles and applications of microbiology and a study of the general characteristics of microorganisms, their activities, and their relationship to humans. Students will be introduced to developing an understanding of microbial cell structure and function, microbial growth, bacterial genetics, characteristics of viruses, interaction of microbes and humans with reference to immune responses, related pathologies, and antimicrobial control medications. Prerequisite: BIO-505, BIO-510.

### Business Intelligence (BIT)

### BIT-200: Introduction to Computer Technology

4 credits

This course provides the foundation of core knowledge within the field of information technology. Topics include technology-centric organizations, the type and role of fundamental information technology systems, data management to include privacy and security, e-business and m-business, hardware, software, and computer networks.

## BIT-205: Introduction to Computer 4 credits Technology and Analytics

This course introduces core components of computer, information systems, and analytics technology. Students examine how organizations use technologies to analyze business processes and data and learn fundamental skills for business analytics.

### BIT-210: Object-Oriented Programming for 4 credits Business

This course provides an introduction to object-oriented programming using most current business application programming languages and tools. Students will design, create, run, and debug applications. The course emphasizes the development of correct, well-documented programs using object-oriented programming concepts. Students also learn to create GUI-based programs. Prerequisite: CST-111 or ITT-111.

#### BIT-301: Fundamentals in Business Analytics 4 credits

This course examines basic business analytics concepts for students in nonanalytics degree programs. Emphasis is primarily placed on descriptive analytics topics. Students are introduced to techniques relevant for describing data behavior. Prerequisites: BIT-200, BIT-205, or CST-111; and MAT-274 or BUS-352.

### BIT-310: Information Systems Design and 4 credits Development

This course introduces key aspects of information systems development within the context of business information systems. Students focus on systems development with an emphasis on the system development life cycle, including requirements analysis and traceability, feasibility, and cost-benefit analysis. Systems development, deployment, and post-implementation processes are also addressed.

## BIT-320: Introduction to Programming for 4 credits Data Science

This course covers foundational programming topics with specific focus on data science concepts. Students gain working knowledge of selected industry software programming tools that are relevant to data science topics. Prerequisites: BIT-205 and BUS-352.

#### BIT-415<sup>‡</sup>: IT Project Management 4 credits

This course examines various areas of information technology project management. Traditional and agile project management topics are covered with specific focus on information technology projects. A project management software scheduling tool is also used in the course. Prerequisite: BIT-200, BIT-205, CST-111 or ITT-111.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BIT-415HN<sup>‡</sup>: IT Project Management

4 credits

This course examines information technology project management. Topics include the reasons why IT projects fail, the business cost of IT failure, managing IT teams, outsourcing, virtual teams, scope definition, project scheduling, risk mitigation, and leading successful projects. Additional topics focus on using project management to build an analytics organization. Prerequisite: BIT-200 or CST-110 or CST-111.

#### BIT-417<sup>∆</sup>/•• : IT Governance and Ethics 4 credits

This writing-intensive course examines the role of governance and ethics within information technology. Topics include understanding and satisfying Sarbanes/Oxley, preparing for an information technology audit, complying with government regulations such as HIPAA, and understanding data-privacy issues. Students examine real-world case studies. Prerequisite: BIT-200, BIT-205, CST-110, or CST-111.

### BIT- IT Governance and Ethics 4 credits 417HN $^{\Delta i \Phi}$ :

This writing intensive course examines the role of governance and ethics within information technology. Topics include understanding and satisfying Sarbanes/Oxley, preparing for an information technology audit, complying with government regulations such as HIPAA, and understanding data-privacy issues. Students examine real-world case studies. Prerequisite: BIT-200, BIT-205, CST-110, or CST-111.

#### BIT-430<sup>4</sup>: Introduction to Business Analytics 4 credits

This course examines basic business analytics concepts with specific emphasis on descriptive analytics. Students are introduced to techniques and selected industry tools relevant for describing data behavior. Prerequisites: BIT-200, BIT-205, or CST-111; and MAT-274 or BUS-352.

#### BIT-430HN<sup>‡</sup>: Introduction to Business Analytics 4 credits

This course examines current business intelligence practices and tools. Topics include creating an intelligent data-driven company, the role of decision-management tools, information silo busting, and design techniques for information dashboards. This course also introduces the key aspects of conducting business analytics using Microsoft Excel's Advanced features. Students examine real-world case studies. Prerequisites: BIT-200 and BUS-352.

#### BIT-431: Data Visualization 4 credit

This course covers selected descriptive analytics topics with specific focus on data visualization techniques. Students are introduced to several industry software tools used for visually describing data behavior. Prerequisites: BIT-205, BIT-352, and BIT-320.

#### BIT-435<sup>\*•</sup>: Advanced Business Analytics 4 credits

This course covers key concepts related to predictive and prescriptive analytics by combining information technologies and statistical techniques to extract meaning from organizational data. Students apply predictive and prescriptive analytics techniques in order to understand the business environment and guide business-related decisions. Use of selected industry tools to apply predictive and prescriptive analytics techniques is also addressed. Prerequisite: BIT-430 or BIT-431.

#### BIT-435HN<sup>≠</sup> : Advanced Business Analytics

4 credits

This course examines key aspects of predictive analytics by combining both information technologies and modeling techniques to extract meaning from similar and/or dissimilar organizational data. The course covers the use of quantitative techniques to translate business data into business intelligence. The key focus of the course is how to leverage information technology to build predictive models for making tactical and strategic business decisions. Prerequisites: BIT-200, BIT-430, and BUS-352.

#### BIT-445: Data Mining

4 credits

This course covers basic concepts and techniques related to data mining. A key goal of the course is evaluating data in order to make business-related decisions. Use of selected industry tools to perform data mining is also addressed. Prerequisite: BUS-352.

#### BIT-446: Data Mining Foundations 4 credits

This hands-on course explores foundational concepts and techniques related to data mining through the use of selected industry software applications. Selected data mining techniques are used to gain actionable insights from data pertaining to business organizations. Prerequisite: BIT-431.

### BIT-455\*: Current Topics in Business 4 credits Analytics

This course builds upon the techniques and tools presented in prior courses in the program and focuses on how analytics are applied in contemporary organizations. Students use critical thinking skills to frame analytics problems, build and apply appropriate analytics models, and communicate relevant findings. Prerequisites: BIT-415, BIT-435, and BIT-445.

### BIT-456: Special Topics in Business 4 credits Analytics

This course covers special topics in business analytics. Students use critical thinking skills to frame analytics problems, build and apply appropriate analytics models, and communicate relevant findings. The course also covers topics related to working with unstructured data. Prerequisites: BIT-415, BIT-435, and BIT-446.

#### BIT-460: Enterprise Systems Integration 4 credits

This course examines the process of integrating different systems and software applications by examining current and emerging trends, strategies, and techniques for effectively developing systems integration solutions. Prerequisites: BIT-310, BIT-415, and SYM-408.

### BIT-470<sup>A/2</sup>: Strategic Information Systems 4 credits Management

This writing intensive course emphasizes the centrality of business information systems in improving enterprise strategy to drive organizational success. Students learn how to help organizations achieve competitive advantage through the strategic aligning of information systems with organizational goals. There is particular emphasis on strategies for achieving organizational goals through the deployment of information technology-based solutions. Prerequisite: BIT-310.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BIT-470HN<sup>∆</sup>: Strategic Information Systems Management

4 credits

This writing intensive course emphasizes the centrality of business information systems in improving enterprise strategy to drive organizational success. Students learn how to help organizations achieve competitive advantage through the strategic aligning of information systems with organizational goals. There is particular emphasis on strategies for achieving organizational goals through the deployment of information technology-based solutions. Prerequisite: BIT-310.

### Biomedical Engineering (BME)

#### BME-260: Survey of Tissue Engineering 2 credits

This course aims to introduce students to the concepts and challenges of engineering tissues which will receive greater depth in later semesters. This will include an overview of tissue scaffolding, biocompatibility, tissue growth, and the ethics of synthetic tissues. Prerequisite: ESG-162, ESG-162L, BIO-181, BIO-181L.

#### BME-352: Bio-Solid Mechanics & Lab 4 credits

This course introduces students to a continuum approach to biomechanics. Stress and strain relationships are mathematically derived and physically justified as applied to physiological/clinical examples. For material behaviors that are linear, elastic, homogeneous and isotropic, universal solutions are developed and explored for physiologically relevant examples. Finally, the universal solutions are applied to and tested in biological mimics. Prerequisites: MAT-364, ESG-251, PHY-121 and PHY-121L.

#### BME-356\*: Biomaterials 3 credits

This course introduces students to the guiding principles involved in biomaterials. Students will learn about the materials that are used to replace or come in contact with living systems. They also examine biocompatibility – the reaction of the human body to materials that are introduced. Additionally, a specific emphasis on the regulatory guidance of new biomaterials will be covered. Prerequisites: CHM-115, CHM-115L, and STG-330. Co-Requisite: BME-356L.

#### BME-356L<sup>♦</sup>: Biomaterials Lab 1 credits

This is the lab section of BME-356. Students engage in hands-on activities to experience how materials can be used to replace or come in contact with living systems. They also examine biocompatibility – the reaction of the human body to materials that are introduced. Additionally, students practice drafting regulatory-compliant documents. Prerequisites: CHM-115, CHM-115L, and STG-330. Co-Requisite: BME-356.

### BME-360<sup>♦</sup>: Introduction to Biomechanics & 4 credits Lab

This course introduces students to a continuum approach to biomechanics. Stress and strain relationships are mathematically derived and physically justified as applied to physiological/clinical examples. For material behaviors that are linear, elastic, homogeneous and isotropic, universal solutions are developed and explored for physiologically relevant examples. Finally, the universal solutions are applied to and tested in biological mimics. Prerequisites: BIO-181, BIO-181L, MAT-364, ESG-251, PHY-121 and PHY-121L.

#### BME-361: Biomechanics & Lab 4 credits

This course is the introduction to the dynamics of human movement based on the mechanics of motion. Students will learn the mechanical analysis of human motion such as joint models, human gait, and the effect of forces on the musculoskeletal structure in motion. Prerequisite: ESG-251, PHY-122/L, MAT-364.

### BME-460\*: Biomedical Instrumentation and 4 credits Devices & Lab

This course introduces theory of measurement and analysis from biological systems. It explores the principles and use of transducers, data recording and analysis systems, and signal processing techniques. Students will develop and utilize instrumentation to measure or transmit physiological data using computer based data acquisition. Prerequisites: EEE-202, EEE-202L, and MAT-364.

# BME-465\*: Advanced Biomedical 4 credits Instrumentation and Devices & Lab

This course applies the knowledge and skills obtained from BME-460 (Biomedical Instrumentation and Devices & Lab) to measurements of organs and tissues. Clinical instrumentation and therapeutic and prosthetic devices are analyzed according to their design, manufacture and use. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisites: BME-460, BIO-360, and BIO-360L.

#### BME-471: Biomedical Design Elements I 2 credits

This course provides an overview of designing a marketable medical device. Students will design a biomedical system, component, or process to meet desired needs within realistic constraints. This includes the design process from problem definition through concept design. FDA regulation, human factors, system safety consideration, and medical product liability will be covered. Prerequisite: ESG-395.

#### BME-472\*: Biomedical Design Elements II 2 credits

This course is a continuation of Biomedical Design Elements I. It provides a comprehensive view of designing a marketable medical device. This includes the design process from prototype, and clinical testing for market readiness. Topics covered include FDA regulation, human factors, system safety consideration, and medical product liability. Prerequisite: BME-471.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BME-480<sup>‡</sup>: Bioimaging

3 credits

This course will explore the fundamentals of Medical Imaging and Image Processing from an engineering prospective. Students will learn the mechanisms behind different imaging modalities. Students will learn how to acquire, read, interpret, and process images generated from radiologic and optical means. Students will receive hands on training in many of the discussed modalities, and will leave the class understanding the factors which can effect the images created. This is a writing intensive course. Prerequisite: BME-460. Co-Requisite: BME-480L.

#### BME-480L<sup>‡</sup>: Bioimaging

1 credits

This course will explore the fundamentals of medical imaging and image processing from an engineering prospective. Students will learn the mechanisms behind different imaging modalities. Students will learn how to acquire, read, interpret, and process images generated from radiologic and optical means. Students will receive hands-on training in many of the discussed modalities, and will leave the class understanding the factors that can affect the images created. Prerequisite: BME-460. Co-Requisite: BME-480.

### Barnabas Pastoral Program (BPP)

#### **BPP-101:** Pastorem Group 1 Fall

0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 1 during the fall semester of their first year in the program.

#### **BPP-102:** Pastorem Group 1 Spring 0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 1 during the spring semester of their first year in the program.

#### **BPP-201:** Pastorem Group 2 Fall 0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 2 during the fall semester of their second year in the program.

#### **BPP-202:** Pastorem Group 2 Spring

0 credits

0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 2 during the spring semester of their second year in the program.

#### BPP-301: Pastorem Group 3 Fall 0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 3 during the fall semester of their third year in the program.

#### BPP-302: Pastorem Group 3 Spring 0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 3 during the spring semester of their third year in the program.

#### BPP-501: Pastorem Group 4 Fall

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 4 during the fall semester of their fourth year of the 3+2 program.

#### BPP-502: Pastorem Group 4 Spring 0 credits

Pastorem groups provide the relational context for many of the group activities that take place within the Barnabas Pastoral Program. Pastorem groups gather under the leadership of a faculty "shepherd" for purposes of community, team building, accountability, mutual support, cooperation, and collaboration. Barnabas students are assigned to Pastorem Group 4 during the spring semester of their fourth year of the 3+2 program.

### Broadcasting (BRD)

#### BRD-100: Introduction to Broadcasting 4 credits

This course provides an overview of the broadcasting industry and the skills needed for many career opportunities across its various platforms. The course develops students' abilities in media writing and storytelling, so they can create useful content. Students are exposed to the basics of media law and ethics and cultivate essential communication and presentation skills. The business aspects of the industry and the economic forces driving broadcasting are covered. This course lays a robust foundation for aspiring broadcasters to navigate the ever-evolving media landscape.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **BRD-310**<sup>△</sup>: Writing for Broadcast

4 credits

This writing-intensive course covers writing for various broadcast genres and situations. It covers scriptwriting, storytelling, and how to prepare for and conduct interviews. Students learn to create content that is conversational and adaptable to different formats. From news reports to feature stories, students develop the ability to engage audiences effectively while meeting the unique demands of written, visual, and audio storytelling. Prerequisites: BRD-100 and PRW-301.

#### BRD-320<sup>4</sup>: Podcasting 4 credits

This course covers how to produce podcasts, providing students with the knowledge and skills to create compelling and impactful audio content. Concept development, storytelling, and podcast structures are covered. The course also emphasizes the skills of recording and editing to produce high-quality audio content. Students learn effective strategies for promoting, monetizing, and distributing podcasts to build and maintain an engaged audience. Through hands-on projects, students gain the ability to produce high-quality podcasts across diverse genres.

#### **BRD-400**<sup>△</sup>: Producing for Broadcast 4 credits

This writing-intensive course prepares students to become effective producers in the broadcast industry. Students learn the intricacies of producing compelling and engaging content across various broadcast platforms. The importance of understanding and segmenting audiences to tailor broadcasts effectively is covered. Collaboration is emphasized, with a focus on nurturing positive team dynamics for successful production environments. Students learn to craft a rundown to organize and prioritize broadcast elements. Additionally, students develop proficiency in writing specifically for a producer's needs. Prerequisites: DFP-225 and BRD-310.

#### BRD-410<sup>†</sup>: Reporting for Broadcast 4 credits

This course focuses on the skills needed to create compelling news stories across different types of reporting. The course covers a variety of formats and students learn to adapt their storytelling to the content and context of the news they are covering. Emphasis is placed on the critical thinking, research, and communication skills necessary to produce high-quality broadcast reporting. Students write scripts, present on camera, and edit their broadcasts to create polished and engaging stories for their audience. Prerequisites: DFP-225 and BRD-310.

#### BRD-480: Broadcast Production 4 credits

In this course students engage in broadcast production activities to gain hands-on experience in the fast-paced world of broadcasting. Students fulfill various roles that constitute a professional broadcast environment. This course emphasizes the collaborative nature of broadcasting, requiring students to work together to produce timely, accurate, and engaging pieces. This course assists students in building a comprehensive portfolio of work, showcasing their versatility and readiness to enter the professional broadcasting field. Prerequisites: BRD-400 and BRD-410.

#### **BRD-490:** Broadcasting Capstone

4 credits

4 credits

This course is a culmination of the knowledge and skills students have acquired throughout the Broadcasting major. Students are guided to critically analyze potential career paths in broadcasting. Students evaluate the broadcasting portfolio they have developed throughout the program, identifying strengths and pinpointing what additional work is needed to refine their reels, ensuring they showcase their best and most relevant work. Students are encouraged to network within their areas of interest. Students craft tailored resumes and cover letters, and hone their personal pitches, ensuring they are job-interview-ready. Prerequisites: BRD-400 and BRD-410.

### Business (BUS)

### BUS-302: Business for the Professional Creative

This course will prepare students for success as creative professionals. Students will research their industry, develop their personal brand, and establish business and entrepreneurial practices.

#### **BUS-317:** Financial Decision Making 4 credits

This course is an exploration of the financial reports and tools used by managers to make decisions and analyze the performance of a business entity.

#### **BUS-325:** Church Planting and Revitalization 4 credits

This course equips students to engage in the business dynamics of church planting and revitalization. Through case studies and real-world applications, students analyze successful church planting models, navigate cultural and cross-cultural challenges, and develop comprehensive proposals for sustainable growth. This course offers a rare opportunity to blend entrepreneurial spirit with spiritual vision, empowering future leaders to prepare, change, and advance the kingdom of God in a variety of contexts.

#### BUS-330: Business Process Design 4 credit

This course introduces intelligent business process management applications and the technical skills required to design and implement process modeling and user interfaces. Students apply critical thinking and problem solving in model development and efficient end-user displays. The course prepares students for the advanced topics of case design, data modeling, and business reporting.

#### BUS-332: Customer Engagement 4 credits

This course introduces models and practices used for engagement with customers, prospects, suppliers, and internal stakeholders and the communications strategies and tactics needed to build and sustain long-term and mutually satisfying relationships that add value in today's economy. Customer Relationship Management (CRM) technology will also be introduced. Prerequisite: MKT-315

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### BUS-340<sup>△/•</sup>: Ethical and Legal Issues in Business 4 credits

This writing-intensive course is a comprehensive study of the legal and ethical issues of concern to business, including those areas of the U.S. legal system that are most relevant to business, such as the law of torts, strict liability, intellectual property, and contract law. It explores the role of ethics and values in business decision making and approaches these subjects from the perspective of the stakeholders as opposed to an economic interpretation of the firm and its responsibilities.

### BUS- Ethical and Legal Issues in Business 4 credits $340 HN^{\Delta/\Phi}$ :

This writing intensive course is a comprehensive study of the legal and ethical issues of concern to business, including those areas of the U.S. legal system that are most relevant to business, such as the law of torts, strict liability, intellectual property, and contract law. It explores the role of ethics and values in business decision making, and approaches these subjects from the perspective of the stakeholders as opposed to an economic interpretation of the firm and its responsibilities.

#### BUS-352♦: Business Statistics 4 credits

This course provides an introduction to the practical application of descriptive and inferential statistics in business. Topics include probability, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression. Prerequisite: MAT-134, MAT-144, MAT-154, or higher subsequent math course.

#### **BUS-372:** Sports Event Planning 4 credits

This course provides an introduction to event planning for athletic, recreational, entertainment, and special events. An emphasis is placed on budgeting, site selection, sponsorship, and facility management. Prerequisites: BUS-232 and MKT-315.

#### BUS-390♦: Global Business 4 credits

This course surveys the global business environment with an emphasis on international markets and the global supply chain that impact all organizations and consumers. Students learn about basic international trade and currency issues and strategies to enter global markets successfully. Students focus on communication tools and negotiation tactics to enhance their cultural competence and business acumen.

### BUS-435: Methods of Teaching Business in Middle and Secondary Schools 4 credits

This course is designed to help middle and secondary school teachers develop effective instructional strategies for teaching in the discipline of business. Emphasis is given to teaching methodologies that encourage project-based learning, problem solving, learner engagement, and effective assessment practices. Practicum/field experience hours: 15. Fingerprint clearance required.

### BUS-451: Faith, Work, and Success: Building 1 credits a Purpose-Driven Career

This course challenges modern career myths and prepares students with a roadmap for professional and personal success. Students develop essential career tools (resumes, LinkedIn profiles, and interview strategies) while also exploring internships and networking opportunities. Rooted in a faith-based perspective, this course emphasizes work ethic, self-discovery, and purpose-driven career planning. By focusing on earning success through diligence, service, and integrity, students gain the foundation needed to build a fulfilling and impactful career.

#### BUS-470<sup>△</sup>: Applied Business Project 4 credits

In this writing-intensive course, students investigate challenges facing contemporary organizations and recommend solutions based on research and critical analysis. Students integrate major concepts learned throughout their program to formulate problem statements, employ quantitative and qualitative data collection methods, and communicate recommendations that satisfy the needs of diverse stakeholders.

## BUS-476: Conscious Capitalism: Free Market 4 credits Perspectives

This upper-division business course frames the topic of free market capitalism on the structure of conscious capitalism's four pillars: higher purpose, servant leadership, culture, and stakeholder orientation and provides additional perspectives on various approaches to free market capitalism today. The course begins by providing a historical foundation of capitalism and a consideration of the principles of economic freedom and concludes by exploring new narratives on capitalism and how modern business integrates with society. Case studies are used to provide in-depth analysis and highlight how business is used as a force for good in helping communities and human flourishing.

#### BUS-485<sup>∆</sup>: Strategic Management 4 credits

This writing-intensive course is built around a team-based simulation requiring a high level of peer interaction and collaboration and serves as the capstone experience in business and management, introducing students to functional, business, and corporate strategy from the perspective of a strategy analyst. Tools and techniques are applied to the student's previous knowledge of accounting, finance, management, analytics, marketing, economics, entrepreneurship, and leadership acquired through their individual programs of study. Students integrate strategic analysis to demonstrate mastery of a wide variety of business domains. Prerequisites: MGT-420 or MGT-422HN; FIN-210 or FIN-350; and MKT-245 or MKT-315.

#### BUS-485HN<sup>∆</sup><sup>s</sup>: Strategic Management 4 credits

This writing intensive course serves as the capstone experience in business and management that includes the gradual development of a comprehensive and integrative business plan. This course is designed to assist students in their development as managers, servant leaders, and successful strategic thinkers. Management, marketing, accounting, finance, economics, global perspectives, law, and political issues are covered during this course. It is a writing intensive course that will help students develop competencies such as critical thinking, effective communication, leadership, and global awareness. Prerequisites: FIN-350, MGT-240 or MGT-420, MKT-245, and senior status.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **BUS-499:** Independent Study

1 credits

This involves research, seminars, or readings on a special topic selected by the student and the faculty advisor as appropriate. This course may be taken for one, two, three, or four credits, depending on the amount of time and work involved, and may be repeated for up to four credits total per subject area unless specified otherwise in requirements for a major.

### BUS-600: Financial Fundamentals for 4 credits Managers

This course introduces basic accounting and finance principles relevant for managers. Students become familiar with basic financial statements, cash flow concepts, cost behavior, budgeting, and analytical tools.

### BUS-635: Sports Business Revenue 4 credits Generation

This course discusses the principles and strategies associated with generating revenue in the sports business industry.

#### BUS-655: Sports Business Analytics 4 credits

This course emphasizes sports marketing research with the focus on teaching students how to obtain the data, insights, and intelligence needed in every area of sports marketing, sports media, and sponsorship in order to most effectively maximize value for brands, rights holders, agencies, and media.

#### **BUS-660:** Quantitative Methods 4 credits

This course is a study in the quantitative tools and techniques used to model business functions and applications. Emphasis is placed on how to set up models, and how to interpret and apply their results. Prerequisite: SYM-506.

### BUS-676: Advanced Conscious Capitalism: 4 credits Free Market Perspectives

This graduate business course is structured around the emerging constructs of conscious capitalism's four pillars: higher purpose, servant leadership, culture, and stakeholder orientation and introduces the construct of economics of mutuality (EOM). This course begins with a historical foundation of capitalism and principles of economic freedom and then progresses to new narratives on capitalism and how business integrates with society. New forms of capital are introduced through EOM concepts. Case studies are used to provide in-depth analysis and highlight how purpose, stakeholder integration, and nonfinancial capital can contribute to people, planet, and profits, highlighting business elevating humanity in helping communities and human flourishing.

# Cybersecurity Management (CBM)

### CBM-350: Quality Management of Information Security

4 credits

This course provides the principles of quality management in information security. Emphasis is on managerial guidance for establishing, implementing, organizing, governing, and maintaining security frameworks within an organization. Students explore best practice quality management principles for information security managers.

#### CBM-490: Cybersecurity Management and 4 credits Leadership

This course provides an overview of cybersecurity leadership, new technologies, and dynamic workplace environments. Emphasis is on managerial and leadership concepts and strategies relating to critical thinking, creative problem solving, and professional development challenges faced in today's global marketplace. Students explore professional best practices and evolving technology for application to real-world scenarios.

### Christian Counseling (CCN)

### CCN-601: Biblical Foundations for 3 credits Counselors: The Story of God

This course is a narrative approach to the theology of God, humanity, and salvation. Students learn to apply the story of the Bible to the life and practice of the Christian counselor.

#### CCN-650: Spiritual Formation: Becoming a 3 credits Healthy Practitioner

This course provides an introduction to spiritual formation with attention to classical spiritual disciplines and stages of growth. This course includes an exploration into personal spiritual health and character development with implications for counseling practice. Prerequisite: CCN-601.

# CCN-655: Biblical Concepts-Healthy 3 credits Relationships: Forgiveness & Healthy Spirituality

This course explores relational health in connection with topics including self-assessment, forgiveness, reconciliation with God and others, and the pursuit of spiritual health. Personal practice and implementation in professional counseling are emphasized. Prerequisite: CCN-650.

# CCN-675: Integration of Scripture with 3 credits Counseling Theory

In this course, students explore the integration of the Christian worldview into counseling theory and practice. Emphasis is placed on the nature and purpose of human beings from a biblical perspective as well as ethical issues pertinent to the Christian counselor, while critically evaluating contemporary secular theories and practices. Prerequisite: CCN-655.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# Christian Educational Administration (CEA)

### CEA-517: Legal Considerations in Christian 3 credits Education

This course focuses on legal requirements unique to the Christian school. Emphasis is placed on school governance and the rights and issues associated with employees and students as well as pertinent laws and court decisions that govern Christian schools. Emphasis is also placed on advocacy, trends, the legislative process, and analyzing best practices for various organizational structures of Christian schools.

#### CEA-527: Christian School Finance 3 credits

This course focuses on the funding and budgeting of Christian schools. Topics include funding sources, including tuition, capital campaigns, and public funds. Emphasis is placed on ethical and professional behavior in the areas of funding and financial governance in Christian schools. Best practices and sound fiscal approaches to starting, developing, and operating Christian schools are also addressed. Prerequisite: CEA-517.

### CEA-537: Christian Educational 3 credits Environments and Communities

This course focuses on the foundations of creating and maintaining a Christian school environment through best practices for various organizational structures of Christian schools. Topics include spiritual practices, managing internal and external stakeholders, conflict resolution, and relational leadership. Emphasis is placed on personal spiritual formation and character development, as well as the creation and promotion of a philosophy of Christian education that is solidly based on biblical principles.

## CEA-557: Educating from a Christian 3 credits Worldview

This course focuses on curriculum and instruction from a Christian worldview. Emphasis is placed on illuminating biblical truth in the overall curriculum planning and daily instruction in academic content areas. Modeling Christlike values and servant leadership on the school campus as well as to the broader community is also addressed.

### Computer Engineering (CEE)

# CEE-300: Data Structures, Algorithms, and 4 credits Numerical Recipes

This course introduces students to data structures and algorithms. Students will learn the computational procedures for processing input data to obtain the desired output, including algorithm design, testing, and troubleshooting. Students will learn how to implement algorithms and numerical methods in a programming language. Prerequisite: EEE-212.

#### CEE-312<sup>4</sup>: Advanced Embedded Systems Design & Lab

4 credits

This course combines hardware and firmware design aspects of embedded systems. Students will learn how to design an embedded system from the ground up, applying fundamentals of discrete mathematics and digital logic. Hands-on activities will focus on problem solving using scientific computation tools and programming. This is a project-based course, in which the students will design FPGA and microcontroller-based hardware and develop embedded software to solve real-world problems. Prerequisite: EEE-315.

### CEE-440: Applied Research in Computer 4 credits Engineering

This course introduces advanced topics in computer engineering, with emphasis on current research and innovations. Utilizing scientific research and journal publications, students will learn about the most recent hardware and software developments in computer engineering. Prerequisites: EEE-320, CEE-300, and CEE-473.

# CEE-473: Computer Engineering Design 2 credits Principles I & Lab

This course introduces students to the principles of computer engineering design. Students will learn to produce computer engineering designs that consider system requirements, engineering standards, and regulatory compliance. Students will apply engineering sciences, economics, and standards to design digital devices, circuits, and systems to solve real-world problems. Hands-on activities focus on the design and integration of different subsystems. Prerequisite: CEE-312. Co-Requisite: ESG-451.

### CEE-474: Computer Engineering Design 2 credits Principles II & Lab

This project-based course will consolidate the student's knowledge of the computer engineering design process, from concept to manufacturing. It provides depth to the design process that enables students to contribute to the solution of real-world engineering problems. Prerequisite: CEE-473.

### Christian Leadership (CHL)

#### CHL-510: Biblical Foundations of Christian 4 credits Leadership

This course provides students with a biblical foundation from the Old and New Testaments on Christian Leadership. In studying the Scriptures in their historical, cultural, and linguistic contexts, students gain an appreciation of principles of leadership and develop a theology of leadership centered on the narrative and teaching of Scripture. Issues of call, formation, character, purpose, service, and discipleship are addressed. This course requires supervised ministry hours. Practicum/field experience hours: 45.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## CHL-630: Best Practices in Christian Leadership

4 credits

This course provides students with the opportunity to engage significant insights of contemporary leadership practice in order to integrate these insights into an effective and informed and integrated philosophy of Christian leadership. In this course, the student investigates some of the most helpful principles and people regarding the practice and the concept of leadership and organizational leadership. This course requires supervised ministry hours. Practicum/field experience hours: 45. Prerequisite: CHL-510.

### CHL-650: Leading Through Crisis, Conflict 4 credits and Change

This course is an investigation into the dynamics of crisis, conflict, and change, and how to address these realities in Christian leadership. This course requires supervised ministry hours. Practicum/field experience hours: 45. Prerequisite: CHL-520 or CHL-630.

### Chemistry (CHM)

### CHM-101\*: Introduction to General, Organic, 3 credits and Biochemistry

An introduction to the principles of chemistry; designed for students without a strong background in science. Topics covered include a survey of the chemical and physical properties of elements and compounds, chemical reactions, chemical energetics, acids and bases, and chemical bonding. An introduction to organic and biochemistry emphasizes the relationship between molecular structure and function. Corequisite: CHM-101L.

### CHM-101L♦: Introduction to General, Organic, 1 credits and Biochemistry Lab

This lab course is designed to compliment and support the principles being addressed in CHM-101. Students learn basic lab techniques related to general and organic chemistry, building upon and strengthening foundational knowledge such as stoichiometry and reaction types. Additionally, some topics are addressed from a biochemical standpoint to highlight application to daily living. Co-requisite: CHM-101.

#### CHM-110<sup>♦</sup>: General and Organic Chemistry 3 credits

This course provides an introduction to the principles of chemistry, including chemical and physical properties of elements and compounds and chemical reactions. As an introduction to organic chemistry, this course also emphasizes molecular structure as it relates to function. Co-Requisite: CHM-110L.

### CHM-110L♦: General and Organic Chemistry 1 credits

The laboratory section of General and Organic Chemistry reinforces and expands learning of principles introduced in the lecture course. Co-Requisite: CHM-110.

#### CHM-111<sup>♦</sup>: General and Organic Chemistry II 3 credits

An introduction to the principles of chemistry, including chemical and physical properties of elements and compounds and chemical reactions. As an introduction to organic chemistry, this course also emphasizes molecular structure. Prerequisite: CHM-110. Co-Requisite: CHM-111L.

#### CHM-111L<sup>♦</sup>: General and Organic Chemistry II 1 credits Lab

The laboratory section of General and Organic Chemistry reinforces and expands learning of principles introduced in the lecture course. Prerequisite: CHM-110L. Co-Requisite: CHM-111.

#### CHM-113<sup>♦</sup>: General Chemistry I-Lecture 3 credits

This is the first course of a two-semester introduction to chemistry intended for undergraduates pursuing careers in the health professions and others desiring a firm foundation in chemistry. The course assumes no prior knowledge of chemistry and begins with basic concepts. Topics include an introduction to the scientific method, dimensional analysis, atomic structure, nomenclature, stoichiometry and chemical reactions, the gas laws, thermodynamics, chemical bonding, and properties of solutions. Co-Requisite: CHM-113L.

#### CHM-113L<sup>♦</sup>: General Chemistry I - Lab 1 credits

The laboratory section of CHM-113 reinforces and expands learning of principles introduced in the lecture course. Experiments include determination of density, classification of chemical reactions, the gas laws, determination of enthalpy change using calorimetry, and determination of empirical formula. Co-Requisite: CHM-113.

#### CHM-115<sup>♦</sup>: General Chemistry II-Lecture 3 credits

This is the second course in a two-semester introduction to chemistry intended for undergraduates pursuing careers in the health professions and others desiring a firm foundation in chemistry. Upon successful completion of this course, students are able to demonstrate knowledge and/or skill in solving problems involving the principles of chemical kinetics, chemical equilibrium, and thermodynamics; understanding chemical reactions using kinetics, equilibrium, and thermodynamics; comparing and contrasting the principal theories of acids and bases; solving equilibrium involving acids, bases, and buffers; describing solubility equilibrium; describing terms associated with electrochemistry and solving problems associated with electrochemistry; and describing the fundamentals of nuclear chemistry. Prerequisites: CHM-113 and MAT-154 or higher. Co-Requisite: CHM-115L.

#### CHM-115L<sup>♦</sup>: General Chemistry II - Lab 1 credits

The laboratory section of CHM-115 reinforces and expands learning of principles introduced in the lecture course. Experiments include determination of rate law, examples of Le Châtelier's principle, the use of pH indicators, buffer preparation, experimental determination of thermodynamic quantities, the use of electrochemical cells, and qualitative and quantitative analysis. Prerequisites: CHM-113L and MAT-154 or higher. Co-Requisite: CHM-115.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### CHM-231\*: Organic Chemistry I

3 credits

This course is the first of two organic chemistry courses. The first half of this course develops the vocabulary and concepts of chemical bonding, chemical structure, acid-base principles, and nomenclature needed to understand properties and reactions of organic compounds. The second half of this course discusses chemical reactions, including radical reactions, substitution and elimination reactions, and synthesis and reactions of alkenes. Students learn how to predict reaction products and draw reaction mechanisms. Organic synthesis and structural determination are also covered. Instruction includes lecture and in-class problem solving. Prerequisites: CHM-115 and CHM-115L. Co-requisite: CHM-231L.

#### CHM-231L♦: Organic Chemistry I Lab 1 credits

The laboratory section of CHM-231 reinforces principles learned in the lecture course through various techniques that organic chemists use to synthesize compounds. Students use these techniques throughout the semester. These techniques include determination of melting point, determination of solubility, thin layer chromatography, recrystallization, and distillation. Structural determination using theories discussed in CHM-231 is applied to unknown compounds. Prerequisites: CHM-115 and CHM-115L. Co-requisite: CHM-231.

#### CHM-232♦: Organic Chemistry II 3 credits

This course is the second of two organic chemistry courses. The course is organized by common organic functional groups, including alkynes, alcohols, ether, aromatic compounds, ketones and aldehydes, amines, carboxylic acid, and carboxylic acid derivatives. The reactions and properties of each functional group are discussed. Students learn how to predict reaction products, draw reaction mechanisms, and predict physical properties. Instruction includes lecture and in-class problem solving. Prerequisites: CHM-231 and CHM-231L. Co-Requisite: CHM-232L.

#### CHM-232L♦: Organic Chemistry II Lab 1 credits

The laboratory section of CHM-232 supports and extends principles learned in the lecture course. Students carry out various organic syntheses using techniques taught in CHM-231. The experiments include preparation of an alkene from an alcohol, a Grignard reaction, preparation of cinnamaldehyde, nitration of methyl benzoate, synthesis of N-Methyl Prozac, an Aldol reaction, Benzimidazole synthesis, and a Diazonium coupling reaction. Prerequisites: CHM-231 and CHM-231L. Corequisite: CHM-232.

#### CHM-235♦: Survey of Organic Chemistry 3 credits

This course is a survey of basic structure and reactivity of carbon-containing structures with examples in biological and industrial processes. Students will learn how to name organic compounds, draw and understand their structures in two and three dimensions, and learn how structure and reactivity are interrelated. Students will be able to describe reactivity in terms of addition, elimination, and substitution. Biological compounds discussed in the course include the structure and reactivity of carbohydrates and polysaccharides followed by amino acids and proteins. The final topic for the course is a discussion about industrially important polymers. Prerequisites: CHM-115 and CHM-115L. Co-Requisite: CHM-235L.

#### CHM-235L<sup>♦</sup>: Survey of Organic Chemistry Lab 1 credits

This is the lab section of CHM-235. It supports the lecture with hands-on activities. Lab experiments expand students' understanding of organic compounds, drawing and understanding their structures in two and three dimensions, and learning how structure and reactivity are interrelated. Students will be able to describe reactivity in terms of addition, elimination, and substitution. Biological compounds discussed in the course include the structure and reactivity of carbohydrates and polysaccharides followed by amino acids and proteins. The final topic for the course is a discussion about industrially important polymers. Prerequisites: CHM-115 and CHM-115L. Co-Requisite: CHM-235.

#### CHM-315<sup>∮</sup> •: Analytical Chemistry

3 credits

This course introduces advanced principles and theory of quantitative analysis, including stoichiometry, equilibria, photometric methods, electrochemistry, separation processes, statistical data analysis, and applications to advanced topics in analytical chemistry. Sampling strategies and sample preparation for analysis will also be discussed. Prerequisite: CHM-235, CHM-235L or CHM-231, CHM-231L. Co-Requisite: CHM-315L.

### CHM- Analytical Chemistry 3 credits 315HN<sup>/♠</sup>:

This course introduces advanced principles and theory of quantitative analysis, including stoichiometry, equilibria, photometric methods, electrochemistry, separation processes, statistical data analysis, and applications to advanced topics in analytical chemistry. Sampling strategies and sample preparation for analysis will also be discussed. Prerequisite: CHM-235, CHM-235L or CHM-231, CHM-231L. Co-Requisite: CHM-315L.

#### CHM-315L<sup>/♦</sup>: Analytical Chemistry Lab 1 credits

This course will discuss the fundamental principles of analytical chemistry. Topics will include sampling strategies, sample preparations and analysis, instrument operation, data collection and statistical analysis, and presentation of results. Prerequisites: CHM-235 and CHM-235L or CHM-231 and CHM-231L. Co-Requisite: CHM-315.

# CHM- Analytical Chemistry Lab 1 credits 315LHN<sup>\*</sup>♦:

This course will discuss the fundamental principles of analytical chemistry. Topics will include sampling strategies, sample preparations and analysis, instrument operation, data collection and statistical analysis, and presentation of results. Prerequisites: CHM-235 and CHM-235L or CHM-231 and CHM-231L. Co-Requisite: CHM-315.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### CHM-333\*: Structure Determination in Organic Chemistry

4 credits

This course discusses the theory and application of spectroscopic methods/techniques useful for the determination of the molecular structures of organic molecules. Topics covered include chemical tests for functional group identification and modern instrumental techniques used for structure determination: ultraviolet/visible, infrared, and nuclear magnetic resonance spectroscopy and mass spectrometry. The major emphasis of this course is on structure determination by way of interpreting the data (generally in the form of a spectrum or spectra) that each method provides. Prerequisite: CHM-232 & CHM-232L.

#### CHM-350<sup>\*</sup>: Fundamental Biochemistry 3 credits

This course provides an introduction to the properties, structure, function, thermodynamics, and basic genetics of macromolecules, including proteins, enzymes, nucleic acids, carbohydrates, and lipids. The course also covers how living systems synthesize and utilize these macromolecules and how that relates to energy production and use. Prerequisites: CHM-111 and CHM-111L, or CHM-115 and CHM-115L. Co-Requisite: CHM-350L.

#### CHM-350HN<sup>t</sup>: Fundamental Biochemistry 3 credits

This course provides an introduction to the properties, structure, function, thermodynamics, and basic genetics of macromolecules, including proteins, enzymes, nucleic acids, carbohydrates, and lipids. The course also covers how living systems synthesize and utilize these macromolecules and how that relates to energy production and use. Prerequisites: CHM-111 and CHM-111L, or CHM-115 and CHM-115L. Co-Requisite: CHM-350L.

#### CHM-350L\*: Fundamental Biochemistry Lab 1 credits

This laboratory course introduces techniques for analyzing macromolecules including carbohydrates, lipids, proteins, and nucleic acids. It also explores basic biochemical pathways utilized by living systems that enable cellular function. Prerequisites: CHM-111 and CHM-111L, or CHM-115 and CHM-115L. Co-Requisite: CHM-350.

### CHM- Fundamental Biochemistry Lab 1 credits 350LHN':

This laboratory course introduces techniques for analyzing macromolecules including carbohydrates, lipids, proteins, and nucleic acids. It also explores basic biochemical pathways utilized by living systems that enable cellular function. Prerequisites: CHM-111 and CHM-111L, or CHM-115 and CHM-115L. Co-Requisite: CHM-350.

#### CHM-360<sup>/♠</sup>: Principles of Biochemistry 3 credits

The course objective is to survey basic biochemical principles, including the composition, structure, and function of proteins, nucleic acids, lipids, and carbohydrates. Important biochemical principles include structure-function correlation, chemical reactivity, kinetics and equilibrium, thermodynamics, membrane structure and function, and metabolic energy pathways. The application of biochemical concepts in the medical field is emphasized. Prerequisite: BIO-181, BIO-181L, CHM-231, CHM-231L. Co-Requisite: CHM-360L.

### CHM- Principles of Biochemistry 360HN<sup>(\*)</sup>:

The course objective is to survey basic biochemical principles, including the composition, structure, and function of proteins, nucleic acids, lipids, and carbohydrates. Important biochemical principles include structure-function correlation, chemical reactivity, kinetics and equilibrium, thermodynamics, membrane structure and function, and metabolic energy pathways. The application of biochemical concepts in the medical field is emphasized. Prerequisite: BIO-181, BIO-181L, CHM-231, CHM-231L. Co-Requisite: CHM-360L.

3 credits

#### CHM-360L<sup>/♠</sup>: Principles of Biochemistry - Lab 1 credits

This laboratory course covers modern biochemical laboratory techniques and their theoretical foundations. Topics include methods for protein, nucleic acid, and lipid isolation and characterization; enzyme assays; chromatography; electrophoresis; and representing and manipulating proteins and nucleic acids. Experiments are designed for hands-on experimentation and students acquire practical techniques currently used in biochemistry laboratories. Prerequisite: BIO-181, BIO-181L, CHM-231, CHM-231L. Co-Requisite: CHM-360.

### CHM- Principles of Biochemistry - Lab 1 credits 360LHN<sup>/♦</sup>:

This laboratory course covers modern biochemical laboratory techniques and their theoretical foundations. Topics include methods for protein, nucleic acid, and lipid isolation and characterization; enzyme assays; chromatography; electrophoresis; and representing and manipulating proteins and nucleic acids. Experiments are designed for hands-on experimentation and students acquire practical techniques currently used in biochemistry laboratories. Prerequisites: BIO-181 and BIO-181L, and one of the following combinations: 1) CHM-331 and CHM-331L or 2) CHM-231 and CHM-231L. Corequisite: CHM-360.

#### CHM-365<sup>†</sup> • Instrumental Analysis 3 credits

This course introduces students to the quantitative, qualitative, and instrumental analysis of various sample types. Methods for selecting proper techniques to answer various questions are discussed. Analytical methods for the qualitative and quantitative analyses of sample by gas chromatography, mass spectroscopy, infrared spectroscopy, fluorescence spectroscopy, capillary and gel electrophoresis, and ultraviolet and visible spectroscopy are also covered. Other techniques, such as high-pressure liquid chromatography and thin layer chromatography, are discussed as well. Prerequisites: 1) CHM-231 and CHM-231L, or 2) CHM-235 and CHM-235L. Co-Requisite: CHM-365L.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### CHMInstrumental Analysis 365HN<sup>/♠</sup>:

3 credits

This course introduces students to the quantitative, qualitative, and instrumental analysis of various sample types. Methods for selecting proper techniques to answer various questions are discussed. Analytical methods for the qualitative and quantitative analyses of sample by gas chromatography, mass spectroscopy, infrared spectroscopy, fluorescence spectroscopy, capillary and gel electrophoresis, and ultraviolet and visible spectroscopy are also covered. Other techniques, such as high-pressure liquid chromatography and thin layer chromatography, are discussed as well. Prerequisites: 1) CHM-231 and CHM-231L, or 2) CHM-235 and CHM-235L. Co-Requisite: CHM-365L.

#### CHM-365L<sup>/♠</sup>: Instrumental Analysis Lab 1 credits

The laboratory section of CHM-365 reinforces and expands learning of principles introduced in the lecture course. This course allows students to apply quantitative, qualitative, and instrumental analysis of various sample types. Focus is on the validity of results. Analytical methods for the qualitative and quantitative analyses of sample by gas chromatography, mass spectroscopy, infrared spectroscopy, fluorescence spectroscopy, capillary and gel are also covered. Prerequisites: 1) CHM-231 and CHM-231L, or 2) CHM-235 and CHM-235L. Co-Requisite: CHM-365.

# CHM- Instrumental Analysis Lab 1 credits 365LHN<sup>/♠</sup>:

The laboratory section of CHM-365 reinforces and expands learning of principles introduced in the lecture course. This course allows students to apply quantitative, qualitative, and instrumental analysis of various sample types. Focus is on the validity of results. Analytical methods for the qualitative and quantitative analyses of sample by gas chromatography, mass spectroscopy, infrared spectroscopy, fluorescence spectroscopy, capillary and gel are also covered. Prerequisites: 1) CHM-231 and CHM-231L, or 2) CHM-235 and CHM-235L. Co-Requisite: CHM-365.

### CHM-420<sup>△</sup> : Environmental Chemistry 3 credits

This writing intensive course focuses on the fundamental chemical principles involved in environmental phenomena and how they are influenced by human actions. Prerequisites: CHM-235 and CHM-235L Or CHM-231 and CHM-231L.

### CHM-440: Toxicology & Instrumental 4 credits Analysis

This course introduces students to the quantitative, qualitative, and instrumental analysis of various biological and non-biological sample types. Analytical methods for the qualitative and quantitative analyses of samples by various chromatography and spectroscopy techniques are detailed. The toxicological section of this course is designed to equip learners with general principles of toxicology, forensic toxicology, and drug metabolism. Topics include chemistry and biological activities, as well as types and effects of drugs of forensic interest in biological material. Prerequisites: CHM-231 and CHM-231L.

#### CHM-441\*: Physical Chemistry I

3 credits

A study of the physical and chemical behavior of substances at the macroscopic and molecular levels. Topics include behavior of single substances and mixtures, thermodynamics, chemical reactions, and equilibria. Prerequisites: CHM-115, CHM-115L, and MAT-262. Co-Requisite: CHM-441L.

#### CHM-441L<sup>♦</sup>: Physical Chemistry I Lab 1 credits

A laboratory course designed to complement and support the principles being learned in CHM-441 lecture. Prerequisites: CHM-115, CHM-115L, and MAT-262. Co-Requisite: CHM-441.

#### CHM-444<sup>♦</sup>: Physical Chemistry II 3 credit

This course is a study of the physical and chemical behavior of substances at the molecular level. Topics include quantum chemistry, molecular structure and spectra, molecular reaction dynamics, and statistical mechanics. Prerequisites: CHM-441, PHY-121 and PHY-121L. Co-Requisite: CHM-444L.

#### CHM-444L<sup>♦</sup>: Physical Chemistry II Lab 1 credits

This is a laboratory course designed to complement and support the principles being learned in CHM-444. Prerequisites: CHM-441, PHY-121 and PHY-121L. Co-Requisite: CHM-444.

#### CHM-448<sup>♦</sup>: Inorganic Chemistry 3 credits

The objective of this course is to provide basic principles and applications of inorganic chemistry. Students will learn about modern atomic structure, structure and bonding in molecules and simple solids, transition metals and coordination chemistry, molecular symmetry, descriptive chemistry of select elements, chemistry of materials, and catalysis. Prerequisites: CHM-444 and CHM-444L. Co-Requisite: CHM-448L.

#### CHM-448L<sup>♦</sup>: Inorganic Chemistry Lab 1 credits

The objective of this course is to learn about a variety of methods and techniques in the synthesis, isolation, characterization, and handling of inorganic and organometallic compounds. Students will also learn about proper interpretation of experimental data, and dissemination of experimental results through presentation and writing technical reports. Prerequisites: CHM-444 and CHM-444L. Co-Requisite: CHM-448.

#### CHM-451<sup>/♦</sup>: Pharmacology I 4 credits

This course presents the foundational concepts of pharmacology emphasizing basic mechanisms of drug action.

Pharmacodynamics and pharmacokinetics principles and theories are presented. The course details the development of the current understanding of receptor signal transduction in mammalian systems. The course introduces the molecular biochemistry of receptor structure; mass action considerations governing ligand-receptor binding interactions; molecular pharmacology associated with signal transduction; and specific considerations of receptors as pharmaceutical targets. Following this introduction, a systematic study of the effects of drugs on representative organ systems and disease processes, the mechanisms by which drugs produce their therapeutic and toxic effects, and the factors influencing their absorption, distribution, and biological actions. Prerequisites: CHM-232 and CHM-232L, CHM-360, and CHM-360L. BIO-205 and BIO-205L, or BIO-215 and BIO-215L.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### CHM- Pharmacology I 451HN<sup>/+</sup>:

This course presents the foundational concepts of pharmacology emphasizing basic mechanisms of drug action.

4 credits

Pharmacodynamics and pharmacokinetics principles and theories are presented. The course details the development of the current understanding of receptor signal transduction in mammalian systems. The course introduces the molecular biochemistry of receptor structure; mass action considerations governing ligand-receptor binding interactions; molecular pharmacology associated with signal transduction; and specific considerations of receptors as pharmaceutical targets. Following this introduction, a systematic study of the effects of drugs on representative organ systems and disease processes, the mechanisms by which drugs produce their therapeutic and toxic effects, and the factors influencing their absorption, distribution, and biological actions. Prerequisites: CHM-232 and CHM-232L, CHM-360, and CHM-360L. BIO-205 and BIO-205L, or BIO-215 and BIO-215L.

#### CHM-452<sup>♦</sup>: Pharmacology II 4 credits

This course is a continuation of Pharmacology I. Concepts and principles learned in the previous course are applied to additional organ systems and disease processes. Topics include cardiovascular drugs, chemotherapeutic drugs, endocrine drugs, and drugs of abuse. Prerequisite: CHM-451.

#### CHM-460<sup>/♠</sup>: Advanced Biochemistry 3 credits

This course presents advanced topics in biochemistry, including mechanisms of metabolic and environmental information transfer, cellular signal transduction mechanisms, metabolic pathway interrelationships and regulation, carbohydrate, lipid and nitrogen metabolism, and the cell cycle and regulation. Prerequisites: CHM-360 and CHM-360L. Co-Requisite: CHM-460L.

# CHM- Advanced Biochemistry 3 credits 460HN<sup>≠</sup>:

This course presents advanced topics in biochemistry, including mechanisms of metabolic and environmental information transfer, cellular signal transduction mechanisms, metabolic pathway interrelationships and regulation, carbohydrate, lipid and nitrogen metabolism, and the cell cycle and regulation. Prerequisites: CHM-360 and CHM-360L. Co-Requisite: CHM-460L.

#### CHM-460L<sup>\*♠</sup>: Advanced Biochemistry Lab 1 credits

This hands-on laboratory course is designed to provide a project-based experience utilizing modern biochemical techniques. This course will reinforce proper experimental design and control and will provide students with experience with several biochemical techniques, including DNA, RNA, and protein extraction from tissue and its analysis. This course will reinforce troubleshooting, confounds to analysis, and application of various techniques to reach a target goal. Co-requisite: CHM-460.

### CHM- Advanced Biochemistry Lab 1 credits 460LHN<sup>/♦</sup>:

This hands-on laboratory course is designed to provide a project-based experience utilizing modern biochemical techniques. This course will reinforce proper experimental design and control and will provide students with experience with several biochemical techniques, including DNA, RNA, and protein extraction from tissue and its analysis. This course will reinforce troubleshooting, confounds to analysis, and application of various techniques to reach a target goal. Co-requisite: CHM-460.

#### CHM-470: Biochemical Applications & Lab 4 credits

This hands-on, experience-based course provides an interdisciplinary investigation of molecular, biochemical, and organic chemistry applications and techniques. This course prepares students in the design, performance, and analysis of a research-based project. Prerequisite: CHM-360, CHM-360L.

#### CHM-505: Concepts of Medicinal Chemistry 4 credits

This focus of the course is the fundamentals of medicinal chemistry. Medicinal chemistry is an organic-chemistry-based discipline that interfaces strongly with the biological and pharmaceutical sciences. The field of medicinal chemistry includes the discovery and preparation of biologically active compounds; the study of their metabolism; the mechanism of action at the molecular level; and the construction of structureactivity relationships. This course includes the process of drug design, the structure and function of macromolecular drug "targets" (receptors, enzymes, nucleic acids), as well as the mechanisms by which drugs interact with their targets. Also, the complexity of human physiology and its effects which on the physical and chemical properties of a drug candidate can influence its absorption, distribution, and metabolism in a human patients will be discussed. Prerequisites: Students should have completed a year of organic chemistry and a course in biochemistry.

#### CHM-510: Concepts of Physical Chemistry 4 credits

The objective of this course is to provide a foundational knowledge on basic principles and applications of physical chemistry. The following topics will be covered: chemical kinetics, chemical equilibrium, and thermodynamics. Additional topics will include applications of physical chemistry principles towards chemical and biological systems including enzymatic reactions; time-dependent chemical and nuclear reactions; electrochemistry; and equilibria related to acids, bases, buffers, and solubility. Prerequisite: Students should have completed a year of general chemistry.

#### CHM-515: Concepts of Inorganic Chemistry 4 credits

The objective of this course is to provide a foundational knowledge on basic principles and applications of inorganic chemistry. The following topics will be covered: modern atomic structure, nomenclature of inorganic compounds, bonding theory, magnetism, periodic trends, and chemical reactivity. Additional topics include fundamentals of organometallic chemistry and transitional element chemistry and their application towards material properties, catalysis, and bioinorganic chemistry. Prerequisite: Students should have completed a year of general chemistry.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### CHM-520: Concepts of Analytical Chemistry 4 credits

The objective of this course is to provide basic and advanced theories, techniques, and principles of qualitative and quantitative analysis. Additional topics may include application of concepts of analytical chemistry to the fields of environmental science, forensic science, and medicine. Students should have a prior understanding of basic quantitative statistics. Prerequisite: CHM-505, CHM-510, CHM-515.

#### CHM-525: Current Topics in Chemistry 4 credits

This course surveys the broad areas of contemporary chemistry research and illustrates the application of chemistry principles. The topics will be determined by current events, technology, faculty and student interest.

#### CHM-530: Concepts of Biochemistry 4 credits

The objective of this course is to survey basic biochemical principles, including the composition, structure, and function of proteins, nucleic acids, lipids, and carbohydrates. Important biochemical principles, including structure-function correlation, kinetics and equilibrium, thermodynamics, membrane structure and function, and metabolic energy pathways, will illustrate the key concepts of biology and chemistry.

# Continuing Nurse Education (CNE)

# CNE-100: Introduction to the United States 0 credits Health Care System for Internationally Ed

This course is designed for Internationally Educated Nurses (IENs) who completed their nursing degree in a country outside the U.S. The course introduces these culturally and linguistically diverse nurses to the complex structures of the U.S. health care system including social, economic, and organizational factors that influence modern health care. Students will examine levels of care, legal and professional obligations in the delivery of care, methods used to ensure safety and quality, as well as approaches that promote interdisciplinary communication and collaboration. Emphasis will be placed on the role and scope of professional nursing practice in the U.S.

### CNE-101: Empowering Internationally 0 credits Educated Nurses for Success

This course is designed for Internationally Educated Nurses (IENs) who completed their nursing degree in a country outside the U.S. The course examines the factors that influence effective communication and team building including cultural awareness, group dynamics, motivation, and engagement. Students identify and develop the skills necessary to achieve cultural competence, effective cross-cultural communication, as well as personal and professional resiliency.

### Counseling (CNL)

#### CNL-500 $^{\Omega}$ : Theories and Models of Counseling 3 credits

This course provides a comprehensive survey of the major counseling theories and principles. Coursework includes the following theories: psychoanalytic, Adlerian, existential psychotherapy, behavioral, cognitive behavioral, person-centered, reality therapy/choice theory, and rational emotive behavioral therapy (REBT).

### CNL-501: Substance Use Disorders and 3 credits Addictions

This course provides a broad understanding of the stages, processes, and effects of substance use disorders, biological, social, and psychological dynamics of substance use disorders, and the professional's role in prevention, intervention, and aftercare, including recovery and relapse prevention. This course explores theories and models of treatment of addiction disorders to include understanding different types of addiction disorders, effective skills, drug classification, and assessment. It also continues building foundational knowledge, utilization of professional resources, and exploration of standards to help students prepare for licensure/certification within the counseling industry.

# CNL- $505^{\Omega}$ : Professional Counseling, Ethical, 3 credits and Legal Considerations

This course provides a broad understanding of counseling ethics, legal standards, and responsibilities, including professional identity, report writing, record keeping, and service reimbursement for clinical mental health and school counselors. Additionally, the history of and current trends in counseling are addressed. Important goals of this course are to help students develop a strong personal and professional ethic, as well as an appreciation of the value of professional collaboration and identity.

#### CNL- $509^{\Omega}$ : Counseling the Culturally Diverse 3 credits

This course provides a broad understanding of issues and trends in a multicultural and diverse society. Studies in this area include the following: attitudes and behaviors based on such factors as age, race, religious preference, physical disability, sexual orientation, ethnicity and culture, family patterns, gender, socioeconomic status, and intellectual ability; individual, family, group, and community strategies for working with diverse populations; theories of multicultural counseling and identity development; multicultural competencies; and issues such as substance use disorders. Students examine a variety of cultural populations, exploring issues and trends that are associated with each population. Cultural considerations for immigrants, refugees, and undocumented citizens are also addressed.

#### CNL-515 $^{\Omega}$ : Counseling Skills 3 credits

This course provides a broad understanding of counseling processes, including characteristics and behaviors that influence the helping processes. Included are age, gender, ethnic differences, verbal and nonverbal behaviors, personal characteristics, and orientations. The development of counseling techniques is emphasized, including establishing and maintaining the counseling relationship; diagnosing and identifying the problem; formulating a preventative, treatment, or rehabilitative plan; facilitating appropriate interventions; and successfully terminating the counseling relationship.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### CNL-518 $^{\Omega}$ : Lifespan and Development

3 credits

This course provides an understanding of the nature, needs, and differing abilities of individuals at all developmental levels. Theories of individual and family development, transitions across the life span, theories of learning, theories of personality development, and ethical and cultural strategies for facilitating optimum development over the lifespan are addressed.

#### CNL-520 $^{\Omega}$ : Group Counseling

3 credits

This course provides a broad understanding of group development, group dynamics, group counseling theories, and ethical standards with reference to professional and substance use disorders counseling. The course addresses group process components, appropriate selection criteria, developmental stage theories, group members' roles and behaviors; and group leadership styles and approaches. The course includes didactic and experiential group learning. Required synchronous group experience: 12 hours. Prerequisite: CNL-515.

#### CNL-521: Counseling Couples and Families 3 credits

This course provides a broad understanding of the structure and dynamics of couples and families, which includes theory, assessment, and application of couples and family intervention and counseling.

### CNL-523: Assessment, Tests, and Measurements

3 credits

This course provides an introduction to basic tests and appraisal in counseling. Individual and group approaches to testing, assessment, evaluation, behavioral observations, computer-managed and computer-assisted methods are addressed. The following statistical concepts are also addressed: scales of measurement, measures of central tendency, indices of variability, shapes and types of distributions, correlations, reliability, and validity.

#### CNL-525: Career Counseling

3 credits

This course provides a broad understanding of career development and related life factors including psychotherapy, career counseling techniques and processes, career development theories, decision-making models, issues of diversity, and interrelationships between work and family.

#### CNL-527: Principles of Psychopharmacology 3 credits

This course introduces students to the basic principles of psychopharmacology and the effects of psychoactive substances. Students examine the behavioral, psychological, physiological and social effects of psychoactive substance use, and learn to recognize symptoms of intoxication, withdrawal, and toxicity. The class covers various screening options, limitations, legal implications, and the utilization of pharmacotherapy as part of substance addiction treatment.

### CNL-530: Human Sexuality and Issues of Aging

3 credits

This course is divided into two distinct and separate sections. The first part of the course examines human sexuality and systems of sexual therapy. Psychological, biological, social, and moral perspectives on sexual development and functioning are also examined. The last part of the course provides an understanding of the nature of aging and older adults. Theories and strategies for facilitating optimum care of older adults are addressed. Elder abuse, dependent adult abuse, and neglect of the aging and older adults are explored. Sexuality, mental health, physical health, the role of substance use disorders, and family issues are also addressed.

### CNL-540<sup>\Omega</sup>: Research Methods and Program 3 credits Evaluation

This course introduces research methods and basic statistical analysis, including the following: the importance of research, opportunities for research, and difficulties in conducting research. Research methods such as qualitative, quantitative, single-case designs, action research, and outcome-based research are addressed.

#### CNL-542: Consulting in Counseling 3 credits

This course provides an overview of the consulting process and dynamics as they relate to the counseling field. The course covers theoretical approaches, models, strategies, and the use of psychoeducation in the consultation process in various settings including counseling. The course also reviews the various roles and functions of a counselor in multiple settings, including human services, education, multidisciplinary, and integrated behavioral health care system.

### CNL-545: Abuse, Crisis, and Trauma 3 credits Counseling

This eight-topic course is divided into three distinct and separate sections. The first three topics examine crisis intervention and trauma counseling; Theories and strategies of trauma counseling and facilitating crisis interventions are also addressed. The second three topics examine spousal or partner abuse assessment, detection, and intervention strategies. The legal and ethical issues, the role of substance use disorders, and children in families where domestic violence and abuse occur are also addressed. The last two topics examine child abuse assessment and reporting. Legal and ethical issues and specific California child abuse assessment and reporting codes are also examined.

#### CNL-600: GCU NCE Readiness Course 0 credits

This course is designed for learners to prepare to take the National Counseling Exam (NCE). The instructor-led, virtual, accelerated course includes a review of the eight content areas of the NCE, knowledge of test structure, exposure to sample test questions, and an opportunity for learners to create an individualized action plan.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

3 credits

This course introduces the study of mental illnesses and the science of psychopathology. The goal is to provide counseling students a conceptual understanding of psychological and behavioral dysfunction that occurs in mental illnesses. The course includes a survey of major psychiatric disorders and their causes. Prerequisite: CNL-610.

### CNL-610: Clinical Assessment, Diagnosis, and 3 credits Treatment

This course provides a conceptual framework for the use of assessment and diagnostic tools for the development of appropriate treatment interventions for a variety of behavioral health and substance use disorders. Included is an introduction to the use of the diagnostic tools, including the DSM, and the integration of diagnostic and assessment information, in the development of treatment plans.

#### CNL-624: Counseling Practicum 2 credits

The practicum course is a distinctly defined, supervised clinical fieldwork experience in which the student develops basic counseling skills and integrates professional knowledge under the supervision of a faculty member or an on-site clinical site supervisor approved by the college or university with a minimum of 1 hour per week of individualized and/or triadic supervision throughout the practicum. Practicum students participate in an average of 1 1/2 hours per week of group supervision via Zoom with a counseling faculty member or student supervisor who is under the supervision of a counselor education program faculty member on a regular schedule throughout the practicum. Documentation of a minimum requirement of 100 hours of counseling-related activities, which includes 40 direct client contact hours, is submitted electronically for verification and tracking. The practicum is completed prior to the internship; therefore, students may not progress to CNL-664A without the required amount of hours submitted, the required amount of individual and group supervision, and proper approval. This course has multiple synchronous required activities. Students must be prepared to be flexible in meeting the demands of this course in order to progress to the internship. Practicum/field experience hours: 100. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Prerequisites: Completion of all didactic coursework in the program; a GPA of 3.0 or better; and maintenance of student professional liability insurance in the amount of \$1 million, \$3 million.

This is a continuation of the counseling practicum. The practicum course is a distinctly defined, supervised clinical fieldwork experience in which the student develops basic counseling skills and integrates professional knowledge under the supervision of a faculty member or an on-site clinical site supervisor approved by the college or university with a minimum of 1 hour per week of individualized and/or triadic supervision throughout the practicum. Practicum students participate in an average of 1 1/2 hours per week of group supervision via Zoom with a counseling faculty member or student supervisor who is under the supervision of a counselor education program faculty member on a regular schedule throughout the practicum. Documentation of a minimum requirement of 100 hours of counseling-related activities, which includes 40 direct client contact hours, is submitted electronically for verification and tracking. The practicum is completed prior to the internship; therefore, students may not progress to CNL-664A without the required amount of hours submitted, the required amount of individual and group supervision, and proper approval. This course has multiple synchronous required activities. Students must be prepared to be flexible in meeting the demands of this course in order to progress to the internship. Practicum/field experience hours: 100. Students must complete the minimum amount of hours required. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Prerequisites: CNL-624; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### CNL-644: Assessment of Mental and 2 credits Emotional Health Status

Students in this course are introduced to a variety of testing instruments used to determine a client's emotional or mental status. Assessment procedures are explored within the context of diagnosis and treatment planning. This course focuses on the administration and interpretation of individual and group standardized tests of mental ability, personality, and measurement.

### CNL-645: Telehealth/Telemedicine in the 42 credits Helping Professions

This course provides the foundation for utilizing telehealth/telemedicine in the helping professions, including technology evaluation, best practices, state and federal regulations, and ethics. In addition, the benefits and limitations of telehealth/telemedicine are discussed.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

The internship course is a distinctly defined, supervised clinical experience in which the student refines and enhances basic counseling and student development of knowledge and skills, and integrates and authenticates professional knowledge and skills related to program objectives. The internship is performed under the supervision of an on-site clinical site supervisor approved by the college or university with an average of 1 hour per week of individualized and/or triadic supervision throughout the internship. Internship students participate in a minimum of 1 ½ hours per week of group supervision via Zoom with a counseling faculty member or student supervisor who is under the supervision of a counselor education program faculty member on a regular schedule throughout the internship. Documentation of 300 hours of counseling-related activities, which includes a required minimum of 120 direct client contact hours, is submitted electronically for verification and tracking. Internship hours: A minimum of 300 total hours of which 120 is total direct hours. Students must successfully complete CNL-624 before progressing to the internship. This course has multiple synchronous required activities. Students must be prepared to be flexible in meeting the demands of this course in order to meet the internship requirements. Practicum/field experience hours: 300. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Prerequisites: CNL-624; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

#### CNL-664B: Counseling Internship II 4 credits

The internship course is a distinctly defined, supervised clinical experience in which the student refines and enhances basic counseling and student development of knowledge and skills, and integrates and authenticates professional knowledge and skills related to program objectives. The internship is performed under the supervision of an on-site clinical site supervisor approved by the college or university with an average of 1 hour per week of individualized and/or triadic supervision throughout the internship. Internship students participate in a minimum of 1 1/2 hours per week of group supervision via Zoom with a counseling faculty member or student supervisor who is under the supervision of a counselor education program faculty member on a regular schedule throughout the internship. Documentation of 300 hours of counseling-related activities, which includes a required minimum of 120 direct client contact hours, is submitted electronically for verification and tracking. This course has multiple synchronous required activities. Students must be prepared to be flexible in meeting the demands of this course in order to meet the internship requirements. Practicum/field experience hours: 300. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Prerequisites: CNL-624 and CNL-664A; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

This is a continuation of the counseling internship. The internship course is a distinctly defined, supervised clinical experience in which the student refines and enhances basic counseling and student development of knowledge and skills, and integrates and authenticates professional knowledge and skills related to program objectives. The internship is performed under the supervision of an on-site clinical site supervisor approved by the college or university with an average of 1 hour per week of individualized and/or triadic supervision throughout the internship. Internship students participate in a minimum of 1 ½ hours per week of group supervision via Zoom with a counseling faculty member or student supervisor who is under the supervision of a counselor education program faculty member on a regular schedule throughout the internship. Documentation of a minimum of 300 hours of counseling-related activities, which includes a minimum of 40 direct client contact hours, is submitted electronically for verification and tracking. This course has multiple synchronous required activities. Students must be prepared to be flexible in meeting the demands of this course in order to meet the internship requirements. Practicum/field experience hours: 300. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Prerequisites: CNL-664B; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### Communications (COM)

#### **COM-100**♦: Fundamentals of Communication 4 credits

This course is an introduction to the field of communication with emphasis on the history of communication study, relevant communication theories guiding current research, the contexts in which communication occurs, and issues faced by students of communication. The course focuses on introducing students to various communication models as well as theories and skills in interpersonal communication, small group communication, mass communication, intercultural communication, and public communication.

### COM-120\*: Creativity, Calling, and 4 credits Communication

This course develops students' communication skills to further innovation, creativity, and human flourishing. Students will study the great thinkers, artists, and creators throughout time and across cultures to develop their own creative voices, identify their calling, and discover their ethical responsibilities as creatives made in the image of the ultimate creator, God. Coursework includes a variety of assignments (writing, performance, and visual media) intended to enrich the communication skills of students from any major.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **COM-210**<sup>♦</sup>: Public Speaking

4 credits

This basic course in oral communication uses focused content to practice the principles of effective oral presentation. The lectures, speaking assignments, and all written work will acquaint the student with the theory, practice, and necessary technological literacy required for effective message building and presentation.

### COM- Honors Public Speaking 4 credits 211HN<sup>/♦</sup>:

This basic course in oral communication uses focused content to practice the principles of effective oral presentation. The lectures, speaking assignments, and all written work will acquaint the student with the history, theory, practice, and necessary technological literacy required for effective message building and presentation.

#### **COM-222**<sup>♦</sup>: Small Group Communication 4 credits

This course examines the principles and processes of small groups and the development of skills for participation and leadership in small group settings, as well as practice in problem solving, decision-making, critical reasoning, and information sharing.

### COM-263<sup>A</sup>•: Elements of Intercultural 4 credits Communication

This writing-intensive course focuses on improving communication among people with different racial, ethnic, cultural, and minority backgrounds. Students explore verbal and nonverbal communication behaviors in a variety of communication media and contexts. Communication styles, rituals, and traditions are explored through an examination of mass media, family structure, religion, politics, education, social life, art, and literature.

#### COM-312<sup>+</sup>♦: Conflict and Negotiation 4 credit

This course is designed to introduce the concepts and theories relevant to understanding conflict communication and the negotiation process. In this course, students are introduced to various elements of conflict and negotiation communication across a variety of contexts including interpersonal, organizational, and international. Upon completion of this course, students will be able to analyze power dynamics in relationships, identify conflict styles and tactics, and apply intervention techniques in contexts that are relevant to their future relationships and careers.

#### COM-333: Communication Ethics 4 credits

This course introduces students to the study of ethics as it applies in the communication field. As aspiring communication professionals, students need to learn how to engage in communication that is not only appropriate but also responsive to sound ethical principles. In this course, students learn about major ethical theories and explore how these theories are applied in workplace communication, interpersonal relationships, mass media, and intercultural communication contexts.

#### COM-355<sup>‡</sup> •: Communication Research Methods 4 credits

This course provides an overview of the concepts, methods, and tools for communication research design, implementation, interpretation, and critical evaluation in communication research. Prerequisite: COM-100.

### COM- Communication Research Methods 4 credits 355HN<sup>/♦</sup>:

This course provides an overview of the concepts, methods, and tools for communication research design, implementation, interpretation, and critical evaluation in communication research. Prerequisites: ENG-106, COM-100, and MAT-144.

#### COM-362<sup>\*</sup> • Argumentation and Advocacy 4 credits

This writing-intensive course introduces students to the relationship between argumentation and advocacy as well as the role of worldviews in shaping the arguments surrounding relevant social issues. This course presents the concepts and skills related to the study of argumentation. Students are introduced to the principles and elements of argumentation in everyday communication across contexts, as well as the skills necessary in constructing and evaluating written and oral arguments.

### COM- Argumentation and Advocacy 4 credits 362HN<sup>≠</sup>:

This writing-intensive course introduces students to the relationship between argumentation and advocacy as well as the role of worldviews in shaping the arguments surrounding relevant social issues. This course presents the concepts and skills related to the study of argumentation. Students are introduced to the principles and elements of argumentation in everyday communication across contexts, as well as the skills necessary in constructing and evaluating written and oral arguments.

#### **COM-370**<sup>♦</sup>: Principles of Public Relations 4 credits

This course investigates the principles and theories of public relations. Students receive an overview of the function and practices of the growing public relations industry in both profit and nonprofit contexts. This course examines the relationships between the public relations practitioner and various groups including clients, consumers, employees, and media.

#### **COM-451**<sup>△/•</sup>: Relational Communication 4 credits

This writing-intensive course focuses on the communication processes in personal relationships such as romantic relationships, family relationships, and friendships. Through quantitative and qualitative methods and other theoretical perspectives, students in this class examine the expression and interpretation of messages in everyday personal interactions as well as significant relational events. Students also explore communication processes involved in developing, maintaining, and dissolving relationships, how communication impacts partners and their relationships, and how to improve relational quality or individual well-being through communication.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### COM- Relational Communication 4 credits 451HN<sup>∆/♦</sup>:

This writing intensive course focuses on the communication processes in personal relationships such as romantic relationships, family relationships, and friendships. Through quantitative and qualitative methods and other theoretical perspectives, students in this class examine the expression and interpretation of messages in everyday personal interactions as well as significant relational events. Students also explore communication processes involved in developing, maintaining, and dissolving relationships, how communication impacts partners and their relationships, and how to improve relational quality or individual well-being through communication. Prerequisite: COM-355.

### COM-453\*: Darkside Communication and 4 credits Forgiveness in Relationships

In this course, students explore the dark side communication behaviors that lead to relational dissolution and the communication behaviors that can facilitate relational repair or restoration. Students explore the impact of deception, betrayal, and aggression in more depth and research the process elements of forgiveness and reconciliation in order that they might be a redeeming influence in their personal relationships.

### COM-455\*: Nonverbal Communication in Relationships 4 credits

In this course, students explore the unique impact that nonverbal communication has in creating and maintaining interpersonal relationships. Building upon knowledge of interpersonal communication gained in previous courses, students in this course dive deeper into how nonverbal choices influence intimacy, self-disclosure, relational satisfaction and maintenance, conflict resolution, and a range of other interpersonal topics of current research in order to become more effective communicators in their close personal relationships. Prerequisite: COM-100.

#### COM-456<sup>\*♠</sup>: Organizational Communication 4 credits

The course covers historical and contemporary organizational theory and application across organizational contexts of corporate communication, team/small group communication, and interpersonal communication. Organizational theory and application topics, including leadership, are covered within each major area.

### COM- Organizational Communication 4 credits 456HN<sup>/♦</sup>:

The course covers historical and contemporary organizational theory and application across organizational contexts of corporate communication, team/small group communication, and interpersonal communication. Organizational theory and application topics, including leadership, are covered within each major area.

#### **COM-457** •: Workplace Relationships

4 credits

In this course, students learn what it takes to build healthy relationships in the workplace. Students investigate the role of motivation, emotional intelligence, diversity, and ethical behavior in promoting effectiveness at work. The class focuses on "people" skills and utilizing these skills in an increasingly teambased and customer-oriented workplace. Content provides opportunities to become more effective in discerning, ethical, flexible, and perceptive behaviors while working with people. Special attention is given to the challenges students will face in interpersonal communication at work and the opportunities that a workplace environment offers in building social virtuosity.

#### COM-461<sup>♦</sup>: Media Theory 4 credits

This course provides students with an overview of media effects and the complex relationship of media producers and users (audiences). Students examine the role of media and media messages in both traditional and new media platforms, learning about different forms of storytelling to influence audiences.

#### COM-463\*: Broadcasting and Podcasting 4 credits

In this course, students learn the basic knowledge and skills necessary for creating broadcast and podcast messages. Students acquire a better understanding of the communication necessary in the preproduction, production, and postproduction stages of broadcasting and podcasting. Course materials include a special focus on auditory and audiovisual presentation elements for presentation on screen and support roles off camera and off air.

#### COM-465<sup>♦</sup>: Digital Media and Culture 4 credits

This course provides students the opportunity to acquire a deeper understanding of how digital technologies are transforming our society and culture. It also offers them the tools to analyze a wide variety of media texts targeted to multiple audiences while exploring the cultural issues raised by new communication technologies.

### COM-471\*: Communication Theory of Political 4 credits Campaigns

Through an examination of relevant philosophical theories, students examine the concept of power and how it influences political communication strategies. Students learn how to apply theories to current political situations.

#### COM-472<sup>♦</sup>: Training and Development 4 credits

This course is designed to help students develop an understanding of training and development in an organizational setting with a particular focus on teaching communication skills and learning the art and science of designing, developing, delivering, and evaluating training and development programs. Training and development as a career field is a significant focus. Prerequisite: COM-355.

#### COM-473<sup>♦</sup>: Political Address 4 credits

In this course, students learn how to create and transmit messages designed for a political campaign. Students, either as a future candidate or speechwriter, analyze and create political addresses, speak and debate with limited preparation, and respond to different crisis that arise in campaigns.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **COM-475**♦: Communication Campaigns

4 credits

Communication campaigns use a myriad of persuasive strategies to reach a specified audience. This course emphasizes the theoretical art of persuasion and strategic applications in communication campaigns. Students analyze a variety of social, political, environmental, health, and marketing campaigns. Additionally, students design and institute a communication campaign of their choosing. Prerequisite: COM-355.

#### COM-477♦: Political Campaign Management 4 credits

In this course, students learn how to successfully manage a political campaign office. Through examination of group dynamics and management techniques, students gain practical skills such as analyzing community demographics, appropriately communicating, and adapting to the community.

#### COM-490<sup>♦</sup>: Communication Capstone 4 credits

This course includes a culminating reflection and collection of integral works from students' time in the major. Students engage in research specific to their career or graduate school goals and develop a project that displays what they have learned while in the program. Students are exposed to practitioners in the communication field. Students are taught how to effectively communicate their research and develop other skills that support a successful transition into the workforce or graduate school. Prerequisite: COM-333, COM-355.

#### **COM-496**♦: Special Topics in Communication 4 credits

In this course, students explore contemporary issues in communication theory, research, and practice. It features subjects of importance in communications that involve research, reading, presentations, and discussions in a seminar format. Featured subjects could be culture, mass media, interpersonal relationships, business, politics, faith, or such other subjects that invite scholarly communication inquiry and serious, focused discussion.

#### COM-500: Relationships in the Workplace 4 credits

This course focuses on theories of interpersonal communication and their application in a variety of professional contexts. The course builds upon a foundation of relational communication theories to address problems that arise in workplace relationships, including leadership communication, managing emotions at work, working in groups, and becoming social influencers. The course builds skills in direct and indirect messaging, listening, managing perceptions and workplace identity, negotiating conflict, and more.

#### COM-505: Organizations, Culture, and Society 4 credits

This course covers theoretical approaches to organizational culture; the processes by which organizations, create, manage, and modify organizational culture; and the ways in which organizational culture is communicated to both internal and external audiences. The course also investigates organizations' larger relationships with society through examining corporate social responsibility, public policy, and ethics and by considering how organizations manage these spheres of influence and weigh business decisions in the larger context of the collective community in which organizations operate.

#### COM-510: Strategic Communication

4 credits

This course focuses on the concepts and theories of strategic communication and their relevance for constructing effective and ethical organizational messages for diverse audiences. The course prepares communicators to make organizational messages meaningful to stakeholders within organizations as well as stakeholders outside organizations. Through an emphasis on real-world applications, students learn how to ethically and effectively persuade through carefully crafted, contextually sensitive messages. The course does so by examining principles and theories of argumentation, persuasion, and behavior change. Students practice skills associated with these concepts as they apply to future career contexts.

#### COM-515: Training, Learning and Pedagogy 4 credits

This course emphasizes principles of pedagogy and student learning in the context of communication studies. Students are encouraged to apply education frameworks and praxis-based training to a communication classroom. Through an emphasis on real-world organizational development, traditional theories of student comprehension, and modern pedagogy, this course prepares students to teach a diverse and eclectic range of communication courses.

#### COM-520: Media Literacy

4 credits

Students in this course learn the underlying theories, methodologies, and effects of media consumption. This course emphasizes the role and influence of television, radio, social media, internet blogs and websites, and other media outlets on a globalized, interconnected world. The course builds on these concepts by encouraging students to critically evaluate everpresent media messages through applied projects and group work.

#### COM-525: Organizational Communication 4 credits

This course investigates the interactions between organizational structure and communication within organizations. Theoretical and methodological analyses are emphasized. Specifically, students in the course examine how discourse, meanings, symbols, and information flow in organizational context.

## Communication Sciences and Disorders (CSD)

### CSD-110: Introduction to Communication 4 credits Disorders

This course provides a broad overview of the field of speechlanguage pathology and audiology and an introduction to specific disorders, related assessments, and evidence-based interventional methodologies. Students are also introduced to issues in the field across the life span. Co-Requisite: UNV-103 or UNV-106.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### CSD-220<sup>‡</sup>: **Speech-Language Development**

In this course, students are introduced to developmental milestones from birth through school age. Students learn developmental patterns and how speech, language, and cognition are acquired and developed. This course also discusses cultural variants in development.

4 credits

#### CSD-230<sup>‡</sup>: **Phonetics and Phonology** 4 credits

This course discusses how speech can be written down, how speech is produced, its acoustic characteristics, and how listeners perceive speech. Learners become well versed in transcription, production, acoustics, and perception. Prerequisite: CSD-220.

#### **CSD-310:** Anatomy and Physiology of Speech, 4 credits Hearing, and Swallowing

The course involves the study of anatomical systems that underlie human communication and swallowing, including respiration, phonation, articulation, and related nervous system processes. In this course, learners build upon knowledge of the interrelated mechanisms and how they function together. Prerequisites: BIO-201, and BIO-201L.

#### **CSD-320:** Speech, Language, and Hearing 4 credits Sciences

This course provides an introduction to the physics and biomechanics of speech production and perception, integrating the fundamentals of acoustics, the human response to sound, and speech and voice production. Measurements of acoustic variables, perception, and communication physiology are discussed. Prerequisites: CSD-310, PHY-111, and PHY-111L.

#### **CSD-330: Introduction to Audiology** 4 credits

In this course, learners are introduced to the field of audiology, including a general overview of anatomical and physiological aspects of hearing. The course discusses different screening procedures, possible diagnoses, and treatment implementation. Prerequisites: CSD-310, CSD-320, PHY-111, and PHY-111L.

#### CSD-340<sup>‡</sup>: **Cultural Responsiveness in** 4 credits **Communication Disorders**

This course uses a cultural humility framework to address the impact of cultural-linguistic factors on clinical service provision. The link between culture and communication is discussed with emphasis on multilingualism, multiculturalism, and the identification of communication differences and disorders. Learners have the opportunity to reflect on their own cultural and linguistic identities and biases to discern how they impact client care. Prerequisite: CSD-110.

#### **CSD-350**<sup>∆</sup>: **Clinical Writing and Reasoning**

This writing-intensive course focuses on clinical planning and documentation skills. Learners practice writing client goals, session notes, and reports. Special emphasis is placed on critical evaluation of documentation from other care providers, integrating information from multiple sources, and explaining clinical reasoning. Learners gain experience writing concise and thorough clinical reports. Prerequisites: CSD-230 and MAT-274.

#### CSD-410: **Aural Rehabilitation**

4 credits

This course covers the disability experienced by people who are deaf and hard of hearing and the options for rehabilitation/habilitation, including amplification and assistive devices, speech reading, educational management, counseling, and ethical considerations. Prerequisites: CSD-320 and CSD-330.

#### **CSD-420: Acquired Neurological Disorders**

This course provides an overview of acquired neurological disorders that commonly lead to communication impairment. Basic neuroanatomy is discussed, with specific attention to the link between the physiology and communication ability. The course addresses sudden-onset and progressive neurological disorders. Prerequisite: CSD-310.

#### CSD-430<sup>‡</sup>: **Professional Issues and Ethical** 4 credits Considerations

This course examines the scope of practice in speech-language pathology and audiology, common professional issues, and ethical practice patterns. The ethics guidelines and legal requirements set forth by the American Speech-Language-Hearing Association, national health care organizations, and state organizations are discussed. Learners learn to communicate with an interprofessional team. Prerequisites: CSD-340 and CSD-420.

#### CSD-440 $^{\Omega}$ : **Introduction to Clinical Practice in 4 credits Communication Disorders**

This course provides an introduction to evidence-based practice and clinical practice patterns in speech-language pathology and audiology. Students critically appraise research, clinical, and client-specific evidence for integration and decision making. Communication screening, assessment, and diagnosis are discussed. Practicum/field experience hours: 25. Fingerprint clearance required.

#### **CSD-490**<sup>ΔΩ</sup>: **Professional Capstone Project and** 6 credits **Practicum**

This writing-intensive course combines scholarly research with clinical practice to translate academic knowledge into a professional environment. The capstone project offers students the opportunity to propose an evidence-based solution with guidance from faculty and a clinical supervisor in the field. Clinical hours: 100. Fingerprint clearance required. Fingerprint clearance required. Prerequisite: CSD-440.

### Computer Science (CST)

#### CST-105**♦**: **Computer Programming I**

This course introduces the fundamental concepts and syntax of the Java programming language. The course focuses on objectoriented techniques in Java with an emphasis on problem solving and fundamental algorithms.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### CST-111\*: Introduction to Computer Science 4 credits and Information Technology

This course provides a foundation for programming and problem solving using computer programming, as well as an introduction to the academic discipline of IT. Topics include variables, expressions, functions, control structures, and pervasive IT themes: IT history, organizational issues, and relationship of IT to other computing disciplines. The course prepares students for advanced concepts and techniques in programming and information technology, including object-oriented design, data structures, computer systems, and networks. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in lecture and on gaining initial exposure to common operating systems, enterprise architectures, and tools commonly used by IT professionals. Prerequisite: MAT-154 or MAT-261.

#### CST-120: Introduction to Web Development 4 credits

This course introduces the fundamental concepts and syntax of the web development languages including HTML, CSS, and JavaScript. The course focuses on foundation required to build complex dynamic web applications.

#### CST-120XV: Introduction to Web Development 4 credits

This course introduces the fundamental concepts and syntax of the web development languages including HTML, CSS, and JavaScript. The course focuses on foundation required to build complex dynamic web applications.

#### CST-135♦: Computer Programming II 4 credits

This course focuses on software development using the Java programming language. The course exposes the relationships between machine architecture and data organization through Java-based projects, including algorithmic machines. Prerequisite: CST-105.

#### CST-150♦: Programming in C# I 4 credits

This course provides an introduction to the fundamentals of C# programming language. The course covers program design and development, debugging techniques, structured and object-oriented programming and basic GUI elements.

#### CST-150XV: Programming in C# I 4 credits

This course provides an introduction to the fundamentals of C# programming language. The course covers program design and development, debugging techniques, structured and object-oriented programming and basic GUI elements.

#### CST-180<sup>♦</sup>: Python Programming I 4 credits

This course provides an introduction to the Python programming language. The course focuses on Python as a modern language with components of object-oriented programming, emphasizing Python as a tool for problem-solving and fundamental algorithms used across many careers and technology roles.

#### CST-180XV: Python Programming I

4 credits

This course provides an introduction to the Python programming language. The course focuses on Python as a modern language with components of object-oriented programming, emphasizing Python as a tool for problem-solving and fundamental algorithms used across many careers and technology roles.

#### **CST-201**<sup>♦</sup>: Algorithms and Data Structures 4 credits

This course covers classical algorithms and data structures, with an emphasis on implementation and application in solving real-world computational problems. The course focuses on algorithms for sorting, searching, string processing, and graphs. Students learn basic strategies to evaluate divide-and-conquer, recursive backtracking, and algorithm efficiency. Hands-on activities focus on writing code that implements concepts and algorithm implementation techniques. Prerequisite: CST-210 or CST-239 or CST-135 or CST-250 or CST-227.

#### CST-201XV: Algorithms and Data Structures 4 credits

This course covers classical algorithms and data structures, with an emphasis on implementation and application in solving real-world computational problems. The course focuses on algorithms for sorting, searching, string processing, and graphs. Students learn basic strategies to evaluate divide-and-conquer, recursive backtracking, and algorithm efficiency. Hands-on activities focus on writing code that implements concepts and algorithm implementation techniques. Prerequisite: CST-210 or CST-239 or CST-135 or CST-250 or CST-227.

### CST-207: Computer Organization and 4 credits Networking

This course introduces the concepts of Computer Organization as a prerequisite for Computer Architecture. Computer organization refers to the way the hardware components are utilized to form a computer system. It covers the hardware details not seen by the programmer, such as digital circuit designs, computer hardware control, types of memories, I/O devices, and the manner in which they are designed, etc. It presents formally, combinational logic design, sequential logical design, digital building blocks, and introduces hardware description languages. A brief introduction to networking gives students an elementary foundation of UDP and TCP/IP protocols. A hardware board with a microcontroller chip is used to reinforce hands-on experience as well as some software tools to help in understanding hardware description languages. Prerequisite: CST-215.

#### CST-210\*: Object-Oriented Programming 4 credits Lecture & Lab

This course provides an in-depth coverage of object-oriented programming using most current application programming methods, languages, and tools. Students will design, create, run, and debug applications. The course emphasizes the development of correct, well-documented programs using object-oriented programming concepts. Prerequisite: CST-111 or CST-105 or CST-180.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### CST-211<sup>♦</sup>: Programming for Engineering & 4 credits Lab

This course provides students with the basic concepts of programming. Students will solve engineering problems by designing and modularizing solutions with proper use of functions and objects. They will understand good techniques of programming style, as well as have the ability to design, code, debug, and document program solutions. Prerequisite: MAT-261.

### CST-215♦: Digital Logic and Design Lecture & 4 credits

This in an introductory course in discrete mathematics with digital logic. Topics covered include Boolean algebra, circuits, number theory, sequences, recursion, sets, functions, and counting. An emphasis will be placed on writing computer programs that address key concepts discussed in lecture. Prerequisite: CST-180 or CST-111 or CST-105.

### CST-217<sup>/◆</sup>: Principles of Database Design and 4 credits Programming Lecture & Lab

This course provides students with the technical skills required to design and implement a database solution using a SQL server. Students use data definition language (DDL) to create and delete database objects, and data manipulation language (DML) to access and manipulate those objects. Students gain hands-on experience with database design, data normalization, SQL subqueries, creating and using views, understanding and working with data dictionaries, and loading and unloading databases. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in the lecture course, specifically creating databases and SQL queries. Prerequisite: CST-105.

### CST-217HN<sup>/♠</sup>: Principles of Database Design and Programming Lecture & Lab

This course provides students with the technical skills required to design and implement a database solution using a SQL server. Students use data definition language (DDL) to create and delete database objects, and data manipulation language (DML) to access and manipulate those objects. Students gain hands-on experience with database design, data normalization, SQL subqueries, creating and using views, understanding and working with data dictionaries, and loading and unloading databases. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in the lecture course, specifically creating databases and SQL queries. Prerequisite: CST-110 or CST-111.

#### CST-221\*\*: Operating Systems Concepts 4 credits

This course is an introduction to UNIX-derived open-source operating systems. Students explore the history and development trends in open-source OS. The course covers the file system, user commands and utilities, graphical user interfaces, editors, manual pages, and shells. Prerequisite: CST-135 or CST-239.

#### CST-227N: Enterprise Applications Programming II

4 credits

This course combines coverage of advanced features of the C# programming language with building complex enterprise applications. Students acquire advanced techniques in managing program flow, the application lifecycle, security, and data access. Prerequisite: CST-117N.

#### CST-235<sup>\*</sup> Computer Programming III 4 credits

This course covers user interfaces, event and exception handling, Java I/O, and the collection framework. Students build applications using software engineering methods including design models and implementation/testing strategies, while learning to assume professional responsibilities. Prerequisite: CST-135.

#### CST-235HN<sup>f</sup>◆: Computer Programming III 4 credits

This course covers user interfaces, event and exception handling, Java I/O, and the collection framework. Students build applications using software engineering methods including design models and implementation/testing strategies, while learning to assume professional responsibilities. Prerequisite: CST-135.

### CST-236\*: Database Application 4 credits Programming II

This course focuses on the development of dynamic web applications using frameworks such as PHP and Python to interact with MySQL and web servers. Students learn to design, prototype, and deploy dynamic, database-driven websites with basic security layers. Prerequisite: CST-126.

#### CST-239<sup>\*</sup>: Programming in Java II 4 credits

This course focuses on software development using the Java programming language. The course focuses on advanced object-oriented techniques in Java along with advanced topics including file I/O, generics, collections, multi-threading, networking, and unit testing. Prerequisite: CST-105.

#### CST-239XV: Programming in Java II 4 credits

This course focuses on software development using the Java programming language. The course focuses on advanced object-oriented techniques in Java along with advanced topics including file I/O, generics, collections, multi-threading, networking, and unit testing. Prerequisite: CST-105.

### CST-247N: Enterprise Applications 4 credits Programming III

This course focuses on the development of dynamic web applications using ASP.NET and C#. Students employ test-driven programming methodologies to develop secure, high-performance, database driven applications. Prerequisite: CST-227N.

#### CST-250: Programming in C# II 4 credits

This course combines coverage of advanced features of the C# programming language with building complex desktop applications. Students acquire advanced techniques in managing program flow, the application lifecycle, security, and data access. Prerequisite: CST-150.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### CST-250XV: Programming in C# II

4 credits

This course combines coverage of advanced features of the C# programming language with building complex desktop applications. Students acquire advanced techniques in managing program flow, the application lifecycle, security, and data access. Prerequisite: CST-150 or CST-117.

### CST-256\*: Database Application 4 credits Programming III

This course focuses on the design and implementation of complex, secure, optimized, and scalable MySQL databases. Students develop high performance database applications using frameworks such as PHP and Python. Prerequisite: CST-236.

### CST-301: Principles of Programming 4 credits Languages Lecture and Lab

This course introduces the syntax and semantics of programming languages, program construction and software design. Lab activities will focus on analyzing the characteristics of context-free languages and solving a variety of languages construction challenges. Prerequisite: CST-201, CST-307.

### CST-305<sup>\*\*</sup>: Principles of Modeling and 4 credits Simulation Lecture & Lab

This course covers applications of differential equations in modeling and simulation. Students use mathematical models for continuous and discrete simulation, and develop applications for complex systems across a variety of domains. Students learn how to represent a system by a model and then execute the model to generate and statistically analyze data. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements differential equation based modeling algorithms and visual simulations. Prerequisite: CST-201, CST-215, MAT-264.

### CST-307\*: Introduction to Computer 4 credits Architecture Lecture & Lab

This course introduces current trends in computer architecture with a focus on performance measurement, instruction sets, computer arithmetic, design and control of a data path, pipelining, memory hierarchies, input and output, and a brief introduction to multiprocessors. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities focus on writing assembly language code that implements concepts discussed in the lecture course, focusing on registers, processes, threads, and I/O management. Prerequisites: (CST-210 and CST-215), or EEE-315.

#### CST-310<sup>♦</sup>: Computer Graphics Lecture & Lab 4 credits

This course covers 2D and 3D concepts, algorithms, and implementation methods using shader-based programming. Main topics covered include coordinate systems, transformations, material simulation, and animation. The laboratory reinforces and expands learning of principles introduced in the lecture. Handson activities focus on writing vertex shaders and fragment shaders to implement light equations for coloring effects, textures, materials, and animation. Prerequisites: CST-201, MAT-262, and MAT-345.

#### CST-315<sup>♦</sup>: Operating Systems Lecture & Lab 4 credits

This course explains the concepts, structure, and mechanisms of modern operating systems. The course covers computational resources, such as memory, processors, networks, security, and how the programming languages, architectures, and operating systems interact. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing a shell that implements process management, file management, and I/O management. Prerequisite: CST-307 or SWE-350.

### CST-317: Principles of Database Design and 4 credits Programming

This course provides students with the technical skills required to design and implement a database solution using a MYSQL and MONGODB servers. Students use data definition language (DDL) to create and delete database objects, and data manipulation language (DML) to access and manipulate those objects. Students gain hands-on experience with database requirements, design, development, and query in relational and document databases, as well as understanding and working with data dictionaries, and loading and unloading databases. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in the lecture course, specifically creating, populating, and querying databases. Prerequisite: CST-210.

#### CST-320<sup>Δ/•</sup>: Human-Computer Interaction and 4 credits Communication Lecture & Lab

This course reviews the basic principles, tools, and techniques used in computer applications that enable communication, visualization, access to information, learning and entertainment. Students learn the methods of designing, implementing and evaluating techniques for effective communication in a technical, business, education or entertainment context. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on experiencing and implementing concepts discussed in the lecture. Students create applications that communicate ideas efficiently and are easy to use. This is a writing intensive course. Prerequisites: CST-201, MAT-262, and (CST-217 or CST-341).

#### CST-321<sup>t</sup>: Operating Systems Fundamentals 4 credits

This course is an introduction to UNIX-derived open-source operating systems. Students explore the history and development trends in open-source OS. The course covers the file system, user commands and utilities, graphical user interfaces, editors, manual pages, and shells. Prerequisite: CST-239 or CST-135 or CST-250 or CST-227.

#### CST-323<sup>♦</sup>: Cloud Computing 4 credits

This course examines cloud computing and its transformative impact on the IT industry. Students develop applications using a Software-as-a-Service (SaaS) model. The course examines the most important APIs used in leading industry cloud service providers. Students will learn how to use the cloud as the infrastructure for existing and new services. Prerequisite: CST-339.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### CST-326<sup>△•</sup>: Written and Verbal Communication for Software Development

4 credits

This course focuses on gathering User Stories and decomposing them into a requirements document, design specifications, and technically managing activities associated with software development. Topics cover the managerial aspect of the software development life cycle, delivery, and integration. Hands-on activities focus on communication using professional Agile-based project management software to implement a system for planning, tracking, and auditing the use of resources within the context of a software project. This is a writing intensive course. Prerequisite: CST-239 or CST-135 or CST-250 or CST-227.

#### CST-335<sup>‡</sup>: Computer Security 4 credits

This course provides students with an understanding of computer security principles, techniques, and best practices. Students explore cryptographic tools, user authentication, and access control. advanced topics such as database security, malicious software, and intrusion detection, as well as ethical and legal aspects of computer security. Students gain knowledge in security measures to protect sensitive information in computing environments. Prerequisite: CST-347.

#### CST-339<sup>‡</sup>: Programming in Java III 4 credits

This course focuses on the development of dynamic web applications using the Spring framework and the Java programming language. Students employ design and programming methodologies to develop secure, high-performance, database driven applications. Prerequisite: CST-239 or CST-135.

#### CST-341<sup>\*</sup>♦: Open Source Computing 4 credits

This course covers the concepts, tools, and frameworks of Open Source software development. Using open source operating systems like Linux, students develop an acquaintance with compilers, scripting languages, frameworks, build tools, APIs, version control software, and their licensing constraints. Students also learn how to participate in and contribute to open-source projects. Prerequisite: CST-135 or CST-235.

#### CST-341HN<sup>/♠</sup>: Open Source Computing 4 credits

This course covers the concepts, tools, and frameworks of Open Source software development. Using open source operating systems like Linux, students develop an acquaintance with compilers, scripting languages, frameworks, build tools, APIs, version control software, and their licensing constraints. Students also learn how to participate in and contribute to open-source projects. Prerequisite: CST-135 or CST-235.

#### CST-345<sup>‡</sup>: Database Design & Development 4 credits

This course provides students with the technical skills required to design and implement a database solution using both relational and non-relational databases. Students use data definition language (DDL) to create and delete database objects, and data manipulation language (DML) to access and manipulate those objects. Students gain hands-on experience with database design, data normalization, SQL sub-queries, creating and using views, understanding and working with data dictionaries, and loading and unloading databases. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on writing code that implements concepts discussed in the lecture course, specifically creating databases and SQL queries. Prerequisite: CST-105 or CST-150.

### CST-347<sup>f</sup>: Parallel and Distributed 4 credits Computing

Parallel and Distributed Computing delves into the principles and practices that empower the design, implementation, and analysis of scalable computing applications for handling large-scale tasks efficiently. Students explore various models of parallel and distributed computing, develop skills in multi-core programming, and engage with real-world applications. Prerequisites: CST-201 and CST-207.

#### CST-350: Programming in C# III 4 credits

This course focuses on the development of dynamic web applications using the ASP.NET framework and the C# programming language. Students employ design and programming methodologies to develop secure, high-performance, database driven applications. Prerequisite: CST-250 or CST-227.

#### CST-351: Native Mobile App Development 4 credits

Students will create feature-rich mobile apps for native platforms. Students will use the latest industry-standard languages in native development frameworks. Applications will have visually appealing user interfaces, utilize standard software architecture principles, and provide solutions to common business problems. Prerequisite: CST-239 or CST-250.

### CST-353: Cross-platform Mobile App 4 credits Development 4

This course offers a comprehensive and hands-on learning experience for students interested in building mobile applications that work across multiple platforms. Through this course, students will gain expertise in leveraging a cross-platform framework to write code once and deploy it across various platforms. From understanding the fundamentals of cross-platform app architecture to implementing platform-specific features, students will learn how to create visually captivating, high-performance, versatile, and efficient cross-platform apps. Prerequisite: CST-239 or CST-250.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### CST-355: Advanced Mobile Development 4 credits

In this course, students expand their skills and delve into the intricacies of building cutting-edge mobile applications. This course delves into advanced topics such as incorporating emerging technologies, cloud integration, advanced user interface (UI) design, and optimizing app performance. Students will learn how to leverage cutting-edge technologies to create immersive user experiences, integrate cloud services for enhanced functionality, and optimize app performance for optimal speed and efficiency. By the end of this course, students will possess the expertise to develop innovative and feature-rich mobile apps that leverage the latest technologies and provide exceptional user experiences. Prerequisite: CST-353.

#### CST-361<sup>/♦</sup>: Design Patterns in Java 4 credits

This course builds upon prior foundations in computer programming by presenting advanced concepts and techniques for improving new code and refactor existing code for simplicity, manageability, and performance. Students expand their skills in object oriented analysis and design, and learn to apply classical design patterns to a variety of object oriented programming challenge. Prerequisite: CST-135.

#### CST-361HN<sup>≠</sup>•: Design Patterns in Java 4 credits

This course builds upon prior foundations in computer programming by presenting advanced concepts and techniques for improving new code and refactor existing code for simplicity, manageability, and performance. Students expand their skills in object oriented analysis and design, and learn to apply classical design patterns to a variety of object oriented programming challenge. Prerequisite: CST-235.

#### CST-381: Web Application Development 4 credits

Using current development trends, students examine several front-end and back-end frameworks used to build web applications. Students learn how to program these modern frameworks, as well as how to integrate them using traditional enterprise technologies. Prerequisites: CST-235 or CST-247 or CST-256 and CST-341. Prerequisites: CST-235 or CST-247 or CST-256 and CST-341.

### CST-391: JavaScript Web Application 4 credits Development

Using current development trends, students examine several front-end and back-end frameworks used to build web applications. Students learn how to program these modern frameworks, as well as how to integrate them using traditional enterprise technologies. Prerequisites: CST-120 and (CST-239 or CST-135) and (CST-345 or CST-236).

#### CST-403: Computer Science Internship I 2 credits

The optional internship provides students the opportunity to work as practitioners within their field and to practice principles learned in their major area of study by working in an outside organization under the supervision of a professional. The internship enables students and organizations to benefit from real-world application of classroom instruction. The internship can substitute for one of the following: STG-451. Prerequisite: Permission of the Director of the Internship Program.

#### CST-404: Computer Science Internship II 2 credits

The optional internship provides students the opportunity to work as practitioners within their field and to practice principles learned in their major area of study by working in an outside organization under the supervision of a professional. The internship enables students and organizations to benefit from real-world application of classroom instruction. The internship can substitute for one of the following: STG-452. Prerequisite: Permission of the Director of the Internship Program.

#### CST-405♦: Principles of Compiler Design 4 credits Lecture & Lab

This course reviews the concepts and tools used in the development of compilers. Students synthesize topics covered in previous courses: formal languages, data structures, and computer architecture. The course reinforces the principles of software engineering and development through a complete cycle of building a working compiler. The laboratory reinforces and expands learning of principles introduced in the lecture. Handson activities focus on writing a compiler including a lexer, parser, semantic analyzer, code generator, and optimizer. Prerequisites: CST-301 and MAT-374.

#### CST-407: Application Security Foundations 4 credits

This course examines security principles for application developers. The course also examines common security vulnerabilities found in modern dynamic web applications, secure programming practices, and how to avoid and illuminate the common security vulnerabilities. Prerequisite: CST-339.

#### CST-410<sup>/♦</sup>: Game Design and Game Play 4 credits Lecture & Lab

This course covers conceptual models for game design. Students analyze various computer games and develop an understanding of game concepts like history, genres, storylines, gameplay elements and challenges, and the design process. Students survey several modern tools and technologies used to create games. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on creating game storyboards, designing game levels with increasing complexity, and representations of real life phenomena and processes. Prerequisite: CST-320.

#### CST-410HN<sup>/♠</sup>: Game Design and Game Play Lecture & Lab

This course covers conceptual models for game design. Students analyze various computer games and develop and understanding of game concepts like history, genres, storylines, gameplay elements and challenges, and the design process. Students survey several modern tools and technologies used to create games. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on creating game storyboards, designing game levels with increasing complexity, and representations of real life phenomena and processes. Prerequisites: CST-305, CST-310, CST-320, and MAT-374.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

The course introduces basic concepts of AI in the gaming context such as finite state machines, fuzzy logic, architectures, planning, and search. Students will work with implementations of common game AI algorithms for behaviors such as path finding, behavior selection, and learning. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on implementing algorithms for flocking, A\* path finding, decision trees, and deterministic finite state machines. Prerequisites: MAT-345, and MAT-374, CST-320.

### CST-416<sup>\*</sup> • Mobile Game Development Lecture 4 credits & Lab

This course explores iterative, rapid application development techniques, and cross platform development environments, to produce and publish a game for a mobile operating systems. Topics covered include performance profiling and optimization, hardware acceleration, designing for small screens, and interaction via mobile device specific inputs. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on creating a complete application for a mobile device and publish it on an online store. The application will utilize the key APIs provided on the device, including location awareness, motion detection, networking, and tactile user interface. Prerequisite: CST-320, MAT-374.

### CST-416HN<sup>/♠</sup>: Mobile Game Development Lecture 4 credits & Lab

This course explores iterative, rapid application development techniques, and cross platform development environments, to produce and publish a game for a mobile operating systems. Topics covered include performance profiling and optimization, hardware acceleration, designing for small screens, and interaction via mobile device specific inputs. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on creating a complete application for a mobile device and publish it on an online store. The application will utilize the key APIs provided on the device, including location awareness, motion detection, networking, and tactile user interface. Prerequisite: CST-305, CST-310, CST-320, MAT-374.

#### CST-424<sup>♦</sup>: Research Methods 4 credits

This course prepares students to conduct research across a range of IT disciplines. The course introduces students to research methods, research design, research ethics, and techniques of data collection and analysis appropriate to IT. While interpreting others' research, students acquire the skills and knowledge to conduct and communicate their own research. Prerequisite: MAT-134 or MAT-154.

#### CST-425\*: Very Large Information Systems 4 c Lecture & Lab

This course introduces modern theories of machine learning and design & implementation models for large scale quantitative, image, and text information systems. The machine learning and information retrieval includes methodologies such as Boolean, vector space, probabilistic, inference net, and language modeling. Students will acquire hands-on experience by implementing models such as clustering algorithms, automatic text categorization, and experimental evaluation. As an introduction to data science theory and techniques, students will experiment with supervised and unsupervised learning algorithms, intelligent text summarization, topic detection, tagging, and tracking. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on implementing techniques for efficiently managing and manipulating very large data sets and build machine learning models. Prerequisites: MAT-374 and (CST-217 or SYM-400) and MAT-345.

#### CST-435<sup>\*</sup>: Search Engines and Data Mining 4 credits Lecture & Lab

This course provides a comprehensive introduction to neural networks and deep learning. The location, retrieval, and conversion of raw data into usable information is accomplished by implementing a variety of neural network models. Students implement deep learning algorithms for organizing and searching very large data collections, like those typically found in enterprise databases and on websites. Students use clustering and categorization to generate various information taxonomies based on document ranking, evaluation, and classification. The laboratory reinforces and expands deep learning principles introduced in the lecture. Hands-on activities focus on using neural networks for performing data mining on a large business database and extracting trends and actionable information. Prerequisites: MAT-374 and (CST-217 or SYM-400)and MAT-345.

#### CST-435HN<sup>/♠</sup>: Search Engines and Data Mining 4 credits Lecture & Lab

This course provides a comprehensive introduction to neural networks and deep learning. The location, retrieval, and conversion of raw data into usable information is accomplished by implementing a variety of neural network models. Students implement deep learning algorithms for organizing and searching very large data collections, like those typically found in enterprise databases and on websites. Students use clustering and categorization to generate various information taxonomies based on document ranking, evaluation, and classification. The laboratory reinforces and expands deep learning principles introduced in the lecture. Hands-on activities focus on using neural networks for performing data mining on a large business database and extracting trends and actionable information. Prerequisites: MAT-374 and (CST-217 or SYM-400) and MAT-345.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course focuses on very large web-based sources of

2 credits

CST-452HN<sup>∆</sup><sup>‡</sup>: Senior Project II

information such as social networks and semantic networks. Students analyze dynamic data and trends, connections (links), and patterns of self-organization. Students then utilize intelligent inferential techniques to interpret patterns in the collected information and translate them into actionable items. Hands-on experiences include marketing, organizational structure, security, and human analytics. Prerequisites: MAT-374 and (CST-217 or

# SYM-400) and MAT-345.

#### CST-440HN<sup>\*</sup>♦: Analytics for Dynamic Social 4 credits **Networks Lecture & Lab**

This course focuses on very large web-based sources of information such as social networks and semantic networks. Students analyze dynamic data and trends, connections (links), and patterns of self-organization. Students then utilize intelligent inferential techniques to interpret patterns in the collected information and translate them into actionable items. Hands-on experiences include marketing, organizational structure, security, and human analytics. Prerequisite: CST-425.

#### **CST-451**<sup>Δ</sup>**!**Ω: Senior Project I 2 credits

The first capstone course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course. Prerequisite: CST-339 or CST-341 or CST-235 or CST-350 or CST-247 or CST-391.

#### CST-451HN<sup>∆</sup><sup>‡</sup>: Senior Project I 2 credits

The first capstone course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course. Prerequisite: CST-410 or CST-424.

#### **CST-452**<sup>∆≠Ω</sup>: Senior Project II 2 credits

The second capstone course provides students the opportunity to implement and present the applied research project designed, planned, and started in the first capstone course. The capstone project is a culmination of the learning experiences while a student in the Computer Science program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. This is a writing intensive course. Prerequisite: Successful completion of CST-451 with a grade of C or better.

project is a culmination of the learning experiences while a student in the Computer Science program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. This is a writing intensive course. Prerequisite: Successful completion of CST-451 with a grade of C or better.

#### CST-461: **Current Trends in Computer** 4 credits **Science Lecture and Lab**

This course surveys current advances in computer science. Topics vary by semester and include current and emerging practice in computer science. Lab activities will focus on handson projects with a variety of technologies, devices, and programming languages. Prerequisite: CST-315, CST-301.

#### CST-490: **Computer Science Capstone** 2 credits Project I

The first capstone course provides students with the opportunity to work in teams to tackle real-world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. Prerequisites: CST-315, and department approval.

#### CST-491: **Computer Science Capstone** 2 credits **Project II**

The second capstone course provides students the opportunity to implement and present the applied research project designed, planned, and started in the first capstone course. The capstone project is a culmination of the learning experiences while a student in the Computer Science program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. Prerequisite: Successful completion of CST-490 with a grade of C or better.

#### CST-520: Design and Analysis of Algorithms 4 credits

The course covers the theoretical fundamentals of computing, and analysis of the inherent capabilities and limitations of computation. Topics include advanced techniques in formal algorithm analysis, classical and modern algorithms, P and NP, polynomial-time reduction, NP-completeness and NP-hardness. Prerequisite: DSC-510.

#### 4 credits **CST-530: Advanced Operating Systems**

This course covers essential concepts in the design and implementation of advanced modern operating systems. Focus areas may include distributed systems and computer networks, interprocess communication, distributed processing, multi-core processors, sharing and replication of data and files. Prerequisite: CST-520.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **CST-535:** Principles of Computer Security 4 credits

This course provides students with a comprehensive understanding of computer security principles, techniques, and best practices. Students will explore encryption algorithms, authentication protocols, access control mechanisms, and secure communication protocols. Advanced topics such as network security, database security, cloud security, and mobile device security will be covered, as well as ethical and legal aspects of data security, including privacy regulations and ethical responsibilities. Students will gain knowledge in security measures to protect sensitive information in various computing environments. Prerequisite: CST-520.

#### CST-540: Programming Languages 4 credits

This course focuses on theoretical models for advanced programming paradigms: functional, imperative, concurrent, and probabilistic programming. Various models of programming languages and type systems are discussed. Students learn to apply programming methodology, transformations, and logic. Prerequisite: DSC-510.

### CST-545: Programming for Artificial 4 credits Intelligence

The Programming for Artificial Intelligence course is designed to provide students with a solid foundation in programming concepts and techniques specifically tailored for developing and implementing artificial intelligence (AI) systems. This course aims to equip students with the knowledge and skills necessary to design, build, and deploy AI applications using Python programming language and frameworks. Throughout the course, students will explore the fundamental principles of AI and its various subfields, including developmental tools, machine learning, and deep learning concepts. They will gain an understanding of the underlying algorithms and methodologies used in artificial networks, as well as supervised, unsupervised, and reinforced learning. Prerequisite: CST-520.

#### CST-550: Parallel Programming 4 credits

This course introduces programming models and languages for programming parallel platforms. Additional topics may include parallel and distributed platforms, parallel and distributed algorithms, message passing, shared memory, and parallel programming applications in a variety of domains. Prerequisite: CST-540.

### CST-560: Research Methods in 4 credits Computational Sciences

This course prepares students for the research process in computational sciences, while developing an appreciation for the philosophy and ethics related to how research is conducted. Students learn how to design experiments, how to test the results using statistical methods, and communicate the findings. Prerequisite: DSC-510.

### CST-570: Machine Learning for Computer 4 credits Science

This course covers fundamental techniques in statistical machine learning, focusing on computational methods for supervised and unsupervised data analysis. Topics may include classification, regression, dimensionality reduction, and clustering. Students will learn and apply a variety of training models and algorithms. Prerequisite: CST-560 or CST-545.

#### CST-580: Artificial Intelligence 4 credits

This course covers key areas of AI focusing on theoretical and practical approaches to designing intelligent systems. Central themes include search, neural networks, probabilistic modeling, and game theory. Students explore specific algorithms and applications in depth, using modern programming paradigms. Prerequisite: CST-570.

#### CST-585: Advanced Applications in AI 4 credits

This course explores the practical applications and tools used in the field of AI. Students will examine AI's impact in areas such as natural language processing, computer vision, robotics, machine learning, and data analytics. They will gain hands-on experience with popular programming languages and frameworks. Advanced topics like deep learning, reinforcement learning, and generative models will be covered, along with ethical considerations and responsible AI practices. By the course's end, students will possess the skills necessary to apply AI techniques to real-world problems and pursue careers in AI research, data science, and software engineering. Prerequisite: CST-570.

### CST-590: Computer Science Capstone 4 credits Project

Students conceptualize, design, and present an innovative idea, process, or a product in the field of computer science. Projects synthesize and apply knowledge from previous courses and include a scientific report anchored in current theory and research. Prerequisite: CST-580 or CST-585.

### Continuing Education (CTE)

### ATP-5600TE: Prevention and Treatment of 3 credits Athletic Injuries

This course provides an opportunity for future and current coaches to acquire and apply knowledge of the prevention and treatment of athletic injuries. Coaches will develop an understanding how to train athletes to prevent injuries and the importance of long-term care when an injury does occur. Additionally, coaches will explore how to recognize an injury, the appropriate response and treatment, medical professional coaches may need to collaborate with, and what to do in an emergency situation.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### BIO-5200TE: Anatomy and Physiology for Coaching

3 credits

This course provides an opportunity for future and current coaches to acquire and apply knowledge of anatomy and physiology. Coaches will develop an understanding of the basic terminology, body organization, and organs. Additionally, coaches will look at how the body works together to maximize performance and promote overall health.

## CEA-5170TE: Legal Considerations in Christian 3 credits Education for Current Practitioners

This course focuses on legal requirements unique to the Christian school. Emphasis is placed on school governance and the rights and issues associated with employees and students as well as pertinent laws and court decisions that govern Christian schools. Emphasis is also placed on advocacy, trends, the legislative process, and analyzing best practices for various organizational structures of Christian schools.

### CEA-5270TE: Christian School Finance for 3 credits Current Practitioners

This course focuses on funding and budgeting of Christian schools. Topics include funding sources, including tuition, capital campaigns, and public funds. Emphasis is placed on ethical and professional behavior in the areas of funding and financial governance in Christian schools. Best practices and sound fiscal approaches to starting, developing, and operating Christian schools are also addressed.

## CEA-5370TE: Christian Educational 3 credits Environments and Communities for Practitioners

This course focuses on the foundations of creating and maintaining a Christian school environment through best practices for various organizational structures of Christian schools. Topics include spiritual practices, managing internal and external stakeholders, conflict resolution, and relational leadership. Emphasis is placed on personal spiritual formation and character development, as well as the creation and promotion of a philosophy of Christian education that is solidly based on biblical principles.

## CEA-5570TE: Educating from a Christian Worldview for Current Practitioners

This course focuses on curriculum and instruction from a Christian worldview. Emphasis is placed on illuminating biblical truth in the overall curriculum planning and daily instruction in academic content areas. Modeling Christlike values and servant leadership on the school campus as well as to the broader community is also addressed.

### EAD-5170TE: Administration and Education Law 3 credits for Current Practitioners

This course introduces educators to the laws and policies governing and relating to PK-12 education in the United States. A broad range of topics will be examined including the values of democracy, individual freedom, and responsibility, as well as equity, social justice, community, and diversity within the educational community. Focus is on the principal's role in ethical decision-making and implementing laws, rights, policies, and regulations to improve outcomes for all students.

### EAD-5230TE: Developing Professional Capacity 3 credits for Current Practitioners

This course prepares practitioners to become effective school-level instructional leaders in the development of professional capacity. Practitioners will evaluate the effectiveness of professional development practices, presentation and facilitation skills, professional learning communities, and mentor programs. Additionally, practitioners will analyze best practices for using technology to increase academic performance.

### EAD-5270TE: Administration of School Finance 3 credits for Current Practitioners

This course examines PK-12 education finance with a fundamental focus on issues and practices that directly affect the operation of the school and local education agency (LEA). Practitioners will be exposed to the regulations encompassed in the Uniform System of Financial Records (USFR) and the implications of these regulations at the school site level. School finance topics related to education at the federal, state, and local levels will be examined. Participants will explore financial aspects of school improvement while managing change.

### EAD-5350TE: Supervision for Instructional 3 credits Improvement

This course prepares candidates to become effective building-level supervisors of instructional leaders. Emphasis is placed on improving instruction, teacher practices, and effective communication. Candidates will examine institutional change, school improvement, staff development, and teacher evaluation. Supervision techniques will be explored, including: mentoring and peer coaching, as well as clinical supervision. Special emphasis will be placed on the skills and strategies needed to develop learning organizations that build an appropriate curriculum, support instructional improvement, and incorporate best practices.

### EAD-5360TE: Crisis Management in Schools for Current Practitioners 3 credits

This course provides participants with the skills needed to prepare for different types of emergencies in K-12 schools and to respond appropriately. Topics are related to response on a personal, classroom and schoolwide crises, are geared towards helping K-12 personnel survive and assist during traumatic situations. Topics addressed include safety procedures, student and staff trauma, crisis response, bullying, and mandatory reporting laws. Incorporating district policy, ethics, and school law are also covered in relation to emergency situations.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### EAD-5371TE: Sustaining Educational Environments and Communities for Practitioners

This course emphasizes the critical role of the leader in creating and sustaining a positive school culture and shared vision. Given diverse settings, contexts, and leadership situations, this course will explore how to manage and cultivate productive relationships with students, families, and the educational community that promote student development and success. Emphasis is placed on effective communication with community stakeholders in a variety of contexts.

#### EAD-5470TE: School Organization and Management for Current Practitioners

3 credits

3 credits

This course explores critical organizational and management issues faced by school principals. Topics explored include recruiting, selecting, and hiring to build a quality workforce that supports school improvement. Focus also includes managing and allocating resources, including technology that supports equity and digital literacy to all learners. Participants also explore promoting school mission and vision to support school community safety and learning.

## EAD-5570TE: Administration of Curriculum and 3 credits Academic Programs for Practitioners

This course prepares practitioners to become effective instructional leaders in the evaluation of schoolwide curricular programs to promote continuous school improvement. Focus is placed on evaluating academic and non-academic practices, services, and curricula to ensure cultural responsiveness, character education and development, equity, and accessibility based on data-driven analysis.

## EAD-5670TE: Coaching and Mentoring to 3 credits Support Teacher Self-Efficacy for Practitioners

Participants are introduced to models and frameworks of change management in the education environment as well as necessary communication skills to manage risk, create buy-in, and build coalitions to promote positive educational change.

## EAD-5770TE: Promoting Effective and Respectful 3 credits Learning Environments for Practitioners

This course prepares practitioners to promote effective and safe learning environments to support school improvement initiatives. Research-based best practices in establishing a consistent, organized, and respectful learning environment will be explored. Emphasis is placed on equitable, inclusive, and culturally responsive practices. Character education is addressed to support the social, emotional, and behavioral well-being of all school community stakeholders, and to sustain a positive learning environment.

#### EAD-5870TE: Distributed and Inclusive Leadership for Current Practitioners

This course prepares educators to become effective building-level instructional leaders who are able to supervise, support and evaluate school staff in a manner that promotes character education, character development, reflection and self-awareness, equity, cultural responsiveness, and distributed leadership. Emphasis is placed on promoting professional dispositions and

3 credits

### EBF-5200TE: Federal Funding for Schools and Districts for Current Practitioners 3 credits

norms that support equity, inclusion, and educational success.

Current practitioners will learn about funding available to districts and/or schools from the federal government. Funding types and the regulations for allocating those funds in compliance with federal guidelines are emphasized.

### EBF-5250TE: State Funding for Schools and Districts for Current Practitioners

Current practitioners will learn about funding available to schools and districts from the state government. Funding types and regulations for allocating those funds in compliance with federal guidelines are emphasized.

### EBF-5300TE: Local Funding for Schools and 3 credits Districts for Current Practitioners

Current practitioners will learn about funding available to schools and districts from local entities. Funding sources, including community organizations, are explored. Ethical and legal management of local funding is emphasized.

#### EBF-5500TE: Managing School Capital and Human Resources for Current Practitioners

Current practitioners will learn about the equitable allocation and distribution of funds and resources available to schools and districts. Legal and ethical use and reporting of funds are emphasized.

#### ECE-5010TE: Foundations of Early Childhood 3 credits

Educators survey the philosophical and historical foundations upon which early childhood educational theories and practices are constructed. Current educational models are explored. Educators examine the application of theories to the early childhood classroom and evaluate their contemporary usefulness in supporting children's academic achievement, cognitive, and physical development, and social and emotional growth through early childhood.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### ECE-5150TE: Typical and Atypical Child Development for Current Practitioners

3 credits

This course explores how young children grow and develop, recognizing that patterns of learning and development vary individually across cognitive, linguistic, physical, and social-emotional areas while understanding the importance of communicating with families on child development. Participants review atypical development, early intervention, and aspects of special education, including Parts B and C of IDEA, IFSPs, IEPs, and 504s. The importance of advocacy and professionalism as an early childhood educator is also examined.

## ECE-5220TE: Instructional Planning/Assessment 3 credits in Early Childhood for Practitioners

Current Practitioners will examine developmentally appropriate practices in teaching young children. Key components include pre-assessment, analysis of data, comprehensive lesson planning, instruction, post-assessment, and reflection. Assessing, monitoring, and reporting the performance and progress of young children is examined. Areas of focus in the course include aligning instruction and assessment to standards, planning support for diverse learners, and the role of technology in assessment.

### ECE-5235TE: Early Childhood Instructional 3 credits Methodologies: Mathematics

Practitioners research instructional methodologies for teaching mathematics to young children. Emphasis is placed on hands-on and inquiry- and manipulative-based learning in mathematics curriculum that practitioners will develop, teach, and assess. Practitioners will also gather and analyze performance data to make instructional decisions. In addition, they will build skills to integrate literacy, science, social studies, and the creative arts into mathematics lessons while strengthening mathematical connections at home.

## ECE-5240TE: Early Childhood Instructional 3 credits Methodologies: Science and Social Studies

Practitioners research instructional methodologies for teaching science and social studies to young children. Emphasis is placed on inquiry-based learning and real-world connections to science and social studies curriculum that Practitioners will develop, teach, and assess. Candidates will also gather and analyze performance data to make instructional decisions. In addition, Practitioners will build skills to integrate literacy, mathematics, and the creative arts into science and social studies lessons while strengthening connections at home. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: None. Co-Requisite: None.

#### ECE-5320TE: Child Development in Health, Safety, and Nutrition for Practitioners

Current practitioners explore child growth and development, including developmental milestones that must be met with regard to physical, cognitive, language, and social and emotional development, as well as adaptability and approaches to learning for young children. This course emphasizes safety, health, and nutrition with a focus on the special healthcare needs of young children. Aspects of physical development, including fitness and movement, gross and fine motor skills, and fostering physical development within the community are discussed.

3 credits

## ECE-5620TE: Family Engagement, Cultural Awareness in Early Childhood for Practitioners 3 credits

In this course, current practitioners examine how child development and the learning process occur in various contexts, including within diverse families and communities. Emphasis is placed on building partnerships and maintaining effective communication between schools, communities, and families to support young children's learning and development.

## ECE-6020TE: Managing and Guiding an Early Childhood Environment for Practitioners 3 credits

Current practitioners examine the guidance approach to create environments that support individual and collaborative learning, encourage positive social interaction, facilitate active engagement in learning, and promote self-motivation. Current practitioners develop skills related to establishing and maintaining safe, inclusive, respectful, challenging, and positive early childhood environments with rules and expectations that are clearly communicated.

## ECE-6500TE: Early Childhood Methods for Practitioners: ELA, Social Studies, and Arts

Current practitioners examine instructional strategies that encourage young children to build reading, writing, and oral language skills in meaningful ways. Emphasis is placed on integrating social studies and the creative arts throughout language arts instruction. Practitioners will also gather and analyze performance data to make instructional decisions. Practitioners will explore best practices when working with children identified with exceptionalities.

## ECE-6600TE: Early Childhood Instructional 3 credits Methodologies for Current Practitioners: STEM

Current Practitioners research instructional methodologies for teaching STEM content (science, technology, engineering, and math) to young children. Emphasis is placed on inquiry-based with problem-solving and interactive learning experiences. Practitioners will also gather and analyze performance data to make instructional decisions to meet the needs of all students. Practitioners will explore best practices when working with children identified with exceptionalities.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECH-5210TE: Early Literacy Development for Current Practitioners

3 credits

This course addresses early language development and teaching strategies, supporting literacy development for those working with students from birth to age 8. The stages of oral and emergent language are addressed through language and literacy development. Application of phonemic and alphabetic principle skills is addressed through hands-on assignments. The course allows learners to demonstrate how an effective literacy environment can be developed.

### ECS-5000TE: Early Childhood Special Education 3 credits - Identification and Eligibility

Current practitioners are introduced to the identifying characteristics of disabilities, including dyslexia, in children birth to age 8/Grade 3. Practitioners will be introduced to the components of the Individuals with Disabilities Education Act (IDEA) to understand the identification, data collection, and referral process for special education. They will identify the risk factors and purpose of early intervention through understanding the characteristics of exceptional children, including dyslexia. Practitioners will survey the different types of family and service plans that are developed to support students with exceptionalities through collaboration with stakeholders.

### ECS-5010TE: Foundational Studies in Early Childhood Special Education 3 credits

This course places primary focus on the fundamental basis of the field of early childhood education and early childhood special education, Birth to Age 8/Grade 3, including historical and philosophical foundations, current practices, ethics, advocacy, models of teaching, and application in early childhood education/early childhood special education settings. Additionally, professional preparation requirements and professional development opportunities in the field are explored.

## ECS-5100TE: Instructional Planning in Early Childhood Special for Current Practitioners 3 credits

This course examines effective instructional planning specific to early childhood and early childhood special education. Current practitioners are introduced to the process of instructional planning from evaluating student needs to creating developmentally appropriate objectives and learning activities, including play-based learning and assessments aligned with state learning standards. Accommodation, modification, and differentiation of instruction and assessment to meet the various needs of learners with and without exceptionalities are examined in the context of early childhood and early childhood special education.

#### ECS-5200TE: Legal Aspects: Early Childhood Special Education for Current Practitioners

This course examines current special education laws and professional practices in the early childhood education setting. Emphasis is placed on the Individuals with Disabilities Education Act (IDEA), assessment, identification, and implementation of services. IFSP, IEP and 504 plans are discussed. Practitioners also incorporate data-based decision making and utilization of assistive technology in instruction.

### ECS-5550TE: Child Development Including Health, Safety, and Nutrition

3 credits

This course explores child growth and development, including developmental milestones that must be met with regard to physical, cognitive, and social-emotional development. The course emphasizes quality childcare, including health, safety, and nutrition with a focus on special healthcare needs for young children. Educators will use data to analyze the development of the whole child and consider best practices for family involvement.

## ECS-5600TE: Child, Family, Cultural, 3 credits Community Relationships, and Advocacy

This course examines historical foundations, theories, and models of building relationships within families and schools, including family characteristics, diversity, multicultural factors, and community relationships. Current practitioners will identify community resources and organizations that support and assist children with and without exceptionalities and their families.

## ECS-5750TE: Early Childhood Phonics and Science of Reading for Current Practitioners 3 credits

This course explores components of typical and atypical literacy development for children Birth to Age 8/Grade 3. Coursework emphasizes research-based phonics development and the science of reading, including phonics, phonemic awareness, vocabulary, fluency and comprehension. Educators focus on assessing developmental and other literacy concerns, including dyslexia, with an emphasis on intervention, remediation, and differentiation strategies to support literacy development in young children.

## ECS-5800TE: Developmentally Appropriate Instruction: ELA, Social Studies, and Arts 3 credits

This course examines cross-content instructional methodologies for teaching language arts, social studies, and the arts to children with and without exceptionalities. Practitioners consider the developmental continuum of literacy instruction based on student data and individual needs. Emphasis is placed on creating project-based instruction that integrates language arts, social studies, and the arts.

### ECS-5850TE: Developmentally Appropriate 3 credits Instruction: STEM Subjects

Current practitioners research instructional methodologies to include inquiry-based and hands-on learning for teaching children with and without exceptionalities with an emphasis on STEM content (science, technology, engineering, and math) instruction. Practitioners use data to differentiate learning outcomes to meet the needs of individual students and develop a unit plan that incorporates all STEM components.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECS-5900TE: Assessment, Evaluation, and Reporting for Early Childhood/Special Education

3 credits

This course provides current practitioners with a robust view of assessment, evaluation, and reporting in early childhood education, including for early identification and development of IFSPs and IEPs for young children, Birth to Age 8/Grade 3. Data are used to assess, monitor, and report the progress of young children with and without exceptionalities.

#### EDL-5170TE: Legal and Ethical Considerations in 3 credits Leadership for Current Practitioners

This course introduces current practitioners to the laws and policies governing and relating to education in the United States. Emphasis is placed on ethical professional practice and personal responsibility. Other topics covered include the educational leader's role in implementing laws, rights, policies, and regulations to improve outcomes for students.

### EDL-5270TE: Resource Management for Current 3 credits Practitioners

Effective management of human and capital resources is a critically important responsibility for system leaders. Leaders need to make the most of potentially scarce resources and align their resource management strategy with the mission and vision of the organization. This course focuses on how current practitioners can identify and allocate resources, including funding, people, facilities, and systems, to promote improvement. Emphasis is placed on collaboration and ethical decision making.

### EDL-5370TE: Becoming a Leader-Manager for Current Practitioners 3 credits

This course emphasizes the critical role of the leader in creating and sustaining a positive school culture and shared vision. Given diverse settings, contexts, and leadership situations, current practitioners will explore how to manage and cultivate productive relationships with students, families, and the educational community that promote student development and success. Emphasis is placed on effective communication with community stakeholders in a variety of contexts.

### EDL-5570TE: Leading with an Entrepreneurial 3 credits Mindset for Current Practitioners

This course introduces practitioners to the entrepreneurial mindset in education that is required to identify emerging trends and promote innovation. Collaborative and data-informed decision-making and risk tolerance and management are emphasized.

### EDL-5670TE: Leading Change for Current 3 credits Practitioners

Current practitioners are introduced to models and frameworks of change management as well as necessary communication skills to manage risk, create buy-in, and build coalitions to promote positive educational change.

#### EDL-5770TE: Leading Projects and Teams for Current Practitioners

3 credits

This course prepares practitioners to promote effective and safe learning environments to support school improvement initiatives. Research-based best practices in establishing a consistent, organized, and respectful learning environment will be explored. Emphasis is placed on equitable, inclusive, and culturally responsive practices. Character education is addressed to support the social, emotional, and behavioral well-being of all school community stakeholders, and to sustain a positive learning environment.

### EDU-0240TE: Teacher Certification Exam 2 credits Preparation

This course is designed for pre-K-12 candidates to develop a strategic plan and identify essential resources for preparing for their state-specific content and professional knowledge certification exams. Students will have access to comprehensive digital study guides and practice tests, equipping them with the necessary tools and knowledge to successfully pass their certification exams.

#### **EDU-5010TE: Teacher Induction Internship** 6 credits

In this course, practitioners will demonstrate evidence of jobembedded induction training and reflection. Focus will be on evidence of inquiry engagement, goal-setting, demonstration and exploration of change in practice, reflection on impact of changes, and peer collaboration. Field experience hours for this course are determine by the State of California and partnering California Induction institution. Completed hours will be tracked by the Induction partner and shared with a GCU liaison for processing purposes. The required field experience hours for this course are unspecified by GCU as these will be dependent on external partners.

## EDU-5050TE: Influences of Family and 3 credits Community Engagement For Current Practitioners

Educators will explore how issues related to family relationships and community environments interplay to influence classroom dynamics. Special attention is given to family interaction patterns, including communication processes, power relationships, open and closed family systems, parent-child relationships, and conflict resolution processes. Emphasis is placed on frameworks, materials, and strategies for building relationships with family and community members as well as the development of successful family and community involvement in the classroom. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-5100TE: Professional, Ethical, and Legal 3 credits Practices and Policies in Education

This course examines PreK-12 education policy from historical, political, economic, and social perspectives. The effects of federal and state laws and policies on the rights and responsibilities of all stakeholders within education will be examined. Emphasis will be placed on educational leadership in the areas of advocacy, community relations, and equitable access to education.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### EDU-5220TE: K12 Curriculum Design and Development For Current Practitioners

3 credits

This course offers an overview of the factors, principles, and elements of curriculum development in the elementary and secondary school. Emphasis is on philosophical and psychological influences in education, as well as designing and evaluating curricular patterns for urban schools.

#### EDU-5270TE: Leadership in Curriculum 3 credits

Current educators will analyze the roles and responsibilities of being a curriculum leader in the K-12 classroom. Focus is placed on transitioning from a teacher to a leader within the school environment. Practitioners will learn strategies for collaborating with education stakeholders to foster a productive and positive learning community. An emphasis is placed on being able to reflect on personal professional practices, including biases, to create relevant and ethical learning experiences for students, as well as colleagues.

### **EDU-5330TE:** Ethics and Advocacy in Education 3 credits for Current Practitioners

In this course, participants examine the foundations and dimensions of social justice in education, with the goal of becoming culturally competent educators while integrating faith, learning, and work. Participants reflect on their own worldview and perceptions, and how those influence professional practice. Emphasis is placed on developing cultural competence and promoting positive relationships both in the classroom and throughout the educational community.

### EDU-5370TE: Leadership and Instructional 3 credits Coaching for Current Practitioners

Educators will learn and apply coaching techniques in school and community settings. Emphasis is placed on improving teacher practices, school culture, and effective communication. Educators will use cognitive coaching and teacher leadership skills.

### EDU-5510TE: Differentiated Instruction for Current Practitioners 3 credits

Educators will use data to differentiate curriculum, instruction, and assessments to foster learning for all students. Focus will be on patterns of learning and development, using technology to differentiate instruction, and developing an engaging classroom environment.

## EDU-5540TE: Methods of Instruction and Assessment for Current Practitioners

In this course, educators will develop skills in aligning objectives, instruction, and assessments. Special attention is given to differentiating curriculum for diverse students and using assessment data to guide instruction. In addition, collaboration with peers and colleagues will be used to achieve instructional goals through action planning. Review of current trends in instruction and assessment are presented to guide instructional decisions with a special focus on the needs of diverse students.

### EDU-5550TE: Classroom Assessment for Mathematics

3 credits

This course promotes the understanding of theories and strategies guiding math instruction within the framework of the Common Core State Standards (CCSS) and National Council of Teachers of Mathematics (NCTM) principles and standards. Practitioners will analyze and integrate multiple methods of K-12 mathematics assessment that support equity, student engagement, and differentiation to meet various student needs. Particular emphasis is given to monitoring student progress to guide instructional practices and decision-making in the mathematics classroom.

## EDU-5570TE: Differentiated and Culturally Responsive Instruction for Practitioners

3 credits

Current educators will use data to differentiate curriculum, instruction, and assessments in ways that foster learning for all students, including using technology. Focus will be on developing an engaging classroom environment, creating opportunities for learners to demonstrate their learning in different ways, and managing the learning environment to actively and equitably engage learners. Current educators will examine frameworks, materials, technology, and strategies for translating the principles of culturally responsive pedagogy into effective educational practice. The emphasis will be on developing curriculum that is bias-free and considers culturally responsive pedagogy, family and community engagement, and global education.

## EDU-5600TE: Language and Literacy 3 credits Development: Phonics and the Science of Reading

Practitioners will examine Science of Reading concepts including decoding, language comprehension and reading comprehension, and how each can be used to teach foundational skills to develop proficient readers with the capacity to comprehend a range of texts across disciplines. Practitioners will build knowledge surrounding research-based language and literacy development approaches related to reading instruction, including the components of reading, while promoting early literacy and independent reading skills for all students, including those with dyslexia and other learning disabilities. Practicum/field experience hours: None. Fingerprint clearance not required.

#### EDU-5650TE: Differentiated Literacy Instruction: 3 credits Assessment, Intervention, Remediation

Practitioners explore proficient reading and writing, instructional models that integrate listening, speaking, reading, and writing. Theoretical principles of the elements of reading instruction are examined to inform assessment, intervention, and remediation practices. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. From this foundational knowledge, practitioners will select, adapt, and use research-based instructional strategies and interventions in academic curricula to advance the learning for all students, with attention focused on reading. Practicum/field experience hours: None. Fingerprint clearance not required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ELM-5000TE: Child and Early Adolescent Development and Psychology for Practitioners

3 credits

Current practitioners survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to the development of children and young adolescents allows practitioners to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge, and motivation.

## ELM-5150TE: Managing Equitable and Engaging 3 credits Learning Environments for Practitioners

Current practitioners examine how to create and manage safe environments that encourage and support individual and collaborative learning, positive social interaction, active engagement in learning, self-motivation, and high expectations for all learners. Practitioners build foundational knowledge regarding the importance of establishing and maintaining equitable and positive collaborative relationships with families, school colleagues, and agencies in the larger community to advocate for and promote the intellectual, social, emotional, and physical growth well-being of children.

#### ELM-5260TE: Literacy Intervention and Remediation for Current Practitioners

3 credits

Current practitioners develop strategies for literacy intervention and remediation to foster and support student autonomy in the classroom. Practitioners build knowledge and skills to plan literacy supports in all content areas, promote self-directed learning, and empower students to take control and set goals for their own learning outcomes. Practitioners design and plan a learning environment that allows active participation from students in their own learning, collaborative goal setting with students and other stakeholders, self-assessment of progress, reflective thinking, questioning with intention, and purposeful feedback.

### ELM-5400TE: Foundational Literacy Skills and Phonics for Current Practitioners

Practitioners will examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Practitioners will build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. Fingerprint clearance is not required.

### ELM-5450TE: Phonics and the Science of Reading 3 credits for Current Practitioners

Current practitioners examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Practitioners build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. With this foundational knowledge, the science surrounding reading instruction is explored and put into practice.

#### ELM-5500TE: Methods of Teaching & Integrating 3 credits Social Studies & the Arts

Current practitioners examine a variety of instructional strategies to encourage learners to develop deep understanding of the major concepts and modes of inquiry from the integrated study of history, geography, the social sciences and other related areas. Practitioners build foundational knowledge on promoting elementary students' abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world. Practitioners integrate the content, functions and achievements of the performing and visual arts as primary media for communication, inquiry and engagement among elementary students.

## ELM-5550TE: Elementary Instructional Planning 3 credits and Assessment for Current Practitioners

Current practitioners examine how instructional planning supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of students and the community context. Practitioners analyze and integrate multiple methods of assessment that support student engagement, monitor student progress, and guide decision-making. Assessment and instruction will support foundational knowledge regarding the importance of planning instruction based on knowledge of students, learning theory, connection across the curriculum, curricular goals, and community, with focused attention on formative and summative assessments.

### ELM-5600TE: Methods and Strategies of Teaching 3 credits Elementary Mathematics

Educators examine a variety of instructional strategies to encourage learners to develop deep understanding of the major concepts and procedures that define number and operations, algebra, geometry, measurement, and data analysis and probability and to build skills to apply knowledge in meaningful ways. Educators build foundational knowledge on engaging problem solving, reasoning and proof, communication, connections and representations to help students successfully apply their developing skills to many different situations, materials, and ideas.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## ELM-5700TE: Methods of Teaching and 3 credits Integrating Science and Health for Practitioners

Current Practitioners examine fundamental concepts of physical, life, earth/space sciences, and health education. Within this course, educators will build foundational knowledge on a variety of age-appropriate inquiry-based instructional strategies to teach science, build student understanding of personal and social applications to convey the nature of science, and student development for the practice of skills that contribute to good health.

#### ELM-5800TE: Methods of Teaching Elementary 3 credits English Language Arts

Educators examine a variety of instructional strategies to encourage learners to develop deep understanding of reading, writing, and oral language and their connections, and to build skills to apply knowledge in meaningful ways. Educators build foundational knowledge on how to use the concepts from reading, language, and child development to teach reading, writing, speaking, viewing, listening, and thinking skills, and to help students successfully apply their developing skills to many different situations, materials, and ideas.

#### ESL-5400TE: Methods of Structured English Immersion for Elementary Current Practitioner

This course examines the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs for K-8 English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Strategies to promote English language development and improve academic achievement are identified. Students plan standards-based instruction for K-8 English language learners. This course satisfies the requirements for SEI Endorsement and is approved by the Arizona Department of Education.

## ESL-5450TE: Methods of Structured English Immersion for Secondary Current Practitioners 3 credits

This course examines the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs for English language learners in secondary education settings. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Strategies to promote English language development and improve academic achievement are identified. Students plan standards-based instruction for English language learners in secondary education settings. This course satisfies the requirements for SEI Endorsement and is approved by the Arizona Department of Education.

#### MMS-5100TE: Classroom Management for Practitioners: Mild to Moderate Disabilities

3 credits

Current practitioners examine strategies for increasing motivation, establishing developmentally appropriate learning environments, and planning effective routines and procedures for students with exceptionalities. Current practitioners analyze data to develop behavior intervention plans and evaluate the effectiveness of behavioral interventions for students with exceptionalities. Current practitioners create safe, respectful, and productive face-to-face and digital learning environments that encourage collaborative skills and peer interaction for students with exceptionalities. Additionally, current practitioners build knowledge of how to mentor and manage paraprofessionals and other stakeholders in their role of supporting individuals and families.

## MMS-5200TE:Instructional Planning in Special 3 credits Education for Current Practitioners

Current practitioners survey instructional strategies, tools, resources, and technology used to design meaningful learning experiences that consider students' strengths and interests, increase motivation for learning, and promote active engagement. Current practitioners design explicit, systematic instruction that provides multiple ways to demonstrate learning and considers the differentiation, modification, and accommodation strategies needed to support all students. Focus is placed on how instruction can vary in different settings, including virtual environments, and how different settings affect peer interactions and collaborative skills

## MMS-5300TE:Language Development, Phonics, and Science of Reading for Practitioners

Current practitioners explore components of typical and atypical literacy development for students with or without exceptionalities. Coursework emphasizes research-based phonics development and the Science of Reading, including phonics, phonemic awareness, vocabulary, fluency, and comprehension. Practitioners focus on assessing developmental and other literacy concerns, including dyslexia and other reading disabilities, using a variety of formal and informal assessments that provide valid, reliable data. Focus is placed on designing learning experiences that implement accommodation strategies to support literacy development, apply flexible grouping, and enhance independent learning.

## MMS-5400TE:Assessment and Eligibility in Special Ed for Current Practitioners 3 credits

Current practitioners will investigate the ethical guidelines and legal policies and procedures that are important to consider during assessment and eligibility determination. Practitioners will build foundational knowledge regarding the use of multiple methods of assessment and data sources for making diagnostic and educational decisions for individuals with mild to moderate disabilities, including when determining modifications to the general education curriculum. Additionally, collaboration with stakeholders to determine, assess, and analyze student needs and progress is explored.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### MMS-5500TE:Instruction, Remediation, and Intervention in ELA for Practitioners

3 credits

This course is designed to equip practitioners with advanced knowledge and skills in literacy instruction. Practitioners will explore the science of reading, research-based ELA instructional strategies, and effective remediation and intervention techniques. Practitioners will learn to utilize assessment data to meet individual needs, plan and execute small-group ELA instruction, and manage literacy-based classrooms. Focus is placed on evaluating current research, developing comprehensive intervention plans, analyzing assessment data, and creating effective instructional and management systems. This course is ideal for educators aiming to enhance their expertise in literacy education and pursue leadership roles in this field.

#### MMS-5600TE:Professional, Ethical and Legal Special Ed Practices for Practitioners

3 credits

This course is designed for current practitioners seeking to deepen their understanding of the complex ethical, legal, and professional landscape of special education. Educators will examine current professional ethical principles and practice standards, explore strategies for navigating ethical dilemmas and legal complexities unique to special education roles, and enhance skills in effective communication and collaboration with diverse stakeholders, including families, administrators, and related service providers. Strategies and resources will be explored to improve communication, progress monitoring, and collaboration in special education settings. Additionally, educators will refine techniques for developing and implementing high-quality Individualized Education Programs (IEPs) that align with ethical standards and legal requirements.

### MMS-5700TE: Case Management and Transition 3 credits Planning for Current Practitioners

Current practitioners examine special education case management practices and strategies and the transition process. Legal and instructional requirements, culturally responsive collaboration and communication, and documentation of students' progress as part of case management and transition planning are explored. Current practitioners investigate collaboration between special education and general education teachers, including when modifying the general education curriculum and planning specially designed instruction that meets the learning needs of students with exceptionalities.

## MMS-5800TE:Math Methods for Students with Mild to Mod Disabilities for Practitioners 3 credits

Current practitioners build foundational knowledge of a variety of research-based instructional materials, strategies, and interventions to advance the learning of students with mild to moderate disabilities in mathematics. Technology, including assistive technology, is explored as a tool for supporting communication and developing higher-order skills while meeting the diverse needs of learners. Current practitioners explore methods for engaging learners in analyzing their own assessment results and setting goals.

#### MSS-5080TE: Survey of Moderate to Severe 3 credits Special Education for Practitioners

Current practitioners survey moderate to severe disabilities including definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders and how to use research-based best practices to meet the diverse needs of students with exceptionalities. A focus is placed on building an understanding of differentiation, modification, and accommodation strategies, tools, and resources that support student learning and active engagement. Practitioners will study the laws and regulations that govern the special education process and examine strategies for advocating for individuals with exceptionalities and their families to address their diverse needs and prevent bias. Additionally, professional development in the field of special education and opportunities to advocate for the profession are explored.

## MSS-5100TE: Case Management, Collaboration, and Communication for Current Practitioners

In this course, current practitioners will develop essential skills in case management, professional collaboration, and effective communication for students with moderate to severe exceptionalities. Through participation in professional learning communities and reflective practices, practitioners will enhance their instructional strategies and recognize the effect of biases. Emphasis is placed on clear communication of student progress and goals to all stakeholders and introduces advanced technologies and strategies for collaborative stakeholder engagement. Additionally, the course provides practical experience in the management of Individualized Education Programs (IEPs) and coordination with interdisciplinary teams.

## MSS-5200TE: Mod-Severe Special Ed Classroom 3 credits Management for Current Practitioners

Current practitioners will learn to create and maintain safe, inclusive, and culturally responsive learning environments that foster the academic and social growth of students with disabilities. Emphasizing collaboration and evidence-based practices, the course focuses on identifying diverse factors affecting student learning and motivation and analyzing various measures of data for identifying the purpose or function served by interfering behavior and designing effective interventions. Instructional strategies will focus on promoting emotional wellbeing, positive social interactions, self-determination and regulation, and intensive small group instruction to enhance collaborative skills in both physical and virtual settings. Practitioners will also develop expertise in establishing routines and using technology to support productive learning environments, and in evaluating and creating data-driven behavior management plans for students with moderate to severe exceptionalities.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### MSS-5300TE: Instruction and Assessment in Mod-Severe Special Ed for Practitioners

3 credits

In this course, current practitioners will explore comprehensive instructional strategies, resources, and assistive technologies tailored to support students with moderate to severe exceptionalities. Focus is placed on creating developmentally appropriate learning environments that reflect individual differences and needs, and to differentiate the general curriculum to enhance access, learning, and successful functioning across various contexts. The course emphasizes designing explicit, systematic instruction that offers multiple ways for students to demonstrate their knowledge and accommodate diverse learning styles. Practitioners will also develop skills in analyzing data to refine instruction, provide targeted feedback, and bolster peer interaction and collaborative skills, with a focus on how these may look different in various settings, including virtual environments.

#### MSS-5500TE: Assessment & Eligibility for Current Practitioners in Mod-Severe Special Ed

3 credits

Practitioners will build a foundational understanding of the evaluation process, which includes selecting appropriate eligibility assessments for diverse case study students and addressing special education eligibility and services legally and ethically. The course also covers the analysis of data to make informed decisions related to student services. Additionally, the course emphasizes strategies for engaging and collaborating with IEP team members through the evaluation and reevaluation process.

## MSS-5800TE: Transition Planning for Current Practitioners in Mod-Severe Special Ed

In this course, current practitioners will delve into transition planning with a focus on equipping students with moderate to severe exceptionalities for seamless transitions to postsecondary life, employment, and community involvement. The course will guide practitioners in crafting measurable postsecondary goals and activities that are closely aligned with students' aspirations, emphasizing the crucial roles of families and interagency collaboration. Practitioners will learn to integrate crossdisciplinary skills into the curriculum, aiding students in generalizing learning across different settings and contributing to local and global communities. The course will concentrate on designing reflective and independent learning experiences that involve students in self-assessment and goal setting, as well as foster a sense of ownership, to ensure students with moderate to severe exceptionalities become proactive participants in their education and transition processes. Additionally, advocacy for improved outcomes will be a central theme, with an emphasis on addressing the diverse needs of individuals from various social, cultural, linguistic, and technological backgrounds.

### PED-5100TE: Methods of Teaching Physical 3 credits Education at the Elementary Level

This course will introduce practitioners to the constructs and instructional practices within physical education (PE) at the elementary level. Emphasis is placed on instructional planning and sequencing, assessment, differentiation, and student engagement. Classroom management is also addressed within the context of elementary physical education instruction.

#### PED-5150TE: Methods of Teaching Physical 3 credits Education at the Secondary Level

This course will introduce practitioners to the constructs and instructional practices within physical education (PE) at the secondary level. Emphasis is placed on instructional planning and sequencing, assessment, differentiation, and student engagement. Classroom management, including rules and procedures, is also addressed within the context of secondary PE instruction.

3 credits

#### PED-5450TE: Methods of Coaching

This course provides an opportunity for future and current coaches to acquire and apply knowledge of methods and theories for coaching adolescent athletes. Participants apply these to develop a personal coaching philosophy and design a practice session in a specific sport. Additionally, coaches explore the social-emotional development of athletes, including promoting a growth mindset and reflective practice and coaching diverse populations.

#### POS-5300TE: Arizona and Federal Government 1 credits for Current Practitioners

This course is a survey of Arizona history and government as well as of American government. It meets the teacher certification requirement for the study of Arizona government and American government.

### POS-5305TE: US Constitution for Current 1 credits Practitioners

This course is a survey US Constitution and American government. It meets the teacher certification requirement for the study of US Constitution and American government.

### POS-5400TE: AZ Constitution for Current 1 credits Practitioners

This course is a survey of Arizona history and government. It meets the teacher certification requirement for the study of Arizona government.

#### PSY-5300TE: Signs of Physical, Emotional, Sexual Abuse, Neglect, and Bullying

Students spend a large amount of time with their teachers, coaches, and educational mentors in various settings. As such, educators can often be one of the first persons to witness and identify the signs and symptoms of abusive settings. This course focuses on identifying and responding to signs of child abuse and bullying. Physical abuse, emotional abuse, sexual abuse, neglect, bullying, and cyberbullying are explored.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### PSY-5350TE: Adolescent Psychology for Coaches 3 credits

This course provides an opportunity for future and current coaches to acquire and apply knowledge of adolescent psychology. Coaches will develop an understanding of typical adolescent physical, intellectual, emotional, and social development, as well as the effects of that development on their overall growth. Additionally, coaches will consider how to apply ethical decision making when working with developing adolescents.

#### PSY-5360TE: Sports Psychology for Coaches 3 credits

This course provides an opportunity for future and current coaches to acquire and apply knowledge of sports psychology for adolescent athletes. Coaches will develop their own coaching philosophy by building knowledge of how to support athletes in setting goals, preparing mentally for performance, and managing stress and anxiety. Additionally, coaches will use knowledge of sports psychology to cultivate an effective team culture and promote the overall student-athlete well-being.

### REA-5000TE: Foundations in Reading For Current Practitioners 3 credits

Educators survey the theoretical and evidence-based foundations of reading and writing processes and instruction. This survey includes an exploration of the historical foundations of reading through current reading and writing development, processes, and components. Educators are introduced to ethical and professional roles of reading specialists and literacy coaches.

### REA-5005TE: Instructional Methods for Students 3 credits with Dyslexia

Educators survey how dyslexia occurs in people of all backgrounds and intellectual levels. This includes early intervention to promote student success throughout school and life. Educators recognize the signs of dyslexia, participate in the identification and assessment process and provide students needed supports through proper instructional strategies, assistive technology, accommodations, and modifications. Practicum/field experience hours: None. Fingerprint clearance not required.

### REA-5100TE: Survey of Reading Assessments for 3 credits Current Practitioners

Practitioners research and describe best practices regarding standardized reading assessments. Educators evaluate effective formative and summative reading assessments to plan and evaluate instruction and identify appropriate interventions that optimize student learning. This survey prepares educators to develop strategic interventions to effectively meet reading and writing needs, communicate assessment results to key stakeholders, and effectively use progress-monitoring tools to address the learning needs of struggling readers and writers.

## REA-5200TE: Introductory Instructional Methods 3 credits for Elementary Reading and Writing

Educators examine instructional methodology and resources that support effective research-based literacy instruction in reading and writing. This survey prepares elementary educators to design an integrated, comprehensive, and balanced literacy curriculum. Topics include instruction of phonics, phonemic awareness, vocabulary, comprehension and fluency in reading, writing, listening and speaking. Identification of struggling readers and differentiation of instructional strategies will also be explored.

### REA-5250TE: Introductory Instructional Methods 3 credits for Secondary Reading and Writing

Educators survey instructional approaches and materials that support middle and secondary student learning in reading and writing. This survey prepares middle and secondary educators to design an integrated, comprehensive, and balanced literacy curriculum.

### REA-5400TE: Advanced Studies in Elementary Content Reading and Writing 3 credits

Educators engage in advanced studies of instructional approaches and materials at the building and district level that support student learning in reading and writing across content areas. From this advanced study, educators work with their colleagues to design an integrated, comprehensive, and balanced literacy curriculum.

#### REA-5450TE: Advanced Studies in Methods for Secondary Content Reading and Writing

Educators engage in advanced studies of instructional approaches and materials at the building and district level that support secondary students' learning in reading and writing across content areas. From this advanced study, educators work with their colleagues to design an integrated, comprehensive, and balanced literacy curriculum.

### REA-5500TE: Literate Environments for Current 3 credits Practitioners

Educators create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments.

## REA-5700TE: Elementary Education Reading Practicum for Current Practitioners 3 credits

The practicum experience requires educators to implement literacy intervention instruction that is designed to meet the specific needs of Elementary students in grades 1-8 and engage in research and analysis to support the compilation and creation of a Literacy Work Sample (LWS). In addition, the candidates coach and provide support to other teachers to think reflectively about improving student learning and implementing various instructional practices. Practicum/field experience hours: 75. Fingerprint clearance required.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## REA-5800TE: Secondary Education Reading Practicum for Current Practitioners

3 credits

The practicum experience requires educators to implement literacy intervention instruction that is designed to meet the specific needs of Secondary students in grades 6-12 and engage in research and analysis to support the compilation and creation of a Literacy Work Sample (LWS). In addition, the candidates coach and provide support to other teachers to think reflectively about improving student learning and implementing various instructional practices. This course requires access to a PK-12 school for practicum experiences. Practicum/field experience hours: 75. Fingerprint clearance required. Practicum/field experience hours: 75. Fingerprint clearance required.

### REA-5850TE: Children's Literature for Current 3 credits Practitioners

Educators will evaluate types and purposes of literature based on the developmental literacy needs of elementary-aged children. Particular emphasis is dedicated to the various genres that exist within the literature spectrum and how to utilize the different genres to meet specific instructional needs, including the use of digital text, to meet literacy goals.

## SEC-5060TE: Early Adolescent and Adolescent Psychology for Current Practitioners

Teacher practitioners will survey how early adolescents and adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, social/emotional, and physical areas. This survey of the seminal concepts, principles, theories, and research related to the development of adolescents will allow practitioners to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge, and motivation.

### SEC-5100TE: Creating and Managing Engaging 3 credits Secondary Learning Environments

This course is designed to allow the educator the opportunity to learn techniques involved in the successful engagement and management of a learning environment. Major emphasis is placed to the establishment of a realistic discipline plan to manage student behavior, as well as engagement and management techniques and strategies to maximize instructional time, classroom procedures, and physical space.

## SEC-5110TE: Creating Engaging Learning Environments for Secondary Practitioners 3 credits

Current practitioners will have the opportunity to explore techniques involved in the successful engagement and management of a learning environment. Major emphasis is placed on the establishment of a realistic plan to actively and equitably engage learners, as well as management techniques and strategies to maximize instructional time, the effectiveness of classroom procedures, and the physical and virtual environment.

#### SEC-5150TE: Assessment and Evaluation for Middle and High School Teachers

3 credits

Teacher practitioners will investigate multiple methods of assessment that support student engagement, monitor student progress, and guide instructional decision-making, specifically for secondary classrooms. Practitioners will build on foundational knowledge regarding various assessment strategies for planning, evaluating, and strengthening instruction to promote the continuous cognitive, social, emotional, and physical development of each student. Focus will be placed on differentiating assessments to meet diverse student needs.

### SEC-5250TE: Methods and Strategies for Middle 3 credits and High School Teachers

This course is designed to foster application of proven teaching and learning methodologies for both instructor and student in order to make appropriate and data-driven decisions about all aspects of teaching. Major emphasis is focused on planning instructional objectives and lessons, assessing objectives, and developing teaching methodology that encourages problem solving, active participation, and assessment.

### SEC-5400TE: Adolescent Literacy for Current 3 credits Practitioners

Teacher practitioners explore research-based strategies for delivering differentiated reading instruction to promote reading proficiency. Language and literacy development is examined to inform assessment, remediation, and intervention practices to support secondary readers and ability levels, including students with dyslexia and other reading disabilities. Using this foundational knowledge, candidates will select, adapt, and use research-based instructional strategies and interventions with attention focused on reading in academic curricula to advance learning in all content areas for adolescent students.

### SEC-5800TE: Curriculum Design for Middle and 3 credits High School Teachers

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined. Emphasis is placed on understanding current structures and trends in middle and high schools, as well as critical issues relating to curriculum and assessment. Course content is strategically planned to enable participants to make informed curriculum decisions in secondary classrooms to meet the needs of a diverse student population. The alignment of educational objectives to standards and building both formative and summative assessments, including rubrics to analyze student learning is also emphasized. This course focuses on the principles and practices involved in curriculum design for secondary classrooms. Teacher practitioners develop their own curriculum unit.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### SPD-5020TE: Characteristics of Students with Mild to Moderate Exceptionalities 3 credits

In this course, educators focus on the key characteristics of K-12 students with mild to moderate exceptionalities including specific learning disabilities, emotional and intellectual disabilities, Autism Spectrum Disorder, language, visual, hearing, orthopedic, and other health impairments, Traumatic Brain Injury, and multiple disabilities. Educators will learn the definition, causes, prevalence of, and potential effects that each exceptionality can have on students' learning. They will also identify research-based instructional and behavior management strategies that can be effective when working with students with these exceptionalities.

### SPD-5030TE: Foundations of Gifted Education 3 credits for Current Practitioners

Participants will explore the historical foundations and evolution of gifted education, including definitions of giftedness. Participants will compare and contrast perspectives of giftedness, and describe characteristics of gifted, talented, and creative students and their implications for academic instruction. Emphasis is placed on identifying major contributors and their contributions to the field of gifted education, as well as major theories of intelligence and their relevance to gifted education. Participants will also examine equity, diversity, and bias in gifted education.

### SPD-5040TE: Autism Spectrum Disorder: Survey 3 credits of Special Education

This course orients educators to the theoretical foundations of autism spectrum disorder (ASD). Educators will focus on the unique needs of students with ASD and their responsibilities to respond to those needs. This course also examines legal and ethical considerations when collaborating and advocating for students with ASD and families in the school environment.

### SPD-5050TE: Foundations in Autism Spectrum 3 credits Disorder

This course orients special educators to the theoretical foundations of autism spectrum disorders (ASD). Special educators will focus on the exceptional needs of students with ASD and teacher's responsibilities to determining eligibility and assessment. This course also examines diagnoses and implications in the school environment.

#### SPD-5060TE: Survey of Moderate to Severe Special Education for Current Practitioners

Current practitioners are introduced to the educational needs of students with moderate to severe exceptionalities including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Candidates define low-incidence disabilities and identify cognitive, linguistic, social, emotional and behavioral patterns of learning and development for individuals with moderate to severe exceptionalities.

### SPD-5070TE: Autism Spectrum Disorder: Inclusive Practices

3 credits

In this course, educators will look at how individuals with autism spectrum disorders (ASD) experience difficulties in the areas of social acceptance and social communication. Emphasis is placed on how interactions with their typically developing peers can allow for opportunities to learn social skills and increase communication skills. Educators will determine the definition of inclusion and research how it impacts students with disabilities. Specific focus is placed on how to support students with ASD in an inclusive environment, including supports in the areas of environmental, social/emotional, behavioral and communication.

### SPD-5080TE: Survey of Special Education for Current Practitioners 3 credits

Current practitioners are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. They will identify cognitive, linguistic, social, and emotional patterns of learning and development for students with mild to moderate disabilities and examine culturally responsive teaching practices when responding to the needs of individuals with exceptionalities and their families. Current practitioners also survey the special education process involving the application of various laws and regulations.

#### SPD-5100TE: Professional, Ethical, and Legal 3 credits Practices and Policies in Special Ed

Educators survey professional ethical principles, professional practice standards, law and regulations that guide special educators. Educators build upon the foundational knowledge to understand the multiple roles and complex situations of professional practice that require attention to a variety of legal, professional, and ethical issues.

## SPD-5110TE: Autism Spectrum Disorder: 3 credits Instructional Strategies and Interventions

Educators will determine strategies to align with the different ways individuals with autism spectrum disorder (ASD) think, learn, and behave in the classroom. Educators will use differentiated instruction and Universal Design for Learning (UDL) strategies to design interventions based on process, content and product, including specific strategies for engagement and speech and language support. Educators will support an inclusive environment with all instructional strategies.

## SPD-5130TE: Instructional Methods in Gifted Education for Current Practitioners

This course outlines instructional techniques used to address the individual learning needs, strengths, styles, and preferences of gifted, talented, and creative students in K-12 classrooms. Participants explore the design of differentiated curriculum and instruction for gifted learners. Emphasis is placed on differentiation strategies that improve student achievement through use of instructional strategies targeting large groups, small groups, and individuals.

3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### SPD-5150TE: Assessing Instructional Methods for 3 credits Autism Spectrum Disorders

The focus of this course is to provide methods for improvement of instruction, based on assessment for students with autism spectrum disorders (ASD). Special educators will focus on instructional planning, adaptive practices, and intervention strategies established through assessment analysis.

#### SPD-5170TE: Autism Spectrum Disorder: Data-Driven Assessment 3 credits

This course provides educators the opportunity to explore how behavioral, academic, and social assessments are used when determining effective instructional strategies and interventions for students with autism spectrum disorders (ASD). A focus is placed on synthesizing data to make instructional decisions that support students in a variety of settings. Educators will look at how to gather data during instruction and monitor progress of students' IEP goals.

## SPD-5200TE: Collaborations and 3 credits Communications in Special Education

Educators survey theories and models for effective collaboration and communication with students with exceptionalities, colleagues, other school professionals, families and community members. In addition, educators will apply collaboration and communication theories and models, incorporating technology, across a wide range of contexts to ensure active involvement in the education process for students with exceptionalities.

#### SPD-5230TE: Creativity and Talent Development 3 credits in Gifted Education for Practitioners

In this course, participants study the theoretical and practical aspects of creativity and explore how it can be developed in gifted, talented, and creative students. Participants analyze definitions of creativity and learn techniques for stimulating creative thinking as well as strategies for adapting existing curricula to develop creative thinking abilities in students. Emphasis is placed on the assessment of creative thinking, methods for enhancing personal creative abilities, and techniques for examining the creative process.

### SPD-5250TE: Applied Behavior Analysis and Autism Spectrum Disorder 3 credits

The focus of this course is to provide special educators with advanced knowledge of applied behavior analysis in regards to accommodations for students with autism spectrum disorder. Special educators will focus on assessing individual needs, tools for intervention, and evaluating strategies and student progress.

### SPD-5270TE: Autism Spectrum Disorder: Positive Behavior Support

3 credits

Special educators will explore the behavioral needs of students with autism spectrum disorder (ASD) and learn about positive behavior supports that can be used to address these behavioral needs. Special educators will focus on the specific sensory, communication, and behavior supports that can be applied to address and change behavior. The course also examines environmental factors affecting the behavior of students with ASD and the responsibility of teachers in determining and implementing evidence-based practices to address the unique behavioral needs of students with ASD.

### SPD-5370TE: Autism Spectrum Disorder: 3 credits Advocacy, Policy, and Ethics

Practitioners will acquire knowledge of legal policy and ethical practices associated with students with autism spectrum disorder (ASD). This course focuses on rights and responsibilities, trends, and advocacy for students with ASD. Topics including implicit bias, equity, and inclusion are also addressed. Practitioners will review collaborative practices and relationship building techniques to foster sharing as part of the IEP process when working with students with ASD.

### SPD-5400TE: Managing Learning Environments 3 credits for Special Ed Mild to Moderate

Educators examine how to create safe, inclusive, culturally responsive learning environments through collaboration with colleagues so that individuals with exceptionalities become active and effective learners and develop emotional well-being, positive social interactions, and self-determination. Educators focus on behavior management, functional behavior assessments, adaptive behaviors, positive behavior interventions and supports, and behavior improvement plans.

### SPD-5411TE: Assistive Technology for Current 3 credits Practitioners

Practitioners examine a variety of assistive technology (AT) devices used to support differentiated instruction and Universal Design for Learning (UDL) for students with disabilities. Practitioners investigate methods of integrating high- and low-tech AT resources to support the reading, writing, and communication needs of students who may need modifications and accommodations to meet learning goals in all content areas.

### SPD-5470TE: Autism Spectrum Disorder: 3 credits Collaboration and Leadership

This course addresses collaboration and leadership opportunities for practitioners working with the many stakeholders involved in the delivery of services for students with autism spectrum disorders. Practitioners will complete needs assessment activities and explore collaborative practices, problem-solving techniques, and conflict resolution strategies with stakeholders to promote the advancement of the profession. Leadership, creation and facilitation of professional development activities, and creating and sustaining productive work environments will be emphasized.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SPD-5500TE: Instructional and Transitional 3 credits Planning for Students with Mild to Moderate 3

Educators will examine how instructional planning advances the learning of students with mild to moderate disabilities by drawing upon knowledge of central concepts, structures of the discipline, and tools of inquiry of the academic subject-matter content areas and a variety of specialized curricula. Educators build foundational knowledge about individualized education plans and transition plans for a wide range of settings and different learning experiences. Educators engage in organizing knowledge, integrating cross-disciplinary skills, and developing meaningful individualized learning progressions through drafting an IEP.

### SPD-5505TE: Transition Planning to Support 3 credits Post-Secondary Goals

Educators will examine curriculum needs of individuals with mild to moderate disabilities to develop and integrate the skills needed to transition students from the educational environment into successful postsecondary opportunities. Candidates focus on writing measurable postsecondary goals, creating aligned activities, and identifying the importance of family and interagency involvement.

### SPD-5510TE: Professional, Ethical, and Legal 3 credits Practices for Moderate to Severe

Current practitioners survey professional ethical principles, professional practice standards, laws, and regulations that guide special educators. Practitioners build upon this foundational knowledge to examine the multiple roles and complex situations of professional practice related to individuals with moderate to severe exceptionalities.

### SPD-5530TE: Assessing and Identifying Gifted Learners for Current Practitioners 3 credits

This course focuses on developing skills to assess intelligence, achievement, creativity, and other dimensions of giftedness. Educators evaluate assessment procedures of gifted and talented students, including identification, placement and programming. Emphasis is placed on reviewing the principles of assessment and evaluation that apply to the education of gifted, talented, and creative students, including testing, performance-based assessments, and other methods of observations and student evaluations in K-12 classrooms.

### SPD-5560TE: Assessment and Eligibility for 3 credits Moderate to Severe

Current practitioners investigate diagnostic and assessment tools for determining student eligibility and monitoring for progress. Foundational knowledge is built regarding the use of multiple methods of assessment and data sources for diagnostic and educational decisions for individuals with moderate to severe exceptionalities. Practitioners analyze assessment data and develop an individualized education plan (IEP) for a student. Ongoing collaboration with IEP team members and external stakeholders is emphasized.

### SPD-5570TE: Autism Spectrum Disorder: Transitions and Life Skills

3 credits

This course addresses key requirements of the postsecondary transition plan and collaboration with stakeholders in school and the community. Practitioners will learn about appropriate transition assessments, aligned activities, and preparation for adult life. In addition, practitioners explore postsecondary options, adult services, and living options for adults with autism spectrum disorder.

## SPD-5580TE: Care, Collaboration, and 3 credits Communication for Moderate to Severe

Teacher practitioners explore effective collaboration and communication techniques and strategies used in moderate to severe special education settings. Collaboration among teachers, other school professionals, families, and outside service agencies is analyzed to meet the individual needs of this special population. In addition, evaluation of the techniques and strategies used to meet the unique medical and educational needs of students within the moderate to severe classroom setting is addressed. Practicum/field experience hours: None. Fingerprint clearance not required.

### SPD-5600TE: Enhancing Communication Skills of Mild to Moderate Disabilities 3 credits

Educators examine typical and atypical language development, and associated disabilities and disorders. Educators investigate the use of augmentative and alternative assistive technology, modifications and accommodations to enhance the communication skills of students with mild to moderate disabilities.

## SPD-5620TE: Instructional Planning, Strategies, and Assessment for Moderate-Severe

Current practitioners examine how instructional planning advances the learning of students with moderate to severe disabilities by creating a variety of specialized curricula aligned to content standards. Practitioners are guided in designing engaging instruction that meets the needs documented in a student's individualized education plan. Plans for accommodations, differentiated instruction, and strategies are identified in the lesson planning process. Formative and summative assessments are created to evaluate student progress and identify whether instructional adjustments are necessary.

## SPD-5630TE: Gifted Programming and Environments for Current Practitioners

This course explores the development of effective programs in gifted education. Educators evaluate gifted education programming related to gifted curriculum models, focus on the development of a well-founded rationale for gifted programming, compare appropriate delivery models for gifted programs, and identify comprehensive services for gifted, talented, and creative students. Emphasis is placed on evaluating and modifying learning environments and classroom climates to assist students who are gifted, talented, and creative to adapt to their environment, as well as advocating for gifted programs.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## SPD-5640TE: Classroom Management and 3 credits Behavior Analysis for Moderate to Severe

Current practitioners examine how to create safe, inclusive, culturally responsive learning environments through collaboration with colleagues and other professionals so individuals with disabilities become active and effective learners. Strategies to develop students' emotional well-being, positive social interactions, and self-determination are emphasized. Practitioners focus on functional behavioral assessments, behavior improvement plans, activities of daily living, and positive behavior interventions and supports.

## SPD-5650TE: Effective Communication and Assistive Tech for Autism Spectrum Disorders

This course explores functional communication training and specific strategies to promote effective communication behaviors or skills of students with ASD. In addition, educators will survey assistive technology in relation to enhancing communication of students with autism spectrum disorders.

#### SPD-5660TE: Post-Secondary Transitional Planning - Moderate to Severe Disabilities

Participants examine curriculum needs of individuals with moderate to severe disabilities to develop and integrate the skills needed to transition students from the educational environment into successful postsecondary opportunities. Participants focus on writing meaningful transition plans, aligning transition goals to appropriate instruction, and identifying the importance of family and interagency involvement. While helping families navigate their local and state level resources, participants learn to best support students with moderate and severe disabilities after graduating high school.

## SPD-5670TE: Autism Spectrum Disorder: 3 credits Assistive Tech and Communication Strategies

This course explores functional communication training and specific strategies to promote effective communication behaviors or skills of students with autism spectrum disorder (ASD). Practitioners will survey assistive technology in relation to enhancing communication of students with autism spectrum disorders. Consideration of how to manage challenging expectations, show respect and improve ethical practice to promote advocacy and collaboration will extend to the home environment for life-skill application.

### SPD-5680TE: Adaptive Communication for Moderate to Severe

Current practitioners examine typical and atypical language development, and associated disabilities and disorders. Practitioners investigate how speech-language pathologists, special education teachers and others assist individuals with moderate to severe exceptionalities in the use of augmentative and alternative assistive technology, modifications, and accommodations to enhance their communication skills.

#### SPD-5700TE: Methods of Teaching Math to Students with Mild to Moderate Disabilities

3 credits

Educators build foundational knowledge on a variety of research-based instructional strategies to encourage individuals with mild to moderate disabilities to develop understandings and connections within content areas and to build skills to apply knowledge in meaningful ways. From this foundational knowledge, teacher candidates select, adapt and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning of students with mild to moderate disabilities with focused attention upon mathematics.

## SPD-5705TE: Methods of Teaching Secondary Math to Students with Mild-Mod Disabilities 3 credits

Practitioners build foundational knowledge on a variety of research-based instructional strategies to encourage individuals with mild to moderate disabilities to develop understandings and connections within content areas and to build skills to apply knowledge in meaningful ways. From this foundational knowledge, practitioners select, adapt and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning of students with mild to moderate disabilities with focused attention upon mathematics at the secondary level.

## SPD-5720TE: Methods of Teaching Functional 3 credits Mathematics & Science for Moderate to Severe

Current practitioners build foundational knowledge on a variety of research-based instructional strategies to provide individuals with moderate to severe exceptionalities appropriate access to content areas. From this foundational knowledge, practitioners select, adapt, monitor, and adjust standards, instruction, and assessments with focused attention on functional mathematics and sciences. Emphasis is placed on utilizing relevant resources and technology and communicating with other education stakeholders to support standards-based instruction for students with moderate to severe disabilities.

### SPD-5730TE: Social and Emotional Needs of 3 credits Gifted Learners

In this course educators use current research and material relevant to assisting gifted, talented, and creative students in addressing social- and emotional issues that may arise. Emphasis is placed on topics pertinent to gifted education, including students who are twice- exceptional, or profoundly gifted, and issues related to perfectionism, gender, underachievement, and special populations.

## SPD-5800TE: Methods of Teaching English Language Arts to Students with Mild to Moderate

Educators select, adapt, and use research-based instructional strategies and interventions in academic and specialized curricula to individualize meaningful and challenging learning for students with mild to moderate disabilities, with an emphasis on literacy.

3 credits

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### SPD-5820TE: Methods of Teaching Functional Language Arts for Moderate to Severe

3 credits

Current practitioners select and adapt research-based instructional strategies, including the use of assistive and adaptive technology, to provide individuals with moderate to severe exceptionalities access to language arts content. With this foundational knowledge, practitioners plan a functional approach to literacy instruction and transition planning.

## SPD-5850TE: Educational Psychology for Special 3 credits Education for Current Practitioners

This course provides a thematically arranged study of the theories and principles of psychology that have influenced instructional practices. Behavioral and cognitive approaches to learning, motivation, and instruction are explored.

#### SPD-5930TE: Practicum I: Gifted Education 3 credits

This course provides a reflective, experience-based integration of theory and practice. Candidates develop a useful, meaningful, and practical project that includes a schoolwide needs assessment and program development that will be presented to their peers. This course requires access to a K-12 school with a gifted program for practicum experiences. Practicum/field experience hours: 60. Fingerprint clearance required. Practicum/field experience hours: 60. Fingerprint clearance required.

#### SPD-5940TE: Practicum II: Gifted Education 3 credits

This practicum course engages teachers in a field-based action research project. Each participant assesses students exhibiting gifted characteristics, then creates and implements individualized one-on-one action plans with the students based on their assessment results. Practicum/field experience hours: 60. Fingerprint clearance required.

### SPD-5950TE: Methods of Educating Learners 3 credits with Diverse Needs

Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, and transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the general classroom.

### TEC-5160TE: Instructional Technology for 3 credits Educators

This course introduces students to ISTE·S and ISTE·T standards for students and teachers; digital citizenship and responsibility; legal and ethical use guidelines; and transitioning instruction to integrate technology. Technology dispositions, expectations, and guidelines are emphasized for being a 21st century educator. Educators apply an understanding of design principles in visual communication theory and incorporate multiple intelligences and constructivist theories into an interactive environment. In addition, attention is given to instructional technology tools and resources.

### TEC-5210TE: Digital Literacies, Virtual Tools, and New Media

This course focuses on the organization and integration of media in school curricula. Learners identify instructional purposes and define roles for technology and media in learning and teaching. An emphasis is placed on the processes for selecting and implementing meaningful technologies, virtual tools and other electronic learning resources, and the development of digital literacies in teaching and learning.

3 credits

### TEC-5300TE: Ethics, Culture, and Equity with 3 credits Technology

This course examines current educational practices and policies related to technology integration in schools so that practicing educators may determine what level of support these policies provide, regardless of student population. Educator participants will also examine legal standards for fair use of materials, digital citizenship, and authenticating sources. Emphasis is placed on the critical examination of social and cultural implications of information technologies and media, issues of cultural bias, equity, and international applications and implications of information technologies.

### TEC-5360TE: Assessment and Instructional 3 credits Technology

This course focuses on various technology-based assessment tools used for formative and summative assessments. Learners use tools to make data-driven decisions to drive curriculum and differentiate instruction. The content of this course includes use of digital media for progress monitoring or as assessment tools and creating and using alternative assessments. An emphasis is placed on understanding assistive technology and application in instructional programs and assessment for individuals with exceptionalities.

#### TEC-5410TE: Distance Learning 3 credits

This course expands educator's knowledge of lesson preparation and activities, as well as basic curriculum development and design principles for distance education. The course explores distance education and online instruction, including history, theories, and practical applications. A variety of online facilitation techniques are explored in this course. An emphasis is placed on understanding distance education development and delivery, exploring the complexities of designing instruction in various distance contexts and applying these concepts in a real-world context through online facilitation.

### TEC-5440TE: Leadership and Technology 3 credits Coaching

This course examines the role of leadership as it relates to the implementation of educational technologies and media. An emphasis is placed on knowledge, and skills necessary to use, evaluate, plan, manage, and implement technologies effectively. Participants will learn and apply professional development techniques to include andragogy, coaching, improving teacher practices, school culture, and effective communication.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### TEC-5610TE: Multimedia Instructional Strategies 3 credits and Methods

This course provides participants with instructional strategies using learning theories. Focus is placed on developing knowledge and skills to create multiple types of web-based assignments and units for K-12 students using web authoring software. Participants learn to select and evaluate appropriate multimedia resources, and examine steps for planning, creating, and managing curriculum using software and tools for a variety of platforms. Emphasis is placed on project-based learning.

### TSL-5320TE: Foundations of Instruction for English Language Learners 3 credits

This course provides the historical, sociological, political, and legal foundations of policies and methodologies for English Language Learners (ELLs) in the United States. Emphasis is placed on understanding, comparing, and evaluating current language models as well as examining the learner and the influences on his/her language development. This course focuses on current instructional practices, adapting lesson structure and delivery to meet the needs of learners, and emphasizes the importance of continuing professional development associated with teaching practices.

### TSL-5410TE: Linguistics for Current 3 credits Practitioners

In this course, educators become familiar with the fundamentals of linguistics. Emphasis will be placed on psycholinguistics, sociolinguistics, and first and second language acquisition. Educators will synthesize research-based methods of incorporating linguistic principles into their teaching practice.

### TSL-5500TE: School, Community, and Family Culture for Current Practitioners 3 credits

In this course, educators will explore school, community, and family culture. Emphasis will be placed on the major goals, principles, and concepts of multicultural education, including understanding individual needs and learning differences. Research is utilized to investigate the social, community, cultural, and familial contexts that influence learning and development. Focus will be placed on creating a positive classroom environment through culturally inclusive teaching.

### TSL-5501TE: School, Community, and Family 3 credits Culture

In this course, educators will explore school, community, and family culture. Emphasis will be placed on the major goals, principles, and concepts of multicultural education, including understanding individual needs and learning differences. Research is utilized to investigate the social, community, cultural, and familial contexts that influence learning and development. Focus will be placed on creating a positive classroom environment through culturally inclusive teaching. Practicum/field experience hours: 15. Fingerprint clearance required.

### TSL-5520TE: Literacy in Bilingual Settings for 3 credits Current Practitioner

In this course, educators will examine approaches to develop literacy in second and native languages in pre-K-12 schools. Emphasis will be placed on techniques for developing listening, speaking, reading, and writing skills; developing language and literacy through the content areas; using children's and young adult multicultural literature; and assessing students' literacy development in the second and native languages. Strategies to develop biliteracy in dual language programs will also be discussed.

#### TSL-5580TE: ELL and Bilingual Curriculum and 3 credits Methods of Instruction

In this course, educators will review curriculum and methods appropriate to the teaching of subject areas in bilingual and English language learner instructional settings. Emphasis is placed on linguistic, cognitive, developmental, and sociocultural considerations when exploring methods and materials to design multicultural curricula for use in language arts and content area classrooms.

### TSL-5650TE: ELL and Bilingual Assessment for 3 credits Current Practitioners

In this course, educators will explore the principles of evaluating and structuring assessments. Educators will examine assessment for the purposes of identification, placement, and instructional delivery. Emphasis will be placed on learning ways to integrate assessment procedures into any curriculum and designing assessment tasks that allow for improved learning of all students.

## TSL-5680TE: Methods for Practitioners to Teach and Evaluate ELLs with Exceptionalities

In this course, educators will be introduced to the teaching and evaluation of English language learners (ELLs) with exceptionalities, including students with special education needs and gifted students, who receive bilingual/native language and/or English language instruction and support. Emphasis will be placed on researching the complexity of disproportional representation of ELLs in gifted and special education programs or services. Educators will explore cultural and linguistic considerations in identifying bilingual/ELL students with exceptional needs and examine appropriate instructional support.

#### TSL-5750TE: Spanish for Educators – Basic 3 credits

In the course, current practitioners develop strategies for communicating with Spanish-speaking students and families. Beginning Spanish grammar and basic phrases are used to communicate in the educational environment and support students' wholistic growth. Current practitioners review methods and resources for supporting Spanish-speaking students and families.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### TSL-5752TE: Spanish for Educators – Advanced 3 credits

In this course, current practitioners continue to work towards effective communication with Spanish-speaking students and families in the educational environment. Practitioners advance their ability to use a variety of phrases and conjugated verbs. Additionally, they will practice multiple forms of communication with families in a variety of academic situations to support student success.

#### TSL-5900TE: TESOL or BLE Practicum 3 credits

In this course educators have direct participation and experience with ELLs or bilingual/dual language students at their chosen level of instruction, within a Pre-K-12 educational setting. Educators will practice teaching and management skills, conduct assessments, and learn to communicate effectively with students, parents, colleagues, administrators, and the larger community. Practicum/field experience hours: 60. Fingerprint clearance required.

#### Christian Worldview (CWV)

#### CWV- $101^{\Omega \bullet}$ : Christian Worldview 4 credits

A worldview acts like glasses through which one views the world. In this course, students explore the big questions that make up a worldview, questions like "Why are we here?" and "What is my purpose?" Students examine how Christians answer these questions and work on exploring their own worldviews, as well as learning how worldview influences one's perceptions, decision-making, and everyday life.

### CWV- Christianity: Story, Theology and 4 credits $106 HN^{/\Omega \Phi}$ : Mission

This honors course is an introduction to the Christian worldview and how it shapes beliefs, identity, values, ethics, and cultural awareness. The focus of this honors course is to engage students in discourse about what it means to think and live as a follower of Christ within a historical, global, and social context. Prerequisite: Acceptance into the honors program.

#### CWV-301 $^{\Omega \bullet}$ : Christian Worldview 4 credits

A worldview acts like glasses through which one views the world. In this course, students explore the big questions that make up a worldview, questions like "Why are we here?" and "What is my purpose?" Students examine how Christians answer these questions and work on exploring their own worldviews, as well as learning how worldview influences one's perceptions, decision-making, and everyday life.

#### CWV-316<sup>‡</sup>: Christian Life: The Way of Jesus 4 credits

This course is an advanced exploration of the Christian worldview that shows how the Christian life provides true identity, meaning, peace, and joy. Students learn how to authentically follow Jesus in a way that will transform their lives through intentional practices and life together in community. Focus is also placed on human value, human dignity, and ethical reasoning in academic studies and careers. Prerequisite: CWV-101, CWV-301, or CWV-106HN.

### Cybersecurity (CYB)

### CYB-201: Algorithms and Discrete 4 credits Mathematics for Cybersecurity

This in an introductory course in algorithm analysis with applications in discrete mathematics. Topics covered include complexity analysis, finite logic, Boolean algebra, sets, functions, counting, finite state machines, automata, regular expressions, and cryptography. Learners will determine how variability affects outcomes and assess the suitability of an algorithm to solve a given problem. Practicum/field experience hours: None. Algorithms and Discrete Mathematics for Cybersecurity. Prerequisites: MAT-154 and CST-111 or ITT-111.

### CYB-201XV: Algorithms and Discrete 4 credits Mathematics for Cybersecurity

This in an introductory course in algorithm analysis with applications in discrete mathematics. Topics covered include complexity analysis, finite logic, Boolean algebra, sets, functions, counting, finite state machines, automata, regular expressions, and cryptography. Learners will determine how variability affects outcomes and assess the suitability of an algorithm to solve a given problem. Prerequisites: MAT-154 and CST-111 or ITT-111.

### CYB-220: Cyber Law and Privacy in a Digital 4 credits Age

The Internet Age has introduced myriad legal challenges on a global level. Students will explore the emerging specialty within law that is cyber law. Topics will expose the reality that our legal system has evolved in a physical and visual world, but cyber space is largely invisible and virtual. Students will learn that past legal decisions or legal precedence has been important in our system and reasoning by analogy has been used extensively. In many cases the laws applied in the physical realm do not translate equally well into cyber space. This course will discuss the importance of this area introduce legal issues that need to be addressed.

### CYB-220XV: Cyber Law and Privacy in a Digital 4 credits Age

The Internet Age has introduced myriad legal challenges on a global level. Students will explore the emerging specialty within law that is cyber law. Topics will expose the reality that our legal system has evolved in a physical and visual world, but cyber space is largely invisible and virtual. Students will learn that past legal decisions or legal precedence has been important in our system and reasoning by analogy has been used extensively. In many cases the laws applied in the physical realm do not translate equally well into cyber space. This course will discuss the importance of this area introduce legal issues that need to be addressed.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### CYB-300<sup>4</sup>: Fundamentals in Cybersecurity 4 credits

This course provides a fundamental understanding of the importance of cybersecurity through a broad range of cybersecurity topics. The course introduces core concepts and terminology used in cybersecurity and information systems security. Students learn concepts related to identifying common attack vectors, threats, preventive tools, and keeping information secure as it travels across a network. Students also gain a basic understanding of how cybersecurity threats and social engineering impact society.

#### CYB-320: Malware Analysis 4 credits

In this course students will explore the world of malware through meticulous analysis and binary reverse engineering techniques. This is a skill-based course with hands on labs that focus on both static and dynamic malicious code analysis. Upon successful completion of this course, students will be able to apply the tools and methodologies to safely perform analysis on common malware samples in a control environment. Practicum/field experience hours: None. Malware Analysis. Prerequisite: ITT-310 & ITT-307.

#### CYB-350: Social Aspects of Cybersecurity 4 credits

This course explores how end users can pose a threat to the security of an organization by falling victim to even simple traps. Students will learn that human manipulation creates a whole school of cybercrime opportunities such as phishing, "watering hole attacks" and other social engineering tactics. These threats are directed to the human psyche - not sophisticated malware or technical vulnerabilities, but rather the psychology and behavior of people. Students will see that a malicious actor – or "hacker" - need not be involved; an uneducated or careless employee or an unwieldly procedure can result in sensitive information leaking and potentially falling into the hands of an attacker. Prerequisite: ITT-307.

#### CYB-420<sup>/♠</sup>: Global Perspectives on Cyber 4 credits Warfare

This course covers an analysis of Cyber warfare in the 21st Century and beyond. Cyberspace is a complex environment that controls every aspect of a country's Economy, Communication, and Infrastructure. This course will examine cyber warfare from a case-study perspective, applying the battlespace doctrine developed by military cyber operations teams. At the conclusion of this course students will have a fundamental understanding of the cyberspace threatscape, ethical challenges, and be able to strategize and implement cyber warfare operations. Prerequisite: ITT-340 or SWE-310.

### CYB-420HN<sup>i</sup>: Global Perspectives on Cyber Warfare

4 credits

This course covers an analysis of Cyber warfare in the 21st Century and beyond. Cyberspace is a complex environment that controls every aspect of a country's Economy, Communication, and Infrastructure. This course will examine cyber warfare from a case-study perspective, applying the battlespace doctrine developed by military cyber operations teams. At the conclusion of this course students will have a fundamental understanding of the cyberspace threatscape, ethical challenges, and be able to strategize and implement cyber warfare operations.

Practicum/field experience hours: None. Global Perspectives on Cyberwarfare. Prerequisite: ITT-340 or SWE-310.

#### CYB-505: Cyber Warfare and Applications 4 credits

With a brief introduction to cybercrime and cybersecurity, this course will provide students with an overview of the various attacks and the countermeasures organizations can use to defend themselves. Exploring concepts such as defense-in-depth, layered security, vulnerability assessments, risk management, governance and compliance, and encryption; students will become familiar with prevention and protection theories, best practices, and strategies to securing corporate data (intellectual property). This course will conclude with an exploration of the various hacker psychologies and the differences between black-hat, grey-hat, and white-hat (Hackers with Halos) hackers. Prerequisite: UNV-504 or UNV-507 or enrollment in certificate program.

### CYB-515: Enterprise Security Infrastructure 4 credits Design

This course introduces enterprise infrastructure design; including hardware, software, policies, and business processes. Emphasis is placed on integrating security solutions and theories in alignment with business objectives to achieve sustainability, reliability, and availability while deterring threats from cyber-attacks. This course also introduces students to the NIST Cybersecurity Framework, providing a foundation to formulating a strategy for cybersecurity program design. Prerequisite: CYB-505.

### CYB-525: Technology Implementation of 4 credits Security Solutions

This course examines the tools and technologies used to secure an organization's intellectual property. Students will consider encryption, hardware security, software vulnerabilities, remote access technologies, and layered security defense strategies in the development of secure architectures. A technology-focused course, students will provide effective solutions around firewalls, networking, server security, database and website protocols, and VPN configurations. Prerequisites: CYB-505 and CYB-515.

### CYB-535: Policy Management for Security 4 credits Solutions

This course introduces a policy perspective on security design. Students will consider cybersecurity frameworks, policies, cyber law, regulations, and standards in the configuration, development, and design of an enterprise policy infrastructure. In addition, students will examine the impact of policy implementation on enterprise systems and personnel management. Prerequisite: CYB-515.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### CYB-610: Penetration Testing and Risk Management

4 credits

This intensive hands-on course will provide with students the experience of working with various cybersecurity technologies and techniques that hackers and malicious actors use to scan, identify, and exploit vulnerabilities in an organization. Students will also formulate strategies of protection from such threats by identifying risks, countermeasures, security policies, frameworks, and best practices to align and enhance an organization's security posture through the development of a risk management plan. Prerequisites: CYB-515 and CYB-525.

### CYB-630: Enterprise Cyber Law and 4 credits Compliance Strategies

This course explores the human and enterprise aspects of cybersecurity management. From information security awareness to strategic planning; students will begin with the examination of the ideologies behind cybercrime, where attacks come from and why, followed by implementation techniques to best align cybersecurity applications with business objectives. This course provides a look at the strategies security professionals use to identify the attack vectors and plan accordingly to secure information systems using various industry compliances, regulations, and standards to design and implement cost effective controls, policies, and training to implement defense-in-depth techniques. This course ends with an impact analysis of when security measures fail, which includes legal elements and liability and ethical issues relating to forensic investigations. Prerequisite: CYB-535.

#### CYB-650: Innovation in Security Frameworks 4 credits

This course reinforces the significance, use, and deployment of security frameworks from a small-to-medium sized business (SMB) perspective to increase visibility, reduce risk from malicious activity, improve security posture, and enhance infrastructure to secure a company's intellectual property. Using various controls, policies, best practices, and implementation guides, students will establish a security framework for an organization that secures and aligns with an appropriate regulation (e.g., PCI DSS, HIPAA, SOX, GLBA). Prerequisites: CYB-535 and CYB-630.

### CYB-690: Cybersecurity Program 4 credits Development

This course culminates the entire program by requiring students to develop a comprehensive cybersecurity program. Evaluating the legal and ethical challenges; incorporating the policies, frameworks, and methodologies; and identifying the hardware, software, and application requirements to secure an organization's intellectual property, customer data, and resources. Students will apply managerial and leadership skills to develop and communicate an effective cybersecurity program. Prerequisites: CYB-610, CYB-630, and CYB-650.

### Dance (DAN)

#### DAN-100\*: Introduction to Ballet Technique 1 credits

This course is an introduction to the techniques of the classical ballet, including alignment, positions, port de bras, and allegro combinations. It includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to ballet.

#### DAN-101<sup>♦</sup>: Introduction to Jazz Technique 1 credits

This course is an introduction to the style, technique, and rhythmic structures of jazz dance with emphasis on increasing movement capabilities and personal expression. It includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to jazz.

#### **DAN-120**♦: Introduction to Modern Technique 1 credits

This course is an introduction to the movement techniques of modern dance. It includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to modern dance.

#### DAN-130A\*: Dance Ensemble I 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants. Prerequisite: Audition.

#### DAN-130B♦: Dance Ensemble I 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants. Prerequisite: Audition.

#### DAN-180A♦: Elementary Dance Tour 0 credits

This course is designed to prepare the student for the GCU Elementary Dance Tour, a multi-media production composed through collaboration by faculty and students. Topics include choreography, dramatic dialogue, elementary teaching methods, technical production, and artistic expression in a range of different dance styles. Participation is determined by audition.

#### DAN-180B♦: Elementary Dance Tour 0 credits

This course is designed to prepare the student for the GCU Elementary Dance Tour, a multi-media production composed through collaboration by faculty and students. Topics include choreography, dramatic dialogue, elementary teaching methods, technical production, and artistic expression in a range of different dance styles. Participation is determined by audition.

#### DAN-200<sup>/♠</sup>: Somatics for the Dancer 2 credits

This course is a study of somatic practices in dance. Students explore and discuss issues related to one body practice. Topics include body awareness, alignment, injury prevention, and movement observation.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### DAN- Somatics for the Dancer 200HN<sup>/•</sup>:

2 credits

This course is a study of somatic practices in dance. Students explore and discuss issues related to one body practice. Topics include body awareness, alignment, injury prevention, and movement observation.

#### DAN-210\*: Improvisation for Dance 1 credits

This course focuses on creating and developing movement through dance improvisation in solos, duets, and groups. Contact improvisation and partnering, the uses of improvisation in choreography and performance, and the creative process are explored. Students are guided toward finding their own artistic voice through movement, discussion, and writing.

#### DAN-215: Dance Ensemble 0 credits

Required every semester for dance majors except student teaching, this course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants. This course is open to non-majors. Prerequisite: Audition.

#### DAN-250\*: Ballet Technique II 1 credits

This technique course is designed to increase skill in classical ballet. It includes intermediate concepts, skills, movement vocabulary, and artistic expression specific to ballet. Prerequisite: DAN-100.

#### DAN-260<sup>†</sup>: Jazz Technique II 1 credit

This course is a refinement of beginning skills, with an emphasis on development of technical abilities and performance qualities. It focuses on intermediate concepts, skills, movement vocabulary, and artistic expression specific to jazz. Prerequisite: DAN-101.

#### DAN-270\*: Modern Technique II 1 credits

This course is a refinement of beginning skills with an emphasis on development of technical abilities and performance qualities. It includes intermediate concepts, skills, movement vocabulary, and artistic expression specific to modern dance. Prerequisite: DAN-120.

#### DAN-280A<sup>♦</sup>: Dance Ensemble II 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants.

#### DAN-280B♦: Dance Ensemble II 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants.

#### DAN-300<sup>♦</sup>: Alignment and Pilates for Dance 2 credits

This course addresses alignment for dancers, using Pilates mat exercises. The course addresses how breath , strength, and coordination may facilitate greater ease and efficiency in movement.

#### DAN-301: Yoga 2 credits

This class is a guided practice introducing students to the fundamental principles of alignment and breathwork through flow sequencing and mindfulness. Dynamic alignment, guided relaxation, strength, and flexibility will help to restore and create a connection of the body, mind, and spirit through yoga poses.

#### DAN-302: Tap I 1 credits

This course is an introduction to the style, technique, and rhythmic structures of tap dance with emphasis on increasing movement capabilities and personal expression. It includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to tap. Students will explore tap dance through historical, social, and improvisational contexts. This course is available for non-majors.

#### DAN-305: Hip Hop I 1 credits

This course is an introduction to the style, technique, and foundation of Hip Hop movement and culture. Students will explore Hip Hop styles with emphasis on Freestyle development, cultural understanding, and the Five Elements of Hip Hop. Development of proficiency includes fundamental concepts, skills, movement vocabulary, artistic expression, theory and practice specific to Hip Hop culture. Students will explore Hip Hop dance through historical and social views as well as exposure to some Street Style dances. This course is available for non-majors.

#### DAN-310<sup>♦</sup>: Technology for Dance Educators 3 credits

Students study and utilize a variety of dance technologies, such as computer software, hardware, networking, multimedia, interactive media, and the Internet in order to foster inquiry, collaboration, and interaction in the classroom in order to meet the needs of a diverse student population.

#### DAN-312\*: Vernacular Dance: Tap I 1 credits

This course is an introduction to the style, technique, and rhythmic structures of tap dance with emphasis on increasing movement capabilities and personal expression. It includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to tap. Students will explore tap dance through historical, social, and improvisational contexts. This course is available for non-majors.

#### DAN-313\*: Vernacular Dance: Urban & Hip 1 credits Hop I

This course is an introduction to the style, technique, and rhythmic structures of urban dance. Students will explore street dance styles with emphasis on increasing movement capabilities and personal expression. Development of proficiency includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to Urban dance. Students will explore urban dance through historical, social, aesthetic, and improvisational contexts as well as most current forms found in popular urban culture. This course is available for non-majors.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **DAN-315**<sup>△</sup>**•**: **Dance History I**

4 credits

This writing intensive course is a study of the histories and aesthetic systems of selected world dance traditions emphasizing interconnections between aesthetic practice, religious and social needs, and the impact of cultural convergence on dance.

#### DAN-320<sup>\*•</sup>: Technology for Dance Educators 2 credits

Students study and utilize a variety of dance technologies, such as computer software, hardware, networking, multimedia, interactive media, and the internet in order to foster inquiry, collaboration, and interaction in the classroom to meet the needs of a diverse 21st century student population.

#### DAN-320HN<sup>t</sup>: Technology for Dance Educators 2 credits

Students study and utilize a variety of dance technologies, such as computer software, hardware, networking, multimedia, interactive media, and the Internet in order to foster inquiry, collaboration, and interaction in the classroom to meet the needs of a diverse 21st century student population.

#### DAN-322<sup>t</sup>: Dance Technology 2 credits

This course explores the innovative intersection of dance and technology using a variety of digital tools and media. Students will learn ways to integrate technology to enhance dance creation, performance, and promotion. Key topics include copyright law, audio editing and design, videography in dance, applying technology to project design, technology for personal branding, and social media.

#### DAN-325: Dance Integration 4 credits

This course explores an integrative arts model using methods and assessments for dance in elementary curriculum. Practicum/field experience hours: 10. Fingerprint clearance required. Practicum/field experience hours: 10. Fingerprint clearance required.

#### DAN-325N: Dance Integration 4 credits

This course explores an integrative arts model using methods and assessments for dance in secondary curriculum.

### DAN-335\*: Foundations of Dance and Culture 4 credits for Diverse Learners

Students study the historical, philosophical, and sociological influences that have shaped dance, dance education, and the issues faced by educators today, as well as the challenges of the future that await persons now entering the teaching profession. The course also examines the unique learning needs of exceptional students. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, and transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the dance classroom. Practicum/field experience hours: 10. Fingerprint clearance required.

### DAN-335N: Foundations of Dance and Culture 4 credits for Diverse Learners

Students study the historical, philosophical, and sociological influences that have shaped dance, dance education, and the issues faced by educators today, as well as the challenges of the future that await persons now entering the teaching profession. The course also examines the unique learning needs of exceptional students. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, and transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the dance classroom. Practicum/field experience hours: 20.

#### DAN-340<sup>△</sup>•: Dance History II 4 credits

This writing intensive course is a comprehensive comparative study of Western theatrical dance forms. The focus is on significant trends and individuals who shaped the development of modern dance, ballet, jazz, and vernacular dance, from ancient Greece to the modern era.

#### DAN-350♦: Ballet Technique III 1 credits

This course is designed to increase skill in classical ballet technique. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to ballet. Prerequisite: DAN-250.

#### DAN-353<sup>♦</sup>: Ballet Technique IV 1 credits

This advanced course is designed to increase technical proficiency and performance skill in classical ballet technique. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to classical ballet. Prerequisite: DAN-350.

#### DAN-355<sup>△♦</sup>: Dance Kinesiology and Injury 4 credits Prevention

This writing intensive course focuses on the anatomical and mechanical principles that relate to human movement; the analysis, management, and prevention of dance injuries; the analysis of body types and technical ability; and the means by which to improve dance ability. Aspects of teaching safe technique classes and alternative methods will also be explored.

#### DAN-360♦: Jazz Technique III 1 credits

This course is designed to increase skill in jazz technique. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to jazz. Prerequisite: DAN-260.

#### DAN-363<sup>♦</sup>: Jazz Technique IV 1 credits

This advanced course is designed to increase technical proficiency and performance skill in jazz technique. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to jazz. Prerequisite: DAN-360.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### DAN-370♦: Modern Technique III

1 credits

This course focuses on the exercises and activities necessary to develop strength, flexibility, endurance, and technical dance skill. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to modern dance. Prerequisite: DAN-270.

#### DAN-373\*: Modern Technique IV

1 credits

This advanced course is designed to increase technical proficiency and performance skill in modern technique. It includes advanced concepts, skills, movement vocabulary, and artistic expression specific to modern dance. Prerequisite: DAN-370.

### DAN-375: Choreography I: Space and Time/Design and Dance

2 credits

This course focuses on the elements of time, space, and energy as related to choreographic design. It is a study of these primary dance elements and their intrinsic role in developing diverse understandings of dance. The course considers design in the related fields of music and art as relevant to choreographic design and communication in dance. Practicum/field experience hours: None. Students needing field experience hours should take DAN-385N.

#### DAN-380A\*: Dance Ensemble III 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants.

#### DAN-380B\*: Dance Ensemble III 0.5 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants.

### DAN-385\*: Choreography I: Space and 2 credits Time/Design and Dance

This course focuses on the elements of time, space, and energy as related to choreographic design. It is a study of these primary dance elements and their intrinsic role in developing diverse understandings of dance. The course considers design in the related fields of music and art as relevant to choreographic design and communication in dance. Practicum/field experience hours: None. Students needing field experience hours should take DAN-385N.

### DAN-385N\*: Choreography I: Space and 2 credits Time/Design and Dance

This course focuses on the elements of time, space, and energy as related to choreographic design. It is a study of these primary dance elements and their intrinsic role in developing diverse understandings of dance. The course considers design in the related fields of music and art as relevant to choreographic design and communication in dance. Practicum/field experience hours: 10. Fingerprint clearance required.

#### DAN-390<sup>≠</sup> Choreography II: Process

2 credits

This course is a study of and experience in various approaches to the choreographic process as related to artistic concepts and to the philosophy of art as espoused by various traditional and contemporary dance artists and as developed by the individual student. Prerequisite: DAN-385N or DAN-375.

### DAN- Choreography II: Process 2 credits 390HN<sup>/♦</sup>:

This course is a study of and experience in various approaches to the choreographic process as related to artistic concepts and to the philosophy of art as espoused by various traditional and contemporary dance artists and as developed by the individual student. Prerequisite: DAN-385.

#### DAN-395<sup>\*</sup> • Dance Production 4 credits

This course is designed to introduce students to the elements of technical theater specific to a dance production and to prepare students to organize a production in a variety of media. The course covers the fundamentals of lighting and costume design; sound/music/video recording and other multimedia devices; and basic elements of production management, such as contracts, labor issues, budgets, facility rentals, marketing and fundraising.

### DAN- Dance Production 4 credits 395HN<sup>/•</sup>:

This course is designed to introduce students to the elements of technical theater specific to a dance production and to prepare students to organize a production in a variety of media. The course covers the fundamentals of lighting and costume design; sound/music/video recording and other multimedia devices; and basic elements of production management, such as contracts, labor issues, budgets, facility rentals, marketing and fundraising.

#### DAN-398\*: Dance Methods and Assessment in 4 credits the Secondary School

This course is a study of methods for developing and conducting the dance program in middle schools and high schools. Methods, materials, topics, and issues in dance education are used to prepare dance education majors to enter the teaching profession. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: DAN-390.

### DAN-398N\*: Dance Methods and Assessment in 4 credits the Secondary School

This course is a study of methods for developing and conducting the dance program in middle schools and high schools. Methods, materials, topics, and issues in dance education are used to prepare dance education majors to enter the teaching profession. Practicum/field experience hours: 25. Fingerprint clearance required.

### DAN-400: Dance Methods and Assessment in 4 credits the Secondary School

This course is a study of methods for developing and conducting the dance program in middle schools and high schools. Methods, materials, topics, and issues in dance education are used to prepare dance education majors to enter the teaching profession. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: DAN-390.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### DAN-402: Tap II 1 credits

This course is a continuation of the style, technique, and rhythmic structures of tap dance. Students will explore various tap styles with emphasis on increasing movement capabilities and personal expression. Development of proficiency includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to tap dance. Students will explore tap dance through historical, social, aesthetic and improvisational contexts. Students will also develop basic choreography skills, and learn how to combine steps to formulate dances. Prerequisite: DAN-302.

#### DAN-405: Hip Hop II 1 credits

This course is a continuation of the style, technique, and foundation of Hip Hop movement and culture. Students will explore Hip Hop styles with emphasis on proficiency in Freestyle dance, social competence, and the practice of the Five Elements of Hip Hop. Students will develop proficiency in choreography, groove, theory, and practice specific to Hip Hop culture. Students will continue to explore Hip Hop dance through present social views and gain further exposure to some Street Style dances. This course is available for non-majors. Prerequisite: DAN-305.

#### DAN-410: Commercial Dance 2 credits

This class is designed for the pre-professional dancer. Students will further their studies in commercial-style dance or a blend of jazz, street, and hip hop as seen in the entertainment industry. Students will experience fast-paced choreography to enhance their mastery of technical and artistic expression. This course will include mock auditions and informal performance opportunities to reflect professional contexts in commercial dance to prepare students to succeed as professional performers. Prerequisite: DAN-360.

#### DAN-412\*: Vernacular Dance: Tap II 1 credits

This course is a continuation of the style, technique, and rhythmic structures of tap dance. Students will explore various tap styles with emphasis on increasing movement capabilities and personal expression. Development of proficiency includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to tap dance. Students will explore tap dance through historical, social, aesthetic and improvisational contexts. Prerequisite: DAN-312.

#### DAN-413\*: Vernacular Dance: Urban & Hip 1 credits Hop II

This course is a continuation of the style, technique, and rhythmic structures of urban and hip hop dance. Students will explore various urban styles with emphasis on increasing movement capabilities and personal expression. Development of proficiency includes fundamental concepts, skills, movement vocabulary, and artistic expression specific to urban dance. Students will explore urban dance through historical, social, aesthetic and improvisational contexts. Prerequisite: DAN-313.

#### DAN-420: Contemporary Partnering 2 credits

This course is designed to help students develop partnering skills for a wide range of contemporary styles including modern, ballet, and jazz. Students will explore the fundamentals of partnering including counterbalancing, weight sharing, kinesthetic awareness, and dynamic alignment. Prerequisite: DAN-370.

#### DAN-430: Dance Research Seminar I 2 credits

This course provides an opportunity for students to define their career goals and to network in preparation for a career and/or further dance studies. Students will explore current issues and career trends in dance. Topics will include a statement of artistic philosophy, academic research skills, creating a collaborative arts project, and business applications.

#### DAN-435: Dance Research Seminar II 2 credits

This course is a continuation of Dance Research Seminar I, which provides an opportunity for students to define their career goals and to network in preparation for a career and/or further dance studies. Students will explore current issues and career trends in dance. Topics will include academic research skills, creating a collaborative arts project, and business applications. Prerequisite: DAN-430.

#### DAN-450<sup>♦</sup>: Dance Pedagogy 2 credits

This course encompasses traditional and contemporary approaches of dance education and examines effective teaching practices in settings including elementary and secondary schools, private dance organizations, and community-based settings. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: DAN-355.

#### DAN-453<sup>♦</sup>: Ballet Technique V 1 credits

In this course, ballet technique will be studied to enhance mastery in technical and artistic expression. This course will examine pointe for women and conditioning for men, in preparation for partnering work. Partnering skills and classical ballet variations will be included for both men and women.

#### DAN-455: Dance Pedagogy 2 credits

This course encompasses traditional and contemporary approaches of dance education and examines effective teaching practices in settings including elementary and secondary schools, private dance organizations, and community-based settings. Prerequisite: DAN-355.

#### DAN-455N: Dance Pedagogy 2 credits

This course encompasses traditional and contemporary approaches of dance education and examines effective teaching practices in settings including elementary and secondary schools, private dance organizations, and community-based settings. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: DAN-355.

#### DAN-463: Jazz Technique V 1 credits

This course is designed for the pre-professional dancer. Jazz dance technique will be studied to enhance mastery in technical and artistic expression. Jazz studies in this course will include mock auditions and informal performance opportunities to reflect professional contexts such as commercial dance and musical theatre. Prerequisite: DAN-363.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### DAN-465A\*: Master Class: Ballet, Jazz

1 credits

This course is designed for the pre-professional dancer. Students will further their studies in each dance form to enhance mastery in technical and artistic expression. Jazz studies in this course will include mock auditions and informal performance opportunities to reflect professional contexts such as commercial dance and musical theatre. Ballet studies will include pointe for women and conditioning for men, in preparation for partnering work. Partnering skills and classical ballet variations will be included for both men and women. Prerequisites: DAN-353 and DAN-363.

#### DAN-465B\*: Master Class: Modern 1 credits

This course is designed for the pre-professional dancer. Modern dance technique will be studied with faculty and guest artists to enhance mastery in technical and artistic expression. Students choose either DAN-465A or DAN-465B. Prerequisite: DAN-373.

#### DAN-470\*: Choreography III: Performance 2 credits

This course is a supervised experience in choreographing a dance for public performance arranged through a cooperative effort of the student and supervisor. Prerequisite: DAN-390.

#### DAN-473: Modern V 1 credits

This course is designed for the pre-professional dancer. Advanced modern dance technique will be studied to enhance mastery in technical and artistic expression. Prerequisite: DAN-373.

#### DAN-475<sup>♦</sup>: Dance in Sacred Contexts 4 credits

This course will examine dance within both Christian and non-Christian contexts. Students will apply this knowledge to design dances, text and other materials for ministry, worship services, workshops, and outreach.

#### DAN-480<sup>♦</sup>: Dance Ensemble IV 1 credits

This course is designed to prepare the student for a dance concert production in a theatrical setting. Through the rehearsal process and culminating performances, students gain dance proficiency by working in a range of styles and choreographic approaches. Students audition choreography and may be cast as dancers, understudies, stage managers, and production assistants.

#### DAN-485\*: Creative Practices 4 credits

In this course, students conduct artistic research through the practices of improvisation, choreographic choice making, and interdisciplinary collaboration. Students will engage in various creative projects with dance faculty, scholars, performers, and researchers across the College of Arts and Media.

#### DAN-490: Dance Administration & 4 credits Entrepreneurship

This course is an introduction to the practical and applicable skills involved with starting, managing, and flourishing as an entrepreneur in arts administration. Critical thinking and problem-solving skills will be applied to all aspects of managing and marketing for arts and cultural organizations. The implementation of these skills will give artists an insight into the many career options that are available above and beyond being onstage performers, including careers in entrepreneurial, non-profit, and for-profit organizations.

# Doctoral Business Administration (DBA)

## DBA-805: Management Theory in a Global 3 credits Economy

This course provides an overview of seminal management theories and their relevance, applicability, and/or divergence from current business practice. Students focus on understanding the application of management theories to support organizational sustainability in a global economy.

#### **DBA-815:** Economics for Business Decisions 3 credits

This course provides the student with the skills and competencies needed to be able to apply microeconomic principles to the solution of business problems. Specifically, the course examines the four market structures focusing on competition and utilizes microeconomic theory to provide solutions to business problems.

## DBA-820: Emerging Issues in Financial 3 credits Management

This course explores the theories and frameworks that drive financial decision making in organizations today. Students focus on issues facing administrators in the changing business environment.

#### DBA-830: Statistics for Business Research 3 credits

This course provides an overview of preparing, analyzing, and interpreting data using statistical techniques. Topics include data preparation and statistics basics, as well as factor analysis, ttesting, ANOVA, and correlation and regression.

## DBA-831: Analytic Foundations for Business 3 credits Leaders

This course addresses the foundations of data mining. The course provides tools and techniques to determine whether data is appropriate for analysis. Learners will interact with a multi-year integrated business case as a means of exploring applications of analytics.

#### DBA-833: Predictive Modeling 3 credits

This course addresses predictive modeling techniques that leverage enterprise data to create competitive advantage. Methods of creating and communicating predictive modeling solutions are also discussed.

#### DBA-835: The Sustainable Future 3 credits

This course examines organizational sustainability through the lenses of competitive advantage and innovation. It addresses the leadership skills and capabilities required to foster, lead, and sustain innovation in organizations, and it explores how these ideas can be applied to create competitive advantage leading to a sustainable organization.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## DBA-837: Prescriptive Modeling for Business 3 credits Decisions

This course addresses prescriptive modeling techniques that leverage previously gained predictive enterprise data to create competitive advantage. Technological and organizational supports for prescriptive modeling are discussed as are methods of communicating prescriptive modeling solutions.

#### DBA-839: Enterprise Data Complexity 3 credits

Business is routinely using enterprise data analytics to create competitive advantage. This course addresses the complexity of implementing enterprise data analytics solutions and the related infrastructure considerations. In this course, learners will interact with a multi-year integrated business case to experience the complex interactions associated with exploiting enterprise data analytics for competitive advantage.

#### DBA-885: Developing the Research Proposal 3 credits

In this course, learners formalize their research proposal specific to their topic. Emphasis is placed on fully developing Chapter 1 and incorporating Chapters 2 and 3 (drafts) from previous research courses. This proposal becomes the first three chapters of the dissertation upon approval of the final draft by the College of Doctoral Studies. Prerequisite: RES-880.

#### **DBA-955** $\Omega$ : Dissertation I 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: RES-871 or RES-885 or RSD-883 or RSD-884.

#### **DBA-960** $^{\Omega}$ : Dissertation II 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DBA-955.

#### DBA-965 $^{\Omega}$ : Dissertation III 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DBA-960.

#### DBA-966E: Research Continuation I 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-965.

#### DBA-967E: Research Continuation II

3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-966 or DBA-966E.

#### DBA-968E: Research Continuation III 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-967 or DBA-967E.

#### DBA-969E: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-968 or DBA-968E; RSD-951.

#### DBA-970E: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-969 or DBA-969E.

#### DBA-971E: Research Continuation VI 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-970 or DBA-970E.

#### DBA-972E: Research Continuation VII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-971E.

#### DBA-973E: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-972E.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **DBA-974E:** Research Continuation IX

3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DBA-973E.

#### **DBA-975** $^{\Omega}$ : Dissertation Research Continuation 0 credits

This course emphasizes the finalization of the dissertation and provides learners guidance for finding the appropriate venues and approaches in publishing their research findings. This will include the final steps necessary in pulling together what might have been earlier versions of chapters 1, 2, and 3, as well as the proofing and dissertation editing strategies that are required and the steps scholars can take to make sure their results are, in fact, shared with other scholars. This includes an exploration of writing research articles, preparing to present scholarly papers, as well as other publication venues. Prerequisites: DBA-966E or DBA-970 and either RSD-951 or D-35 status.

#### Digital Design (DDN)

#### DDN-101<sup>♦</sup>: Design Thinking 4

This survey course introduces students to basic design thinking, including principles and elements of design, and concepts of composition. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student artwork. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### **DDN-105**♦: Drawing for the Visual Arts 4 credits

Drawing, sketching, conceptualization for clients, and preparing storyboards are essential communication skills in a visual world. This introductory drawing course teaches students about rendering spatial relationships, perspective, light, shadow, texture, and forms. This foundational course includes still life, gesture, and perspective drawing as well as lectures, critiques, and discussions. This course does not require that students have an art background. All types of aspiring artists will benefit from the fundamental and techniques taught in this class. Students will provide drawing supplies and paper along with a portfolio to carry them.

#### DDN-110\*: Design Fundamentals 4 credits

This course is an introduction to the basic elements of design and processes of visual communication using graphic tools standard in the industry. The focus is on mastering pixel, vector, and layout tools to demonstrate two-dimensional graphics, images, symbols, color theory, typography, and composition. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### DDN-115\*: Raster and Vector Technologies 4 credits

This foundational studio course focuses on developing visual style and production workflows in the creation of raster- and vector-based graphics using industry-standard technologies. Students apply color theory and composition skills to create complex illustrations and advertisements. Multiple input sources are combined to create both original and derivative content: camera, scanner, mouse, tablet, traditional media, and stock photography. Students practice acquiring work at the correct PPI, retouching, tonal correction, and color profiling to create images compliant with industry standards. Emphasis is placed on selecting appropriate imagery by analyzing audience needs, which is then applied to developing creative and original work. Students also learn how to legally acquire stock imagery and the ethical obligations in its manipulation. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

#### **DDN-120**♦: Production Methods 4 credits

During this course students will apply the concepts of production management, including structuring and preparing electronic files through production for a variety of mediums. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-110 or DDN-115.

#### DDN-125: Layout and Composition 4 credits

This survey course reinforces the use of design elements and principles of composition to create compelling, marketable designs. Structures, grid systems, and more informal freeform techniques are investigated to solve hands-on design problems. The role of typography, color, and hierarchy for effective communication is explored. Students use rapid visualization to iterate and prototype multiple solutions using the design thinking process and learn how to document their processes for presentation. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments.. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-100 or DDN-101.

#### DDN-160: 2D Motion Design 1 4 credits

This foundational motion course examines the basics of 2D motion design as it relates to graphic design. Students examine 2D motion in the context of the 12 Principles of Animation, the foundation of motion. This course teaches students how to view graphic design with the addition of a timeline. Students are introduced to the production pipeline as it relates to 2D graphic design in the context of motion. During preproduction, students strategize how to complete 2D motion graphics. Students then start crafting the assets and 2D motion of their projects in production and present a finalized motion graphic during post-production. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-110 or DDN-115 or GMC-110.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **DDN-200:** Creative Processes

4 credits

4 credits

This course exposes students to a variety of artistic methods to generate concepts and content off-screen, using traditional rapid visualization and mixed media. Structures for experimentation --both planned and spontaneous -- are explored. A focus on concept development and rigorous hands-on practice helps students develop their artistic voice. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

#### DDN-205\*: Figure Drawing

This course teaches students the anatomy of figure drawing for animation and character modeling. Developed skill sets transfer to figure drawing of any organic being, whether human or animal. Class time consists of demonstrations, lectures, critiques, and drawing exercises using a variety of media and subject matter. Student will provide drawing supplies and paper, along with a portfolio to carry them. A supply list will be provided at the start of the course.

#### DDN-210<sup>/♦</sup>: Designing with Type 4 credit

This course explores fundamentals and traditions for designing with type, as well as corporate design with an emphasis on typography with integration of vector designs and photography into promotional pieces. Students propose and create solutions for visual problems with type. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student artwork. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-120.

## DDN- Designing with Type 4 credits 210HN<sup>/♠</sup>:

This course explores fundamentals and traditions for designing with type, as well as corporate design with an emphasis on typography with integration of vector designs and photography into promotional pieces. Students propose and create solutions for visual problems with type. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student artwork. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-120. Co-Requisite: DDN-120.

#### DDN-215<sup>♦</sup>: Digital Photography I 4 credits

In this introductory digital photography course, students explore basic camera operation, digital capture, photographic principles, lighting, and visual design elements. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student photography. This is not a photo manipulation course. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Students are required to provide their own DSLR camera and tripod.

#### DDN-230\*: Sculpture

4 credits

This course introduces students to sculpture in various mediums, both traditional and nontraditional; provides practical and theoretical exploration of form, surface, mass, gravity, and structure; includes reading and writing assignments; and requires the creation and exhibition of student artwork. Students will provide their own sculpture tools. A supply list will be posted prior to the start of class.

#### DDN-240\*: User Experience Design 4 credits

During this course students will apply theories of user experience and interaction to the design of web and mobile products. Technology requirement: Students provide their own laptop, a graphics tablet, and external hard drive. Students will use industry-standard software to complete assignments.

## DDN-250: Interface Design 1: User 4 credits Experience

This course explores the fundamentals of User Experience as it applies to mobile applications through the use of prototyping and user testing. The historical context of User Experience is explored and as well as how it evolved into modern application design. During this course, students apply the Laws of UX to their designs. Various usability testing methods are implemented. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

#### DDN-255: Interface Design 2: Web Design 4 credits

This course focuses on the web design prototyping process including research, wireframes, design comps, and interactive mock-ups that address a creative brief. Students learn website production, as well as Search Engine Optimization as it applies to design assets. Technology requirement: Students provide their own laptop, mouse, and subscription to the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

#### DDN-260<sup>†</sup>: 2D Motion Design 2 4 credits

This course expands upon 2D motion design concepts as they relate to graphic design. Students continue exploring the 12 Principles of Animation and the production pipeline as a whole. Students explore audio, video, graphics, and type as assets for 2D motion graphics, and research industry trends in 2D motion and use that research to drive their work forward. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments.. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-160.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### DDN-276: Portfolio 1

4 credits

This course requires students to research and build a self-marketing plan and curate a portfolio of work to use in a job search. Students examine their current work in order to accurately develop personal promotional assets, be introduced to design communities, identify industry networking opportunities, and begin to build a professional social network. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: Sophomore standing.

#### DDN-300♦: Web Design I

4 credits

In this course, students learn visual design for the Web, building structure and presentation. Web layouts and style, artistic quality and performance, and navigation and accessibility are explored in the development of Web sites using HTML and CSS. The focus of the course is to develop a core foundation in HTML and CSS before the evaluation of other Web development tools. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-110 or DDN-115, or permission of instructor.

#### DDN-305\*: Drawing for Animation

4 credits

Students develop perspective and layout techniques for creating depth illusion as applied to principles of 3D modeling and animation. This course emphasizes the study of story, size relationships, values, lines, vanishing points, lighting, path direction, camera placements, and composition. Students also explore drawing media. Technology requirement: Students provide their own laptop, a graphics tablet, Audacity sound editing software, and additional supplies as defined during the course. Prerequisite: DDN-105.

#### DDN-306: 3D Motion Design 1

4 credits

This course focuses on introducing the principles and production of 3D modeling and 3D motion using industry standard software and processes. Students demonstrate three-dimensional concepts, theories, design, and application while creating products for use in motion graphics. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-160.

#### DDN-310\*: Digital Painting

4 credits

This course is an advanced study in digital painting tools to support animation projects. Technology requirement: Students provide their own laptop, external drive for back-ups, mouse and/or graphics tablet for input. Students will use industry-standard software to complete assignments.

#### DDN-312: Advanced Typography

4 credits

This studio-intensive course introduces a new dimension to typographic foundations through the inclusion of motion and interactivity in type. Students learn how to source web-compliant typography for inclusion in their own creative, strategy-driven design projects. Students explore grids, hierarchy, style, contrast, and basic animated transformations. Students apply the 12 Principles of Animation to kinetic typography compositions. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-210.

#### DDN-315\*: Digital Photography II

4 credits

In this course, students shoot RAW and apply advanced photography techniques to create images used for a variety of commercial advertising, social media, and other marketing purposes. Natural and studio lighting techniques are studied as available methods for image creation. This course requires Webbased presentations, and the creation and exhibition of student artwork. Prerequisites: DDN-215. Technology requirement: Students must provide their own digital SLR or mirrorless camera, tripod, and connection cables or card readers to move the files between the camera and their computer. Personal laptop and Adobe Photoshop or Lightroom are required.

#### DDN-330\*: 3D Modeling Design I

4 credits

This course focuses on 3D modeling using a variety of media and processes. Students demonstrate three-dimensional concepts, theories, and application while creating products and package designs; photography and 3D model integration; and beginning character designs. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student artwork. Technology requirement: Students provide their own laptop, a graphics tablet, and external hard drive. Students will use industry-standard software to complete assignments.

#### DDN-331: 3D Motion Design 2

4 credits

This course focuses on building creative skillsets, with an emphasis on developing the principles and processes of 3D motion graphics using industry standard tools and techniques. Students demonstrate the design aesthetics and practical technical skills needed to enter the field of motion graphics. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-306.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **DDN-335**♦: Web Applications

4 credits

This course focuses on the planning, design, and implementation of dynamic websites. Using modern content management tools, HTML, CSS, and JavaScript, the course explores how to manage and distribute digital content, videos, photos, animations, and articles. Students explore website creation tools such as Wordpress, Joomla!, and Drupal, with a strong focus on creating and managing digital content for multiple platforms. Lastly, the course covers how to keep data safe and secure using cyber security best practices. Technology requirement: Students provide their own laptop. Students will use industry-standard software to complete assignments. Prerequisite: DDN-300.

#### **DDN-336:** Front-End Development for Web 4 credits Design

In this course, students learn web design production and development. Web layouts, style, artistic quality, performance, navigation, and accessibility are explored in the development of websites using HTML and CSS. The focus of the course is to develop a core foundation in HTML and CSS, with an understanding of JavaScript. Technology requirement: Students provide their own laptop and mouse. Students will use industrystandard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Students also must purchase their own domain name and Internet-hosting services.

#### **DDN-340**<sup>△</sup> History of Design 4 credits

This writing intensive course focuses on the history of visual arts, graphic design, and animation; genres of design; and the influence of artists, graphic artists, and animators through the ages. Emphasis is placed on the history of and current developments in the digital and information age. Technology requirement: Students provide their own laptop. Students will use industry-standard software to complete assignments.

#### DDN-**History of Design** 4 credits 340HN<sup>∆</sup><sup>∮</sup>**♦**:

This writing intensive course focuses on the history of visual arts, graphic design, and animation; genres of design; and the influence of artists, graphic artists, and animators through the ages. Emphasis is placed on the history of and current developments in the digital and information age. Technology requirement: Students provide their own laptop and subscription to the Adobe Creative Cloud.

#### DDN-350♦: Web Design II

This course focuses on intermediate Web design from concept development-including roughs and wireframes-to design comps and interactive mock-ups. Students create sitemaps, flow diagrams, and basic user tests to help determine nomenclature, as well as wireframes that represent working models with page elements and functional specifications. Students learn to evaluate web site usability, as well as to conduct accessibility testing. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Students will also purchase their own domain name and internet hosting service. Prerequisite: DDN-300.

#### DDN-351\*: **Interface Design 3: Application** Design

4 credits

This course focuses on the web design prototyping process including research, wireframes, design comps, and interactive mock-ups that address a creative brief. Students learn website production, as well as Search Engine Optimization as it applies to design assets. Technology requirement: Students provide their own laptop, mouse, and subscription to the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

#### **DDN-356: Interface Design 4: Content** 4 credits **Management Systems**

In this course, students learn how to use various contentmanagement systems including, but not limited to websites, blogs, e-mail marketing, and social media. Students design and produce strategic assets, and learn how to set up hosting and populate content inside an industry standard CMS. Technology requirement: Students provide their own laptop, mouse, and subscription to the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Students also must purchase their own domain name and internet hosting services. Prerequisite: DDN-336.

#### **DDN-360**\*: 3D Modeling Design II 4 credits

This course is a study of the tools used to convert twodimensional hand drawings, photos, and other references into three-dimensional elements. Students employ the terminology, tools, and topology of animation and game industries while modeling polygons, NURBS, and SubDs. Students explore texturing methods, camera setups, lighting techniques, and rendering options. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student work. Students will use industry-standard software to complete assignments. Prerequisite: DDN-330.

#### DDN-365\*: 3-D Animation and the Mechanics 4 credits of Motion

In this course, the principles of animation are explored in greater depth as they apply to 3D. Students learn about the production cycle of animation while planning models for future animation. Kinematics, rigging, and facial animation processes are explored as students demonstrate walk cycles, express emotions, and synchronize sound to animations. Students also create short animations and integrate basic sound and video compositing software. This course includes reading, writing, and lab assignments. Prerequisites: DDN-220 and DDN-330.

#### **DDN-366: Advanced Motion Design 1** 4 credits

In this advanced studio course, students plan and produce graphic design-based portfolio pieces that demonstrate an understanding of motion. Students examine industry trends as they relate to advertising and client storytelling and learn to craft motion graphic solutions centered around client needs. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisites: DDN-260 and DDN-306.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **DDN-370**♦: Designing with Motion Graphics 4 credits

During this course students will create animated graphics in a variety of mediums to meet client business needs. This course includes reading, writing, and lab assignments and requires the creation and exhibition of student artwork. Technology requirement: Students provide their own laptop, external drive for back-ups, mouse and/or graphics tablet for input. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### DDN-371: Motion Technologies 4 credits

In this course, students examine how graphic designers can use motion to create prototype conceptualizations. Students research emerging technologies to plan and create graphic design motion-based presentations for how these technologies are used in design-based problem solving. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu.

## DDN-400<sup>△/♦</sup>: Business for the Design 4 credits Professional

This writing intensive course focuses on the essential business skills necessary for the design practice and professional. Business development, legal issues, project management, finances, human resources, and other management issues are explored as they relate to the design profession. Technology requirement: Students provide their own laptop. Students will use industry-standard software to complete assignments. Verify technical requirements in the University Policy Handbook at www.gcu.edu.

## DDN-400HN<sup>∆f</sup>:Business for the Design 4 credits Professional

This writing intensive course focuses on the essential business skills necessary for the design practice and professional. Business development, legal issues, project management, finances, human resources, and other management issues are explored as they relate to the design profession. Technology requirement: Students provide their own laptop and subscription to the Adobe Creative Cloud.

#### **DDN-405**<sup>∆</sup>: Design Professionalism 4 credits

This writing-intensive course focuses on the essential business skills necessary for the design professional. Personal branding and marketing, networking, industry landscape, professional advancement and career scaffolding, ethical and legal issues, project management, teamwork, professional communication, and other industry issues are explored as they relate to the design profession. Technology requirement: Students provide their own laptop and mouse. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: Senior standing.

#### **DDN-410**♦: 3D Short Film Production

4 credits

This course explores the process of building a 3D short film as students are introduced to every aspect of the short-film production pipeline. From pre-production when the story and characters are developed to the final lighting, rendering, visual and sound effects, music, titles, and ending credits in post-production are completed, students prepare a production plan for their own animated 3D short film. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive, and subscription to the Adobe Creative Cloud. Maya software is available as a student download from the Autodesk website. Prerequisites: DDN-360 and DDN-365.

#### DDN-412\*: Short Film Production 4 credits

In this course students are introduced to every aspect of the short-film production pipeline, from pre-production when the story and characters are developed to the final lighting, rendering, visual and sound effects, music, titles, and ending credits in post-production. Students prepare a production plan for their own animated short film and create production quality scripts and storyboards. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive, and subscription to the Adobe Creative Cloud and Maya software. Maya software is available as a free student download from the Autodesk website. Check system requirements to run those programs at https://knowledge.autodesk.com/support/maya/troubleshooting/ca as/sfdcarticles/sfdcarticles/System-requirements-for-Autodesk-Maya.html. Prerequisite: DDN-365.

#### DDN-415\*: 3D Visual Effects and Lighting 4 credits

In this course, students plan and visualize a special effects project by creating a shot-by-shot storyboard, building environmental sets and props, applying appropriate lighting and special effects, and rendering the solution. Sets are modeled with realistic texturing, lighting design, visual effects, and rendering solutions demonstrated. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive, and subscription to the Adobe Creative Cloud. Maya software is available as a student download from the Autodesk website. Prerequisite: DDN-360.

#### **DDN-420**♦: Advanced Animation 4 credits

This is a highly aesthetic and technical course in which students bring all design skills together, including pre-production, graphic design, modeling, animation, audio production, texturing, and rendering. Students must demonstrate composition, timing, and editing while producing a short, time-based project. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive, and subscription to the Adobe Creative Cloud. Maya software is available as a student download from the Autodesk website. Prerequisite: DDN-412.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

DDN-460\*:

This course examines how to market oneself as a graphic designer who utilizes motion. Students examine their current portfolio of work and create supplemental graphic design pieces based in motion in order to enhance their portfolio. Students examine how to construct a demo reel and apply those concepts to the creation of their own demo reel. Technology requirement: Students provide their own laptop, mouse, subscription to the Adobe Creative Cloud, and Maya software. Maya software is available as a student download from the Autodesk website. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-366.

#### **DDN-425: Advanced Motion Design 3** 4 credits

This course focuses on the creation of a semester-long project that reflects an industry production schedule. Students will research and develop a primarily 2D graphic design-based motion graphic. Students' cumulative knowledge will be used to create a well-rounded portfolio piece for entry-level graphic design jobs that utilize motion. Students will also revisit their demo reel and make any necessary changes. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive. Students will use industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: DDN-421.

#### **DDN-430**♦: Programming for the Web I 4 credits

This course is an introduction to Web programming, local hosting technologies, HTML, CSS, responsive design, and basic JavaScript. Technology requirement: Students provide their own laptop and subscription to the Adobe Creative Cloud. Additional programming tools will be assigned at the start of the course. Prerequisite: DDN-350 or DDN-255.

#### **DDN-440**♦: Interactive Web Design 4 credits

This course explores the use of interactive web and rich Internet applications. The integration of music, sound, video, and animation is considered in design. Students use standard web tools to create dynamic websites. Technology requirement: Students provide their own laptop and subscription to the Adobe Creative Cloud. Additional programing tools will be assigned at the start of the course. Prerequisite: DDN-430.

#### **DDN-450**♦: Programming for the Web II 4 credits

This course focuses on advanced web programming. Students work in a production environment resolving code issues, coding web graphics, and designing advanced web interactions. Technology requirement: Students provide their own laptop and subscription to the Adobe Creative Cloud. Additional programming tools will be assigned at the start of the course. Prerequisite: DDN-430.

#### **DDN-455**♦: Designing for New Technologies 4 credits

During this course students will forecast new technologies in order to enhance user experience. Technology requirement: Students provide their own laptop, mouse, and subscription to the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: DDN-351.

#### to meet client business needs. Technology requirement: Students provide their own laptop, a graphics tablet, external hard drive, and subscription to the Adobe Creative Cloud. Students will also

During this course students will create self-directed web projects

purchase their own domain name and internet hosting service. Prerequisite: DDN-455.

#### DDN-475<sup>f</sup>♦: Advanced Design <u>Practicum</u>

In this advanced design course, students incorporate their personal style into the development of a portfolio. Professional design projects for a variety of campus and studio-based projects provide opportunities for students to fine-tune solutions for customer-driven, reality-based design problems. Students propose design solutions, practicing their communication and presentation skills while exploring career opportunities. The ethics of business practice is incorporated into studio projects. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: Senior standing.

#### DDN-475HN<sup>‡</sup>: Advanced Design Practicum 4 credits

In this advanced design course, students incorporate their personal style into the development of a portfolio. Professional design projects for a variety of campus and studio-based projects provide opportunities for students to fine-tune solutions for customer-driven, reality-based design problems. Students propose design solutions, practicing their communication and presentation skills while exploring career opportunities. The ethics of business practice is incorporated into studio projects. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: Senior standing.

#### DDN-476<sup>‡</sup>: Portfolio 2 4 credits

This course requires students to implement a self-marketing plan and portfolio of work to launch a job search in their preferred industry. Students examine the current market, audit and improve past work to meet industry standards, then identify additional self-directed projects that help them reach their employment goals. Students refine their digital portfolio and publish all the assets needed to launch a personal brand complimented by a set of self-promotion materials, including a print portfolio. Technology requirement: Students provide their own laptop, mouse, and subscription to the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook, which is available on www.gcu.edu. Prerequisite: Senior standing.

## Digital Film and Production (DFP)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## DFP-101<sup>/♠</sup>: Introduction to Cinema: History & 4 credits Aesthetics

This course covers multiple eras and movements throughout the age of film.

## DFP-101HN<sup>≠</sup>• :Introduction to Cinema: History & 4 credits Aesthetics

This course covers multiple eras and movements throughout the age of film.

#### **DFP-111**<sup>♦</sup>: **Digital Video Production I** 4 credits

This course introduces students to the technical and aesthetic aspects of small format digital production as well as the basic principles of motion picture production. Students learn the language of film/digital video and how its manipulation can express one's individual message or purpose.

#### **DFP-115**♦: Acting for the Camera 4 credits

This introductory course helps digital film production students to develop skills and gain experience in acting and directing for the camera. Students participate on both sides of the camera. Course sessions include lecture, practical exercises, and preparation for analyzing and blocking a scene and working on a set. Students screen selected film clips to evaluate performances, explore methods to prepare for an audition, discuss the actor/director relationship, and examine the professional requirements of relating to a crew.

#### DFP-201: Cinema and Self-Expression 4 credits

This course is designed to help students connect historical film movements with their impact on culture, religion, and personal expression. In doing so, students will be challenged to discover their own personal film style and identity through a series of digital media projects. Prerequisite: DFP-101 & DFP-111.

#### **DFP-221**<sup>△•</sup>: Screenwriting I 4 credits

Students in this writing intensive course learn storytelling for the screen through a managed regimen of in-class and out-of-class experiences that emphasize the essential mix of imagination and craft in writing. They hone their skills in observation, communication, and visualization, and receive instruction on structure for screenwriting and how to employ written language to articulate dramatic and visual expression.

#### DFP-223<sup>♦</sup>: Cinematography 4 credits

This course is an intensive exploration of the craft, technologies, and aesthetic principles of cinematography, lighting, and set design techniques. Lectures and in-class demonstrations cover video formats, cameras, exposure, lenses and optics, lighting units, lighting placement, lighting control, camera support, and camera movement.

#### **DFP-225**♦: Nonlinear Editing 4 credits

This course follows the general chronology of editing from capture and logging, through editing and effects, to final output of a finished program. The first half of the course is devoted entirely to a mastery of the editing software. The second half of the course is devoted to examining how and why editing is important. Different editing theories are explored, including montage, fast cut, long take, jump cut, and others.

#### DFP-226: Visual Effects

4 credits

Visual effects are an integral part of contemporary film and streaming productions. This course provides an overview of the foundational skills in visual effects. Prerequisite: DFP-225.

#### DFP-230<sup>♦</sup>: Writing the Genre Film 4 credits

Understanding genre conventions and tropes is critical to a screenwriter's success. This course combines script analysis with the practice of writing short scripts for a variety of genres. Prerequisite: DFP-221.

#### DFP-235\*: Writing the Character-Centered 4 credits Screenplay

One of the greatest challenges for screenwriters is to create dynamic, believable characters. In this course, students will reflect on the role of character and the relationship between strong characters and a strong screenplay. Prerequisite: DFP-221.

#### DFP-301<sup>△</sup>•: Film Production Management 4 credits

In this writing intensive course, students will learn how to take a project from development into pre-production and then, how to effectively market and distribute the project. Although students will not be filming the project, students will utilize their production knowledge in building realistic schedules and budgets for their projects. Prerequisites: DFP-111 and DFP-221.

#### DFP-311<sup>/♠</sup>: Cinema Directing 4 credits

This course utilizes techniques of directing, sound editing, lighting, and advanced editing programs. Several practical and written exercises lead to a short digital production. Students spend time working with actors in front of the camera as well as composing shots to convey a story visually. Prerequisites: DFP-111 and DFP-221.

#### DFP-311HN<sup>\*•</sup>: Cinema Directing 4 credit

This course utilizes techniques of directing, sound editing, lighting, and advanced editing programs. Several practical and written exercises lead to a short digital production. Students spend time working with actors in front of the camera as well as composing shots to convey a story visually. Prerequisites: DFP-111 and DFP-221.

#### DFP-323: Advanced Cinematography 4 credits

Building on foundational cinematography techniques, students in this course apply the technical and creative aspects of cinematography to various forms of digital media. Areas such as advanced application of lighting techniques and drone photography are explored. Prerequisite: DFP-223.

#### DFP-326: Visual Effects II 4 credits

This course focuses on preparing assets for advanced visual effects shots. Students will gain experience in 3D software and become familiar with the pipeline for 3D asset creation. Prerequisite: DFP-226.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **DFP-330**<sup>4</sup>: Editing the Genre Film

4 credits

In this course, students will learn the skills necessary to successfully edit a narrative genre film. Students will edit in a variety of genres, from comedy to horror, respecting expectations and gaining an understanding of what post-production practices allow each genre to function at the highest level. Prerequisites: DFP-225 and DFP-230.

#### DFP-331<sup>/♠</sup>: Visual Storytelling 4 cred

This course focuses on the elements that make up almost all storytelling. Students are encouraged to discover and develop their unique voices as writers and storytellers, while understanding the critical importance of working as part of a creative team. This course emphasizes the use of traditional storytelling, classic mythology, and the ways in which these devices apply to contemporary media.

#### DFP-331HN<sup>/♠</sup>: Visual Storytelling 4 credits

This course focuses on the elements that make up almost all storytelling. Students are encouraged to discover and develop their unique voices as writers and storytellers, while understanding the critical importance of working as part of a creative team. This course emphasizes the use of traditional storytelling, classic mythology, and the ways in which these devices apply to contemporary media.

#### DFP-335: Promos and Trailers 4 credits

In this course, students will learn the art and technique of film and television advertising through trailer and promo editing. With a focus on grabbing attention, condensing story, and inciting curiosity, students will practice remixing feature and short films into the most attractive promotional package possible; with a focus on capturing the intended audience for each film. Students will also learn how promotional editing can dramatically alter the expected tone of a film by creating genre remixes of popular films. Prerequisites: DFP-226 and DFP-330.

#### DFP-341\*: Writing Meaningful Dialogue 4 credits

Poorly written dialogue can remove a character's authenticity and diminish the audience's suspension of disbelief. This course explores what constitutes great dialogue and delves into techniques that allow writers to incorporate powerful subtext, craft honest and emotionally impactful dialogue, and integrate exposition seamlessly. Prerequisite: DFP-235.

## DFP-346\*: Development and Production of TV 4 credits Commercials

In this course, students learn the entire process of creating commercials. Students learn the skills of writing copy, developing ideas, researching the marketplace, working with client needs, pitching, and production of commercials. Prerequisite: DFP-111, DFP-221, & DFP-331.

## DFP-351\*: Audio Production for Cinema and 4 credits Television

This course introduces basic audio production skills and encourages students to face the challenges of audio production within the film and television industry. Students will learn how to capture clear sound as well as how to manipulate sound during the post-production stage. Prerequisite: DFP-111.

#### DFP-352: Advanced Audio Production

4 credits

This course trains students in the art and technique of post-production sound; from building the essential elements of a soundtrack for greater story immersion, to mixing those elements into a unified whole for professional distribution. Skills covered include sound design, sound editing, ADR editing, and mixing. Prerequisites: DFP-225 and DFP-351.

#### DFP-361\*: Music Video/Documentary 4 credits Production 4

This course is a survey of music video and documentary productions. Students study, analyze, and implement techniques in both types of productions. Prerequisite: DFP-111.

## DFP-370♦: Creating Authentic Cinematic 4 credits Conflict

Maintaining interest while the story unfolds is an important task for the screenwriter. This course delves deeply into screenplay structure, analyzing dramatic strategies employed by successful screenwriters. Students will engage in various stages of the screenwriting process. Prerequisite: DFP-221.

#### DFP-371: Social Impact Storytelling 4 credits

Film, as a universal language, can relay factual stories through a variety of visual storytelling techniques. Students learn to leverage stories as a tool to support and advance an organization's purpose or mission. Prerequisite: DFP-311 & DFP-346.

#### DFP-375: Writing for Interactive Media 4 credit

In this course, students explore the multiple aspects of writing for interactive media and how it differs from traditional storytelling. The course discusses the importance of worldbuilding, creating dynamic characters, and how player and viewer choice can create compelling experiences. Special emphasis is placed on video games, virtual and augmented reality, and choose-your-own-adventure media. Prerequisite: DFP-111, DFP-221, DFP-225, DFP-226.

#### DFP-401<sup>‡</sup>: Distribution & Exhibition 4 credits

Film serves to connect audiences with storytellers so a filmmaker must think about the exhibition and distribution of the completed project. In this course, students learn how a film reaches its correct audience, whether it's through streaming, festival, traditional theatrical, or other outlets. Prerequisite: DFP-301.

#### DFP-416: Advanced Compositing 4 credits

This course introduces students to advanced topics in compositing. Students will use a node-based workflow to complete visual effects shots. Prerequisite: DFP-326.

#### DFP-426: Visual Effects III 4 credits

In this course, students will build on their knowledge of 3D asset creation. Students will explore the visual effects pipeline in more depth through a variety of projects. Prerequisite: DFP-326.

#### DFP-451\*: Digital Production II 4 credits

This course exposes students to every aspect of media production. Students also learn how to work well in a team environment and to adhere to deadlines, time constraints, and medium limitations. Prerequisites: DFP-111, DFP-311 and DFP-323.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### DFP-455<sup>4</sup> •: Advanced Digital Post-Production 4 credits

This writing-intensive capstone course strengthens students' understanding of the art of cinematic storytelling through post-production. Students will focus on integrating advanced picture and audio editing techniques with visual effects to create polished short films.

#### DFP-455HN<sup>\*</sup>♦: Advanced Digital Post-Production 4 credits

This class is about developing students' understanding of the art of cinematic storytelling and montage and exposing them to the cueing, performing, and editing of Foley and Automated Dialogue Replacement. Students work on more advanced projects is integrated into the class as a means of mastering advanced editing tools and techniques. Prerequisites: DFP-225 and DFP-351, or DFP-227.

#### DFP-457<sup>△</sup>•: Screenwriting II 4 credits

Students in this writing intensive course study, analyze, and implement advanced techniques in creating cinema screenplays. This course emphasizes the use of traditional storytelling and classic mythology, and how these devices apply to contemporary screenplays. Prerequisite: DFP-221.

## DFP-460\*: Creating the Dramatic Television 4 credits Series

In this course, students will learn the entire process of creating a dramatic television series. Students learn the skills of developing ideas, researching the marketplace, creating character bios, writing pilots, and pitching. Prerequisite: DFP-221.

#### DFP-463\*: Adapting Media to Screenplays 4 credits

Students learn to adapt various forms of media to screenplays. Prerequisite: DFP-221.

#### **DFP-470**♦: Screenwriting Capstone 4 credits

Students participate in individually writing a full-length feature film. They also explore all aspects of structure, character, settings, theme, obstacle, and expressive writing storytelling. Prerequisites: DFP-457 and DFP-463.

#### **DFP-480<sup>Ω</sup>•:** Digital Production Practicum 4 credits

This practicum allows students to apply digital production principles. The course focuses on the process and completion of a short digital film. Prerequisite: DFP-451.

#### **DFP-481:** Digital Production Capstone 4 credits

This capstone course allows students to apply digital production principles. The course focuses on the process and completion of a short digital film. Prerequisite: DFP-451.

## Health Administration (DHA)

#### DHA-801: Healthcare Economics 3 credits

This course explores how healthcare economics are influenced by governmental structures and organizational models.

Consideration is given to how healthcare spending influences health outcomes and interventions.

## DHA-802: Innovation in Healthcare Technology

3 credits

This course addresses the intersection of technology and innovation, leading to solutions for operational change and data-driven decisions. Consideration is given to the future of health records and information sharing.

## DHA-803: Policy and Regulation in 3 credits Healthcare

This course examines regulatory compliance within healthcare organizations. Consideration is given to advocacy, contracts, and ethical obligations to provide quality healthcare.

## DHA-804: Strategic Healthcare Management 3 credits and Leadership

This course considers the application of leadership theories and organizational structures, leading to solutions for team collaboration and organizational strategic planning. Leading change both within and outside the organization is highlighted.

#### DHA-955: Dissertation I 3 credit

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: RSD-883 or RSD-884.

#### DHA-960: Dissertation II 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DHA-955.

#### DHA-965: Dissertation III 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DHA-960.

#### DHA-966: Research Continuation I 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-965.

#### DHA-967: Research Continuation II 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Practicum/field experience hours: None. DHA-966.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### DHA-968: Research Continuation III

3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Practicum/field experience hours: None. DHA-967.

#### DHA-969: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-968.

#### DHA-970: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-969.

#### DHA-971: Research Continuation VI 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-970.

#### DHA-972: Research Continuation VII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-971.

#### DHA-973: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-972.

#### DHA-974: Research Continuation IX 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DHA-973.

## Healthcare Leadership (DHL)

#### **DHL-821:** Organizational Initiatives

3 credits

This course focuses on methods a leader employs to prioritize and manage multiple organizational initiatives. Consideration is given to leveraging resources and technology to meet stakeholder needs.

#### DHL-823: Risk Management

3 credits

This course addresses key issues of risk management and mitigation in healthcare. Consideration is given to quality assurance and patient safety.

#### DHL-825: Resource Management

3 credits

This course addresses advanced concepts in human resources leadership with a focus on technology application, resource retention, and contingency planning.

#### Dissertation (DIS)

#### **DIS-955** $^{\Omega}$ : Dissertation I

3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: RES-871, RES-885, RSD-883, or RSD-884.

#### DIS-960 $^{\Omega}$ : Dissertation II 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DIS-955.

#### DIS-965 $^{\Omega}$ : Dissertation III 3 credit

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: DIS-960.

#### DIS-966E: Research Continuation I 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-965.

#### DIS-967E: Research Continuation II 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-966 or DIS-966E.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### DIS-968E: Research Continuation III

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-967 or DIS-967E.

3 credits

#### DIS-969E: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-968 or DIS-968E; RSD-951.

#### DIS-970E: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-969 or DIS-969E.

#### DIS-971E: Research Continuation VI 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-970 or DIS-970E.

#### DIS-972E: Research Continuation VII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-971E.

#### DIS-973E: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-972E.

#### DIS-974E: Research Continuation IX 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: DIS-973E.

#### DIS-975 $^{\Omega}$ : Research Continuation Course 0 credits

This course emphasizes the finalization of the dissertation and provides learners guidance for finding the appropriate venues and approaches in publishing their research findings. This will include the final steps necessary in pulling together what might have been earlier versions of chapters 1, 2, and 3, as well as the proofing and dissertation editing strategies that are required and the steps scholars can take to make sure their results are, in fact, shared with other scholars. This includes an exploration of writing research articles, preparing to present scholarly papers, as well as other publication venues. Prerequisites: DIS-966E or DIS-970 and either RSD-951 or D-35 status.

# Doctor of Nursing Practice (DNP)

#### DNP-801A: Introduction to DNP Studies 3 credit

This course introduces learners to the skills and mindset necessary for success on the doctoral journey. These skills include critical thinking and analysis, navigating resources, academic writing for the doctoral level, identifying and understanding scholarly research, and the role of the practitioner-scholar.

#### DNP-805: Health Care Informatics 3 credits

This course provides the foundations for using information systems/technology to support and improve patient care and health care systems. The course is designed to provide the tools needed to manage individual and aggregate level information and use information systems/technology to evaluate programs of care, outcomes of care, and care systems using industry standards and related ethical, regulatory, and legal principles. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-801.

#### DNP-805A: Health Care Informatics 3 credits

This course provides the foundations for using information systems/technology to support and improve patient care and health care systems. The course is designed to provide the tools needed to manage individual and aggregate level information and use information systems/technology to evaluate programs of care, outcomes of care, and care systems using industry standards and related ethical, regulatory, and legal principles. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-801A.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### DNP-810: Emerging Areas of Human Health 3 credits

Advanced nursing practice requires practice expertise and specialized knowledge in making diagnostic and practice management decisions. This science-based course gives learners insight into emerging areas of human health to improve health outcomes and establish programs of clinical excellence and emphasizes guidance and coaching of individuals and families through developmental, health-illness, and situational transitions from a holistic perspective. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-805.

#### DNP-810A: Emerging Areas of Human Health 3 credits

Advanced nursing practice requires practice expertise and specialized knowledge in making diagnostic and practice management decisions. This science-based course gives learners insight into emerging areas of human health to improve health outcomes and establish programs of clinical excellence and emphasizes guidance and coaching of individuals and families through developmental, health-illness, and situational transitions from a holistic perspective. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-805A.

#### DNP-815A: Scientific Underpinnings 3 credits

This course creates a base for the application of science into advanced nursing practice and includes philosophical, ethical, and historical foundations. Nursing science frames the development of theories and concepts to guide nursing practice and determine the nature and significance of health and health care delivery phenomena. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice immersion hours: Learners are required to document a minimum of 50 practice hours (25 direct and 25 indirect) in association with this course. Practicum/field experience hours: 100. Prerequisite: DNP-810A.

## DNP-820 $^{\Omega}$ : Translational Research and Scredits Evidence-Based Practice

This course focuses on a core set of skills and knowledge application activities related to the translation of research into practice, the evaluation of practice, and improvement of health care outcomes. Learners examine evidence to guide improvements in practice and outcomes of care. Literature reviews focus on gaps or tensions in the translation of research into practice. Ethical considerations are also examined in the context of health care research. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice hours: Learners must be able to document a minimum of 50 concurrently or previously logged practice hours in association with this course. Practicum/field experience hours: 50. Prerequisite: DNP-815.

## DNP-820A: Translational Research and Evidence-Based Practice

This course focuses on a core set of skills and knowledge application activities related to the translation of research into practice, the evaluation of practice, and improvement of health care outcomes. Learners examine evidence to guide improvements in practice and outcomes of care. Literature reviews focus on gaps or tensions in the translation of research into practice. Ethical considerations are also examined in the

3 credits

context of health care research. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-815A.

#### DNP-825: Population Management 3 credits

This course examines ideas that promote understanding of aggregate, community, environmental/occupational, and cultural/socioeconomic dimensions of health. Learners analyze epidemiological, biostatistical, occupational, and environmental data in the development, implementation, and evaluation of clinical prevention and population health. Evidence-based recommendations for health promotion and risk reduction for individuals and families and concepts of public health are emphasized. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice hours: Learners must be able to document a minimum of 50 concurrently or previously logged practice hours in association with this course. Practicum/field experience hours: 50. Prerequisite: DNP-820.

#### DNP-825A: Population Management 3 credits

This course examines ideas that promote understanding of aggregate, community, environmental/occupational, and cultural/socioeconomic dimensions of health. Learners analyze epidemiological, biostatistical, occupational, and environmental data in the development, implementation, and evaluation of clinical prevention and population health. Evidence-based recommendations for health promotion and risk reduction for individuals and families and concepts of public health are emphasized. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Prerequisite: DNP-820A.

#### DNP-830 $^{\Omega}$ : Data Analysis 3 credits

This course focuses on the analysis of data that is grounded in clinical practice and designed to solve practice problems or to inform practice directly. It emphasizes the use of analytic methods to critically appraise gathered evidence to determine and implement the best evidence for practice. Learners also learn to disseminate findings from evidence-based practice and research to improve health care outcomes. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice hours: Learners must be able to document a minimum of 50 concurrently or previously logged practice hours in association with this course. Practicum/field experience hours: 50. Prerequisite: DNP-825.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### DNP-830A: Data Analysis

3 credits

This course focuses on the analysis of data that is grounded in clinical practice and designed to solve practice problems or to inform practice directly. It emphasizes the use of analytic methods to critically appraise gathered evidence to determine and implement the best evidence for practice. Learners also learn to disseminate findings from evidence-based practice and research to improve health care outcomes. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice. Practicum hours must include a minimum of 25 direct and a minimum of 25 indirect logged and approved practice hours in association with this course. Practicum/field experience hours: 125. Prerequisite: DNP-840A.

## DNP-835: Patient Outcomes and Sustainable 3 credits Change

This course prepares learners to develop effective strategies to ensure safety and quality health care for patients and populations and includes evaluation of health care outcomes. Learners engage in inquiry into the state of health care delivery, patient-centered care, sustainable change, and ethical principles surrounding practice. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice hours: Learners must be able to document a minimum of 50 concurrently or previously logged practice hours in association with this course. Practicum/field experience hours: 50. Prerequisite: DNP-825.

## DNP-835A: Patient Outcomes and Sustainable 3 credits Change

This course prepares learners to develop effective strategies to ensure safety and quality health care for patients and populations and includes evaluation of health care outcomes. Learners engage in inquiry into the state of health care delivery, patient-centered care, sustainable change, and ethical principles surrounding practice. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Prerequisite: DNP-825A.

## DNP-836: Facilitation of Learning in Nursing 3 credits Education

This course explores the role of the nurse educator in higher education settings with specific emphasis on effective methods of facilitating learning and fostering critical thinking skills in diverse student populations. Learners are introduced to instructional strategies and methods grounded in evidence-based practice and learning theory and engage in the selection of appropriate strategies to facilitate learning. Learners also consider the effective integration of technology and simulation into teaching practice. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-810.

## DNP-836A: Facilitation of Learning in Nursing 3 credits Education

This course explores the role of the nurse educator in higher education settings with specific emphasis on effective methods of facilitating learning and fostering critical thinking skills in diverse student populations. Learners are introduced to instructional strategies and methods grounded in evidence-based practice and learning theory and engage in the selection of appropriate strategies to facilitate learning. Learners also consider the effective integration of technology and simulation into teaching practice. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-810A.

#### DNP-837: Curriculum Design and Assessment 3 credits

This course focuses on curriculum design and assessment of student learning outcomes in nursing education. Learners examine best practices for curriculum development, including performing needs assessments, writing learning objectives, and creating formative and summative assessments. Learners also consider selection of content and instructional strategies based on diverse student needs and collecting and employing assessment data to improve teaching and learning outcomes. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-836.

#### DNP-837A: Curriculum Design and Assessment 3 credits

This course focuses on curriculum design and assessment of student learning outcomes in nursing education. Learners examine best practices for curriculum development, including performing needs assessments, writing learning objectives, and creating formative and summative assessments. Learners also consider selection of content and instructional strategies based on diverse student needs and collecting and employing assessment data to improve teaching and learning outcomes. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-836A.

## DNP-838: Nursing Program Development and 3 credits Educational Leadership

In this course, learners examine issues related to nursing program development within the complex and highly regulated environment of nursing education. With a focus on regulatory and accrediting bodies, learners determine the best methods for designing, evaluating, and improving nursing education programs in order to meet the diverse needs of industry and other stakeholders. Learners also explore leadership issues in nursing education and the professional development and scholarly obligations of the nurse educator-scholar in the academic community. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-837.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## DNP-838A: Nursing Program Development and 3 credits Educational Leadership

In this course, learners examine issues related to nursing program development within the complex and highly regulated environment of nursing education. With a focus on regulatory and accrediting bodies, learners determine the best methods for designing, evaluating, and improving nursing education programs in order to meet the diverse needs of industry and other stakeholders. Learners also explore leadership issues in nursing education and the professional development and scholarly obligations of the nurse educator-scholar in the academic community. Learners are expected to integrate the educational leadership competencies through completion of education practicum hours during this course. Practicum/field experience hours: 50. Prerequisite: DNP-837A.

## DNP-840 $^{\Omega}$ : Leadership for Advanced Nursing 3 credits Practice

Advanced nursing practice requires political skills, systems thinking, and the business and financial insight needed for the analysis of practice quality and costs related to caring for the needs of a panel of patients, a target population, a set of populations, or a broad community. Learners conceptualize new interprofessional care delivery models that are based in contemporary nursing science and that are feasible within current organizational, political, cultural, and economic perspectives. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practice hours: Learners must be able to document a minimum of 50 concurrently or previously logged practice hours in association with this course. Practicum/field experience hours: 50. Prerequisite: DNP-835.

## DNP-840A: Leadership for Advanced Nursing 3 credits Practice

Advanced nursing practice requires political skills, systems thinking, and the business and financial insight needed for the analysis of practice quality and costs related to caring for the needs of a panel of patients, a target population, a set of populations, or a broad community. Learners conceptualize new interprofessional care delivery models that are based in contemporary nursing science and that are feasible within current organizational, political, cultural, and economic perspectives. Learners are expected to integrate and synthesize core program competencies and specialty practice requirements necessary to demonstrate proficiency in advanced nursing practice in the DNP Practice Immersion Workspace. Practicum hours must include a minimum of 25 direct and a minimum of 25 indirect logged and approved practice hours in association with this course. Practicum/field experience hours: 100. Prerequisite: DNP-835A.

#### DNP-955 $\Omega$ : DPI Project: Part I

3 credits

Learners finalize an issue in health care that will become the basis of an evidence-based research project to be carried out prior to completion of the doctoral program. Learners leave this course with a project goal/topic, a literature review, a proposed methodology, and a clear description of how addressing the issue presented will improve patient care. A project proposal is written in preparation for the Institutional Review Board (IRB) review. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practice hours: Learners must be able to document a minimum of 100 concurrently or previously logged practice hours in association with the three DPI Project courses. Practicum/field experience hours: 34. Prerequisite: DNP-840.

#### DNP-955A: DPI Project: Part I

4 credits

Learners finalize an issue in health care that will become the basis of an evidence-based research project to be carried out prior to completion of the doctoral program. Learners leave this course with a project goal/topic, a literature review, a proposed methodology, and a clear description of how addressing the issue presented will improve patient care. A project proposal is written in preparation for the Institutional Review Board (IRB) review. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practicum hours must include a minimum of 75 direct and a minimum of 50 indirect logged and approved practice hours in association with this course. Practicum/field experience hours: 225. Prerequisite: DNP-830A.

#### DNP-960 $^{\Omega}$ : DPI Project: Part II 3 credits

Learners submit a project for approval to the Institutional Review Board (IRB). Once IRB approval is obtained, the learner conducts the project. Data is appropriately gathered for future analysis to determine if the practice investigated in the project brought about improved outcomes. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practice hours: Learners must be able to document a minimum of 100 concurrently or previously logged practice hours in association with the three DPI Project courses. Practicum/field experience hours: 33. Prerequisite: DNP-955.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### DNP-960A: DPI Project: Part II

4 credits

Learners submit a project for approval to the Institutional Review Board (IRB). Once IRB approval is obtained, the learner conducts the project. Data are appropriately gathered for future analysis to determine if the practice investigated in the project brought about improved outcomes. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practicum hours must include a minimum of 75 direct and a minimum of 50 indirect logged and approved practice hours in association with this course. Practicum/field experience hours: 225. Prerequisite: DNP-955A.

#### DNP-965 $^{\Omega}$ : DPI Project: Part III 3 credits

Data gathered during the project is analyzed and evaluated to determine the outcomes garnered by the project. A proposal for dissemination and mass implementation is created. Learners identify areas of future research and practice change for the continued improvement of health care. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practice hours: Learners must be able to document a minimum of 100 concurrently or previously logged practice hours in association with the three DPI Project courses. Practicum/field experience hours: 33. Prerequisite: DNP-960.

#### DNP-965A: DPI Project: Part III 4 credits

Data gathered during the project is analyzed and evaluated to determine the outcomes garnered by the project. A proposal for dissemination and mass implementation is created. Learners identify areas of future research and practice change for the continued improvement of health care. Learners are required to plan and document their learning goals and activities using the DPI Project Milestone Guide. Learners also continue work as necessary in the DNP Practice Immersion Workspace to ensure that all programmatic requirements have been met. Practicum hours must include a minimum of 50 direct and a minimum of 50 indirect logged and approved practice hours in association with this course. Practicum/field experience hours: 225. Prerequisite: DNP-960A.

#### **DNP-966** $^{\Omega}$ : Project Continuation I 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-965.

#### **DNP-967**<sup>Ω</sup>: Project Continuation II

3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-966.

#### **DNP-968** $^{\Omega}$ : Project Continuation III 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-967.

#### DNP-969: Project Continuation IV 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-968.

#### DNP-970: Project Continuation V 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-969.

#### DNP-971: Project Continuation VI 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-970.

#### DNP-972: Project Continuation VII 3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-971.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### **DNP-973:** Project Continuation VIII

3 credits

This course emphasizes the finalization of the requirements needed to complete the DNP program and provides learners with individualized support for completing their program requirements. Learners continue to work directly with their chairperson and committee members based on their individual success plan for completing their programs. Prerequisite: DNP-972

#### Data Science (DSC)

# DSC-505: Statistics and Computing 4 credits Foundations for Data Science and AI

This foundational course serves as an introduction to the core concepts and skills required for a successful journey into the world of data science. It covers the fundamental mathematical and programming principles needed to build a strong foundation for advanced data analysis.

#### DSC-510: Advanced Probability and Statistics 4 credits

This course reviews probability, distributions, statistical methods, and data analysis, in the context of computational science. Students use statistical computing software to analyze, visualize, and communicate results.

#### DSC-515: Data Modeling and Analysis 4 credits

This course is a comprehensive exploration of data modeling and analysis techniques across a diverse range of industry sectors. Students delve into distinct models of data and their respective analysis methods, equipping them with a versatile skillset applicable to various professional contexts. Through practical exercises and real-world case studies, learners gain a deep understanding of how to adapt and apply these models to solve complex problems in different industries. By the end of the course, students will be well-prepared to make informed decisions and recommendations based on data-driven insights. Prerequisite: DSC-510.

## DSC-517: Applied Data Modeling and 4 credits Analysis

This course introduces the concept of working with dynamic data, allowing students to handle and analyze data streams that change over time, not just static datasets. By the end of the course, students will be well-prepared to address dynamic data challenges and apply advanced analytical techniques in a professional setting. Prerequisite: DSC-515.

#### DSC-520: Regression Analysis 4 credits

This course covers methods and applications of linear regression and multivariate analysis in predictive modeling. Students learn how to build and validate statistical models, using exploratory analysis, linear regression, principal components analysis, and cluster analysis. Prerequisite: DSC-510.

#### DSC-525: Foundations of Data Visualizations 4 credits

This course is designed to equip students with a comprehensive understanding of data visualization techniques and best practices across three key stages of the data analysis process: data preprocessing and exploration, data analysis, and data presentation. Students learn to create visually engaging and informative data visualizations that add value to the information presented, ensuring they are accurate, non-misleading, and ethical. Additionally, they explore user interface (UI) principles for designing multidimensional visualizations using size, shape, and color, and how to address outliers effectively. Prerequisite: DSC-510.

#### DSC-527: Applied Data Visualizations 4 credits

The Applied Data Visualizations course is designed to build upon the foundational concepts of data. This advanced course emphasizes practical applications of data visualization techniques and tools. Students engage in challenging assignments and create visuals from start to finish, telling a compelling story with data. Prerequisite: DSC-525.

#### DSC-530: Predictive Modeling 4 credits

This course focuses on foundational principles and on the process of developing mathematical tools and models that generates accurate predictions. Students design, build, and validate software applications that implement supervised learning algorithms. Prerequisite: DSC-520.

#### DSC-540: Machine Learning for Data Science 4 credits

This course covers the use, analysis, design, and implementation of machine learning algorithms. Students acquire in depth understanding of theoretical underpinning of both simple and advanced algorithms. Prerequisite: DSC-520.

## DSC-550: Neural Networks and Deep 4 credits Learning

This course introduces deep artificial neural networks, reviewing the theoretical concepts and practical applications in data science. Students design and implement ANNs, while learning methods for training, testing, and deployment. A distinction is made between neural networks, convolutional neural networks, and recurrent neural networks. Prerequisite: DSC-520.

#### DSC-555: Data Science Project 4 credits

Students engage in the conceptualization, design, and presentation of an innovative idea, process, or product within the realm of data science. Through hands-on projects, learners integrate and apply knowledge acquired from preceding courses, culminating in the development of a comprehensive project. Prerequisite: DSC-515, DSC-525.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## DSC-565: Machine Learning Operations (MLOps) in Data Science

4 credits

This course on MLOps (Machine Learning Operations) is designed for students pursuing a master's in Data Science. MLOps make up a crucial discipline that bridges the gap between machine learning research and deployment in real-world scenarios. In this course, students learn the essential concepts, practices, and tools required to effectively manage and streamline the end-to-end machine learning life cycle, ensuring that data science projects are scalable, maintainable, and reproducible. Prerequisite: DSC-515.

#### DSC-567: Practical Applications of MLOps 4 credits

This course delves deeper into the practical aspects of machine learning operations (MLOps). MLOps are key to successfully deploying, monitoring, and maintaining machine learning models in real-world scenarios. In this course, students explore practical applications and hands-on techniques for implementing MLOps in various data science projects, preparing them for the challenges of operationalizing machine learning in the field. Prerequisite: DSC-565.

#### DSC-570: Data Mining 4

This course combines mathematical and theoretical aspects of data analytics towards implementations in a computational form. Data mining algorithms and related methods for knowledge representation and reasoning form the basis for the development of decision and analytics software tools. Prerequisite: CST-560.

#### DSC-575: Time Series Analysis 4 credits

This course is designed to equip students with advanced skills in time series analysis. Through a combination of theoretical foundations and hands-on practical applications, students delve into the intricacies of temporal data to derive meaningful insights and make informed decisions. Prerequisite: DSC-567.

## DSC-577: Practical Applications of Time 4 credits Series Forecasting

This course focuses on practical applications of time series analytics in real-world scenarios. Students engage in hands-on projects using both static historical data and live streamed data, providing them with a comprehensive skill set for addressing dynamic challenges in the field. Prerequisite: DSC-575.

## DSC-580: Designing and Creating Data 4 credits Products

This course presents the process for designing and creating software applications that use data to achieve an end goal. Several software development tools and languages are used to build products that use data to accomplish a business analytics or scientific exploration task. Prerequisite: DSC-570.

#### DSC-590: Data Science Capstone Project 4 credits

Students conceptualize, design, and present an innovative idea, process, or a product in the field of data science. Projects synthesize and apply knowledge from previous courses and include a scientific report anchored in current theory and research. Prerequisite: DSC-577.

#### Digital Social Media (DSM)

#### DSM-101: Introduction to Social Media 4 credits

This course is an introduction and overview to social media tools and techniques. Students apply strategic thinking to the "why" and learn to plan, organize, and create digital content. Case studies will give reference and understanding of the changing landscape in this media market.

## DSM-215<sup>‡</sup>: Photography and Video for Social 4 credits Media

This course builds technical knowledge and skills for creating and publishing photographic and video-based content for social media channels. Students learn how to create compelling visual stories for their brands using social media channels.

## DSM-300: Social Media for Events, 4 credits Entertainment, and Sports

The coverage of events requires students to prepare a strategy against expected outcomes, have an equipment plan (and a backup plan), and often work in teams to create the volume of content required. Prerequisite: DSM-215.

#### DSM-320: Social Media Communities 4 credit

Communities are built from people sharing together. Students learn to build and evaluate communities using industry standard tools. They create content after understanding the personalities of those communities, and work to motivate those communities toward appropriate outcomes. Prerequisite: DSM-101.

#### DSM-340<sup>\*</sup>: Social Media Data and Analytics 4 credits

This course uses industry standard tools for planning and evaluation of social media campaigns. Students will learn how to collect data and learn how to make data-based decisions that affect the success of social campaigns. Prerequisite: DSM-101.

#### DSM-350: Personal Brand Management 4 credits

This course teaches students to develop their own personal brand. Athletes, artists, musicians, entrepreneurs, engineers, teachers and others can use social media to develop their own unique online image. Out-leverage your competition by building a strategy, writing your brand story, creating engaging content, building your community, and managing your personal brand identity. Prerequisite: A subscription to Canva or Adobe Express.

#### DSM-400<sup>\*</sup>: Reputation Management 4 credit

The goal of reputation management is to positively shape the perception of a brand, business, or personality. This class teaches students the strategic process for content curation, monitoring and listening to social channels, then responding appropriately. Escalation policies are studied and created. Case studies of businesses as well as natural disasters inform theses skills. Prerequisite: DSM-101, DSM-320.

#### DSM-420<sup>\*</sup>: Social Media Campaigns 4 credits

In this course students will activate all of their prior knowledge to strategize, concept, and create social campaigns that result in high levels of audience engagement. Prerequisites: DSM-101 and DSM-215.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

During this course students will research, plan, create, publish, and analyze the results of a self-directed social media campaign, including the creation and management of an online community. Prerequisite: DSM-420, Senior standing.

# Educational Administration (EAD)

# EAD- $501^{\Omega}$ : Educational Administration: Foundations for the Developing Leader

3 credits

4 credits

This course begins by acquainting candidates with the GCU learning management system, while preparing them to be successful graduate-level students and future educational leaders. With an intense programmatic focus on developing people into leaders, this course examines the essential value of Leading with Purpose, a principal cornerstone of the College of Education's mission statement and Conceptual Framework. Major leadership styles, philosophies and the characteristic leadership behaviors will be a fundamental focus while candidates begin to understand and develop their own leadership style and philosophy. This development will occur in context as candidates are exposed to the leadership foundations provided through the professional standards and code of ethics for educational leaders. Practicum/field experience hours: 10. Fingerprint clearance not required.

#### EAD-505: Education Law 3 credits

This course will introduce candidates to the laws and policies governing and relating to PreK-12 education in the United States. Through case studies, a broad range of topics will be examined including, due process, discipline, freedom of speech, school safety, discrimination, religion in schools, and rights of students with disabilities. These and other topics will be framed in context to inform the future principal's role in improving outcomes for all students. Practicum/field experience hours: 10. Fingerprint clearance not required. Prerequisite: EAD-501.

## EAD-507: Foundations of Educational 3 credits Administration and Leadership

This course begins by acquainting candidates with the learning management system while preparing them to be successful graduate-level students and future educational leaders. With a programmatic focus on developing leaders, this course examines school missions and visions that promote the values of equity, diversity, and community, with an emphasis on a leader's character development, modeling and advocating for ethical behavior, and leadership.

# This course examines PK-12 education finance with a fundamental focus on issues and practices that directly affect the operation of the school and local education agency (LEA). Candidates will be exposed to the regulations encompassed in the Uniform System of Financial Records (USFR) and the implications of these regulations at the school site level. School finance topics related to education at the federal, state, and local levels will be examined. Candidates will explore school budget and accounting principles, fiscal responsibility, resource allocation, basic administrative theories, processes, and techniques, as well as discuss the major challenges facing them in the daily operation of local schools. Practicum/field experience hours: 10. Fingerprint clearance not required. Prerequisite: EAD-501.

#### EAD-513: Shaping School Culture 3 credits

This course emphasizes the critical role of the leader in creating and sustaining a positive school culture and shared vision. Given diverse settings, contexts and leadership situations, candidates will explore how various leadership styles, philosophies and behaviors can promote or hinder the development of a quality learning culture and positive workplace conditions. Additionally, candidates will examine supervisory processes and strategies by which educational leaders can empower teacher self-efficacy and promote instructional improvement that enriches the outcomes for all students. Practicum/field experience hours: 10. Fingerprint clearance required.

## EAD-517: Educational Administration and 3 credits Education Law

This course introduces candidates to the laws and policies governing and relating to PK-12 education in the United States. A broad range of topics will be examined including the values of democracy, individual freedom, and responsibility, as well as equity, social justice, community, and diversity within the educational community. Focus is on the principal's role in ethical decision-making and implementing laws, rights, policies, and regulations to improve outcomes for all students.

#### EAD-519: Clinical Internship I: Learner-Centered Leadership 3 credits

The Internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. The timeliness of the Internship promotes the authentic learning application of Block 1 tasks at a level of competence needed to ensure effective school leadership. Practicum/field experience hours: 90. Fingerprint clearance required. Prerequisites: EAD-501, EAD-505, and EAD-510.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# EAD-520: Strengthening Curricular 3 credits Programs to Promote Continuous School Improvement

This course prepares candidates to become effective instructional leaders in the evaluation of school-wide curricular programs to promote continuous school improvement. Candidates will explore processes in planning, implementation, and evaluation of programs and curriculum, while ensuring that curricular design, instructional strategies, and learning environments integrate appropriate technologies that maximize learning and teaching. Data-driven analysis is emphasized throughout. Practicum/field experience hours: 10. Fingerprint clearance required.

#### EAD-523: Developing Professional Capacity 3 credits

This course prepares candidates to become effective building-level instructional leaders in the development of professional capacity. Candidates will investigate various school professional development program practices including Professional Learning Communities, Collaborative Learning Communities, beginning teacher induction, and mentor program models. Additionally, candidates will analyze theoretical models, research, and best practices for improving teaching as well as learning outcomes for all students, with a strong emphasis on data-driven, learner-centered decision-making. Practicum/field experience hours: 10. Fingerprint clearance required.

## EAD-527: Administration of Education 3 credits Finance

This course examines PK-12 education finance with a fundamental focus on issues and practices that directly affect the operation of the school and local education agency (LEA). Candidates will be exposed to the regulations encompassed in the Uniform System of Financial Records (USFR) and the implications of these regulations at the school site level. School finance topics related to education at the federal, state, and local levels will be examined. Candidates will explore financial aspects of school improvement while managing change.

#### EAD-529: Clinical Internship II: Learner-Centered Leadership 3 credits

The Internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. The timeliness of the Internship promotes the authentic learning application of Block 2 tasks at a level of competence needed to ensure effective school leadership. Practicum/field experience hours: 90. Fingerprint clearance required. Prerequisites: EAD-519, EAD-513, EAD-520, and EAD-523.

## EAD-530: Improving Teacher Performance 3 credits and Self-efficacy

This course prepares candidates to become effective building-level instructional leaders who are able to positively enrich teaching and learning experiences/outcomes through leadership practices that improve teacher performance, self-efficacy, and morale. Course topics promote the learning of strategies including coaching; collaborative learning and decision-making; creating a safe and supportive professional learning culture; and reflective practice. Candidates will examine current policy and practice in the areas of teacher observation, evaluation, and teacher performance ratings. Practicum/field experience hours: 10. Fingerprint clearance required.

## EAD-533: Developing and Empowering 3 credits Instructional Leaders

This course prepares candidates to become effective building-level instructional leaders who are able to positively enrich teaching and learning experiences/outcomes through leadership practices that improve teacher performance, self-efficacy, and morale. Course topics promote the learning of strategies including cognitive coaching; collaborative learning/decision-making; creating a safe/supportive professional learning culture; and reflective practice. Candidates will examine current policy and practice in the areas of teacher observation, evaluation, value-added student growth models, and teacher performance ratings. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: EAD-501.

#### EAD-536: Strategic Leadership and 3 credits Management in the Principalship

This course will explore critical issues facing school principals, including the challenge of attracting and retaining a quality work force, managing and allocating resources, innovative instructional leadership, creating community partnerships, and meeting the myriad of district, state and federal policies and laws. With a focus on all six Interstate School Leaders Licensure Consortium (ISLLC) standards, candidates will holistically analyze a school's Continuous Improvement Plan (CIP) and focused action plans in various contexts. This analysis will inform the candidate's understanding of the important implications of managing school resources in order to meet operational needs and improve outcomes for all students. Practicum/field experience hours: 10. Fingerprint clearance required.

## EAD-537: Sustaining Educational 3 credits Environments and Communities

This course emphasizes the critical role of the leader in creating and sustaining a positive school culture and shared vision. Given diverse settings, contexts, and leadership situations, candidates will explore how to manage and cultivate productive relationships with students, families, and the educational community that promote student development and success. Emphasis is placed on effective communication with community stakeholders in a variety of contexts.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### EAD-539: Clinical Internship III: Learner- 3 credits Centered Leadership

The Internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. The timeliness of the Internship promotes the authentic learning application of Block 3 tasks at a level of competence needed to ensure effective school leadership. Practicum/field experience hours: 90. Fingerprint clearance required. Prerequisites: EAD-529, EAD-530, EAD-533, and EAD-536.

## EAD-547: School Organization and 3 credits Management

This course explores critical organizational and management issues faced by school principals. Topics explored include recruiting, selecting, and hiring, to build a quality work force to support school improvement. Focus also includes managing and allocating resources, including technology that supports equity and digital literacy to all learners. Candidates also explore promoting a school mission and vision to support school community safety and learning.

## EAD-557: Administration of Curriculum and 3 credits Academic Programs

This course prepares candidates to become effective instructional leaders in the evaluation of school-wide curricular programs to promote continuous school improvement. Focus is placed on evaluating academic and non-academic practices, services, and curricula to ensure cultural responsiveness, character education and development, equity, and accessibility based on data-driven analysis.

#### EAD-567: Coaching and Mentoring to 3 credits Support Teacher Self-Efficacy and Retention

This course prepares candidates to develop and promote best practices in emerging trends and initiatives in support of teacher self-efficacy and retention. Topics will explore coaching and mentoring in alignment to the teacher coaching cycle of observation, evaluation, and providing actionable feedback for teacher improvement. Emphasis is placed on creating a collaborative professional culture that promotes equity, cultural responsiveness, and the success and well-being of all stakeholders.

#### EAD-570: Educational Administration 3 credits Clinical Internship I

The internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. Practicum/field experience hours: 100. Fingerprint clearance required. Prerequisites: EAD-507, EAD-517, and EAD-527.

#### EAD-577: Promoting Effective and Respectful 3 credits Learning Environments

This course prepares candidates to promote effective and safe learning environments to support school improvement initiatives. Research-based best practices in establishing a consistent, organized, and respectful learning environment will be explored. Emphasis is placed on equitable, inclusive, and culturally responsive practices. Character education is addressed to support the social, emotional, and behavioral well-being of all school community stakeholders, and to sustain a positive learning environment.

#### EAD-580: Educational Administration 3 credits Clinical Internship II

The internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. Practicum/field experience hours: 100. Fingerprint clearance required. Prerequisite: EAD-570.

#### EAD-587: Distributed and Inclusive 3 credits Leadership

This course prepares candidates to become effective buildinglevel instructional leaders who are able to supervise, support and evaluate school staff in a manner that promotes character education, character development, reflection and self-awareness, equity, cultural responsiveness, and distributed leadership. Emphasis is placed on promoting professional dispositions and norms that support equity, inclusion, and educational success.

## EAD-590: Educational Administration 3 credits Clinical Internship III

The internship experience and course content bridge program knowledge and skills with a focus on observing, participating, and leading. Principal candidates will apply building-level leadership skills in a clinical practice designed to facilitate the candidate's ultimate success in improving the outcomes for all students as a school leader. Practicum/field experience hours: 100. Fingerprint clearance required. Prerequisites: Successful completion of all courses in POS and content area; a 3.0 GPA and approval and placement by College of Education Office of Field Experience.

## Educational Administration Business and Finance (EBF)

## EBF-520: Federal Funding for Schools and 3 credits Districts

This course focuses on funding available to schools and districts from the federal government. Funding types and the regulations for allocating those funds in compliance with federal guidelines are emphasized. Prerequisite: EAD-527 or FIN-504.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EBF-525: State Funding for Schools and Districts

3 credits

This course focuses on funding available to schools and districts from the state government. Funding types and regulations for allocating those funds in compliance with federal guidelines are emphasized. Prerequisite: EBF-520.

## EBF-530: Local Funding for Schools and 3 credits Districts

This course focuses on funding available to schools and districts from local entities. Funding sources, including community organizations, are explored. Ethical and legal management of local funding is emphasized. Prerequisite: EBF-525.

## EBF-550: Managing School Capital and 3 credits Human Resources

This course focuses on the equitable allocation and distribution of funds and resources available to schools and districts. Legal and ethical use and reporting of funds are emphasized. Prerequisite: EBF-530 or ACC-502.

## Early Childhood Education (ECE)

## ECE-120: Early Childhood Foundations and 4 credits the Teaching Profession

This course focuses on foundations of early childhood education with an emphasis on the historical context, ethical practices, philosophical and psychological theories, and current early childhood educational models including the Montessori education model. Teacher candidates will also examine the roles and expectations of early childhood educators, and have the opportunity to reflect on and plan for their own professional development. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECE-130: Educational and Developmental 4 credits Psychology for Early Childhood Educators

This course focuses on theories of child development and learning. Teacher candidates will examine the application of those theories to traditional and contemporary early childhood models and evaluate their usefulness in supporting children's academic achievement, brain development, and social and emotional growth through early childhood. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-210: Instructional Planning for Young 4 credits Children

In this course, teacher candidates examine principles of instructional planning with an emphasis on alignment between content standards, objectives, and assessment. Additional focus is placed on meeting the needs of individual learners through differentiated instruction. Engagement methods, including the use of technology, are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-220\*: Typical and Atypical Behaviors in 4 credits Early Childhood

This course focuses on the developmental milestones of typical and atypical students, as well as evaluating disabilities and gifted tendencies among students in Birth – Grade 3 settings. Teacher candidates will also examine early interventions for students who demonstrate atypical behaviors, and investigate the role IDEA plays in early childhood settings. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECE-220HN<sup>†</sup>: Typical and Atypical Behaviors in 4 credits Early Childhood

This course focuses on the developmental milestones of typical and atypical students, as well as evaluating disabilities and gifted tendencies among students in Birth – Grade 3 settings. Teacher candidates will also examine early interventions for students who demonstrate atypical behaviors, and investigate the role IDEA plays in early childhood settings. Practicum/field experience hours: 10. Fingerprint clearance required.

#### ECE-222<sup>‡</sup>: Typical and Atypical Behaviors in 4 credits Young Children 4

This course focuses on the developmental milestones of typical and atypical students, as well as evaluating disabilities and gifted tendencies among students in Birth – Grade 3 settings. Teacher candidates will also examine early interventions for students who demonstrate atypical behaviors, and investigate the role IDEA plays in early childhood settings. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECE-230: Assessing, Monitoring, and 4 credits Reporting Progress of Young Children

In this course, teacher candidates will examine the learning cycle from the perspective of the student as well as the teacher. Key components include pre-assessment, analysis of data, lesson planning, instruction, post-assessment and reflection, and next steps. Assessing, monitoring, and reporting the performance and progress of young children is examined, as well as making educated projections for children's future performances based on age/grade level standards. Areas of focus in the course include the history and challenges of testing and the role of technology in assessment. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECE-232: Child Development in Health, 4 credits Safety and Nutrition

The course examines child growth and development as they relate to the health, safety, nutrition and fitness of young children. Principles and practices of personal and community health and safety are explored. Teacher candidates also consider strategies for developing the motor skills, social skills, confidence and enjoyment of movement in young children. Practicum/field experience hours: 25. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECE-300: Development of Health, Safety and 4 credits Nutrition in Young Children

The course examines child growth and development as they relate to the health, safety, nutrition and fitness of young children. Principles and practices of personal and community health and safety are explored. Teacher candidates also consider strategies for developing the motor skills, social skills, confidence and enjoyment of movement in young children. Practicum/field experience hours: 5. Fingerprint clearance required.

# ECE-332: Assessing, Monitoring, and Reporting Progress of Young Learners 4 credits

This course will prepare teacher candidates with the knowledge and skills to administer both traditional and authentic assessment strategies. Research-based screening tools, observation, checklists, and rating scales will be discussed. This course will examine assessments designed for students in preschool to Grade 3 focusing on performance assessment and methods used to report the student results to all stakeholders. Teacher candidates will examine the developmentally appropriate use of both traditional and authentic assessments to include developing a comprehensive assessment plan. Practicum/field experience hours: 25. Fingerprint clearance required.

#### ECE-360<sup>\*\*</sup>: Family, Community, and Cultural 4 credits Awareness in Early Childhood

In this course, teacher candidates examine cultural learning theories as well as the relationships and structures of family that make up the classroom and community. Emphasis is placed on identifying community, school, and familial needs maintaining open communication with families in order to enhance the learning environment. Practicum/field experience hours: 5. Fingerprint clearance required.

#### ECE-360HN<sup>f</sup>: Family, Community, and Cultural 4 credits Awareness in Early Childhood

In this course, teacher candidates examine cultural learning theories as well as the relationships and structures of family that make up the classroom and community. Emphasis is placed on identifying community, school, and familial needs maintaining open communication with families in order to enhance the learning environment. Practicum/field experience hours: 5. Fingerprint clearance required.

# ECE-362: Family, Community, and Cultural 4 credits Awareness Supporting Early Childhood

In this course, teacher candidates examine cultural learning theories as well as the relationships and structures of family that make up the classroom and community. Emphasis is placed on identifying community, school, and familial needs, and maintaining open communication with families in order to enhance the learning environment. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-400: Child Guidance and Management 4 credits in Early Childhood Education

This writing intensive course focuses on creating a positive culture in the learning environment, implementing classroom management strategies, supporting students with challenging behaviors, and addressing young children's social and emotional needs. This course explores theories and models, including Montessori methodologies, which foster a safe and effective classroom environment. Special attention is placed on the guidance approach. Teacher candidates are introduced to the educational benefits of family involvement, addressing diverse learning needs, and developing realistic management policies and procedures that benefit the learning environment. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECE-402<sup>\(\Delta\)</sup>: Child Guidance and Classroom 4 credits Management in Early Childhood

This writing intensive course focuses on creating a positive culture in the learning environment, implementing classroom management strategies, supporting students with challenging behaviors, and addressing young children's social and emotional needs. This course explores theories, models, and methodologies which foster a safe and effective classroom environment. Teacher candidates are introduced to the educational benefits of family involvement, addressing diverse learning needs, and developing realistic management policies and procedures that benefit the learning environment. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-442: Early Childhood Instructional 4 credits Methodologies: Mathematics

This course examines mathematical methodologies for teaching children in the early childhood environment, with an emphasis in hands-on and manipulative-based learning. Teacher candidates apply the skills necessary to develop a mathematical unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ECE-332.

# ECE-450: Instructional Methodologies: 4 credits Language Arts and the Creative Arts

This course examines literacy methodologies for teaching children Kindergarten to Grade 3, with an emphasis in incorporating the arts. Teacher candidates apply the skills necessary to develop instruction for language arts and creative arts that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisites: ECE-230 and ECE-340 or ECS-430.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### ECE-452: Early Childhood Instructional 4 credits Methodologies: ELA and the Arts

This course examines literacy methodologies for teaching children in the early childhood environment, with an emphasis in incorporating the arts. Teacher candidates apply the skills necessary to develop instruction for language arts and creative arts that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisites: ECE-332 and ECE-340 or ECS-430.

## ECE-455: Instructional Methodologies: 4 credits Mathematics

This course examines mathematical methodologies for teaching children Pre-K to Grade 3, with an emphasis in hands-on and manipulative-based learning. Teacher candidates apply the skills necessary to develop a mathematical unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ECE-230.

## ECE-460: Instructional Methodologies: 4 credits Science

This course examines science methodologies for teaching children Birth to Grade 3, with an emphasis on inquiry-based learning. Teacher candidates apply the skills necessary to develop a science unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ECE-230.

## ECE-462: Early Childhood Instructional 4 credits Methodologies: Science

This course examines science methodologies for teaching children in the early childhood environment, with an emphasis on inquiry-based learning. Teacher candidates apply the skills necessary to develop a science unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ECE-332.

## ECE-465: Instructional Methodologies: Social 4 credits Studies

This course examines social studies methodologies for teaching children Kindergarten to Grade 3, with an emphasis on connections to past, present, and future concepts and events. Teacher candidates apply the skills necessary to develop a social studies unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ECE-230.

#### ECE-470: Birth through Preschool Early 4 credits Childhood Practicum

Teacher candidates spend time in a birth through preschool setting observing, working with small groups, and teaching. Emphasis will be placed on planning, implementing, and evaluating developmentally appropriate curricula, instruction, and adaptations based on knowledge of development and learning with young children, the family, and the community. The practicum/field experiences for this course are in a birth through preschool setting. Practicum/field experience hours: 30. Fingerprint clearance required. Prerequisites: ECE-230 and ECE-340 or ECS-430.

#### ECE-472: Early Childhood Instructional 4 credits Methodologies: Social Studies

This course examines social studies methodologies for teaching children in the early childhood environment, with an emphasis on connections to past, present, and future concepts and events. Teacher candidates apply the skills necessary to develop a social studies unit plan that is standards-based and data-driven. Candidates are also given the opportunity to deliver instruction and evaluate their professional practice. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ECE-332.

## ECE-490: Student Teaching – Pre-K to Age 8 credits 8/Grade 3

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Evaluation of Performance (STEP) and an Individualized Education Program (IEP) Performance Template. Fingerprint clearance required.

## ECE-501: Introduction to Early Childhood 3 credits Foundations and Graduate Studies

This course begins by acquainting teacher candidates with the GCU learning management system, while preparing them to be successful graduate-level students and future Early Childhood educators. Teacher candidates survey the philosophical, historical, and psychological foundations upon which early childhood educational theories and practices are constructed. Current early childhood educational models are explored. Teacher candidates examine the application of theories to the early childhood classroom and evaluate their contemporary usefulness in supporting children's academic achievement, brain development, and social and emotional growth through early childhood. Practicum/field experience hours: None. Fingerprint clearance not required.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## ECE-510: Typical and Atypical Behaviors of 3 credits Young Children

Teacher candidates survey how young children grow and develop, recognizing that patterns of learning and development vary individually across the cognitive, linguistic, physical, social, and emotional areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to development of young children will allow teacher candidates to build foundational knowledge for constructing differentiated learning opportunities that support individual students' development, acquisition of knowledge, and motivation. Teacher candidates review atypical development, early intervention, and Parts A and B of IDEA to develop IFSP, IEPs, and 504s for young children. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-515: Typical and Atypical Child 3 credits Development 3

Teacher candidates survey how young children grow and develop, recognizing that patterns of learning and development vary individually across cognitive, linguistic, physical, and social and emotional areas while understanding the importance of communicating with families on child development. This survey of the seminal concepts, principles, theories, and research related to development of young children will allow teacher candidates to build foundational knowledge for supporting individual students' development. Teacher candidates review atypical development, early intervention, and aspects of special education, including Parts C and B of IDEA, IFSPs, IEPs, and 504s. The importance of advocacy and professionalism as an early childhood educator is also examined. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-520: Instructional Planning, Assessment 3 credits and Reporting in Early Childhood

Teacher candidates obtain a robust view of the learning cycle of teaching, which includes assessment, evaluation, data analysis, reflection, and next steps, to develop lessons aligned to state and national standards. Data are used to assess, monitor, and report the progress of young children. Teacher candidates analyze and integrate multiple methods of assessment that support monitoring student progress and guiding decision making. Assessment and instruction will support foundational knowledge regarding the importance of planning instruction based on the knowledge of students, learning theory, connection across the curriculum, curricular goals, with focused attention on formative and summative assessment. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECE-522: Instructional Planning and Assessment in Early Childhood

In this course, teacher candidates will examine developmentally appropriate practice in teaching young children. Key components include pre-assessment, analysis of data, comprehensive lesson planning, instruction, post-assessment, and reflection. Assessing, monitoring, and reporting the performance and progress of young children is examined. Areas of focus in the course include aligning instruction and assessment to standards, planning support for diverse learners, and the role of technology in assessment. Practicum/field experience hours: None. Fingerprint clearance not required.

3 credits

# ECE-530: Health, Safety, and Nutrition in Growth and Development of Early Learners

Teacher candidates explore child growth and development, including developmental milestones that must be met with regards to physical, cognitive, and social-emotional development, as well as adaptability and approaches to learning for young children. This course emphasizes safety, health, and nutrition with a focus on the special health care needs for young children. Aspects of physical development, including fitness and movement, gross and fine motor skills, and fostering physical development within the community are discussed. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECE-532: Child Growth and Development in 4 credits Health, Safety, and Nutrition

Teacher candidates explore child growth and development, including developmental milestones that must be met with regards to physical, cognitive, language, and social and emotional development, as well as adaptability and approaches to learning for young children. This course emphasizes safety, health, and nutrition with a focus on the special healthcare needs for young children. Aspects of physical development, including fitness and movement, gross and fine motor skills, and fostering physical development within the community are discussed. Practicum/field experience hours: 25. Fingerprint clearance required.

## ECE-550: Literacy Intervention and 3 credits Remediation 3

Teacher candidates study the early stages of reading disabilities, including dyslexia. Emphasis is on assessment procedures in early childhood settings and methods of early intervention and remediation. Candidates will explore the collaboration with stakeholders in the use of formal and informal assessment data to support the diagnosis and remediation process in literacy. Candidates will examine research-based strategies to support literacy development. Practicum/field experience hours: None. Fingerprint clearance not required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ECE-560: Family Engagement and Cultural 3 credits Awareness in Early Childhood

Teacher candidates examine the family, community, and cultural influences that affect young children. Teacher candidates identify factors that put young children at risk as well as resources to support various types of families and structures. Teacher candidates also identify ways to meet community needs while promoting cultural awareness and competence. Practicum/field experience hours: 10. Fingerprint clearance required.

# ECE-562: Family Engagement and Cultural 3 credits Awareness Supporting Early Childhood

In this course, teacher candidates examine cultural learning theories as well as the relationships and structures of family that make up the classroom and community. Emphasis is placed on identifying community, school, and familial needs maintaining open communication with families in order to enhance the learning environment. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECE-568: Birth through Preschool Early 3 credits Childhood Practicum

Teacher candidates explore a birth through preschool setting observing, working with small groups, and teaching developmentally appropriate instruction. Emphasis will be placed on examining developmental and academic content domains while planning, implementing, and evaluating curricula, instruction, and strategies based on evidence-based practices with young children, the family, and the community. The practicum/field experiences for this course are in a birth through preschool setting. Practicum/field experience hours: 30. Fingerprint clearance required. Prerequisites: (ECE-630, ECE-640 and ECE-622) OR (ECE-550, ECE-650, and ECE-660).

## ECE-598: Student Teaching – Pre-K to Age 8 credits 8/Grade 3

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

## ECE-600: Creating and Managing the Early 3 credits Childhood Environment

Teacher candidates use the guidance approach to create environments that support individual and collaborative learning, encourage positive social interaction, facilitate active engagement in learning, and promote self-motivation. Montessori classroom management philosophies are explored. Teacher candidates develop skills related to establishing and maintaining organized, safe, inclusive, respectful, challenging, and positive early childhood environments with rules and expectations that are clearly communicated. Teacher candidates also examine how to help students overcome challenging behavior and learn from mistakes. Practicum/field experience hours: 15. Fingerprint clearance required.

## ECE-602: Managing and Guiding a Positive 3 credits Early Childhood Environment

Teacher candidates use the guidance approach to create environments that support individual and collaborative learning, encourage positive social interaction, facilitate active engagement in learning, and promote self-motivation. Teacher candidates develop skills related to establishing and maintaining organized, safe, inclusive, respectful, challenging, and positive early childhood environments with rules and expectations that are clearly communicated. Practicum/field experience hours: 25. Fingerprint clearance required.

# ECE-622: Research Based Instruction, 3 credits Remediation, and Intervention in ELA

Teacher candidates examine a variety of instructional strategies that encourage young children to build reading, writing, and oral language skills in meaningful ways. Emphasis is placed on integrating the creative arts throughout language arts curriculum that teacher candidates will develop, teach, and assess. Teacher candidates will explore research-based intervention and remediation strategies to select, differentiate, and implement instruction to advance the learning for all students. Candidates will also gather and analyze performance data to make instructional decisions that support the process of implementing developmentally appropriate intervention and remediation to serve the diverse needs of all students. In addition, teacher candidates will integrate content areas into language arts lessons while strengthening literacy connections at home. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ECE-520 or ECS-575.

## ECE-630: Instructional Methodologies: 3 credits Mathematics

Teacher candidates research instructional methodologies for teaching mathematics to young children. Emphasis is placed on hands-on and inquiry- and manipulative-based learning in mathematics curriculum that teacher candidates will develop, teach, and assess. Candidates will also gather and analyze performance data to make instructional decisions. In addition, teacher candidates will build skills to integrate literacy, science, social studies, and the creative arts into mathematics lessons while strengthening mathematical connections at home. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisites: ECE-520 and ECE-540 or ECS-575.

#### ECE-640: Instructional Methodologies: 3 credits Science and Social Studies

Teacher candidates research instructional methodologies for teaching science and social studies to young children. Emphasis is placed on inquiry-based learning and real-world connections to science and social studies curriculum that teacher candidates will develop, teach, and assess. Candidates will also gather and analyze performance data to make instructional decisions. In addition, teacher candidates will build skills to integrate literacy, mathematics, and the creative arts into science and social studies lessons while strengthening connections at home. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisites: ECE-520 and ECE-540 or ECS-575.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ECE-650: Early Childhood Instructional Methodologies: ELA, Social

Studies, and Arts

Teacher candidates examine instructional strategies that encourage young children to build reading, writing, and oral language skills in meaningful ways. Emphasis is placed on integrating social studies and the creative arts throughout language arts instruction. Candidates will also gather and analyze performance data to make instructional decisions. Candidates will explore best practices when working with children identified with exceptionalities. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: ECE-522.

## ECE-660: Early Childhood Instructional Methodologies: STEM

3 credits

3 credits

Teacher candidates research instructional methodologies for teaching STEM content (science, technology, engineering, and math) to young children. Emphasis is placed on inquiry-based with problem solving and interactive learning experiences. Candidates will also gather and analyze performance data to make instructional decisions to meet the needs of all students. Candidates will explore best practices when working with children identified with exceptionalities. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ECE-522.

# Early Childhood Education (ECH)

## ECH-360: Instructional Methodologies for 4 Teaching: Arts

4 credits

This course examines instructional methodologies for teaching children Birth to Age 5/Pre-K and K to Age 8/Grade 3 with emphasis on the arts. Practicum/field experience hours: 10. Fingerprint clearance required.

## ECH-480 $^{\Omega}$ : Student Teaching: Birth to Pre- 6 credits School

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

#### ECH- $485^{\Omega}$ : Student Teaching: K-3

6 credits

This course is the second of two 8-week sessions of the student teaching experience in a classroom. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidates are required to complete their internship experiences in a K-3 classroom. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

#### ECH-515: Early Literacy Development 4 credits

This course reviews research in language and literacy development with an emphasis on effective strategies (such as phonemic awareness and decoding) in Birth to Age 5/Pre-K and K to Age 8/Grade 3. NAEYC Standards 1-5 will be the focus of study.

#### ECH-640: Instructional Teaching 4 credits

Methodologies: Language, Math, Science, Social Studies, and the

This course examines instructional methodologies for teaching young children, with a specific emphasis on language, math, science, social studies, and the arts. Practicum/field experience hours: 20. Fingerprint clearance required.

#### ECH-680<sup>Ω</sup>: Student Teaching: Birth to Pre-School 6 credits

This course is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

#### ECH-685 $\Omega$ : Student Teaching: K-3 6 credits

This course is the second of two 8-week sessions of the student teaching experience in a classroom. The course includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidates are required to complete their internship experience in a K-3 classroom. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

## Economics (ECN)

389

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

4 credits

ECN-449**♦**:

This survey course covers the basic concepts of microeconomics and macroeconomics. The course begins by addressing the fundamental concepts of scarcity, choice, opportunity cost, and comparative advantage. The course builds on these fundamentals to explain the market forces of supply and demand, market efficiency, the economics of the public sector, and the firm's behavior under competitive market conditions. The second half of the course focuses on basic macroeconomic concepts, including measurement of national income, economic growth, and productivity. In addition, this course covers the monetary system and the classical theory of inflation.

## ECN- Essentials of Economics 4 credits 351HN<sup>/♦</sup>:

This survey course covers the basic concepts of microeconomics and macroeconomics. The course begins by addressing the fundamental concepts of scarcity, choice, opportunity cost, and comparative advantage. The course builds on these fundamentals to explain the market forces of supply and demand, market efficiency, the economics of the public sector, and the firm's behavior under competitive market conditions. The second half of the course focuses on basic macroeconomic concepts, including measurement of national incomes, economic growth, and productivity. In addition, this course covers the monetary system and the classical theory of inflation. Prerequisites: ACC-240 and BUS-352.

#### ECN-361<sup>/♦</sup>: Microeconomics 4 credits

This course focuses on the fundamental ideas of microeconomics. Students examine the market forces of supply and demand under different market structures in order to understand how economic agents make decisions about both consumption and production. The structure, conduct, and performance of markets are evaluated through analysis of consumer, producer, and societal welfare. Students explore the topic of factor markets in which the incomes of most workers and owners of capital and property are determined. Prerequisites: ACC-240 or ACC-250 and BUS-352.

## ECN- Microeconomics 4 credits 361HN<sup>/♦</sup>:

This course focuses on the fundamental ideas of microeconomics. Students examine the market forces of supply and demand under different market structures in order to understand how economic agents make decisions about both consumption and production. The structure, conduct, and performance of markets are evaluated through analysis of consumer, producer, and societal welfare. Students explore the topic of factor markets in which the incomes of most workers and owners of capital and property are determined. Prerequisites: ACC-240 or ACC-250 and BUS-352.

#### ECN-362<sup>♦</sup>: Macroeconomics 4 credits

This course focuses on the national economy by examining macroeconomic data measuring national income, the cost of living, production and growth, and unemployment. Students examine the basic functions of the monetary system and analyze the macro economy in terms of long-run economic productivity and growth and in terms short-run fluctuations. The influence and effect of macroeconomic policy is studied within the context of current events. Prerequisite: ECN-361.

This course integrates the principles of a free market system with biblical foundations. It offers a path for promoting economic prosperity and sustainable solutions in a world looking for the way forward. The course content addresses the importance of personal freedom, the rule of law, private property, and moral virtue.

#### ECN-450<sup>♦</sup>: International Trade and Finance 4 credits

This course provides a study of interrelationships between the international monetary environment and financial planning for corporations with overseas operations. The topics covered include the international monetary system, the foreign exchange market, managing exchange exposure, political risk management, import/export financing, and international performance evaluation. Prerequisites: FIN-350 and either ECN-362 or ECN-351.

## ECN-460\*: Economics of Money, Banking, and 4 credits Financial Markets

This course is an overview of the modern monetary system as the informal infrastructure for a dynamic and decentralized global economy. Students examine this system by looking at a variety of markets where deal making activities take place between central banks, traditional banks, and "near banks" that act as dealmakers in both capital and money markets by supplying liquidity to the system. Innovative central bank policies and activities intended to stabilize the system are discussed. Prerequisites: ECN-362 and FIN-350.

#### ECN-461: Intermediate Microeconomics 4 credits

This course is an analysis of the price mechanism and its role in resource allocation and output in terms of efficiency and economic welfare. Topics include consumer choice and demand, utility, theories of production and cost, and market structures. This course builds upon the fundamental principles of microeconomics combined with the tools of mathematical optimization and uses economic theories and models to analyze business scenarios and current events. Prerequisites: ECN-361 and MAT-251.

#### ECN-462: Intermediate Macroeconomics 4 credits

This course is an analysis of the determinants of the level of national income, employment, production and productivity, and price level determination. Topics include the effects of economic policy instruments and decisions on aggregate economic performance goals and the role of fiscal and monetary policy in promoting stability, investment, and growth. This course builds upon the basic concepts of macroeconomics and uses economic models to analyze business scenarios and current events.

Prerequisites: ECN-362 and ECN-461.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECN-465: Public Policy

4 credits

This course is an examination of the role of government and market systems in modern economies using the tools of economic analysis to evaluate major public policy decisions. Policies will be evaluated in terms of impact on individual consumers and firms and the resulting impact on economic growth. The theory and rationale of government taxing, debt, and spending will be examined, as well as the effects of government activity on income distribution, resource allocation, and economic efficiency. Students develop analytical and critical thinking skills needed for defining policy issues, identifying alternative solutions, and predicting the potential impact of policy on the economy. Prerequisite: ECN-461.

#### **ECN-466:** Applied Econometrics

4 credits

This course is an introduction to basic econometric methods including regression analysis, estimation, hypothesis-testing, and prediction modeling in the analysis of economic data. This course helps develop critical thinking and methodological skills necessary for economic analysis of data and evaluation of policies. Prerequisite: ECN-462.

#### ECN-601: Economics

4 credits

This course introduces microeconomic and macroeconomic concepts that are relevant to contemporary business. Emphasis is placed on using economic data for business decision-making.

# Early Childhood Special Education (ECS)

## ECS-125\*: Foundations of Early Childhood 4 credits and Special Education

This course focuses on the fundamental basis of the field of early childhood education and early childhood special education. This course includes historical and philosophical foundations, current practices, ethics, advocacy, models of teaching, and application in early childhood/special education settings. Professional responsibilities for early childhood/early childhood special education educators are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECS-210: Instructional Planning for Early 4 credits Childhood and Early Childhood Special Ed

This course examines practices of effective instructional planning specific to early childhood and early childhood special education. Students are introduced to instructional planning that is differentiated to meet various needs and ages of students. Students are introduced to instructional tools and strategies specifically focusing on Universal Design for Learning to enhance strategies in individualizing, differentiating, and designing lessons to support accommodations and modifications to assist young learners with and without exceptionalities. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECS-220\*: Legal Aspects of Special Education 4 credits with an Emphasis in Early Childhood

This course examines current special education laws and professional practices. Emphasis is placed on Individuals with Disabilities Education Act (IDEA), assessment, identification, and implementation of services. Candidates also incorporate databased decision making and utilization of assistive technology in instruction. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECS-235\*: Child Development Including Health, Safety, and Nutrition 4 credits

This course examines child growth and development, including milestones regarding physical, cognitive, and social-emotional development in order to align program and instructional planning with state guidelines and regulations in health, safety, and nutrition for young children with and without exceptionalities. Family education and communication are also emphasized. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECS-320<sup>A</sup>: Child Guidance and Classroom Management for Typical and Atypical Behaviors 4 credits

This writing intensive course uses theories of child guidance and development for young children with and without exceptionalities as a basis for creating a safe and supportive classroom environment. Candidates create a classroom management plan and use student data to create a Behavioral Intervention Plan (BIP). The practicum/field experiences for this course are in an inclusive K-3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

# ECS-325\*: Child, Family, Cultural, 4 credits Community Relationships, and Advocacy

This course explores historical foundations, theories, and models of building relationships within families and schools, including family characteristics, diversity, advocacy, and community relationships. The course emphasizes community organizations that support and assist children with and without exceptionalities and their families, and advocacy for families with young children. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECS-425\*: Language, Literacy and 4 credits Communication in Early Childhood/Special Education

This course explores the foundations of early language acquisition and literacy development for children Birth to Age 8/Grade 3. Teacher candidates focus on the essential components of literacy and communication methods in early childhood special education, including oral language and emergent literacy. In addition, assistive technology to enhance communication and learning is explored. Practicum/field experience hours: None. Fingerprint clearance not required.

391

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ECS-430: Early Childhood Phonics and Science of Reading Development

This course explores components of typical and atypical literacy development for children Birth to Age 8/Grade 3. Coursework emphasizes the Science of Reading and components of literacy development, including phonics, phonemic awareness, vocabulary, fluency, and comprehension. Teacher candidates focus on assessing developmental and other literacy concerns, through differentiation strategies to support literacy learning in young children, including dyslexia. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: ECS-425, ECE-120, or ELM-211.

4 credits

# ECS-435<sup>\*\*</sup>: Assessment, Evaluation and Reporting for Early Childhood/Special Education

In this course, teacher candidates examine assessment, evaluation, and early identification for young children to develop IFSP's and IEP's, Birth to Age 8. The processes of using data in assessing, monitoring, and reporting the progress of young children's performances are investigated, in addition to early identification of children with special needs. The practicum/field experiences for this course are in an inclusive K-3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

# ECS-435HN<sup>/•</sup>: Assessment, Evaluation and Reporting for Early Childhood/Special Education

In this course, teacher candidates examine assessment, evaluation, and early identification for young children to develop IFSP's and IEP's, Birth to Age 8. The processes of using data in assessing, monitoring, and reporting the progress of young children's performance are investigated, in addition to early identification of children with special needs. The practicum/field experiences for this course are in an inclusive K-3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

# ECS-450: Developmentally Appropriate 4 credits Instruction: ELA, Social Studies, and Arts

This course examines instructional methodologies for teaching children with and without exceptionalities, emphasizing instruction in language arts, social studies, and the arts. Candidates consider the developmental continuum of literacy instruction based on student data and individual needs. The practicum/field experiences for this course are in an inclusive preschool-Grade 3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

## ECS-455: Developmentally Appropriate Instruction: STEM Subjects

This course examines instructional methodologies for teaching children with and without exceptionalities with an emphasis on STEM (science, technology, engineering, and math) content instruction. Candidates develop a unit plan that incorporates all STEM components and use data to identify areas to differentiate instruction to meet the needs of individual students. The practicum/field experiences for this course are in an inclusive preschool-Grade 3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

4 credits

#### ECS-460<sup>Ω</sup>: Birth – Pre-K Practicum I 4 credits

Teacher candidates spend time in an inclusive Birth-Pre-K setting observing, working with small groups of children with and without exceptionalities, and interviewing teachers. Emphasis will be placed on the management and guidance of young children, and child initiated learning. Special attention is given to the effect of children's abilities, social and emotional needs, and characteristics on development and learning across the span of birth through age 2. The practicum/field experiences for this course are in a general education or inclusive Birth - Pre-K setting. Practicum/field experience hours: 60. Fingerprint clearance required.

## ECS-462: Early Childhood Special Ed. 4 credits Practicum I: Birth - Preschool

Teacher candidates spend time in an inclusive Birth-Preschool setting observing, interviewing teachers, and working with small groups of children with and without exceptionalities. Emphasis will be placed on the management and guidance of young children and child-initiated learning. Special attention is given to the effect of children's characteristics, abilities, and social-emotional needs on development and learning. Practicum/field experience hours: 40. Fingerprint clearance required. Prerequisites: ECS-210 and ECS-320.

# ECS-465: Early Childhood Special Ed. 4 credits Practicum II: Kindergarten Grade 3

Teacher candidates spend time in an inclusive Kindergarten to Grade 3 setting observing, working with small groups, and teaching. Emphasis will be placed on individual education planning, implementing, and evaluating developmentally appropriate curricula, instruction, and adaptations based on knowledge of children with exceptionalities, the family, and the community. Special attention is placed on exceptionalities and medical conditions that influence care, resources, and priorities. The practicum/field experiences for this course are in an inclusive Kindergarten to Grade 3 setting. Practicum/field experience hours: 40. Fingerprint clearance required. Prerequisite: ECS-462.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

ECS-481B:

Teacher candidates spend time in an inclusive setting observing and evaluating students with and without exceptionalities in the area of literacy. Elements of reading and writing instruction are examined as a part of instructional practice with a focus on assessment, intervention, and remediation. Teacher candidates will explore research-based instructional strategies and interventions to select, adapt, and implement instruction to advance the learning for all students. The process of implementing literacy intervention and remediation strategies to support readers of varying ages and ability levels, including students with dyslexia will be explored. Emphasis will be placed on identifying development as a part of the instructional design process, as well as partnering with families to promote development in young children. The practicum/field experiences for this course are in an inclusive Kindergarten to Grade 3 setting. Practicum/field experience hours: 40. Fingerprint clearance required.

#### ECS-480A<sup>Ω</sup>: Student Teaching- Kindergarten to 6 credits Age 8/Grade 3: General Education Setting

Session A is one of two 8 week sessions of the student teaching experience. Teacher candidates are engaged in substantial student teaching experiences with early childhood populations alongside appropriately certified mentors that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Performance of Evaluation (STEP). Fingerprint clearance required.

#### ECS-480B<sup>Ω</sup>: Student Teaching- Kindergarten to 6 credits Age 8/Grade 3: Special Education Setting

This course supports the early childhood special education clinical field experience through an eight-week full-time student teaching experience in a kindergarten through age 8/grade 3 early childhood special education classroom. Candidates are engaged in substantial student teaching experiences with early childhood special education populations alongside appropriately certified mentors that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to support the creation of an Individualized Education Program (IEP) Performance Template. Fingerprint clearance required.

# ECS-481A: Student Teaching- Kindergarten to 6 credits Age 8/Grade 3: General Education Setting

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

Session B is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop an Individualized Education Program (IEP) Performance Template. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

#### ECS-490: Student Teaching Experiences: Early Childhood & Early Childhood Special Ed

8 credits

Teacher candidates are engaged in substantial experiences with both early childhood and early childhood special education populations alongside appropriately certified mentors throughout this student teaching course that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Evaluation of Performance (STEP) and an Individualized Education Program (IEP) Performance Template. Practicum/field experience hours: None. Fingerprint clearance required.

## ECS-500: Survey of Early Childhood Special 3 credits Education

Teacher candidates are introduced to the identifying characteristics of disabilities, including dyslexia, in children birth to age 8/Grade 3. Teacher candidates will be introduced to the components of the Individuals with Disabilities Education Act (IDEA) to understand the identification, data collection and referral process for special education. They will identify the risk factors and purpose of early intervention through understanding the characteristics of exceptional children, including dyslexia. Teacher candidates will survey the different types of family and service plans that are developed to support students with exceptionalities through collaboration with stakeholders.

# ECS-502: Foundations in Early Childhood Bed. and Early Childhood Special Ed.

This course begins by acquainting candidates with the GCU learning management system, while preparing them to be successful graduate-level students and future teachers. The course places primary focus on the fundamental basis of the field of early childhood education and early childhood special education, Birth to Age 5/Pre-K to K to Age 8/Grade 3, including historical and philosophical foundations, current practices, ethics, models of teaching, and application in early childhood education/early childhood special education settings. Additionally, professional preparation requirements and professional development opportunities in the field are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### ECS-510: Instructional Planning for Early Childhood and Early Childhood Special Ed

3 credits

This course examines effective instructional planning specific to early childhood and early childhood special education. Students are introduced to the process of instructional planning from evaluating student needs to creating developmentally appropriate objectives, learning activities, including play-based learning interventions, and assessments aligned with state learning standards. Accommodation, modification, and differentiation of instruction and assessment to meet the various needs of learners with and without exceptionalities are examined in the context of early childhood and early childhood special education. Practicum/field experience hours: None. Fingerprint clearance not required.

# ECS-520: Legal Aspects of Special Education 3 credits with an Emphasis in Early Childhood

This course examines current special education laws and professional practices in the early childhood education setting. Emphasis is placed on Individuals with Disabilities Education Act (IDEA), assessment, identification, and implementation of services. IFSP, IEP and 504 plans are discussed. Candidates also incorporate data-based decision making and utilization of assistive technology in instruction. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ECS-500.

# ECS-550: Child Guidance and Classroom 3 credits Management for Typical and Atypical Behaviors

Teacher candidates research theories and models of classroom management and consider the development and characteristics of young children with and without exceptionalities. The course emphasizes data collection, social/emotional development, and behavioral and crisis intervention, with a focus on evidence-based practices for creating safe, inclusive, respectful, challenging, and positive classroom environments. Candidates create a classroom management philosophy and plan and use student data to create a behavioral intervention plan (BIP). The practicum/field experiences for this course are in inclusive birth to Grade 3 settings. Practicum/field experience hours: 20. Fingerprint clearance required.

## ECS-555: Child Development Including 3 credits Health, Safety, and Nutrition

This course explores child growth and development, including developmental milestones that must be met with regards to physical, cognitive, and social-emotional development. The course emphasizes health, safety, and nutrition with a focus on special health care needs for young children. The candidate will use data to analyze the development of the whole child and consider best practices for family involvement. Practicum/field experience hours: None. Fingerprint clearance not required.

#### ECS-560: Child, Family, Cultural, Community Relationships, and Advocacy

3 credits

This course examines historical foundations, theories, and models of child development, including family characteristics, diversity, multicultural factors, and community relationships. Teacher candidates identify community organizations that support children with exceptionalities and their families. Candidates also identify ways to use those resources to advocate for children and their families. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECS-562: Early Childhood Special Ed. 3 credits Practicum I: Birth - Preschool

Teacher candidates spend time in an inclusive birth-preschool setting observing and evaluating students with and without exceptionalities. Emphasis will be placed on developmentally appropriate instruction and classroom management, as well as partnering with families to promote development in young children. Practicum/field experience hours: 40. Fingerprint clearance required. Prerequisites: ECS-510 and ECS-590.

#### ECS- $565^{\Omega}$ : Birth – Pre-K Practicum I 4 credits

Teacher candidates spend time in an inclusive Birth-Pre-K setting observing, working with small groups of children with and without exceptionalities, and interviewing teachers. Emphasis will be placed on the management and guidance of young children, and child initiated learning. Special attention is given to the effect of children's abilities, social and emotional needs, and characteristics on development and learning across the span of birth through age 2. The practicum/field experiences for this course are in a general education or inclusive Birth – Pre-K setting. Practicum/field experience hours: 60. Fingerprint clearance required.

#### ECS-567<sup>Ω</sup>: Birth – Pre-K Practicum II 4 credits

Teacher candidates spend time in an inclusive Birth-Pre-K setting observing, working with small groups, and teaching. Emphasis will be placed on individual education planning, implementing, and evaluating developmentally appropriate curricula, instruction, and adaptations based on knowledge of children with exceptionalities, the family, and the community. Special attention is placed on exceptionalities and medical conditions that influence care, resources, and priorities for children ages 2 through 4. The practicum/field experiences for this course are in an inclusive or developmental Birth – Pre-K setting. Practicum/field experience hours: 60. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECS-568: Early Childhood Special Ed. Literacy Practicum II: Kindergarten - Grade 3

3 credits

Teacher candidates spend time in an inclusive Kindergarten to Grade 3 setting observing and evaluating students with and without exceptionalities. Practical application of the elements of reading and writing instruction are examined to inform assessment, intervention, and remediation. Teacher candidates select, adapt, and implement research-based instructional strategies and interventions to advance the learning for all students. Particular focus is placed on literacy intervention and remediation to support readers of varying ages and ability levels, including students with dyslexia. Emphasis will be placed on developmentally appropriate instruction, as well as partnering with families to promote development in young children. The practicum/field experiences for this course are in an inclusive Kindergarten to Grade 3 setting. Practicum/field experience hours: 40. Fingerprint clearance required. Prerequisites: ECS-562 and ECS-575.

## ECS-569: Literacy Intervention Practicum II: 4 credits Kindergarten - Grade 3

Teacher candidates spend time in an inclusive Kindergarten to Grade 3 setting observing and evaluating students with and without exceptionalities. Practical application of the elements of reading and writing instruction are examined to inform assessment, intervention, and remediation. Teacher candidates select, adapt, and implement research-based instructional strategies and interventions to advance the learning for all students. Particular focus is placed on literacy intervention and remediation to support readers of varying ages and ability levels, including students with dyslexia. Emphasis will be placed on developmentally appropriate instruction, as well as partnering with families to promote development in young children. The practicum/field experiences for this course are in an inclusive Kindergarten to Grade 3 setting. Practicum/field experience hours: 40. Fingerprint clearance required. Prerequisite: ECS-575.

# ECS-570: Language, Literacy, and 3 credits Communication in Early Childhood/Special Education

This course explores the foundations of early language acquisition and literacy development for children Birth to Grade 3/Age 8. Teacher candidates focus on the essential components of oral language development and early literacy in the context of creating research-based instruction that is developmentally appropriate for the early childhood special education setting. In addition, teacher candidates explore assistive technology, including the use of augmentative and alternative communication systems, to enhance communication and learning. Practicum/field experience hours: None. Fingerprint clearance not required.

## ECS-575: Early Childhood Phonics and Science of Reading Development

This course explores components of typical and atypical literacy development for children Birth to Age 8/Grade 3. Coursework emphasizes research-based phonics development and the science of reading, including phonics, phonemic awareness, vocabulary, fluency and comprehension. Teacher candidates focus on assessing developmental and other literacy concerns, including dyslexia, with an emphasis on intervention, remediation, and

differentiation strategies to support literacy development in

clearance required. Prerequisite: ECS-570 or ECE-501.

3 credits

# ECS-580: Developmentally Appropriate 3 credits Instruction: ELA, Social Studies, and Arts

young children. Practicum/field experience hours: 10. Fingerprint

This course examines cross-content instructional methodologies for teaching language arts, social studies, and the arts to children with and without exceptionalities. Candidates consider the developmental continuum of literacy instruction based on student data and individual needs. Emphasis is placed on creating project-based instruction that integrates language arts, social studies, and the arts. The practicum/field experiences for this course are in an inclusive preschool-grade 3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

## ECS-585: Developmentally Appropriate 3 credits Instruction: STEM Subjects

Teacher candidates research instructional methodologies to include inquiry-based and hands-on learning for teaching children with and without exceptionalities with an emphasis on STEM content (science, technology, engineering, and math) instruction. Candidates use data to differentiate learning outcomes to meet the needs of individual students and develop a unit plan that incorporates all STEM components. The practicum/field experiences for this course are in an inclusive K-3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

# ECS-590: Assessment, Evaluation, and Reporting for Early Childhood/Special Education

This course provides teacher candidates with a robust view of assessment, evaluation, and reporting in early childhood education, including for early identification and developing IFSPs and IEPs for young children, Birth to Grade 3/Age 8. Data are used to assess, monitor, and report the progress of young children with and without exceptionalities. The practicum/field experiences for this course are in an inclusive K-Grade 3 setting. Practicum/field experience hours: 20. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### ECS-595A<sup>\Omega</sup>: Student Teaching- Kindergarten to 6 credits Age 8/Grade 3: General Education Setting

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in substantial student teaching experiences with early childhood populations that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

#### ECS-595B<sup>Ω</sup>: Student Teaching- Kindergarten to 6 credits Age 8/Grade 3: Special Education Setting

This course supports the early childhood special education clinical field experience through an eight-week full-time student teaching experience in a kindergarten through age 8/grade 3 early childhood special education classroom. Candidates are engaged in substantial student teaching experiences with early childhood special education populations alongside appropriately certified mentors that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to support the creation of an Individualized Education Program (IEP) Performance Template. Fingerprint clearance required.

# ECS-596A: Student Teaching- Kindergarten to Age 8/Grade 3: General Education Setting

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in substantial student teaching experiences with early childhood populations. The student teaching experience includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

# ECS-596B: Student Teaching- Birth to Age 8/Grade 3: Special Education Setting

Session B is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in substantial student teaching experiences with early childhood special education populations that includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to develop an Individualized Education Program (IEP) Performance Template. Practicum/field experience hours: None. Fingerprint clearance required.

# ECS-598: Student Teaching Experiences: Early Childhood & Early Childhood Special Ed

8 credits

Teacher candidates are engaged in substantial experiences with both early childhood and early childhood special education populations. The student teaching experience includes, but is not limited to, practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP) and an Individualized Education Program (IEP) Performance Template. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

#### Instructional Leadership (EDL)

#### EDL-517: Legal and Ethical Considerations in 3 credits Leadership

This course introduces candidates to the laws and policies governing and relating to education in the United States. Emphasis is placed on ethical professional practice and personal responsibility. Other topics covered include the educational leader's role in implementing laws, rights, policies, and regulations to improve outcomes for students.

#### EDL-527: Resource Management 3 credits

Effective management of human and capital resources is a critically important responsibility for system leaders. Leaders need to make the most of potentially scarce resources and align their resource management strategy with the mission and vision of the organization. This course focuses on identifying and allocating resources, including funding, people, facilities, and systems, to promote improvement. Emphasis is placed on collaboration and ethical decision making. Prerequisite: EDL-517.

#### EDL-537: Becoming a Leader 3 credit

This course explores the application of professional dispositions and virtues based on a personal mission and vision in a manner that promotes democracy, individual freedom and responsibility within the educational community. Topics include self-awareness and self-reflection as a leader, as well as building and maintaining positive relationships with all education stakeholders. Prerequisite: EDL-527 or CEA-527.

## EDL-557: Leading with an Entrepreneurial 3 credits and Innovative Mindset

This course introduces candidates to the entrepreneurial mindset in education that is required to identify emerging trends and promote innovation. Collaborative and data-informed decision-making and risk tolerance and management are emphasized. Prerequisite: EDL-537

396

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **EDL-567:** Leading Change

3 credits

Candidates are introduced to models and frameworks of change management as well as necessary communication skills to manage risk, create buy-in, and build coalitions to promote positive educational change. Emphasis is placed on the importance of relationships, understanding and preparing to lead lasting change, and the moral purpose of change. Prerequisite: EDL-557.

### EDL-577: Leading Projects and Teams 3 credits

This course focuses on building a collaborative culture that fosters effective teams and projects. Topics explored include delegating responsibility and supervision of projects and leaders. Prerequisite: EDL-567 or EAD-587, or approved enrollment in the Graduate Certificate in Instructional Coaching.

### EDL-590: Educational Leadership Capstone 3 credits

This capstone course provides educational leadership candidates the opportunity to implement an innovative solution to an educational issue. An emphasis is placed on conducting research, data analysis, and analyzing research themes to draw conclusions. Practicum/field experience hours: 30. Fingerprint clearance required. Prerequisite: EDL-577.

### EDL-609: Superintendent Internship 3 credits

This internship is designed to provide candidates interested in PK-12 district office leadership meaningful learning experiences needed to prepare for PK-12 district leadership positions. Designated field experience opportunities include orientation to district office organization, responsibilities of the superintendent, district office organizational structure, district governance, community relations, and personnel development. Practicum/field experience hours: 90. Fingerprint clearance required.

## EDL-805: Training and Collaboration for 3 credits Learning

Clearly, instructional leadership today is driven to a great extent by the capacity to lead teaming and collaboration. This course will explore the leadership required to support teaming at all levels. For example, horizontal teams are required in schools today in order to be thoughtful about the instructional leadership decisions that must be made on a consistent basis. This requires strategic grade-level collaboration that helps to ensure horizontal alignment of the curriculum and consistency in instructional practice. Furthermore, vertical collaboration includes teachers and administrators from different levels—perhaps from central office, etc.—all working together toward instituting a more comprehensive implementation of the instructional plan. This exploration will include an examination of Professional Learning Communities and the mechanisms used to make this reform model successful.

## EDL-807: History and Politics of K-12 3 credits Education

This course provides a broad, global overview of the history and politics of K-12 education and examines the political landscape and ethics surrounding K-12 education. A brief overview of governmental interventions is also presented.

## EDL-812: Governance and Structures in K-12 3 credits Education

This course examines internal and external governance and structures in K-12 education. The course emphasizes analysis of the leadership practices necessary to guide construction of appropriate internal and external frameworks.

### EDL-817: Building a K-12 Community 3 credits

This course examines relations with K-12 education stakeholders, including boards, learners, parents, faculty, staff, and the community at large. Attention is given to creating and sustaining a diverse learning infrastructure through faculty and staff professional development, alumni relations, and the building of a learning community.

## EDL-822: Trends and Issues in K-12 3 credits Education

This course examines the current and emerging leadership strategies and classroom practices in K-12 education. Topics are placed in the context of improved student outcomes.

## EDL-827: Strategic Planning in K-12 3 credits Education

This course addresses the establishment of a shared mission, vision, and goals among both internal and external stakeholders as the foundation for long-range strategic planning in K-12 education. Professional and facilities development is addressed in the context of K-12 education master planning.

### EDL-861<sup>\(\Delta\)</sup>: Analysis of Educational Research 3 credits

This course is designed to train learners in the conduct of a systematic literature review related to their research topic or area of interest. Emphasis is placed on creating structure for reading, analyzing, synthesizing, and organizing prior research for educational purposes.

### EDL-910: EDS Capstone 3 credit

This capstone course provides learners the opportunity to apply skills related to their professional interests and goals. Learners demonstrate competency through the development of a written project suitable for inclusion in a professional portfolio.

### EDL-912: EDS K-12 Capstone 3 credits

This capstone course provides learners the opportunity to apply skills related to their leadership and professional interests and goals. Learners demonstrate competency through the development of a written project suitable for inclusion in a professional portfolio.

### Education (EDU)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **EDU-210:** Foundations of Education

This course is designed to provide an overview of the education profession for students who are inspired to be teachers. A brief survey of the philosophical, historical, and sociological influences upon which educational theories and practices are constructed is presented. Students explore a variety of the common issues, trends, and opportunities that professional educators face in the field. Fingerprint clearance not required.

4 credits

### EDU-225: Instructional Technology 4 credits

This course provides future teachers the opportunity to examine the use of technology in the 21st century classroom. In addition to studying and utilizing a variety of technologies, such as computer software and hardware, students develop a personal technology philosophy and classroom technology plan designed to enhance and shape their teaching skills and knowledge to better utilize emerging technology. Fingerprint clearance not required.

## EDU-315\*: Family and Community in a 3 credits Supportive Learning Environment

In this course, candidates will identify the value family relationships and the community environment contribute to the classroom environment. Emphasis is placed on building relationships with families, caregivers, and other stakeholders in order to influence children, build productive learning environments, and create a positive culture for schools. Focus is placed on creating an inviting atmosphere for families and caregivers, and an inclusion of community organizations and businesses to support this family connection. Candidates research ways to utilize community resources to empower families and include them in communication, learning, and collaborative opportunities that foster a healthy home and school connection. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-330<sup>△/•</sup>: Ethics and Advocacy in Education 4 credits

In this writing-intensive course, teacher candidates will explore multicultural education by engaging in research, communication, and ethical decision-making, focusing on developing educators' skills in creating equitable and inclusive learning environments. Through analysis of evidence and virtuous practice, the course will examine the critical role of educators as advocates for all students, empowering participants to address disparities and promote equitable opportunities for academic success. With a specific focus on the principles of multicultural education, teacher candidates will be encouraged to reflect on the influence of their own worldviews and perceptions. Emphasizing the concept of imago Dei, which sees every individual as made in the image of God, this course aims to foster culturally responsive classrooms that welcome diversity in all forms. Teacher candidates will explore strategies to effectively bridge the gaps between various diversities and academic achievement, to foster human flourishing within the educational sphere. The course blends content with practical application, highlighting the educator's role as an advocate for all students and promoting equitable academic opportunities.

## EDU- Ethics and Advocacy in Education 4 credits 330HN<sup>∆/♠</sup>:

In this writing intensive course, teacher candidates study how to teach a diverse population of students by examining the foundations and dimensions of social justice in education, social constructs, privilege, prejudice, and oppression with the goal of becoming culturally competent educators. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-354\*: Child Development: Prenatal to 4 credits Adolescence

In this course, candidates identify the developmental milestones of children, prenatal to adolescence. Students examine the progression of these milestones in all areas of development, including psychological, social, emotional, linguistic, cognitive, and physical. Additional focus is placed on typical and atypical child development, and analyzing the effects of environment, trauma, and family dynamics on the development progression. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-410: Preventing and Addressing 1 credits Bullying

This course will assist educators in identifying and recognizing strategies to proactively guide and prevent the possible harmful effects of bullying, including cyber bullying, verbal harassment, and physical harassment. The course is intended to increase awareness and the effects inside and outside the classroom.

## EDU-415: Social and Emotional Learning in 1 credits Education

This course will assist teacher candidates in identifying and recognizing strategies for developing social-emotional skills such as self-awareness, self-control, concern for others, and cooperating with others. The course is intended to increase awareness and the effects of social-emotional learning on academic learning. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-455: Christian Education: Philosophies 4 credits and Methods

This course is an introduction to the philosophy, theory, and practice of teaching in Christian schools. A basic analysis of educational philosophies within the framework of a Christian worldview is central to the course. Candidates construct a personal and guiding philosophy of Christian education incorporating biblical principles, and develop lesson plans using biblical integration and perspectives. Candidates may also have an opportunity to participate in observing and delivering instruction in an ACSI or CCSC approved K-12 education setting. This course provides required components as a part of the ACSI certification application process. Practicum/field experience hours: 10. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EDU-456: Christian Education: Philosophies 4 credits and Methods

This course is an introduction to the philosophy, theory, and practice of teaching in Christian schools. A basic analysis of educational philosophies within the framework of a Christian worldview is central to the course. Candidates construct a personal and guiding philosophy of Christian education incorporating biblical principles, and develop lesson plans using biblical integration and perspectives. Focus is placed on demonstrating respectful engagement with diverse students and families while teaching through a Christian worldview. Practicum/field experience hours: 20. Fingerprint clearance required.

### **EDU-518:** Introduction to Student Affairs 3 credits

Candidates survey the responsibilities and functions of the departments of student affairs in a higher education setting. This survey includes developing a broad understanding of how foundational knowledge of the theories of student affairs apply to the functioning of student affairs on a higher education campus. Focus is placed on the scope and delegation of the functions of student affairs, and the responsibilities of student affairs professionals. Practicum/field experience hours: None. Fingerprint clearance not required. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-522: Curriculum Design Theories 3 credits

Candidates will be introduced to current theories of learning and approaches to curriculum design. The emphasis will be on examining and identifying the concepts, principles, and models of curriculum design. Candidates will evaluate curriculum based on learning theories and approaches to curriculum.

## EDU-524: Culturally Responsive Curriculum 3 credits and Instruction

Candidates will examine frameworks, materials, and strategies for translating the principles of culturally responsive pedagogy into effective educational practice. The emphasis will be on developing curriculum considering culturally responsive pedagogy, family and community engagement, and global education. Practicum/field experience hours: 10. Seek out instructional specialists at the school or district level that have insight into what professional development is available and how the topics are chosen. K-12. Fingerprint clearance required.

## EDU- $525^{\Omega}$ : Foundations in Elementary 3 credits Education Graduate Studies

Teacher candidates prepare for the graduate learning experience at Grand Canyon University by developing and strengthening the skills necessary to succeed as graduate students in the College of Education. Teacher candidates survey the philosophical, historical, and sociological influences upon which educational theories and practices are constructed and explore a variety of the common issues, trends, and opportunities that professional educators face in the field. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-526: Family and Community Engagement

3 credits

In this course, candidates explore how issues related to family relationships and community environments influence classroom dynamics. Emphasis is placed on promoting an equal partnership between families and schools to make collaborative decisions that support student learning outcomes and school policies, practices, and programs. Candidates explore how to create a welcoming classroom and school atmosphere where families feel valued, connected to the school staff, and engaged in the education of their children. Candidates also investigate strategies for collaborating with community resources that can assist families and schools to foster a healthy home and school connection. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-527: Leadership in Curriculum 3 credits

Candidates will analyze the roles and responsibilities of being a curriculum leader in the K-12 classroom. Focus is placed on transitioning from a teacher to a leader within the school environment. Candidates will learn strategies for collaborating with education stakeholders to foster a productive and positive learning community. An emphasis is placed on being able to reflect on personal professional practices, including biases, to create relevant and ethical learning experiences for students, as well as colleagues. Practicum/field experience hours: 20. Fingerprint clearance required.

### EDU-528: Laws and Ethics in Student Affairs 3 credits

In this course, candidates examine laws applicable to higher education, including HIPAA, FERPA, Title IX, and ADA. Coursework focuses on the ethical application of laws and policies in the higher education setting as well as preparing to navigate ethical decision-making in a higher education student affairs setting. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-534: Effective Pedagogy for Higher 4 credits Education

This course covers adult learning theory and instructional practices that are research-based and proven effective in higher education. Technology, online learning, and effective instructional methods for online and traditional instruction are emphasized. Participants research learning models, personalized learning and andragogy and apply their knowledge to improve student engagement and achievement in higher education.

## EDU-537: Leadership and Instructional 3 credits Coaching

Candidates will apply coaching techniques in academic and professional settings. Emphasis is placed on improving professional practices, workplace culture, and effective communication. Candidates will focus on professional coaching and leadership skills. Practicum/field experience hours: 10. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EDU-538: Servant Leadership in Student Affairs

3 credits

In this course, candidates focus on servant leadership in the area of higher education student affairs, and examine how this connects to ethics, accountability, and being a responsible leader. Candidates will learn to lead with kindness, compassion and justice for the good of all stakeholders within the campus community. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-546: Curriculum Mapping

Candidates develop year-long units of study based on identified goals and professional standards. Curriculum mapping analysis skills will be developed to align program objectives systematically to achieve learning goals. Emphasis is placed on backwards design and inquiry-based learning. Practicum/field experience hours: 10. Fingerprint clearance required.

### **EDU-547:** Student Development 3 credits

This course examines theories of student development. Candidates will develop co-curricular programming to increase student engagement, enhance the physical and virtual community, and promote individual self-efficacy that meets the needs of students from diverse backgrounds. Candidates will apply student development theory to assist students in developing their worldview and personal potential while preparing for post-academic environments. Practicum/field experience hours: None. Fingerprint clearance not required.

## EDU-548: Curricular and Instructional 4 credits Methods in Higher Education

This course applies learning theories to classroom instructional methods and strategies. Effective communication, creating learning goals, developing student outcomes and assessments, and giving effective feedback are emphasized. Participants are asked to develop activities, assessments, and lesson plans that would be appropriate for a course taught at a community college or university. Prerequisite: EDU-534.

### **EDU-551:** Differentiated Instruction 3 credits

Candidates will use data to differentiate curriculum, instruction, and assessments to foster learning for all students. Focus will be on principles of learning, using technology to differentiate instruction, and developing an engaging classroom environment. Practicum/field experience hours: 10. Fingerprint clearance required.

## EDU-554: Methods of Instruction and 3 credits Assessment

Candidates will develop skills in aligning objectives, instruction, and assessments. Special attention is given to differentiating curriculum for diverse students and using assessment data to guide instruction. Candidates will collaborate with peers and colleagues to achieve instructional goals through action planning. Review of current trends in instruction and assessment are presented to guide instructional decisions with a special focus on the needs of diverse students. Practicum/field experience hours: 10. Fingerprint clearance required.

## EDU-556: Methods of Instruction and Assessment

3 credits

Candidates will refine skills in aligning objectives, instruction, assessments, and rubrics. Special attention is given to differentiating curriculum for diverse students and using assessment data to guide instruction. Candidates will collaborate with peers and colleagues to achieve instructional goals through action planning. A review of current trends in instruction and assessment, including the use of AI, is presented to guide the creation of curriculum and instructional decisions.

## EDU-557: Differentiated and Culturally 3 credits Responsive Instruction

Candidates will use data to differentiate curriculum, instruction, and assessments in ways that foster learning for all students, including using technology. Focus will be on developing an engaging classroom environment, creating opportunities for learners to demonstrate their learning in different ways, and managing the learning environment to actively and equitably engage learners. Candidates will examine frameworks, materials, technology, and strategies for translating the principles of culturally responsive pedagogy into effective educational practice. The emphasis will be on developing curriculum that is bias-free and considers culturally responsive pedagogy, family and community engagement, and global education. Practicum/field experience hours: 20. Fingerprint clearance required.

## EDU-558: Crisis Management and 3 credits Intervention

In this course, students will identify the legal, ethical, logistical, and psychological implications of student crises within the context of a Higher Educational setting. Candidates will learn proactive and reactive risk management resources and strategies to respond to student crises on campus and address the implications of student crisis specific to Student Affairs within the context of a Higher Educational landscape. Practicum/field experience hours: None. Fingerprint clearance not required.

### **EDU-559:** Curriculum Mapping 3 credits

Candidates analyze and revise units of study based on identified goals and professional standards. Curriculum mapping analysis skills will be developed to ensure program objectives are aligned systematically to achieve learning goals and standards. Emphasis is placed on backward design, inquiry-based learning, and developing diverse and differentiated curriculum. Candidates will design curriculum and instruction in synchronous and asynchronous digital learning environments.

#### EDU-567: Developing Student Leaders 3 credits

In this course, candidates will develop strategies to model and coach student leaders, equipping them to engage their peers in building and maintaining healthy campus community. Candidates learn to effectively select and train potential student leaders, and provide opportunities for student leaders to participate in leadership experiences within the higher education community. Practicum/field experience hours: None. Fingerprint clearance not required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### EDU-568: Operational Resource Management 3 credits

In this course, students will learn how to ethically identify and utilize university resources while maximizing effectiveness within Student Affairs. Students will gain a working knowledge of how to advocate for needed resources and track expenses. Practicum/field experience hours: None. Fingerprint clearance not required.

### EDU-578: Culture and Team Building 3 credits

In this course, candidates identify the importance of building effective teams stemming from a healthy organizational structure and emotionally intelligent culture in student affairs. Candidates initiate and participate in strategic team development for the benefit of student affairs, as well as the higher education community. Practicum/field experience hours: 26. Fingerprint clearance required. Fingerprint clearance required. Prerequisite: All previous coursework must be completed.

### EDU-584: Instructional Coaching 3 credits

Candidates will apply coaching techniques and tools in academic and professional settings. Emphasis is placed on improving professional practices, workplace culture, and effective collaboration and communication as well as modeling the ethical use and implementation of technology. Candidates will focus on advocating for continuous improvement in education. Practicum/field experience hours: 20. Fingerprint clearance required.

## EDU-585: Designing Effective Professional 3 credits Development 3 credits

Candidates survey effective professional development strategies and practices. Focus is placed on researching theories and models, including andragogy, that enhance knowledge and skill development for adult learners. Candidates develop professional learning activities and plans aligned with the identified needs that ensure participant growth and advancement in their profession while also considering the learners' time and space. Emphasis will be on identifying personal professional development opportunities.

## EDU-586: Developing and Implementing 3 credits Professional Development

This course surveys effective strategies and practices in professional development. Special focus is placed upon theories and models, including andragogy, that enhance knowledge and skill development for adult learners in educational settings. Candidates develop and implement professional learning activities aligned with the needs of learners, schools and systems that ensure learner growth and advance the profession by leading collaborative interactions. Fingerprint clearance not required.

### EDU-587: Community Development and Engagement on a University Campus

In this course candidates will deepen their understanding of the structure of the university system, providing leadership to ensure effective application of initiatives that enhance and maintain the campus community. Candidates will collaboratively establish and maintain an effective educational environment and evaluate the effects of professional decisions and actions on students, families, and other professionals in the learning community.

3 credits

Practicum/field experience hours: 26. Fingerprint clearance required. Prerequisite: EDU-578.

## EDU-588 $^{\Omega}$ : Curriculum and Instruction 3 credits Capstone

Candidates deliver, evaluate, and revise a professional development presentation, and incorporate peer interaction with feedback to assure timeliness and relevance. Candidates create a year-long professional development plan based on instructional needs identified by an organization. Practicum/field experience hours: 30. Fingerprint clearance required. Prerequisite: EDU-585 OR EDU-586.

## EDU-589: Curriculum and Instruction 3 credits Capstone

Candidates deliver, evaluate, and revise professional development based on student data. Emphasis is placed on the equitable use of digital learning tools and content to meet learner needs. Candidates evaluate and revise professional development plans based on the unmet needs of learners. Prerequisite: EDU-585

## EDU-595: Higher Education Student Affairs 3 credits Capstone

This is the culminating course in the Master of Arts in Higher Education Student Affairs. This course combines the information and skills presented in prior courses in the program. In a 48-hour on-campus practicum/field experience, candidates apply their knowledge and skills in a specific area or department within student affairs. Candidates have the opportunity to synthesize and practice what they have learned in the program. Emphasis is on critical thinking and problem-solving skills through leadership and collaboration. Practicum/field experience hours: 48. Fingerprint clearance required. Prerequisite: EDU-587.

## EDU-805: History and Politics of Higher 3 credits Education

This course provides a broad, global overview of the history and politics of higher education and examines the political landscape and ethics surrounding higher education. A brief overview of governmental interventions is also presented.

## EDU-812: Governance and Structures in 3 credits Higher Education

This course examines the internal and external governance and structures in higher education. The course emphasizes analysis of the leadership practices necessary to guide construction of appropriate internal and external frameworks.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## EDU-817: Building a Community of Scholars 3 credits in Higher Education

This course examines relations with higher education stakeholders, including boards, learners, parents, faculty, staff, and the community at large. Attention is given to creating and sustaining a diverse learning infrastructure through faculty and staff professional development, alumni relations, and the building of a scholarly community. Prerequisite: RES-861.

## EDU-822: Fiscal Management in Higher 3 credits Education

This course examines budgeting, fundraising, fiscal planning, and capital asset management in the higher education setting. Leadership skills for fiscal management and fiscal integrity are addressed.

## EDU-827: Strategic Planning in Higher 3 credits Education

This course addresses the establishment of a shared mission, vision, and goals among both internal and external stakeholders as the foundation for long-range strategic planning in higher education. Professional and facilities development is addressed in the context of higher education master planning.

### Elementary Education (EED)

### EED-480NA<sup>\Omega</sup>: Student Teaching: Elementary 6 credits Session A

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

## EED- Student Teaching: Elementary 6 credits $480NB^{\Delta\Omega}$ : Session B

Session A is one of two 8-week sessions of the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor.

### Electrical Engineering (EEE)

### EEE-202\*: Circuits

3 credits

This course provides students with a strong foundation in core areas of electrical engineering. Students will learn the main ideas of circuits and their enabling role in electrical engineering components, devices, and systems. The course offers in-depth coverage of AC & DC circuits, circuit analysis, filters, impedance, power transfer, applications of Laplace transforms, and op-amps. Prerequisites: MAT-262, PHY-121 and PHY-121L. Co-Requisite: PHY-122, PHY-122L, EEE-202L.

### EEE-202L\*: Circuits Lab

1 credits

The laboratory section of EEE-202 reinforces and expands learning of principles introduced in the lecture course. Hands-on activities focus problem solving using scientific computation tools, simulations, and various programming languages. Prerequisites: MAT-262, PHY-121 and PHY-121L. Co-Requisite: PHY-122, PHY-122L, EEE-202.

## EEE-212: Embedded Systems and Assembly 2 credits Language & Lab

This project-based course will cover the design and implementation of a microcontroller embedded system. Students will learn embedded system architecture, assembly language programming, interfacing to peripherals, interrupt handling, and debugging/troubleshooting techniques and tools. Prerequisite: ESG-111.

### EEE-213♦: Signals and Systems 3 credits

This course bridges theoretical mathematical foundations and practical implementation of circuits and computer algorithms. The course presents applications in engineering, physics, feedback and control, communications, and signal processing. Topics covered include: CT and DT signals and systems, linearity, time-invariant systems, causality, transient and steady state responses, Fourier transforms, Laplace transforms, Z transforms, sampling, state variables, and feedback systems. Prerequisites: MAT-364, EEE-202 and EEE-202L. Co-Requisite: MAT-345, EEE-213L.

### EEE-213L♦: Signals and Systems Lab 1 credits

The laboratory section of EEE-213 reinforces and expands learning of principles introduced in the lecture course. Hands-on activities focus problem solving using scientific computation tools, and various programming languages. In particular, students work on system simulation and real-time signal processing. Prerequisites: MAT-364, EEE-202 and EEE-202L. Co-Requisite: MAT-345, EEE-213.

### EEE-302<sup>+</sup>♦: Advanced Circuits & Lab 4 credits

This course focuses on the analysis and design of filters, circuits, converter modeling, and signal transfer functions. Additional topics covered include non-ideal active devices, and an introduction to digital circuits. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities engage students in projects such as the design, analysis, simulation, and construction of a switched-mode power supply; solve complex design problems, or the use of modern analog circuits. Prerequisites: MAT-364, EEE-202 and EEE-202L.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### EEE-302HN<sup>≠</sup>♦:Advanced Circuits & Lab

4 credits

This course focuses on the analysis and design of filters, circuits, converter modeling, and signal transfer functions. Additional topics covered include non-ideal active devices, Cauer design, and an introduction to digital circuits. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities engage students in projects such as the design, analysis, simulation, and construction of a switched-mode power supply; solve complex design problems, or the use of modern analog circuits. Prerequisites: MAT-364, EEE-202 and EEE-202L.

### EEE-315: Digital Circuits & Lab 4 credits

This class will cover the design and application of digital logic circuits, including combination and sequential logic. Students will analyze, design, verify, and test logic circuits as applied to solve engineering problems. The class will cover a range of mathematical objects, algorithms, number theory, and counting. Prerequisites: MAT-262 and EEE-212.

### EEE-320<sup>/♠</sup>: Electronics and Devices & Lab 4 credits

This course builds on knowledge acquired in previous courses on advanced circuits to expand the coverage of the design and analysis of integrated circuit amplifiers and the design and analysis of feedback amplifiers. Specific topics covered in this course may include: electronics and manufacturing of integrated circuits, microwave/RF amplifiers, linear amplifiers, mixers, and advanced digital and analog circuits. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities focus on the design, assembly, and testing electronic circuits that use diodes, transistors, and operational amplifiers. This is a writing intensive course. Prerequisite: EEE-302 or EEE-202.

## EEE-431<sup>\*\*</sup>: Communications Signal Processing 4 credits & Lab

This course develops the foundations of electrical communications and differences between analog and digital modulation. Main topics covered include: analog signal transmission and reception, effects of noise in analog communications, sampling, digital information sources, entropy, source coding, waveform coding, and PCM Digital transmission through AWGN through band-limited channels. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities include channel coding, wireless and mobile networks, and signal processing using Matlab. Prerequisites: EEE-213 and EEE-213L, EEE-302, and MAT-374 OR ESG-374 and ESG-384.

## EEE-431HN<sup>≠</sup>: Communications Signal Processing 4 credits & Lab

This course develops the foundations of electrical communications and differences between analog and digital modulation. Main topics covered include: analog signal transmission and reception, effects of noise in analog communications, sampling, digital information sources, entropy, source coding, waveform coding, and PCM Digital transmission through AWGN through band-limited channels. The laboratory reinforces and expands learning of principles introduced in the lecture course. Hands-on activities include channel coding, wireless and mobile networks, and signal processing using Matlab. Prerequisites: EEE-213 and EEE-213L, EEE-302, and MAT-374 OR ESG-374 and ESG-384.

## EEE-473: Electrical Design Principles I & 2 credits

This course introduces students to the principles of electrical engineering design. It provides a solid foundation in electrical engineering design. Students will learn to produce great electrical engineering designs taking into consideration requirements, standards and regulatory compliance. Design of electrical and electronic devices, circuits, and systems by the application of the engineering sciences, economics, and national and international standards. Hands-on activities focus on the design and integration of different subsystems. Topics include electrical engineering modeling, simulations, and integration. Prerequisite: EEE-302, ESG-395. Co-Requisite: ESG-451.

## EEE-474<sup>t</sup>: Electrical Design Principles II & 2 credits Lab

This project-based course will consolidate the student's knowledge of the electrical engineering design process from concept/idea to manufacturing. It provides sufficient depth of the design process to enable students to contribute in the solution of real-world engineering problems. Prerequisite: EEE-473. Co-Requisite: ESG-452.

### EEE-480<sup>6</sup>: Linear and Nonlinear Control 4 credits Systems Design & Lab

This course presents the fundamentals of analog and digital control systems. Analysis and design of linear control systems using physical system models. Analysis and control of nonlinear systems are introduced. Hands-on activities focus on the design, assembly and testing of electronic control systems. Prerequisites: EEE-213 and EEE-213L.

## Electrical Engineering Technology (EET)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### EET-202\*: Applied Circuits I

3 credits

This course introduces students to the fundamentals of electric circuits. Students will learn methods for analyzing DC networks under different loading conditions. Topics include Kirchoff's voltage and current laws, node analysis, mesh analysis, impedance, series and parallel load combinations, transient analysis, operational amplifiers (op-amps), and Simulation Program with Integrated Circuit Emphasis (SPICE) modeling. Students also develop skills in PCB fabrication and soldering. Prerequisites: PHY-111 and PHY-111L or PHY-121 and PHY-121L. Co-Requisite: EET-202L.

### EET-202L\*: Applied Circuits I Lab 1 credits

This laboratory-based course reinforces the analysis of DC networks by providing additional hands on experience in breadboarding, modeling, and measuring inputs and outputs for a given circuit. Prerequisites: PHY-111 and PHY-111L or PHY-121 and PHY-121L. Co-Requisite: EET-202.

### EET-302♦: Applied Circuits II & Lab 4 credits

This course builds on the topics of EET-202 and introduces more advanced circuit analysis concepts. Topics include complex impedance, AC steady-state response, resonance, passive and active filters, Bode plots, and magnetic circuits. Students practice circuit design and verification in MATLAB. Prerequisites: PHY-111 and PHY-111L or PHY-121 and PHY-121L.

### EET-320\*: Digital Electronics and Integrated 4 credits Circuits & Lab

This course teaches students about digital electronics and semiconductor-based devices. Topics include diodes, bipolar and field-effect transistors, logic gates, combinational and sequential logic, amplifier circuits, and microcontrollers. Prerequisite: EET-302.

### EET-325\*: Embedded Systems 4 credits

This course covers topics in electrical and mechanical instrumentation and data acquisition. Topics include gauges and transducers, calibration, signal noise and conditioning, computerized data acquisition (DAQ) systems, results documentation, and statistical analysis of data. Prerequisite: PHY-111, PHY-111L, PHY-112, PHY-112L, EET-202.

### EET-330\*: Communication Networks & Lab 4 credits

This course covers topics in communications and networking. Students will study methods for analyzing continuous and discrete signals, sampling, noise, and data transmission protocols. Lab activities may include wireless networking, modulating radio signals, and system modeling in MATLAB. Prerequisite: EET-302.

#### **EET-425**♦: Industrial Automation 2 credits

This course introduces students to topics in industrial automation such as the electrical systems that power and control modern robotics, the programming logic that directs their behavior, design and implementation challenges, automated metrology, safety protocols, and environmental considerations. Systems of focus may include electrical power generation, automotive manufacturing, and circuit board manufacturing and assembly, and silicon wafer handling. Prerequisite: ETG-415. Co-Requisite: ETG-410.

## EET-430\*: Electrical Troubleshooting and Maintenance & Lab

4 credits

This course teaches preventative maintenance and fault isolation. Students learn about common failure modes and ways to increase system reliability. Topics include safety, test equipment, troubleshooting methodology, interpreting schematics, power distribution, common control circuits, and motor maintenance. Prerequisite: EET-302.

### Instructional Design (EID)

## EID-500: Introduction to Instructional 3 credits Design

This course introduces the field of instructional design, its history, research-based structures, and practical strategies. Future instructional designers prepare to become professionals who use an empathetic process to determine learner needs and advocate for a systematic approach to determine and meet organizational needs. Students explore the instructional design life cycle through the ADDIE model to design learning experiences that demonstrate proper instructional alignment.

### EID-505: Multimedia for Learning 3 credits

This course provides hands-on work with multimedia tools, informed by multimedia learning principles. Through the process of developing various eLearning artifacts, students investigate industry standards and research emerging instructional design technologies. Additionally, ethical considerations for the use of artificial intelligence (AI) in instructional design and strategies for troubleshooting common technical issues are explored. Prerequisite: EID-500.

### **EID-510:** Systematic Design of Instruction 3 credits

This course covers the theoretical underpinnings of instructional design. Students explore several instructional design models, as well as strategies for managing instructional design and development projects. Students use various systematic processes to design learning solutions and present justifications for the design decisions they make. Current and emerging technologies are explored and applied as appropriate to instructional design solutions. Prerequisite: EID-505.

## EID-515: Learning Experience Design and 3 credits Development 3 credits

Designing effective instruction requires a focus on learner needs and outcomes. This course focuses on using an empathetic design process to prioritize and organize learning and organizational outcomes to create instructional strategies and sequences comprised of multiple mediums. Students practice leveraging the strengths of each medium to serve learner needs and scaffold desired outcomes. Technology Requirement: Students are responsible for providing their own Adobe Captivate software and a computer that meets the technical requirements to run the software. The version of Adobe Captivate should not be older than the 2019 release. Verify the University Technology Requirements and Programmatic Technology Requirements in the University Policy Handbook available on www.gcu.edu. Prerequisite: EID-500 & EID-505.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EID-520: Research and Evaluation for Systems and Experiences

3 credits

In this course, students develop skills in gathering, analyzing, and synthesizing a variety of evidence to lay the groundwork for evaluating the effectiveness of instructional solutions and learning experiences. Students plan the effective implementation of an instructional solution to enhance learner performance and achieve organizational goals. Prerequisites: TCH-539 and EID-505.

## EID-525: Organizational Performance and 3 credits Workplace Learning

Organizations face obstacles, such as disruptive innovation which threaten their ability to stay competitive in a rapidly evolving market place. This course explores the latest skills and strategies instructional designers can use to influence vision and strategy and assist in creating a learning organization that tracks soft and technical skills development for organizational impact and return on investment. Technology Requirement: Students are responsible for providing their own Adobe Captivate software and a computer that meets the technical requirements to run the software. The version of Adobe Captivate should not be older than the 2019 release. Verify the University Technology Requirements and Programmatic Technology Requirements in the University Policy Handbook available on www.gcu.edu. Prerequisite: EID-500.

### EID-590: Instructional Design Capstone 3 credits

This course is a culmination of all instructional design knowledge and skills students have developed throughout the instructional design program. Students are challenged to demonstrate their ability to be professional instructional designers. Students also develop a professional portfolio to show their preparation to work in the instructional design field. Prerequisites: EID-500, EID-505, EID-510, EID-515, EID-520, and EID-525.

### Elementary Education (ELM)

## ELM-200<sup>/•</sup>: Child and Early Adolescent 4 credits Development and Psychology

Teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to development of children and young adolescents allows teacher candidates to build foundational knowledge for constructing learning opportunities that support individual student's development, acquisition of knowledge, and motivation. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM200HN<sup>\*</sup> Child and Early Adolescent Development and Psychology

4 credits

4 credits

Teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to development of children and young adolescents allows teacher candidates to build foundational knowledge for constructing learning opportunities that support individual student's development, acquisition of knowledge, and motivation. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-201<sup>\*\*</sup>: Child and Early Adolescent 4 credits Development and Psychology

Teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas. Teacher candidates explore the implications of growth and development for designing and implementing appropriate and challenging learning experiences. This survey of the theories and research related to how children and young adolescents grow and learn allows teacher candidates to build foundational knowledge for constructing learning experiences that take into consideration students' developmental levels, prior experiences, interests, and culture. Upon completion of this course, teacher candidates will have reflected on personal values and biases and established professional learning goals that reflect codes of ethics, professional standards practices, and relevant laws and policies related to the field of education. Practicum/field experience hours: None. Fingerprint clearance not required.

### ELM-210: Instructional Planning and Assessments for Elementary Teacher Candidates

Teacher candidates build foundational knowledge on planning instruction and formal and informal assessment strategies.

Teacher candidates will examine instructional planning based on knowledge of students, learning theory, connection across the curriculum, curricular goals, and community. Formal and informal assessment strategies for planning, evaluating, and strengthening instruction for elementary students are also examined. Practicum/field experience hours: 5. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### ELM-211: Instructional Planning and Assessments for Elementary Teachers

4 credits

Teacher candidates build foundational knowledge on learning theories to identify and design culturally responsive lessons and a variety of assessments that effectively engage and assess diverse learners. Teacher candidates will apply the major concepts, principles, theories, and research related to the cognitive, linguistic, social, emotional, and physical development of children and young adolescents to design and modify instruction and a variety of assessments. Focus is placed on strategies that support learners in self-reflection, goal setting, and identifying quality work. Practicum/field experience hours: None. Fingerprint clearance not required.

### ELM-250<sup>Af</sup>: Creating and Managing Engaging 4 credits Learning Environments

In this writing intensive course, teacher candidates examine how to create environments that support individual and collaborative learning, and encourage students' positive social interaction, active engagement in learning, and self-motivation. Teacher candidates build foundational knowledge regarding the importance of establishing and maintaining positive collaborative relationships with families, school colleagues, and agencies in the larger community to promote the intellectual, social, emotional, physical growth, and well-being of children. Practicum/field experience hours: 5. Fingerprint clearance required.

## ELM- Creating and Managing Engaging 4 credits $250 HN^{\Delta f}$ : Learning Environments

In this writing intensive course, teacher candidates examine how to create environments that support individual and collaborative learning, encourage positive social interaction, active engagement in learning, and self-motivation. Teacher candidates build foundational knowledge regarding the importance of establishing and maintaining positive collaborative relationships with families, school colleagues, and agencies in the larger community to promote the intellectual, social, emotional, physical growth, and well-being of children. Practicum/field experience hours: 5. Fingerprint clearance required.

## ELM-251<sup>Af</sup>: Creating and Managing Equitable 4 credits and Engaging Learning Environments

In this writing intensive course, teacher candidates examine how to establish and maintain inclusive and collaborative learning environments that promote positive and safe relationships, active engagement, high expectations, and equity for all students. Teacher candidates focus on expanding students' ability to collaborate and communicate through multiple modes and forms of communication. Practicum/field experience hours: 20. Fingerprint clearance required.

## ELM-315: Foundational Literacy Skills: 4 credits Phonics and the Science of Reading

Teacher candidates examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Teacher candidates build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. The science surrounding reading instruction is explored and put into practice with this foundational knowledge. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-210 or ECS-125.

## ELM-316: Foundational Literacy Skills: 4 credits Phonics and the Science of Reading

Teacher candidates examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Teacher candidates build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. Collaboration with all stakeholders when designing literacy instruction to meet the needs of specific learners is examined. The science surrounding reading instruction is explored and put into practice with this foundational knowledge. Additionally, teacher candidates use a variety of data to reflect on teaching practices, inform instruction, and improve student learning. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ELM-211.

## ELM-351: Methods and Strategies for 4 credits Integrating Social Studies and the Arts

Teacher candidates will examine a variety of instructional strategies to encourage students to develop deep understanding of the major concepts and modes of inquiry from the integrated study of social studies and other related areas. Teacher candidates will build foundational knowledge on promoting elementary students' abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world. Teacher candidates will integrate the content, functions and achievements of the performing and visual arts as primary media for communication, inquiry and engagement among elementary students. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ELM-210.

## ELM-361: Instructional Methods and 4 credits Strategies for Integrating Science and Health

Teacher candidates will examine fundamental concepts of physical, life, earth and space sciences, and health education. Teacher candidates will build foundational knowledge on a variety of age-appropriate inquiry-based instructional strategies to teach science, to build student understanding of personal and social applications, to convey the nature of science, and student development for the practice of skills that contribute to good health. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ELM-210.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ELM-451: Three-Dimensional Teaching in 4 credits STEM Classrooms

In this course, teacher candidates will examine the fundamentals of three-dimensional teaching and learning and how to integrate these concepts into the planning and implementation of curricula that motivate students to innovate and nurture their creativity. Teacher candidates evaluate the elements of three-dimensional learning: practices, crosscutting concepts, and disciplinary core ideas. Focus is placed on creating instruction with appropriate scaffolding that encourages students to fully engage in STEM activities. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-455: Instructional Methods and 4 credits Strategies for Integrating Science and Health

Teacher candidates will build an evidence-based foundation for teaching science standards including research on the ways students learn science effectively through creating real-world connections that motivate students, promote cross-curricular skills and inquiry, and extend learning locally and globally. Teacher candidates will examine and implement inquiry-based instructional strategies for teaching science lessons about physical science, earth and space science, life science, and health that integrate the science standards and practices. Emphasis is placed on collaboration and digital literacy to promote learner development, achievement, and well-being. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ELM-211.

### ELM-457: Instructional Methods for STEM 4 credits

Teacher candidates will learn how to utilize instructional methods for science, technology, engineering, and math to actively engage students with challenges that are real-world and relevant. In this course, teacher candidates will explore how students learn by utilizing authentic problem-solving and participating in projects, with an emphasis on STEM education. Focus is placed on providing alternative ways for students to demonstrate learning along with feedback that builds students' growth mindset, including reflecting on their own learning using technology. Practicum/field experience hours: 20. Fingerprint clearance required.

## ELM-461: Instructional Methods for Science 4 credits and Engineering

Teacher candidates will learn how to utilize instructional methods for science and engineering to actively engage students with challenges that are real-world and relevant. In this course, teacher candidates will explore how students learn utilizing authentic problems and participating in projects, with an emphasis on STEM education. Practicum/field experience hours: 10. Fingerprint clearance required.

## ELM-462: Interdisciplinary Teaching and 4 credits Learning in STEM

Teacher candidates will explore the importance and methodologies for developing innovative science, technology, engineering, and mathematics (STEM) curricula that integrates all academic areas in a relevant and cohesive manner. In this course, teacher candidates will examine the various aspects of STEM that can be integrated across content areas and disciplines. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-463: STEM Tools in the Modern 4 credits Classroom

Teacher candidates, particularly those who intend to teach courses focused on science, technology, engineering, and mathematics (STEM), need to be equipped with technological skills in order to meet the demands and expectations of the changing educational environment. In this course, teacher candidates will research current and emerging technologies, examine their use in enhancing teaching and learning, and explore approaches to equip students with the necessary knowledge and skills to utilize them appropriately. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-464: Three Dimensional Teaching in 4 credits STEM Classrooms

In this course, teacher candidates will examine the fundamentals of three dimensional teaching and learning and how to integrate these concepts into the planning and implementation of curricula. Teacher candidates evaluate the elements of three-dimensional learning: practices, crosscutting concepts, and disciplinary core ideas. Practicum/field experience hours: 5. Fingerprint clearance required.

## ELM-465: Methods and Strategies for 4 credits Teaching Mathematics

Teacher candidates examine a variety of instructional strategies to encourage students to develop a conceptual understanding of the mathematics standards and procedures that define elementary and middle school mathematics including: number sense, place value, basic operations, fractions and decimals, algebra concepts, measurement, and proportions. From this foundational knowledge, candidates select, adapt, and implement research-based methods, instructional strategies, and interventions to purposefully engage learners in using creative and critical-thinking skills and to ensure all students have an equitable learning experience in mathematics. Teacher candidates explore collaboration to promote a mathematical mindset that establishes a positive and supportive learning environment and nurtures learner growth and development. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-211.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ELM-466: Project-Based Learning and Design 4 credits Thinking in STEM Education 4

Teacher candidates will explore project-based learning and design thinking within a STEM classroom. Focus will be placed on managing a project-based learning environment, facilitating student-led instruction, and fostering a classroom culture where students take ownership of their learning goals and outcomes in both independent and group settings. In this course, teacher candidates will develop cross-disciplinary, developmentally appropriate STEM instruction that promotes inquiry using technology. Additionally, advocacy for equitable access to education technology, digital content, and learning opportunities will be addressed. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-470: Methods and Strategies for 4 credits Teaching Mathematics

Teacher candidates examine a variety of instructional strategies to encourage students to develop a deep understanding of the major concepts and procedures that define number and operations, algebra, geometry, measurement and data, and probability. From this foundational knowledge, candidates select, adapt and use research-based methods, instructional strategies, and interventions to advance the mathematical abilities of students and have them apply their knowledge and abilities in meaningful ways. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ELM-210.

## ELM-475: Methods and Strategies for 4 credits Teaching English Language Arts

Teacher candidates will build foundational knowledge on how to use concepts from reading, language, and child development to teach and assess reading, writing, speaking, viewing, listening, and thinking skills using differentiated and standards-based instruction. From this foundational knowledge, teacher candidates will create opportunities for students to practice academic language and literacy across subject areas. Teacher candidates select, adapt, and implement research-based methods, instructional strategies, culturally responsive teaching, and inclusive practices to individualize meaningful and challenging learning for students, with an emphasis on literacy. Emphasis is placed on using a variety of data to monitor learner needs, reflect on student learning, and guide future instruction. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: ELM-316.

## ELM-480<sup>4</sup>: Methods and Strategies for 4 credits Teaching English Language Arts

Teacher candidates will build foundational knowledge on how to use concepts from reading, language, and child development to teach reading, writing, speaking, viewing, listening, and thinking skills. Teacher candidates select, adapt and use research-based methods, instructional strategies, and interventions to individualize meaningful and challenging learning for students, with an emphasis on literacy. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisites: ELM-210 and (ELM-305 or ELM-315).

## ELM-485: Methods and Strategies for 4 credits Integrating Social Studies and the Arts

Teacher candidates will examine a variety of instructional strategies to encourage students to independently and collaboratively develop a deep understanding of the major concepts and modes of inquiry from the study of social studies. Teacher candidates will build foundational knowledge on promoting elementary students' abilities to critically analyze and make informed decisions that consider multiple perspectives as citizens of a culturally diverse local and global society. Teacher candidates will integrate the performing and visual arts as primary media for communication, creativity, and engagement among elementary students. Additionally, advocacy for students, families, schools, and the community to strengthen the learning environment, promote student success, and demonstrate leadership is explored. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: ELM-211.

## ELM-490 $^{\Omega}$ : Student Teaching for Elementary 8 credits Education Teacher Candidates

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Performance of Evaluation (STEP). Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required. Prerequisites: Successful completion of all courses in POS and content area; a 2.8 GPA; successful completion of NES or your state's mandated content area exams; and approval and placement by the College of Education Office of Clinical Practice. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching.

## ELM-490A: Student Teaching for Elementary 6 credits Education: Session A

Session A is the first of two 8-week sessions of the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### ELM-500: Child and Early Adolescent Development and Psychology

3 credits

Teacher candidates survey how children and early adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas while understanding the implications for designing and implementing developmentally appropriate and challenging learning experiences. This survey of the seminal concepts, principles, theories, and research related to development of children and young adolescents will allow teacher candidates to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge, and motivation. Practicum/field experience hours: None. Fingerprint clearance not required.

## ELM-515: Creating and Managing Equitable 3 credits and Engaging Learning Environments

Teacher candidates examine how to create and manage safe environments that encourage and support individual and collaborative learning, positive social interaction, active engagement in learning, self-motivation, and high expectations for all learners. Teacher candidates build foundational knowledge regarding the importance of establishing and maintaining equitable and positive collaborative relationships with families, school colleagues, and agencies in the larger community to advocate for and promote the intellectual, social, emotional, physical growth, and well-being of children. Practicum/field experience hours: 15. Fingerprint clearance required.

## ELM-526: Literacy Intervention and 3 credits Remediation

Teacher candidates develop strategies for literacy intervention and remediation to foster and support student autonomy in the classroom. Teacher candidates build knowledge and skills to plan literacy supports in all content areas, promote self-directed learning, and empower students to take control and set goals for their own learning outcomes. Teacher candidates design and plan a learning environment that allows active participation from students in their own learning, collaborative goal setting with students and other stakeholders, self-assessment of progress, reflective thinking, questioning with intention, and purposeful feedback. Practicum/field experience hours: 8. Fingerprint clearance required. Prerequisite: ELM-545.

### ELM-540: Foundational Literacy Skills 3 credits

Teacher candidates examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Teacher candidates build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisite: ELM-530 or ECS-501 or ELM-555.

### ELM-545: Phonics and the Science of Reading 3 credits

Teacher candidates examine how to teach foundational skills to develop proficient readers with the capacity to comprehend texts across a range of texts and disciplines. Teacher candidates build additional knowledge regarding print concepts, phonological awareness, phonics and word recognition, and fluency to promote early literacy and independent readers. With this foundational knowledge, the science surrounding reading instruction is explored and put into practice. Practicum/field experience hours: 8. Fingerprint clearance required. Prerequisite: ECS-501 or ELM-555 or approved enrollment in the Graduate Certificate of Completion Canyon L.E.A.P. to Teach, Elementary Education.

## ELM-550: Methods & Strategies of Teaching & Integrating Social Studies & the Arts

Teacher candidates examine a variety of instructional strategies to encourage learners to develop deep understanding of the major concepts and modes of inquiry from the integrated study of history, geography, the social sciences, and other related areas. Teacher candidates build foundational knowledge on promoting elementary students abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world. Teacher candidates integrate the content, functions, and achievements of the performing and visual arts as primary media for communication, inquiry, and engagement among elementary students. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ELM-555.

## ELM-555: Instructional Planning and Assessment for Elementary Teacher Candidates

Teacher candidates examine how instructional planning supports every student in meeting rigorous learning goals by drawing upon knowledge of content areas, curriculum, cross-disciplinary skills, and pedagogy, as well as knowledge of students and the community context. Teacher candidates analyze and integrate multiple methods of assessment that support student engagement, monitor student progress, and guide decision-making.

Assessment and instruction will support foundational knowledge regarding the importance of planning instruction based on knowledge of students, learning theory, connection across the curriculum, curricular goals, and community, with focused attention on formative and summative assessments.

Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: ELM-500.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ELM-560: Methods and Strategies of Teaching 3 credits Mathematics

Teacher candidates examine a variety of instructional strategies to encourage learners to develop conceptual understanding of the major concepts and procedures that define counting and cardinality, number and operations in base 10, fractions, algebra, geometry, measurement, ratios and proportional relationships, and probability and to build skills to apply mathematics in meaningful ways. Teacher candidates build foundational knowledge on engaging problem solving, mathematical modeling and discourse, and opportunities to identify patterns and structures that repeat to help students successfully apply their developing skills to different situations, content, and ideas. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ELM-555.

## ELM-570: Methods and Strategies of Teaching 3 credits and Integrating Science and Health

Teacher candidates examine fundamental concepts of physical, life, earth/space sciences, and health education. Teacher candidates build foundational knowledge on a variety of age-appropriate inquiry-based instructional strategies to teach science, to build student understanding of personal and social applications, to convey the nature of science, and student development for the practice of skills that contribute to good health. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ELM-555.

### ELM-580: Methods and Strategies of Teaching 3 credits English Language Arts

Teacher candidates examine a variety of instructional strategies to encourage learners to develop deep understanding of reading, writing, oral language, and their connections to build skills and apply knowledge in meaningful ways. Teacher candidates build foundational knowledge on how to use the concepts from reading, language, and child development to teach reading, writing, speaking, viewing, listening, and thinking skills, and to help students successfully apply their developing skills to many different situations, content, and ideas. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ELM-555.

## ELM-590 $^{\Omega}$ : Student Teaching for Elementary 8 credits Teacher Candidates

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

## ELM-593A: Student Teaching for Elementary 6 credits Teacher Candidates: Session A

Session A is one of two 8-week sessions of the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

### Emergency Management (EMM)

## EMM-301: Introduction to Homeland Security 4 credits and Emergency Management

This course provides an overview of the Department of Homeland Security and the national preparedness goal, including its mission areas and core capabilities. Students learn the key principles, participants, functions, structures, and challenges within the discipline with a focus on a systematic, community-based, all-hazard approach to emergency management. This course also includes concepts related to accreditation of emergency management programs and professional associations, credentials, and certifications.

### EMM-306 $^{\triangle}$ : Protection and Security 4 credits

This writing-intensive course focuses on the mission area of protection, with an emphasis on the capabilities necessary to protect the country from acts of terrorism and manmade and natural disasters. Students integrate knowledge of risk and vulnerability assessment and operational structures, resources, and processes to develop comprehensive measures to secure the nation and its interests against varied threats. Prerequisite: EMM-301.

### EMM-311: Hazard Mitigation Planning 4 credits

This course examines the processes and principles of mitigation planning for emergency management. Students examine the benefits of mitigation and the development and implementation of appropriate mitigation measures to reduce the impact of disasters on people and the environment. Prerequisite: EMM-301.

### EMM-400: Terrorism Prevention 4 credits

This course explores the dimensions of domestic and international terrorism and focuses on the core capabilities necessary for preventing terrorist acts. Students examine the role of intelligence and information sharing, security measures, and methods of disruption used for impeding and/or responding terrorism. Prerequisite: EMM-301.

## EMM-412: Emergency Response Operations 4 credits and Techniques

The knowledge and practice gained in this course provide the emergency manager with management and supervision skills and techniques critical to success in the emergency services environment. Focus is on practices necessary for saving lives, protecting the built and natural environment, and providing for the populace following a disaster. Prerequisite: EMM-301.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### EMM-450: Disaster Recovery

4 credits

This course addresses disaster recovery and the core capabilities required to promote comprehensive recovery within communities impacted by disaster. Students examine issues related to restoring infrastructure, businesses and the economy, and human and environmental health. Prerequisite: EMM-301.

### EMM-485 $^{\Delta\Omega}$ : Emergency Management Capstone 4 credits

In this writing-intensive course, students demonstrate competence in emergency management through the development of an individual project. Students select an aspect of emergency management and complete a continuity of operations plan (COOP) using critical thinking to demonstrate knowledge of core capabilities and account for the complexities of dealing with emergencies and disasters. Prerequisites: EMM-306, EMM-311, EMM-400, EMM-412, EMM-450, and MGT-440.

## EMM-600: Emergency Planning and 4 credits Management

This course is designed to teach students the planning and management processes and the issues involved in large-scale emergencies. The nature of natural and technological risk and emergency are explored via case studies. Public sector roles in contingency planning and response are also discussed and assessed.

#### EMM-605: Economics and Human Issues 4 credits

This course provides an overview of the strategic, political, economic, and human issues encountered in the management of disasters or major traumatic public events. This knowledge gives the emergency manager a realistic view of the issues to expect in a disaster, how to plan accordingly, and how to manage resources and people more effectively in emergency situations.

### EMM-610: Law and Legal Issues 4 credits

This course analyzes the federal, state, and local legislation related to emergency management in various types of disasters. Guaranteed rights under the U.S. Constitution and the legal and ethical application of measures within the parameters of these rights in emergency situations are also discussed.

### EMM-641: Understanding Terrorism's Threat 4 credits

This course explores modern terrorism and terrorist behavior, including cyberterrorism, the role of the media, the private sector, and implications in a global society.

## EMM-685: Leadership in Emergency 4 credits Management Capstone

This capstone course provides students the opportunity to synthesize their advanced knowledge and experiences in the field of emergency management through the development of a research or applied project focused on improving practice. Projects require students to demonstrate the critical thinking skills, professional acumen, and knowledge base that characterize successful leadership in the field. Prerequisites: EMM-600, EMM-605, and EMM-610.

### ENG-001: WritingArch

0 credits

WritingArch is a remote learning opportunity for incoming Grand Canyon University students to move ahead by practicing and preparing for the placement exam. This course gives students the opportunity to work with GCU English faculty for 4 weeks in an online environment to refresh their previous writing and grammar knowledge as well as meet fellow incoming GCU students. This is a great way to move on to ENG-105 in a stress-free environment!.

### ENG-009: Writing Profiency Alias

0 credits

No description supplied.

### ENG-105<sup>△</sup>•: English Composition I

4 credits

This is a writing-intensive course in writing academic prose, including various types of essays, arguments, and constructions.

### ENG-106<sup>△</sup>•: English Composition II 4 credits

This writing-intensive course explores various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. Prerequisite: ENG-105.

## ENG-107\*: Introduction to Writing for the Sciences 4 credits

This course is an introduction to technical and scientific writing in fields such as engineering, biology, computer science, and other STEM disciplines, and provides students with a background in logic and communication. In accordance with the Council of Writing Program Administrators Outcomes Statement and the Elon Statement on Learning Transfer, this course provides practice with a variety of scientific genres of communication, including their expected writing styles and structures. This course supports students in the ability to transfer knowledge of writing across technical and scientific disciplines and adapt to new and different writing tasks throughout their careers in the sciences.

## ENG-130\*: Introduction to Young Adult 4 credits Literature 4

This course delves into critical approaches to literature that are of interest to young adult readers. Themes such as identity, culture, ethnicity, race, values, gender, and censorship are among those explored through close readings and textual analysis of popular and historical fiction, nonfiction, graphic novels, and dystopian literature.

### ENG-135 $^{\triangle \Phi}$ : Lifelong Learning Assessment 4 credits

This writing intensive course enables qualifying adult learners to translate their real-life learning experiences into credits that can be applied toward general education and elective course requirements. Students who pass this course earn four credits and can earn up to eight additional credits by writing full-length Lifelong Learning Assessment (LLA) papers that are assessed by LLA evaluators.

### English (ENG)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ENG- The Power of Media: Social and 4 credits 206HN<sup>Δ/\*</sup>: Critical Approaches

This writing intensive honors course continues the themes of knowledge, argument, and logic from previous honors courses. Students cover effective communication and making sound arguments based on logic and research. Parallel events from history are used as a vehicle to show how communication affects society. Prerequisite: Acceptance into the honors program.

## ENG-240<sup>A/•</sup>: Writing for the 21st Century 4 credits Workplace

This writing intensive introductory course provides students with experience in typical workplace genres and written communication practices. Emphasizing the roles genres play in organizational communication, this course also provides students with practical, procedural knowledge that will help them adapt their writing to new contexts and audiences. Prerequisite: ENG-105.

## ENG- Writing for the 21st Century 4 credits 240HN $^{\Delta/\Phi}$ : Workplace

This writing intensive introductory course provides students with experience in typical workplace genres and written communication practices. Emphasizing the roles genres play in organizational communication, this course also provides students with practical, procedural knowledge that will help them adapt their writing to new contexts and audiences. Prerequisite: ENG-105.

## ENG-245<sup>△♦</sup>: Introduction to Basic Grant 4 credits Writing

This course examines the processes, purposes, and practicalities of grant writing with an emphasis on communication between funding sources and grant seekers. Students learn about funding sponsors and their concerns, the parts of grant proposals, and techniques for successful grant research and writing. The course culminates in the students' completion of a grant proposal.

### ENG-250<sup>♦</sup>: Analysis of World Literature 4 credits

This writing intensive course is a study of some diverse works in world literature. It introduces all advanced English course offerings. Students will also be introduced to methods of literary criticism and analysis. All students who plan to major in English should earn a 3.00 or above in this course before taking any upper division English courses. Prerequisites: ENG-105 and ENG-106.

### ENG-355<sup>\*</sup> • Multicultural Literature 4 credits

This course explores multicultural texts from a variety of genres. Students in this course focus on awareness of diversity in culture and in written expressions by analyzing textual features and cultural/historical context. Prerequisite: ENG-105.

## ENG- Multicultural Literature 4 credits 355HN<sup>i</sup>:

This course explores multicultural texts from a variety of genres. Students in this course focus on awareness of diversity in culture and in written expressions by analyzing textual features and cultural/historical context. Prerequisite: ENG-105.

### ENG-357\*: Foundational Texts of British Literature

This course interprets and analyzes important texts of the British tradition from approximately A.D. 500 to 1800. Special attention is paid to the importance of cultural context, close textual analysis, and literary terms and concepts, especially concepts of poetic meter and rhyme. Prerequisite: ENG-105.

4 credits

### ENG-359\*: Transatlantic Literature 4 credits

This course explores the literatures and cultural exchange of America and Britain from the Romantic Era to the present day. Students develop an understanding of themes, genres, and literary techniques that inform present-day literary and communicative strategies. Prerequisite: ENG-105.

### **ENG-360**♦: American Encounter Narratives 4 credits

This course explores the earliest American literatures to American Romanticism with an emphasis on narratives of cultural encounter. Students examine representative poetry and prose with attention to themes, rhetoric, and narrative form. Prerequisite: ENG-105.

## ENG-361\*: The Art and Craft of Creative 4 credits Writing

In this course, students explore creative writing through an examination of craft and strategies, readings and discussion, writing across the major genres (poetry, fiction, and creative nonfiction), and the editorial process, which includes critiquing and revision. In addition, students consider the application of creative writing techniques to arenas in the professional writing world. Prerequisite: ENG-105.

### ENG-365<sup>†</sup>: Multi-Media Journalism in the 21st 4 credits Century

In this course, students learn to identify news, develop story ideas, conduct research on stories, write in a journalistic style, and report information in a variety of media. Prerequisite: PRW-301 or ENG-105.

### ENG-381\*: Writing for Advertising and PR 4 credits

This course exposes students to the various types of writing tasks utilized by PR and advertising professionals. In addition to enabling students to write with clarity and skill for various media and contexts, this course encourages students to use strategy, creativity, and critical thinking in composing advertising and public relations material. Prerequisite: ENG-105.

### **ENG-424<sup>△</sup>•**: Literary Movement 4 credits

This writing-intensive course surveys the major works and figures of a literary movement, including examining that movement's historical and cultural contexts.

### ENG-425<sup>♦</sup>: Major Author 4 credits

This course focuses upon the study of the works of a major author, with emphasis on the author's seminal works and with suitable reference to the author's biography and other works of merit.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### ENG-450<sup>≠</sup> • Shakespeare

4 credits

This course is a study of Shakespeare's major plays and his development as a dramatist, including some consideration of Shakespeare's cross-cultural reception.

## ENG- Shakespeare 4 credits 450HN<sup>\*•</sup>:

This course is a study of Shakespeare's major plays and his development as a dramatist, including some consideration of Shakespeare's cross-cultural reception.

## ENG-451<sup>\*\*</sup>: Shakespeare and the History of 4 credits Drama

This course explores the history of the dramatic medium through the lens of plays from Ancient Greece to 20th-century Europe, concentrating primarily on the plays and cultural context of William Shakespeare. Prerequisite: ENG-105.

## ENG- Shakespeare and the History of 4 credits 451HN<sup>i</sup>: Drama

This course explores the history of the dramatic medium through the lens of plays from Ancient Greece to 20th-century Europe, concentrating primarily on the plays and cultural context of William Shakespeare. Prerequisite: ENG-105.

## ENG-456<sup>△/•</sup>: Communicating Scientific Ideas to 4 credits Popular Audiences

This writing intensive course prepares students to interpret scientific ideas for lay audiences. Drawing from best practices of writers from popular sources such as magazines, news articles, blogs, and other forms of popular writing designed for wide consumption, students learn to convey scientific ideas through various genres for various purposes and audiences. Prerequisite: ENG-105.

## ENG- Communicating Scientific Ideas to 4 credits 456HN<sup>A/\*</sup>: Popular Audiences 4 credits

This writing intensive course prepares students to interpret scientific ideas for lay audiences. Drawing from best practices of writers from popular sources such as magazines, news articles, blogs, and other forms of popular writing designed for wide consumption, students learn to convey scientific ideas through various genres for various purposes and audiences. Prerequisite: ENG-105.

### ENG-460<sup>\*</sup> • The Novel 4 credits

This writing intensive course is a study in the development of the novel focusing primarily on the reading and discussion of 19th and 20th century British and American works. Prerequisites: ENG-105 and ENG-106.

## ENG- The Novel 4 credits 460HN<sup>f</sup>♦:

This course is a study in the development of the novel focusing primarily on the reading and discussion of 19th and 20th century British and American works. Prerequisites: ENG-105 and ENG-106.

### ENG-466 $^{\triangle \Phi}$ : Technical Writing

4 credits

4 credits

This writing-intensive course provides an overview of technical writing and focuses on the production of informative practical texts such as instructions, manuals, and process descriptions. Prerequisite: ENG-105.

### ENG-470: Methods for Teaching Writing, Grammar & Linguistics for Secondary Education

This course is designed to help prospective teachers develop the knowledge and skills needed to teach writing, grammar, and linguistics at the middle and secondary levels. Emphasis is given to teaching methodologies that encourage effective implementation of writing, grammar, and linguistics instruction in middle and secondary English classrooms. Course content is strategically planned to enable students to make informed, context-based decisions about writing and language instruction. Practicum/field experience hours: 15. Fingerprint clearance required.

## ENG-472: Methods for Teaching Literature 4 credits for Secondary Education

This course is designed to help prospective teachers develop the knowledge and skills needed to teach literature and other texts at the middle and secondary levels. Emphasis is given to teaching methodologies that encourage effective implementation of reading instruction in middle and secondary English classrooms. Course content is strategically planned to enable students to make informed, context-based decisions about instruction of literature and other texts. Practicum/field experience hours: 15. Fingerprint clearance required.

#### ENG-477 $^{\Omega}$ : Professional Writing Capstone 4 credits

This course critically surveys the broad competencies and understandings covered in the major, critically analyzes ethical issues in the writing professions, considers intersections between worldviews (particularly Christian worldviews) and the rhetorical and communications professions, and facilitates the creation of student portfolios of material and résumés/curriculum vitae. This capstone course needs to be completed at the end of program. Prerequisites: PRW-381, ENG-365, and PRW-466.

## ENG-503: Writing Theory: An Applied 4 credits Approach to Rhetoric and Composition

This course provides historical, theoretical, and practical knowledge in rhetoric and writing. By studying classical and modern theories of rhetoric, contemporary theories of writing, and relationships between the two, students develop an understanding of key ways to think about writing today. To that end, this course emphasizes praxis: the relationship between practical and theoretical ways of knowing in the discipline. This course also offers an opportunity to practice rhetorical analysis, which is an important skill that will help students become effective, dynamic writers in their professions of choice.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ENG-505: Critical Practices for Teaching 4 credits Literature

This course focuses on techniques and theoretical approaches foundational to teaching literary texts. Techniques include close reading, passage analysis, and mastering critical nomenclature. Critical theories pertinent to contemporary scholarship are explored.

## ENG-506: Social and Technological Contexts 4 credits of Writing

This course covers theoretical and practical scholarship about the social and technological dimensions of writing practices. At its core, this course explores writing as a situated social and technological act. To that end, students explore important theories of writing and technology that have impacted the discipline. This course demonstrates the relationship between theory and practice by considering how disparate peoples may think about the strategies and agendas embodied in various technologies and the artifacts that they produce. Electronic media are considered, as well as the artifacts individuals and organizations produce with them, such as Internet memes and viral videos. Students apply theories discussed in this course to analyze the sociotechnological contexts that give rise to artifacts from their professions.

### ENG-507: Grant Writing 4 credits

This course examines the process, purpose, and practicalities of grant writing with emphasis on the electronic nature of current communication between funding foundations and grant seekers. Students will learn about funders and their concerns, the parts of grant proposals, and techniques for successful grant research and writing. The course will culminate in the student's completion of a grant proposal.

## ENG-508: Multimedia Writing: Creating a 4 credits Campaign for Social Media 4

This course introduces learners to writing in various electronic modalities, with the aim of creating a campaign for social media. Informed by current theories of rhetoric and technology, learners create an original social media campaign and design appropriate supporting artifacts, including tweets, status updates, or other language for sharing via social media; supporting video and audio content; infographics; Web pages; and pictures, logos, or other supporting graphics.

## ENG-509: Applied Theories of Rhetoric and 4 credits Organizational Communication

This course investigates organizational communication practices and how they are informed by contemporary rhetorical theories of ethics, identity, and work. Learners analyze the roles of ethics, constructions of power, difference, and persuasion both within and across organizations, as well as in communication practices that address the ways in which organizations present themselves to the public.

### ENG-510: Literature Pedagogy 4 credits

This course covers advanced approaches to analyzing and teaching literature and provides learners with additional tools for reading and writing about literature using a master text.

## ENG-580: Graduate Seminar in English 4 credits Education

This culminating course provides learners with an opportunity to revise, gather, and synthesize their graduate work into a professional portfolio and showcase their research and writing skills in a thesis.

### Entrepreneurship (ENT)

## ENT-320\*: Public Relations and Networking 4 credits Skills

This course is designed to build effective communication and networking skills so that students can leverage contacts and relationships to create business opportunities. The importance of building a professional and trustworthy business reputation is also addressed. Prerequisite: ENT-436 or ESG-210.

### ENT-420\*: New Venture Financing 4 credit

This course examines the growth of the venture capital market and provides students with an understanding of the advantages and risks associated with venture capital financing. Both start-up and growth needs are explored. The course focuses on the more practical aspects of structuring transactions that add value for the firm, owners, and financial backers. Prerequisite: ENT-446.

### ENT-435<sup>t</sup>: Intrapreneurship and Innovation 4 credit

This course examines the importance of creating innovative work environments in small-, medium-, and large-scale organizations in order to ensure the long-term competitiveness of the firm. Innovation is explored from the perspectives of product development, internal process improvements, and strategic shifts. Students have the opportunity to participate in an experiential innovation project. Also AMP-435.

### ENT-435HN<sup>\*</sup>: Intrapreneurship and Innovation 4 credits

This course examines the importance of creating innovative work environments in small-, medium-, and large-scale organizations in order to ensure the long-term competitiveness of the firm. Innovation is explored from the perspectives of product development, internal process improvements, and strategic shifts. Students have the opportunity to participate in an experiential innovation project. Also AMP-435.

### ENT-436 $^{\Delta f}$ : Entrepreneurship and Innovation 4 credits

This writing-intensive course teaches students to develop innovative solutions to real-world problems, developing and testing hypotheses as they learn to create a new product or service.

### ENT-436HN<sup>Δ</sup>: Entrepreneurship and Innovation 4 credits

This writing-intensive course teaches students to develop innovative solutions to real-world problems, developing and testing hypotheses as they learn to create a new product or service.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **ENT-446:** Business Execution

4 credits

In this course, students test hypotheses or develop new hypotheses, cycling through a series of tests to develop a scalable business model, culminating in the development of a pitch for potential investors. Prerequisite: ENT-436 or STG-110 or ESG-210

#### ENT-495: Research for Angel Investors 1 credits

Students will engage on a weekly basis with Entrepreneurs building scalable companies that are in the early stage of a capital raise. These are companies from across the country that have some technological component to their service or product and are presenting to the Angel Investor community to raise between \$250k and \$5 million. Students will investigate these companies side by side with our Investor members and learn how investment decisions are made. Student leadership in the research of each company is a critical insight to our members.

### ENT-496A: Entrepreneurial Studies Capstone 1 credits Project I

This course serves as the capstone experience in entrepreneurial studies which includes the gradual development of a strategic business model canvas to further evaluate business opportunities. Business students will begin their collaboration with engineering and technology students to establish market viability and explore product market fit. Prerequisite: ENT-436 or ESG-210.

## ENT-496B: Entrepreneurial Studies Capstone 1 credits Project II

This course serves as the capstone experience in entrepreneurial studies which includes the gradual development of a strategic business model canvas to further evaluate business opportunities. Business students will complete their collaboration with engineering and technology students to establish market viability and explore product market fit. Prerequisites: ENT-496A, and ENT-436 or ESG-210.

### Environmental Science (ENV)

## ENV-220<sup>f</sup>: Essentials of Environmental 4 credits Science

This course is an exploration into the science that directly affects us all on a daily basis, and that will likely increase in its significance to us with time. Students will gain an awareness of the importance of Earth's systems in sustaining our daily lives, plus the scientific foundation and tools needed to apply critical thought to contemporary environmental issues.

## ENV-300<sup>/♠</sup>: Environmental and Human Health 4 credits Risk Assessment

This course introduces students to the concepts, data sources, and methodologies used in the field of human risk assessment, including environmental hazard identification, dose-response assessment, exposure assessment, risk characterization, and risk communication. Prerequisite: ENV-220 or BIO-220.

## ENV- Environmental and Human Health 4 credits 300HN<sup>/+</sup>: Risk Assessment

This course introduces students to the concepts, data sources, and methodologies used in the field of human risk assessment, including environmental hazard identification, dose-response assessment, exposure assessment, risk characterization, and risk communication. Prerequisite: ENV-220 or BIO-220.

### ENV-301\*: Environmental Law 4 credit

This course will introduce students to the fundamentals of environmental protection laws in the United States, including environmental law in the areas of case law, common law and administrative law. Topics include air and water quality, toxic and hazardous substances, endangered species and wetlands, and coastal management issues. Prerequisite: ENV-300.

### ENV-303<sup>♦</sup>: Environmental Geology 4 credits

A study of the interaction between people and the geologic environment. Emphasis will be placed on catastrophic geologic processes, earth resources, pollution, and regional planning. Principles of Geographic Information System (GIS) will also be included. Prerequisite: ENV-220 or BIO-220.

## ENV-305\*: Environmental Management and 4 credits Sustainability

This course will introduce students to environmental management practices and sustainability practices. Prerequisite: ENV-220 or BIO-220.

## ENV-402<sup>\*\*</sup>: Chemical Investigation and Remediation Strategies 3 credits

This course introduces students to various strategies that exist for remediating contaminated environmental samples, including air, water, and land. The following will also be discussed -- methods of site analysis, toxicology of chemical contamination, use of chemical fingerprinting, determination of exposure methods and exposure routes, analysis of epidemiological data, general methods for remediation of toxic and hazardous wastes, and use of both technical and moral considerations in decision making. Prerequisites: BIO-181, BIO-181L, CHM-315, CHM-315L, ENV-300 and one of the following combinations: 1) CHM-231, CHM-231L, or 2) CHM-235, CHM-235L). Co-Requisite: ENV-402L.

## ENV- Chemical Investigation and 3 credits 402HN<sup>/♦</sup>: Remediation Strategies

This course introduces students to various strategies that exist for remediating contaminated environmental samples, including air, water, and land. The following will also be discussed -- methods of site analysis, toxicology of chemical contamination, use of chemical fingerprinting, determination of exposure methods and exposure routes, analysis of epidemiological data, general methods for remediation of toxic and hazardous wastes, and use of both technical and moral considerations in decision making. Prerequisites: BIO-181, BIO-181L, CHM-315, CHM-315L, ENV-300 and one of the following combinations: 1) CHM-231, CHM-231L, or 2) CHM-235, CHM-235L). Co-Requisite: ENV-402L.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ENV-402L<sup>/♦</sup>: Chemical Investigation and Remediation Strategies Lab

1 credits

This course introduces students to various strategies that exist for remediating contaminated environmental samples, including air, water, and land. The following will also be discussed -- methods of site analysis, toxicology of chemical contamination, use of chemical fingerprinting, determination of exposure methods and exposure routes, analysis of epidemiological data, general methods for remediation of toxic and hazardous wastes, and use of both technical and moral considerations in decision making. Prerequisites: BIO-181, BIO-181L, CHM-315, CHM-315L, ENV-300 and one of the following combinations: 1) CHM-231, CHM-231L, or 2) CHM-235, CHM-235L). Co-Requisite: ENV-402.

## ENV- Chemical Investigation and 402LHN<sup>\*•</sup>: Remediation Strategies Lab

1 credits

This course introduces students to various strategies that exist for remediating contaminated environmental samples, including air, water, and land. The following will also be discussed -- methods of site analysis, toxicology of chemical contamination, use of chemical fingerprinting, determination of exposure methods and exposure routes, analysis of epidemiological data, general methods for remediation of toxic and hazardous wastes, and use of both technical and moral considerations in decision making. Prerequisites: BIO-181, BIO-181L, CHM-315, CHM-315L, ENV-300 and one of the following combinations: 1) CHM-231, CHM-231L, or 2) CHM-235, CHM-235L). Co-Requisite: ENV-402.

## Elementary - Special Education (ESD)

### ESD-501: Foundations in Elementary and Special Education Graduate Studies

3 credits

Teacher candidates survey the philosophical, historical, and sociological influences upon which educational theories and practices are constructed, and explore a variety of the common issues, trends, and opportunities that professional educators face in the field. Teacher candidates prepare for the graduate learning experience at Grand Canyon University by developing and strengthening the skills necessary to succeed as graduate students, including graduate level writing and research. Practicum/field experience hours: None. Fingerprint clearance not required.

### ESD-530: Instructional Planning and Assessment in the Inclusive Classroom

3 credits

Teacher candidates build foundational knowledge of planning instruction and assessment strategies designed to meet the needs of all students in an inclusive setting. Teacher candidates examine instructional planning based on the curriculum, knowledge of students, assessment data, learning theory, use of technology, and connections across the community. Formal and informal assessment strategies for planning, evaluating, and strengthening instruction for K-12 students are also examined. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisites: ESD-501 and SPD-521.

## ESD-540: Assessment, Eligibility, and 3 credits Transition Planning

Teacher candidates examine the process of assessment and eligibility in the inclusive classroom, along with the stakeholders involved. Teacher candidates build foundational knowledge of interventions such as RTI, MTSS, and the eligibility requirements for the disability categories identified by IDEA. This course reviews diagnostic assessments and how to incorporate the data for planning effective special education programs. Teacher candidates also develop knowledge and skills related to planning transitions for students with disabilities after high school, including legal requirements. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisite: ESD-530.

## ESD-550: Classroom Guidance, Management, 3 credits and Behavior

Teacher candidates examine how to create safe, inclusive, culturally responsive and engaging learning environments so that all students become active and effective learners and develop emotional well-being, positive social interactions, and self-determination. Teacher candidates focus on classroom procedures, physical classroom space, positive behavior interventions and supports, functional behavior assessments, adaptive behaviors, behavior improvement plans, and collaboration with colleagues. Practicum/field experience hours: 8. Fingerprint clearance required. Prerequisite: ESD-530.

## ESD-565: Methods for Teaching Science and Health in the Inclusive Classroom 3 credits

Teacher candidates examine fundamental concepts of physical, life, earth/space sciences, and health education. Teacher candidates build knowledge on a variety of age-appropriate inquiry-based instructional strategies to teach science, to build student understanding of personal and social applications, and to convey the nature of science for the practice of skills that contribute to good health. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ESD-530.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **Methods for Teaching Social** ESD-585: Studies and the Arts in the

**Inclusive Classroom** 

Teacher candidates examine a variety of instructional strategies to encourage learners to develop deep understanding of the major concepts and modes of inquiry from the integrated study of history, geography, the social sciences, and other related areas. Teacher candidates build foundational knowledge on promoting students' abilities to make informed decisions as citizens of a culturally diverse democratic society and interdependent world. Teacher candidates integrate the content, functions, and achievements of the performing and visual arts as primary media for communication, inquiry, and engagement among students. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: ESD-530.

### **Engineering Science General** (ESG)

#### **ESG-111: Introduction to Engineering Programming & Lab**

4 credits

3 credits

3 credits

This course introduces students to the basics of computer programming. Students will learn to develop algorithms to solve engineering problems, and the implementation of those algorithms in the C language. This course will include using C program for embedded devices for interacting with the world around them. Topics include assembly language, C programming language, and real time programming. MATLAB will be taught in the course to introduce students to rapid development tools and allow for flexibility in prototyping. Concepts of Object Oriented (OO) programming will be included in the MATLAB section of this course. Hands-on activities focus on writing code that implements concepts discussed in lecture and on gaining initial exposure to common microcontrollers. Prerequisites: ESG-162 and ESG-162L or MAT-261.

#### ESG-162<sup>♦</sup>: **Engineering Math**

This course is founded in the application of mathematics to engineering problems and processes. The course begins with foundations in algebraic manipulation, progresses into trigonometric models, complex numbers, signal processing, introduction to matrices and system equations, differentiation and integration, and differential equations all applied to the solution to engineering problems. Course content cannot be met by a transfer course. Prerequisite: MAT-154. Co-Requisite: ESG-162L.

### ESG-162L\*: Engineering Math Lab

The engineering math labs are the hands on applications of the foundational mathematics concepts applied to engineering problems in the engineering math course. The labs will apply algebra, trigonometry, matrices, differential and integral calculus, and differential equations to various engineering problems. Course content cannot be met by a transfer course. Prerequisite: MAT-154. Co-Requisite: ESG-162.

#### ESG-209L: Introduction to Product Design Lab 1 credits for Non-Engineers

This is a course for non-engineering majors. The course introduces students to engineering product design and build in mechanical, electrical, and biomedical disciplines. Students learn engineering communication, reverse engineering, and the assessment of low and large volume manufacturability of product design. General makerspace equipment is utilized. The students conduct hands-on projects throughout the course. Prerequisite: MAT-154. Co-Requisite: ESG-210.

#### ESG-210: **Engineering Innovation & Lab** 2 credits

This course introduces the fundamentals of the engineering design methodology and the product development process.. Students will learn the importance of listening to the voice of the customer and how to incorporate those desires into a product using design for X principles. Students will develop verification and validation tests and learn how those become formalized qualification or acceptance processes. Prerequisites: ESG-162 and ESG-162L or MAT-154 or higher subsequent math course.

#### ESG-220: Introduction to Engineering Design 2 credits and Prototyping & Lab

This course introduces students to engineering documentation, tolerances, and standards. Typical fabrication tools common in a machine shop and the impact those tools have on design details will be covered. The students will work on several multidisciplined projects through the semester. Prerequisites: ESG-162 and ESG-162L. Co-Requisites: ESG-210 and ESG-251.

#### ESG-250\*: Computer Aided Engineering & 4 credits

This course introduces CAD features, including fundamentals of 3D modeling for design. Includes overview of modeling, graphical manipulation, part structuring, coordinate system, and developing a strategy of modeling. CAD software enables students to make the transition from 2D drafting to 3D modeling. Students use symbolic math software and 3D modeling tools to visualize and solve engineering problems. The course emphasizes industry practices for modeling parts, extracting drawings, and creating assemblies. Prerequisite: MAT-261.

#### Computer Aided Design & Lab 2 credits

This course introduces students to the basics of computer-aided design. Students will learn to produce great designs using computer-aided design software. Topics include 2-D and 3-D design and modeling, mechanical tolerances, and electrical and mechanical design integration. Hands-on activities focus on the design and integration of different subsystems, electrical and mechanical. Prerequisites: ESG-162 and ESG-162L.

#### **ESG-260: Statics** 4 credits

This course focus is on the analysis of two- and threedimensional forces on a system in an equilibrium (static) state. Further, it discusses real world applications for static analyses via simple trusses, frames, machines, and beams. Additional topics covered include properties of areas, second moments, internal forces in beams, laws of friction, and static simulation in Solidworks. Prerequisite: PHY-121, PHY-121L, ESG-251.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### ESG-330\*: Introduction to Robotics & Lab 4 credits

This course covers the basics of robotic design using concepts from computer, electrical, and mechanical engineering. Topics covered may include modeling of dynamic systems, utilizing sensors and actuators, interfacing computer hardware, and developing simple control algorithms. This course is a team and project based course where multiple robots will be designed and tested. Prerequisite: MAT-345, MEE-360.

### ESG-345: Fluid Mechanics & Lab 4 credits

This course is an introduction to fluid statics, laminar and turbulent flow, pipe flow, lift and drag and measurement technics. Students will learn control volume analysis. Prerequisites: ESG-251, PHY-122, PHY-122L, STG-330, and MAT-364.

### ESG-360<sup>♦</sup>: Statics and Dynamics & Lab 4 credits

This course covers force and moment vectors, resultants, and principles of statics and free-body diagrams. The course presents students with applications to simple trusses, frames, and machines. Additional topics covered include properties of areas, second moments, internal forces in beams, laws of friction, principles of particle dynamics, mechanical systems and rigid-body dynamics, kinematics and dynamics of plane systems, and energy and momentum of 2-D bodies and systems. Prerequisites: PHY-121, PHY-121L, ESG-250, and MAT-264.

## ESG-374: Design of Experiments and Quality 2 credits Analysis

This class will introduce statistical process control and teach proper engineering experimental design and analysis techniques. Concepts introduced will include process variability, statistical controls, factorial, blocking and confounding as applied to engineering problems. Prerequisite: MAT-262.

## ESG-384: Applied Engineering Stochastic 2 credits Processes

Apply the stochastic process to the modeling and solution of the engineering problems. The course introduces the students to modeling, quantification, and analysis of uncertainty in engineering problems; all building into an introduction to Markov chains, random walks, and Galton-Watson tree and their applications in engineering. Prerequisite: MAT-364.

## ESG-395: Engineering Economics and Project 4 credits Management

This is a writing-intensive course that covers the basics of managing an engineering project, including: project planning, initiating of the project, implementation of the project plan, and completion of the project. Students will learn how to pitch their idea for funding, both in written form and in oral form, as well as how to prepare a formal written funding proposal. The class will cover the basics of engineering economics and introduce how this topic is covered on the Fundamentals of Engineering (FE) exam. Throughout the semester, the students will use the management and economic concepts learned to develop a portfolio and proposal for a capstone project to be completed in the following year. Prerequisites: ESG-210 and ESG-220.

## ESG-421\*: Advances in Computer Design & 4 credits Lab

his course describes and analyzes recent developments in computer design and architectures. Course topics focus on current research and tools that push the performance limits of advanced computer systems. Prerequisites: CST-307, and EEE-302

### ESG-430<sup>♦</sup>: Advanced Robotics & Lab 4 credits

This course covers advanced topics in robotic design using concepts from computer, electrical, and mechanical engineering. Topics covered may include advanced modeling of dynamic systems; tactile, force, and proximity sensors; computer vision; and power electronics associated with various actuators. This course is a team and project based course where multiple robots will be designed and tested. Prerequisites: ESG-330, MAT-345, and STG-330.

## ESG-435\*: Control Systems and Robotics & 4 credits Lab

This course synthesizes applications of linear algebra to modal analysis of dynamical systems, controllability-observability, pole-placement design, separation principle, design of model-based compensators, frequency domain multiple-input multiple-output (MIMO) singular value analysis, linear quadratic regulator (LQR), Kalman filter, state estimation, and linear quadratic Gaussian (LQG) control system design. The course also presents an introduction to H-infinity/H-2 control system design, with applications to real-world control system design problems, robot dynamics, and robot control. The laboratory is designed to reinforce principles learned in the lecture and to apply these principles and theories to the design, assembly and control of a robot. All computational aspects of this project will be performed in Matlab. Prerequisite: EEE-213 or ESG-455.

#### ESG-440: Applied Robotics & Lab 4 credits

The objective of this course is to give students hands on experience in the application of robotics. Students will conduct a series of projects, some of which they will scope, that will explore various robotic test beds. Students will become well versed in the program and control of various robotic systems. Analytical tools such as MATLab/Simulink will be used to model and simulate robots. Prerequisite: ESG-330.

### ESG-441\*: Power & Energy Systems 3 credits

This course presents basic principles, technical details, and recent advances in power and sustainable energy systems. The course focuses on the generation of electrical power using a variety of energy sources such as fossil, nuclear, and renewables. The course introduces students to power plant thermal cycle analysis. Prerequisites: PHY-122, PHY-122L, MAT-364, and EEE-202 and EEE-202L. Co-Requisite: ESG-441L.

### ESG-441L\*: Power & Energy Systems Lab 1 credits

The laboratory section of ESG-441 reinforces and expands learning of principles introduced in the lecture course. Hands-on activities include research projects aimed at suggesting solutions to problems in the areas of electrical power generation using a variety of energy sources such as fossil, nuclear and renewables. Prerequisites: PHY-122, and PHY-122L, MAT-364, and EEE-202 and EEE-202L. Co-Requisite: ESG-441.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

2 credits

The first capstone is a writing intensive course that provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. Prerequisite: ESG-395.

### ESG-451HN<sup>∆</sup>: Capstone Project I 2 credits

The first capstone is a writing intensive course that provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. Prerequisite: STG-430.

### ESG-452<sup>△+Ω</sup>: Capstone Project II 2 credits

The second capstone is a writing intensive course that provides students the opportunity to implement and present the applied research project designed, planned, and started in the first capstone course. The capstone project is a culmination of all the learning experiences in an engineering program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. Prerequisite: ESG-451.

### **ESG-452HN**<sup>∆</sup><sup>‡</sup>: Capstone Project II 2 credits

The second capstone is a writing intensive course that provides students the opportunity to implement and present the applied research project designed, planned, and started in the first capstone course. The capstone project is a culmination of all the learning experiences in an engineering program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. Prerequisite: ESG-451.

### ESG-455\*: Dynamic Systems & Lab 4 credit

This course introduces students to the processes of mathematical modeling and analysis of dynamic systems with mechanical, thermal, electrical and fluid elements. Topics covered include: time domain solutions, analog computer simulation, linearization techniques, block diagram representation, numerical methods and frequency domain solutions. Hands-on lab activities enhance students' ability to mathematically analyze components and systems for mechanical performance. Prerequisites: ESG-345 or ESG-330 or STG-345, and EEE-202/EEE-202L.

# This course is an overview of manufacturing processes and methods. Processes may include casting and molding, forming, machining, metrology, welding, joining, and computer-aided manufacturing. Additional topics include product design, material selection, process planning, and manufacturing automation. Process capabilities, limitations, and design for manufacturability

### ESG-462\*: Current Topics in Biomedical 4 credits Engineering & Lab

will be examined. Prerequisite: ESG-220.

This course surveys the main areas of biomedical engineering and illustrates the application of engineering principles for the design of biomedical innovations. Topics focus on the various products and processes related to the health science industries, which may include concepts such as: diagnostic instruments, artificial organs, biomedical devices, bio-signaling, and health monitoring and information integration. The laboratory is designed to reinforce principles learned and to apply these principles and theories to design systems and devices that integrate mechanical, electronic, and biological elements. Computational software will be used to support laboratory data analyses.

## ESG-485: Feedback Control Theory and 4 credits Design & Lab

This course examines the control of dynamic systems through classical methods. Topics include analysis of open- and closed-loop systems in both the time and frequency domains, feedback-control methods, and the design of controllers for system stability, speed of response, and accuracy. Analytical tools such as MATLab/Simulink will be used to simulate the modeled systems and to determine controller parameters. Prerequisites: ESG-455 and ESG-330.

## English as a Second Language (ESL)

## ESL-223N: SEI English Language Teaching: 3 credits Foundations & Methodologies

This course presents the historical, legal, theoretical, and sociological foundations of programs of instruction for English language learners. It includes an examination of the role of culture in learning and instructional program models, with a focus on Structured English Immersion. Teacher candidates are instructed in immersion strategies and the use of assessment data. Practicum/field experience hours: 10. Fingerprint clearance required.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ESL-250: School, Community, and Family 4 credits Culture 4

In this course, candidates will explore school, community, and family culture. Emphasis will be placed on the major goals, principles, and concepts of multicultural education, including multiple perspectives in culture, history, and understanding cultural and individual differences in teaching and learning. Research is utilized to investigate the social, community, cultural, and familial contexts that influence learning and development. Practicum/field experience hours: 10. Fingerprint clearance required.

## ESL-251: School, Community, and Family 4 credits Culture 4

In this course, candidates will explore school, community, and family culture with a focus on creating supportive environments for English learners (ELs). Through reflective practice and policy analysis, candidates will enhance their professional competencies, advocate for ELs' educational rights, and engage in self-assessment to continually improve their teaching strategies. Emphasis will be placed on the influences of multicultural education, including reflecting on professional identity to address personal biases and build cultural competence. Research is utilized to investigate the social, community, cultural, and familial contexts that influence learning and development and can be leveraged to foster an inclusive classroom that acknowledges and celebrates the diverse backgrounds of students.

### ESL-341: Linguistics 4 credits

In this course, candidates become familiar with the fundamentals of linguistics. Emphasis will be placed on phonology, morphology, syntax, semantics, pragmatics, sociolinguistics, historical linguistics, and first and second language acquisition theories. Candidates will synthesize research-based methods of incorporating linguistic principles into their teaching practice.

## ESL-352: Literacy Development for English 4 credits Language Learners

In this course, candidates will examine approaches to developing literacy for second language learners in K-8 schools. Emphasis will be placed on instructional and practice strategies for developing listening, speaking, reading, and writing skills; developing language and literacy through the content areas; using children's and young adult literature; and assessing students' literacy development in the second language. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: ESL-250.

### ESL-353: Literacy Development for English 4 credits Learners

In this course, candidates will examine approaches to developing literacy for English learners (ELs) in K-8 schools. Emphasis will be placed on scaffolded instructional strategies for developing listening, speaking, reading, and writing skills; identifying materials and resources that foster language and literacy development; and assessing students' literacy development in the English language. Additionally, candidates will learn to collaborate with stakeholders to support ELs' in developing language and literacy through the content areas. Focus will be placed on analyzing ELs' academic and personal characteristics to tailor instructional and assessment practices that are responsive to students' unique learner profiles. Prerequisite: ELM-211.

## ESL-358: ELL Curriculum and Methods of 4 credits Instruction

In this course, candidates will review curriculum and methods appropriate for the teaching of subject areas in an English language learner instructional setting. Emphasis is placed on: (a) linguistic, cognitive, developmental, and socio-cultural considerations in the design of multicultural curricula; (b) exploration of multicultural instructional methods and materials for use in language arts and content areas; (c) critique of current commercially prepared products. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: ESL-223N or ESL-440N.

### ESL-365: ELL Assessment 4 credits

In this course, candidates will explore the principles of evaluating and structuring assessments. Candidates will design rubrics and examine assessments for the purposes of identification, placement, and instructional delivery. Emphasis will be placed on learning ways to integrate assessment procedures into any curriculum, and designing assessment tasks that allow for improved learning. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: ESL-358 or ESL-421.

### ESL-410: Advanced Language Teaching 3 credits Methodologies and Assessment

This thorough examination of available methodologies, underlying philosophies, and assessment procedures includes lessons in teaching the four recognized skill areas (listening, speaking, reading, and writing) within the content areas and the use of standard tests. Prerequisite: ESL-423.

## ESL-411: Language Teaching Curriculum 3 credits and Materials Design

This course integrates general school curriculum, materials, and the specific English language teaching goals with the actual design and rendering of instructional materials. Prerequisite: ESL-423.

## ESL-414\*: English in its Social and Historical 3 credits Setting

This exploration of English language variation across sociocultural context and time discusses implications for building culturally appropriate ways of interacting in professional settings.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## ESL-433N<sup>t</sup>: Advanced Methodologies of Structured English Immersion

3 credits

In this course, teacher candidates continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. They plan, deliver, and evaluate instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

## ESL- Advanced Methodologies of 433NHN\*: Structured English Immersion

3 credits

In this course, teacher candidates continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. They plan, deliver, and evaluate instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### ESL-436N\*: Methods of Structured English Immersion for Early Childhood Education

3 credits

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. Through Universal Design for Learning they plan, deliver, and evaluate standards-based instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

## ESL-440N\*: Methods of Structured English 3 credits Immersion for Elementary Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs and approaches for teaching English learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement as they plan, deliver, and evaluate standards-based instruction for English learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### ESL-445N<sup>f</sup>: Methods of Structured English Immersion for Secondary Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs and approaches for teaching English learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement as they plan, deliver, and evaluate standards-based instruction for English learners. Practicum/field experience hours: 15. Fingerprint clearance required.

3 credits

### ESL-446N<sup>4</sup>: Methods of Structured English 3 credits Immersion for K-12 Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs and approaches for teaching English learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement as they plan, deliver, and evaluate standards-based instruction for English learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### ESL-458: Curriculum and Methods of 4 credits Instruction for English Learners

In this course, candidates will review the curriculum and methods appropriate for teaching English learners (ELs) in various instructional settings and subject areas. Emphasis is placed on linguistic, cognitive, developmental, and sociocultural considerations in the design of differentiated and culturally responsive curricula. Candidates will critically reflect on individual ELs' performance in language and content to inform their teaching approaches and design evidence-based, ELcentered, interactive approaches that support language learning. They will also plan collaborative strategies to support EL instruction, aid educators and staff, and advocate for ELs. A key focus will be on integrating assessment practices seamlessly into any curriculum and on the development of assessment tasks that foster enhanced learning outcomes. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-211.

### ESL-465: Assessment for English Learners 4 credit

In this course, candidates will explore effective assessment practices for English learners (ELs), including how to apply knowledge of validity and reliability to analyze and interpret EL student data. Candidates will examine assessments for identification, placement, reclassification, and instructional delivery to make informed decisions. Emphasis will be placed on designing formative and summative assessment tasks that allow for improved learning in language and content areas. Additionally, candidates will demonstrate knowledge of state-approved administrative considerations, accessibility features, and accommodations appropriate to ELs for standardized assessments. Prerequisite: ELM-211.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ESL-490 $^{\Omega}$ : Student Teaching for Elementary 8 credits Education with an ESL Emphasis

Teacher candidates are engaged in the student teaching experience that includes practical ESL elementary (K-8) classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

### ESL-533: Advanced Methodologies of SEI 3 credits

In this course, teacher candidates continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. They plan, deliver, and evaluate instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### ESL-536: Methods of Structured English Immersion for Early Childhood Education

3 credits

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. Through Universal Design for Learning they plan, deliver, and evaluate standards-based instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

## ESL-540: Methods of Structured English 3 credits Immersion for Elementary Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs for English language learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement. Through Universal Design for Learning they plan, deliver, and evaluate standards-based instruction for English language learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### ESL-545: Methods of Structured English Immersion for Secondary Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs and approaches for teaching English learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement as they plan, deliver, and evaluate standards-based instruction for English learners. Practicum/field experience hours: 15. Fingerprint clearance required.

3 credits

### ESL-546: Methods of Structured English 3 credits Immersion for K-12 Education

In this course, teacher candidates examine the fundamentals of the legal, historical, and educational foundations of Structured English Immersion (SEI) and other instructional programs and approaches for teaching English learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Teacher candidates identify strategies to promote English language development and improve student achievement as they plan, deliver, and evaluate standards-based instruction for English learners. Practicum/field experience hours: 15. Fingerprint clearance required.

### Engineering Technology (ETG)

### ETG-222\*: Experimental Methods 4 credits

This course covers topics in electrical and mechanical instrumentation and data acquisition. Topics include gauges and transducers, calibration, signal noise and conditioning, computerized data acquisition (DAQ) systems, results documentation, and statistical analysis of data. Prerequisite: PHY-111, PHY-111L & PHY-112, PHY-112L.

### ETG-315<sup>♦</sup>: Materials and Microscopy & Lab 4 credits

This course teaches fundamental concepts of materials science as they apply to electric, magnetic, thermal, and optical properties. Students will study topics such as crystal structure, carrier transport, and solid-state physics. Laboratory exercises may focus on microscopy techniques and electro-plating. Prerequisites: PHY-112, PHY-112L, CHM-113, and CHM-113L.

## ETG-333: Applications of Instrumentation & 4 credits Lab

This course covers topics in electrical and mechanical instrumentation and data acquisition. Topics include gauges and transducers, calibration, intelligent devices and sensor technologies, signal noise and conditioning, computerized data acquisition (DAQ) systems, results documentation, and statistical analysis of data. Prerequisites: EET-202 and EET-202L.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## ETG-403: Principles of Mechatronics Design 4 credits & Lab

This course introduces students to electromechanical design principles in actuation and controls. Students will complete a semester-long hands-on, scaffolded project, with consideration for safety, cost and additional factors. Prerequisites: MET-302 and ETG-426.

## ETG-410<sup>\*\*</sup>: Controls and Instrumentation & 4 credits Lab

This course examines the various methods of controlling electrical mechanical systems using lumped parameter models. Topics include interfacing with analog and digital sensors, motors, and actuators. Advanced control software will be used for programming the systems. Prerequisites: EET-202 and EET-202L.

## ETG- Controls and Instrumentation & 4 credits 410HN<sup>\*</sup>: Lab

This course examines the various methods of controlling electrical mechanical systems using lumped parameter models. Topics include interfacing with analog and digital sensors, motors, and actuators. Advanced control software will be used for programming the systems. Prerequisites: EET-202 and ETG-222, or EET-325

### ETG-415<sup>♦</sup>: Power and Energy Technologies 3 credits

This course examines methods of energy generation and delivery. Topics covered include motors and generators, power electronics, three-phase circuits, and power grid networks. Students will also contrast methods of power generation and storage as they consider their viability under different circumstances. Prerequisite: EET-302. Co-Requisite: ETG-415L.

### ETG-415L\*: Power and Energy Technologies 1 credits

This laboratory-based course reinforces the exploration of power and energy technologies by providing additional hands on experience with motors and generators, power electronics, three-phase circuits, and power grid networks. Prerequisite: EET-302. Co-requisite: ETG-415.

### ETG-420<sup>♦</sup>: Quality Control 2 credits

This course will emphasize the necessary elements leading to quality production. Course topics will include Statistical Process Control (SPC) and Six-Sigma. Prerequisite: MAT-274 or ESG-374 or ISE-301.

### ETG-426: Manufacturing Automation & Lab 2 credits

This course introduces students to manufacturing, assembly, and material handling processes through a prototype automation project. Areas of focus include the use of intelligent machines, cost and quality factors, safety protocols, control system design, device interfacing, and programming of electromechanical devices. Prerequisite: ETG-410. Co-Requisite: ETG-333.

### ETG-498<sup>△</sup> Senior Project I

2 credits

The first senior project course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course. Prerequisite: MET-302. Co-Requisite: STG-390.

## ETG- Senior Project I 2 credits 498HN<sup>/♦</sup>:

The first senior project course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course. Prerequisite: MET-302. Co-Requisite: STG-390.

### ETG-499<sup>∆</sup> Senior Project II 2 credits

The second senior project course provides students the opportunity to implement and present the applied research project designed, planned, and started in the first senior project course. The senior project is a culmination of the learning experiences while a student in the Engineering Technology programs. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. This is a writing intensive course. Prerequisite: Successful completion of ETG-498 with a grade of C or better.

## ETG- Senior Project II 2 credits 499HN<sup>/♦</sup>:

The second senior project course provides students the opportunity to implement and present the applied research project designed, planned, and started in the first senior project course. The senior project is a culmination of the learning experiences while a student in the Engineering Technology programs. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. This is a writing intensive course. Prerequisite: Successful completion of ETG-498 with a grade of C or better.

### Exercise Science (EXS)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EXS-210: Sports Performance Science and 3 credits Coaching

This course provides the knowledge necessary to enter the field of sports performance. The topics of movement preparation, plyometrics, acceleration, absolute speed, and multidirectional speed are introduced. Students also explore testing, movement skills, nutrition, mindset, motivation science, exercise techniques, and regeneration, as well as program planning for energy system development designed to improve strength, power, sprint, and speed. The course includes a focus on the science of coaching and professional demeanor to work within the fields of exercise science. Co-Requisite: EXS-210L.

## EXS-210L: Sports Performance Science and 1 credits Coaching Lab

This course introduces the skills necessary to enter the field of sports performance, with a focus on field and laboratory experiences designed to reinforce the practical application of the skills introduced in lecture. Co-Requisite: EXS-210.

## EXS-247: Health Risk Appraisal, Weight 4 credits Control & Management

This course incorporates professional guidelines for health risk appraisal, assessment and stratification for a variety of health conditions for the general population. This also includes principles and guidelines for safe and effective physical activity and weight loss management. Knowledge gained in this course will contribute to student preparation for professional certification in the field.

## EXS-250: Resistance Training and 3 credits Cardiovascular Fitness

This course introduces the principles and techniques of strength and cardiovascular training. Musculoskeletal, cardiac, and respiratory anatomy are discussed, as well as how these systems adapt and manage the stress of regular exercise. Effective exercise programming is also discussed and applied to various physical abilities to develop a well-rounded program. Knowledge gained in this course prepares students for professional certification in the fields of resistance training and cardiovascular fitness. Prerequisites: EXS-210 and EXS-210L. Co-Requisite: EXS-250L.

## EXS-250L: Resistance Training and 1 credits Cardiovascular Fitness Lab

This field and laboratory experience course introduces exercises that target specific muscle groups and systems of the body to show students how to design an effective exercise program. Students are introduced to effective coaching strategies, including progression, regression, coaching cues, and proper evaluation; these skills can then be applied to the professional development and delivery of an exercise session. Prerequisites: EXS-210 and EXS-210L. Co-Requisite: EXS-250.

### **EXS-305:** Motor Control and Motor Learning 4 credits

This course provides the knowledge necessary to teach motor skills throughout the lifespan and apply current principles and theories of motor control and motor learning to exercise and rehabilitation populations. Content includes foundational neuroscience and connections with the musculoskeletal system, developmental motor milestones, motor control and motor learning principles, practice and feedback variables, teaching skill acquisition, and achieving maximum performance and retention. Prerequisite: BIO-202 or BIO-211.

### **EXS-318:** Principles of Corrective Exercises 4 credits

This course incorporates evidence-based concepts and application of corrective exercises to improve muscle imbalance and movement efficiency to decrease injury risk and promote recovery. Techniques include myofascial release, static and neuromuscular stretching, strength training, isometrics, and integrated dynamic movements. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L.

### EXS-328: Sports Nutrition 4 credit

This course explores how principles of nutrition enhance athletic performance. Students gain a comprehensive understanding of how nutrition supports athletes in individual and team sports, focusing on the role of nutrition in optimizing performance, promoting recovery, and maintaining overall health for athletes. Students learn how to implement effective nutritional strategies tailored to various athletic needs and disciplines.

### EXS-335<sup>4</sup>: Kinesiology 3 credits

This course is an analysis of human movement, integrating knowledge of the skeletal, muscular, and neurological systems with the effects that gravity, friction, internal and external forces, and the laws of motion have on their functions. Topics include biomechanics of human bone, joint, and skeletal muscle; structure and function of the upper extremity, lower extremity, and spine; concepts of linear and angular kinematics and kinetics as applied to human motion; equilibrium and stability on land; and motion through a fluid medium of air or water. Also included is the application of these factors to various types of physical skills. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-335L.

### EXS-335HN<sup>\*</sup>: Kinesiology 3 credits

This course is an analysis of human movement, integrating knowledge of the skeletal, muscular, and neurological systems with the effects that gravity, friction, internal and external forces, and the laws of motion have on their functions. Topics presented include biomechanics of human bone, joint, and skeletal muscle; structure and function of the upper extremity, lower extremity, and spine; concepts of linear and angular kinematics and kinetics as applied to human motion; equilibrium and stability on land; and motion through a fluid medium of air or water. Included is the application of these factors to various types of physical skills. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-335L.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### EXS-335L<sup>4</sup>: Kinesiology Lab

1 credits

This laboratory course is designed to apply the anatomical, kinesiological, and biomechanical principles learned in the lecture course to human body movement. Movement of all of the major joints of the body is analyzed by relative and absolute joint position and muscle action, and biomechanical terms such as linear and angular kinematics, friction, work, power, energy, and torque are applied to human motion. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-335.

## EXS- Kinesiology Lab 1 credits 335LHN<sup>4</sup>:

This laboratory course is designed to apply the anatomical, kinesiological, and biomechanical principles learned in the lecture course to human body movement. Movement of all of the major joints of the body is analyzed by relative and absolute joint position and muscle action, and biomechanical terms - such as linear and angular kinematics, friction, work, power, energy, and torque - are applied to human motion. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-335.

### EXS- $340^{\Delta t}$ : Physiology of Exercise 3 credits

This writing-intensive course is a study of the effects of exercise on the body. Topics include nutrition as the basis for physical activity; how energy is produced and utilized during physical activity; the energy delivery and vital functions of the respiratory, cardiovascular, muscular, and nervous systems during exercise; how these systems can be enhanced through training; the impact of ergogenic aids and environmental stress on performance; and the effect of exercise on body composition, weight control, aging, and disease prevention. The body's responses and adaptations to exercise at the systemic, as well as the subcellular level, are also discussed. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-340L.

### EXS-340HN<sup>∆</sup>: Physiology of Exercise 3 credits

This writing intensive course is a study of the effects of exercise on the body. Topics include nutrition as the basis for physical activity; how energy is produced and utilized during physical activity; the energy delivery and vital functions of the respiratory, cardiovascular, muscular, and nervous systems during exercise; how these systems can be enhanced through training; the impact of ergogenic aids and environmental stress on performance; and the effect of exercise on body composition, weight control, aging, and disease prevention. The body's responses and adaptations to exercise at the systemic, as well as the subcellular level, are also discussed. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-340L.

### EXS-340L<sup>\*</sup>: Physiology of Exercise-Lab 1 credits

This is a course of field and laboratory experiences designed to reinforce the basic principles learned in the lecture course. Skills of measurement and evaluation, including computerized methods employed to facilitate testing, are applied to physiological and systemic principles of exercise. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-340.

## EXS- Physiology of Exercise-Lab 1 credits 340LHN':

This is a course of field and laboratory experiences designed to reinforce the basic principles learned in the lecture course. Skills of measurement and evaluation, including computerized methods employed to facilitate testing, are applied to physiological and systemic principles of exercise. Prerequisites: BIO-155 and BIO-155L, or BIO-201 and BIO-201L, or BIO-210 and BIO-210L. Co-Requisite: EXS-340.

## EXS-344: Exercise Science: Special 4 credits Populations

This course introduces analysis of special populations to assist in designing health education and physical fitness programs.

## EXS-353: Clinical Instruction in Athletic 4 credits Training IV

This 15-week-long course is designed to provide a clinical setting in which athletic training students clinically apply and demonstrate proficiency in the information learned in prior courses. This sequence allows students to apply what they have learned in class on real patients. Students are assigned to an approved clinical instructor who supervises students on a daily basis through constant visual and auditory interaction and provides feedback to students on their progression. The mode of delivery is student-to-student demonstration and a clinical exam testing students' proficiency at a clinical site (high school, college, and/or professional) on true patients. Students are evaluated at a clinical site weekly to ensure proficiency in these skills. Prerequisite: EXS-351.

## EXS-357: Recognition and Evaluation of 4 credits Athletic Injuries II

Building on concepts of EXS-356, this course is designed to provide students the opportunity to further analyze and apply skills in the areas of evaluation of upper and lower body, palpation of body and soft tissue structures, range of motion testing, neurological testing, manual muscle testing, and special ligament tests for the major synovial joints in the body. Prerequisite: EXS-356.

### EXS-430<sup>∆</sup>: Health Promotion 4 credits

This writing-intensive course is designed to provide the foundation of healthy behavior change in relation to influential factors. Content includes motivation for physical activity and healthy choices, as well as an introduction to the psychology of sports.

### EXS-430HN<sup>∆</sup>: Health Promotion 4 credit

This writing intensive course is designed to provide the foundation of healthy behavior change in relation to influential factors. Content includes motivation for physical activity and healthy choices, as well as an introduction to the psychology of sports.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### EXS-455<sup>4</sup>: Advanced Principles of Sports Performance

3 credits

This course expands the principles and techniques of strength training including sport- and activity-specific program design and implementation. Knowledge gained in this course will contribute to student preparation for professional certification in the field. Prerequisites: EXS-250, EXS-250L, EXS-340 and EXS-340L. Co-Requisite: EXS-455L.

## EXS-455HN<sup>f</sup>: Advanced Principles of Sports 3 credits Performance

This course expands the principles and techniques of strength training including sport- and activity-specific program design and implementation. Knowledge gained in this course will contribute to student preparation for professional certification in the field. Prerequisites: EXS-250 and EXS-250L and EXS-340 and EXS-340L. Co-Requisite: EXS-455L.

### EXS-455L\*: Advanced Principles of Sports 1 credits Performance Lab

This course applies the principles and techniques of strength training including sport- and activity-specific program design and implementation. Prerequisites: EXS-250, EXS-250L, EXS-340 and EXS-340L. Co-Requisite: EXS-455.

## EXS- Advanced Principles of Sports 1 credits 455LHN<sup>t</sup>: Performance Lab

This course applies the principles and techniques of strength training including sport- and activity-specific program design and implementation. Prerequisites: EXS-250 and EXS-250L and EXS-340 and EXS-340L. Co-Requisite: EXS-455.

### **EXS-481**<sup>Ω</sup>: Sports Performance Capstone 4 credits

This capstone course acts as a culmination of the learning experiences during the exercise science program, with a focus on career preparation, including resume building, portfolio creation, and networking. \*Non-Transferable. Prerequisite: EXS-250 or EXS-318 or EXS-430 or EXS-485.

## EXS-485\*: Research Methods in Exercise 4 credits Science

This course provides students with basic instruction in research methods needed to read and critique published research in physical activity, health, nutrition, and sports performance. The course also emphasizes the skills needed to design studies and develop a research proposal. Statistical terminology and calculations are introduced in the context of evaluating research. Students are required to use statistical software throughout the course.

### EXS-491: Applied Exercise Science 4 credits

In this course, students learn how sports performance professionals engage with athletes to promote health and human performance and apply content knowledge to a sports performance experience. Knowledge gained in this course prepares students for certification exams and careers in the field of sports performance. Prerequisite: EXS-250 or EXS-318 or EXS-430 or EXS-485.

### **EXS-520:** Exercise Research Methods

4 credits

This course provides students with the knowledge of research methods needed to read and critique published research. The course provides students with the skills necessary to design studies and develop a research proposal. Statistical terminology and calculations are taught in the context of evaluating research. Students are required to use statistical software throughout the course.

### EXS-530: Clinical Exercise Physiology 4 credits

This comprehensive course equips students with advanced knowledge of the pathophysiological mechanisms of common medical conditions encountered in clinical practice. Students will engage with research-based content that serves as a foundation for clinical decision-making. Students will critically evaluate the latest scientific literature to inform exercise prescriptions and interventions that align with best practices. The course aligns with the program's mission to produce adept professionals capable of applying evidence-based strategies to enhance the health and well-being of diverse populations.

## EXS-540: Cardiovascular and Pulmonary 4 credits Physiology

This course is designed to provide students with a deep understanding of the intricacies of the cardiovascular and pulmonary systems, with a focus on physiological principles and their practical implications, including 12-lead ECG interpretation. Rooted in evidence-based practice, the course empowers students to apply their expertise in promoting cardiovascular and pulmonary health through exercise interventions.

## EXS-610: Advanced Exercise Testing and 4 credits Health Risk Appraisal 4

This course is designed to equip students with an in-depth understanding of advanced techniques for exercise testing and health risk assessment. Building upon foundational knowledge, this course prepares students for the role of clinical exercise physiologist, with the ability to assess a diverse population, including those with medical conditions. Through evidence-based practices and the utilization of ACSM's Guidelines for Exercise Testing and Prescription, students will develop the expertise required to select and conduct exercise tests and promote health and well-being.

## EXS-620: Advanced Exercise Prescription 4 credits Cardiopulmonary Rehabilitation

This course is designed to equip students with an in-depth understanding of advanced techniques for exercise prescription. Building upon foundational knowledge, this course prepares students for the role of clinical exercise physiologist, with the ability to tailor exercise interventions to diverse populations, including those with medical conditions. Through evidence-based practices and the utilization of ACSM's Guidelines for Exercise Testing and Prescription, students will develop the expertise required to promote health and well-being through precise exercise strategies.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## EXS-660: Theory of Behavior Change and 4 credits Health Promotion

This course is a pivotal component of the Master of Science program in Exercise Physiology, designed to equip students with a comprehensive understanding of the theories, strategies, and techniques that underpin health behavior change and promotion. This course empowers future clinical exercise physiologists to effectively address the complex interactions between behavior, health, and wellness, enabling them to foster positive lifestyle modifications in diverse populations.

## EXS-690: Clinician Exercise Physiology 4 credits Experience I

This course is designed to empower students with the skills and knowledge necessary to conduct rigorous clinical research in the field. This course provides a comprehensive framework for executing and presenting a research thesis that contributes to the advancement of knowledge within the realm of exercise physiology. Practicum/field experience hours: 300.

## EXS-695: Clinician Exercise Physiology 4 credits Experience II

This course serves as a capstone, offering students a unique opportunity to solidify their skills and knowledge through practical application in clinical settings. Practicum/field experience hours: 300. Prerequisite: EXS-690.

### Finance (FIN)

### FIN-210<sup>♦</sup>: Personal Finance 4 credits

This course provides students with skills to make rational, personal finance decisions. There is an emphasis on money management and the responsible use of credit. Strategies for wealth building and retirement planning are also introduced.

### FIN-350<sup>†</sup>♦: Fundamentals of Business Finance 4 credits

This course is an introduction to managerial finance and the financial markets, analysis of financial statements, time value of money, interest rates, asset valuation, assessment of risk, cost of capital, and capital budgeting. Prerequisites: ECN-220, ECN-351, or ECN-361; and ACC-240 or ACC-250.

## FIN-355: Retirement Planning and Employee 4 credits Benefits

This course provides students with knowledge of the rules and options of qualified and nonqualified retirement plans, public plans (Social Security, Medicare, Medicaid), and employee benefit plans. Students learn to evaluate characteristics that are key in retirement plan selection for individuals and business owners. Distribution planning, tax implications, and regulatory considerations are discussed. Students analyze paths and tools toward financial independence and make recommendations within a financial planning context. Other employee benefits, such as medical plans, life insurance, disability insurance, and flexible spending accounts are evaluated. Prerequisite: FIN-350.

### FIN-375: Introduction to Investments

This course studies stocks, bonds, mutual funds, exchange-traded funds, and other investment vehicles, and their application in investing. The securities market and trading procedures are discussed. The course introduces portfolio theory that is applicable to both professional portfolio management and individual investment decisions. The application of portfolio theory to corporate investments and diversification is also introduced. Prerequisite: FIN-350.

4 credits

## FIN-431\*: Financial Risk Management and 4 credits Insurance

This introductory course explores fundamental concepts in risk management and insurance. Students learn to identify and mitigate commercial and personal risks through the use of financial products, including insurance and other financial instruments. Prerequisites: MAT-251 and FIN-350.

### FIN-432\*: Real Estate 4 credits

In this introduction to the real estate industry, students learn about the risks and rewards associated with investing in and financing both residential and commercial real estate. This course includes concepts and techniques relevant to a variety of careers related to real estate. This course also provides students with a better understanding of real estate for their own personal investment and financing decisions. Prerequisite: FIN-350.

### FIN-440: Estate Planning and Special Topics 4 credits

This course includes principles of family estate planning and client communication. Estate planning documents, gifting strategies, incapacity planning, property ownership, transfer methods, and taxation are covered. Students learn aspects of client communication and psychology, including principles of nonverbal communication, counseling, and the impact of planner and client values, attitudes, and biases. Money conflicts and crisis situations are also discussed. Prerequisite: FIN-350.

### FIN-450\*: Intermediate Finance 4 credits

This course is an advanced study of the finance function within the modern corporation. Topics covered include financial analysis and planning, the valuation of financial assets, capital budgeting, capital structure, and working capital management. Prerequisites: ACC-240 or ACC-260 or ACC-350; and FIN-350.

## FIN-451\*: Investments and Portfolio 4 credits Management

This course is an advanced study of investments and their application in investment portfolio management. The course develops and emphasizes portfolio theory that is applicable to both professional portfolio management and individual investment decisions. The application of portfolio theory to corporate investments and diversification is also discussed. Prerequisites: MAT-251 and FIN-375.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### FIN-490: Financial Planning Capstone 4 credits

This course is a synthesis of concepts learned throughout the financial planning program. A series of case studies enhances the ability to integrate and apply knowledge and skills from core financial planning domains. Students gain experience in the financial planning process, client biases and behavioral finance issues, professional standards, and ethics, and written and oral communication. Effective financial analysis techniques and client communication are employed to create and present a financial plan in accordance with a client's values and objectives. Implementation, evaluation, and updates of the plan are also addressed. Prerequisites: FIN-355, FIN-375, FIN-431, and ACC-460.

### FIN-504: Finance Principles 4 credits

This course is designed for individuals who are preparing for more advanced coursework in accounting and is designed for students who have not had finance in undergraduate work. Topics covered include financial analysis, financial planning, asset evaluation, capital structure, and working capital management.

### FIN-650: Managerial Finance 4 credits

This course discusses elements of business financial decisions, including financial forecasting and development of proformas, management of working capital, capital budgeting, capital structure, and raising funds in capital markets. Prerequisite: FIN-504.

### FIN-655: Investments 4 credits

This course is a study of stocks, bonds, and derivatives, and their application in portfolio management. This course discusses securities market and trading procedures, and develops and emphasizes portfolio theory. Material in the course is applicable to both professional portfolio management and individual investment decisions. Prerequisite: FIN-650.

### FIN-660: Advanced Financial Strategies 4 credits

A course studying more advanced business strategies including mergers and acquisitions, spin-offs, carve-outs, partnerships, cooperative agreements, and their business applications for strategic growth or survival. It will also cover business value issues, the role of investment bankers, M&A specialists, and the issues to consider in cross-border transactions. Prerequisite: FIN-650

### Family Nurse Practitioner (FNP)

### FNP-630<sup>\Omega</sup>: Health Promotion and On-Campus 4 credits Experience I

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Learners explore concepts relevant to primary care, including family systems theory and developmental theory. Learners are also introduced to well visits across the life span and build upon advanced health assessment skills in assessing the well child, adolescent, woman, and man. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Learners examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

### FNP-630CE<sup>Ω</sup>: FNP-630 On-Campus Experience I 0 credits

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Learners explore concepts relevant to primary care, including family systems theory and developmental theory. Learners are also introduced to well visits across the life span and build upon advanced health assessment skills in assessing the well child, adolescent, woman, and man. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Learners examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

## FNP-630N: Health Promotion and On-Campus 4 credits Experience I

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Students explore concepts relevant to primary care, including family systems theory and developmental theory. Students are also introduced to well visits across the life span and build upon advanced health assessment skills in assessing the well child, adolescent, woman, and man. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Students examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### FNP-630NCE: FNP-630 On-Campus Experience I 0 credits

This course covers preventive health care practices and integrates cultural and spiritual considerations, environmental factors, genetic influences, and national public health objectives. Emphasis is placed on development of the advanced practice registered nurse-patient relationship to enhance the effectiveness of patient education, counseling, and promotion of healthy lifestyle changes. Students explore concepts relevant to primary care, including family systems theory and developmental theory. Students are also introduced to well visits across the life span and build upon advanced health assessment skills in assessing the well child, adolescent, woman, and man. Specific emphasis is placed on clinical diagnostic reasoning and interpretation and the development of differential diagnoses based on clinical practice guidelines. Students examine professional and patient community resources and evaluate the use of integrative healing strategies in assisting patients to achieve health goals using evidence-based research. This course includes a required 3-day, on-campus experience. Prerequisite: NUR-634.

### FNP-652 $^{\Omega}$ : Family Primary Care I 7 credits

This course focuses on the three levels of prevention and comprehensive primary care management of individuals with common, acute, and chronic conditions across the life span within a culturally and spiritually diverse environment. Evidence-based research is utilized to develop comprehensive, cost-effective, least invasive, quality health care. Care includes health promotion counseling, screening, and patient education to optimize patient and family health. Emphasis is placed on critical thinking and diagnostic reasoning to guide clinical decision making. Management of patient illness includes ordering diagnostic tests, prescribing pharmacological and nonpharmacological integrative healing therapies, collaborating with other health professionals and community agencies, and pursuing appropriate follow-up. Practicum/field experience hours: 225. Prerequisite: FNP-630.

### FNP-654 $^{\Omega}$ : Family Primary Care II 7 credits

This course deepens its focus on the three levels of prevention and comprehensive primary care management of individuals with common, acute, and chronic conditions across the life span within a culturally and spiritually diverse environment. Learners integrate evidence-based research in the development of comprehensive, cost-effective, least invasive, quality health care. Care includes health promotion counseling, screening, and patient education to optimize patient and family health. Learners further advance their critical thinking and diagnostic reasoning skills to guide clinical decision making in the management of patient illness. Learners also further develop their competence in ordering appropriate diagnostic tests, prescribing pharmacological and nonpharmacological integrative healing therapies, collaborating with other health professionals and community agencies, and pursuing appropriate follow-up. Practicum/field experience hours: 225. Prerequisite: FNP-652.

## FNP-690<sup>\Omega</sup>: Practicum and On-Campus Experience II

This practicum course is the final synthesis of the theoretical and clinical foundation of advanced practice nursing in the primary care management of individuals and families across the life span. Emphasis is placed on scope of practice, roles, contract negotiation, prescriptive authority, licensure, certification, and credentialing. Updates on legislation and health policy are incorporated utilizing multidimensional clinical case studies. Learners also examine ethical issues that arise in clinical practice. This course includes a required 2-day, on-campus experience. Practicum/field experience hours: 225. Prerequisite: FNP-654.

7 credits

### FNP-690CE $^{\Omega}$ : FNP-690 On-Campus Experience II 0 credits

This practicum course is the final synthesis of the theoretical and clinical foundation of advanced practice nursing in the primary care management of individuals and families across the life span. Emphasis is placed on scope of practice, roles, contract negotiation, prescriptive authority, licensure, certification, and credentialing. Updates on legislation and health policy are incorporated utilizing multidimensional clinical case studies. Learners also examine ethical issues that arise in clinical practice. This course includes a required 2-day, on-campus experience. Practicum/field experience hours: 225. Prerequisite: FNP-654.

### FNP-690NCE: FNP-690 On-Campus Experience II 0 credits

This practicum course is the final synthesis of the theoretical and clinical foundation of advanced practice nursing in the primary care management of individuals and families across the life span. Emphasis is placed on scope of practice, roles, contract negotiation, prescriptive authority, licensure, certification, and credentialing. Updates on legislation and health policy are incorporated utilizing multidimensional clinical case studies. Students also examine ethical issues that arise in clinical practice. This course includes a required 1-day, on-campus experience. Practicum/field experience hours: 225. Prerequisite: FNP-654.

### Forensic Science (FOR)

## FOR-150: Critical Analyses in Forensic 4 credits Science

This course introduces the analysis skills required for scientific problems. Critical thinking in relation to problem solving is practiced from the viewpoint of forensic scientists. Students will study approaches to inquiry, reasoning, and logic as applied to forensic science, the systematic use of data to make critical decisions, and the expectations of graduate schools and forensic science careers.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### FOR-505: Ethical Principles in Forensic 4 credits Science and the Role of QA and QC

This course will cover the Code of Ethics statements published by major forensic science organizations. The role quality assurance and quality control (QA/QC) principles play in maintaining high ethical principles is discussed. Issues involving failure to maintain QA/QC and resulting ethical dilemmas will also be addressed. Accreditation and its place within the crime laboratory is included to provide students with a well-rounded understanding of the importance of maintaining quality within the laboratory.

## FOR-515: Crime Scene Processing and 4 credits Medicolegal Death Investigation

This course introduces students to the various procedures used to document, collect, package, and preserve evidence found at crime scenes. The body as it pertains to medicolegal death investigation with an examination of the guidelines for death scene investigations is also discussed. Concepts such as maintaining chain of custody, ethical considerations, and report writing are also covered. Prerequisite: FOR-505.

### FOR-525: Applied Statistics for Forensic 4 credits Science

This course provides an introduction to the use of statistics within various forensic disciplines. Analytical sampling, basic statistical analyses, and uncertainty measurements are covered with respect to comparative disciplines. Statistics as applied to the analysis of DNA evidence, including probability of inclusion, likelihood ratio, and random match probability are also covered. The impact of statistics on the valuation of evidence is included.

## FOR-530: Microscopy and Instrumental 4 credits Analysis Methods in Forensic Science

This course provides an introduction to microscopy. Concepts such as compound, comparison, and scanning electron microscopy are covered. The course also covers instruments commonly used in the analysis of forensic evidence. Various chromatography, spectroscopy, and detection methods are covered in relation to the forensic evidence for which they are used. Prerequisite: FOR-515.

## FOR-540: Advanced Body Fluid and DNA 4 credits Analysis

In this course serological testing of blood, semen, and saliva is introduced through a discussion of various presumptive and confirmatory chemical tests. DNA profiling of various samples types is covered, with a focus on the processes used to obtain a DNA profile: extraction, quantification, amplification, and electrophoresis. The comparison of DNA profiles, report writing, and DNA mixture interpretation are also discussed. Prerequisites: One of the following combinations: FOR-515, FOR-525, and FOR-530, or CHM-360, CHM-360L, and BIO-457.

### FOR-560: General Principles of Drug 4 credits Chemistry and Forensic Toxicology

In this course students will learn various laboratory methods and procedures for the detection of drugs/controlled substances from both physical specimens and bodily fluids (blood and urine). Instrumental and chemical techniques used to separate, detect and quantitate controlled substances are discussed. The creation and detection of designer drugs is also covered. Prerequisites: FOR-515 and FOR-530, or CHM-231 and CHM-231L.

### FOR-575: Comparative Methods 4 credits

This course is dedicated to forensic comparative methods used in pattern-based evidence analysis. Forensic disciplines addressed include firearms and toolmark analysis, fingerprint comparisons, and shoe print and tire tread evidence. Prerequisites: FOR-515 and FOR-525 and FOR-530.

## FOR-600: Courtroom Presentation of 4 credits Scientific Evidence

This course focuses on the ways in which science is used by the criminal justice system and how to effectively present evidence in court. The impact of landmark court cases, including the Daubert and Frye decisions, are addressed in relation to expert witness testimony and the admissibility of scientific evidence. The role of the forensic scientist in relation to the Federal Rules of Evidence is also addressed. Students also learn how to be an effective expert witness, including how to prepare for testimony, how to properly convey scientific technology in layman's terms, and how to be perceived as a credible witness. Prerequisite: FOR-530, FOR-540, FOR-560, FOR-575.

## FOR-620: Advanced Topics in Forensic 2 credits Science

This course discusses various topics that students are likely to encounter as working forensic scientists. The ways in which the public views forensic science is addressed, with a focus on the CSI Effect and the publication of the National Academy of Sciences (NAS) Report and the President's Council of Advisors on Science and Technology (PCAST) Report. Ways in which to address conflicting results from multiple experts is discussed. Prerequisite: FOR-530, FOR-540, FOR-560, FOR-575.

### Fire Science (FSC)

## FSC-180: Fire and Emergency Services 4 credits Administration

This course is a progressive primer for students who want more knowledge about fire and emergency services administration. The course demonstrates the importance of the following skills that are necessary to manage and lead a fire and emergency services department through the challenges and changes of the 21st century: persuasion and influence, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems. A central part of the course focuses on how the leadership of a fire and emergency services department develops internal and external cooperation to create a coordinated approach to achieving the department's mission.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## FSC-285: Political and Legal Foundations for 4 credits Fire Protection

This course examines the legal aspects of the fire service and the political and social impacts of legal issues. This course includes a review of the American legal system and an in-depth coverage of legal and political issues involving employment and personnel matters, administrative and operational matters, planning and code enforcement, and legislative and political processes with regard to the fire service.

### FSC-310: Personnel Management for the Fire 4 credits Service

This course examines relationships and issues in personnel administration and human resource development within the context of fire-related organizations, including personnel management, organizational development, productivity, recruitment and selection, performance management systems, discipline, and collective bargaining.

### FSC-340<sup>\(\Delta\)</sup>: Applications of Fire Research 4 credits

This writing intensive course examines the basic principles of research and methodology for analyzing current fire-related research. The course also provides a framework for conducting and evaluating independent research in the following areas: fire dynamics, fire test standards and codes, fire safety, fire modeling, structural fire safety, life safety, firefighter health and safety, automatic detection and suppression, transportation fire hazards, risk analysis and loss control, fire service applied research, and new trends in fire-related research.

### FSC-400: Fire Prevention 4 credits

This course empowers students with knowledge, methods, and concepts for effective leadership of comprehensive fire-prevention and risk-reduction programs.

### FSC-415: Community Risk Reduction for the 4 credits Fire and Emergency Services

This course provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk-reduction plan.

### FSC-450: Fire Service Ethics 4 credits

This course examines the basic principles of ethics as related to fire service operations and management with special attention given to current issues in the fire service.

### FSC-490<sup>△</sup>: Fire Science Capstone 4 credits

This writing intensive course includes a culminating project that shows what students have learned while in the program. Students demonstrate the application of skills required of leaders in modern fire service agencies.

### Game Development (GDT)

### **GDT-110:** Game Engine Architecture

4 credits

This course offers a deep dive into the architecture of game engines. Students will explore how engines are designed and optimized for various platforms and will have the opportunity to build their own game engine components. Prerequisites: MAT-154 and GDT-115 or GMC-100.

### **GDT-115:** Introduction to Game Engines 4 credits

This course serves as an introductory exploration of game engines, focusing on the industry's most popular engines. Students gain hands-on experience with game engines, learning how to create interactive and immersive gaming experiences. The course will cover fundamental game development concepts, tools, and workflows, enabling students to build a solid foundation for more advanced game development courses. Prerequisite: MAT-144 or MAT-154.

### **GDT-115XV:** Introduction to Game Engines 4 credits

This course serves as an introductory exploration of game engines, focusing on the industry's most popular engines. Students gain hands-on experience with game engines, learning how to create interactive and immersive gaming experiences. The course will cover fundamental game development concepts, tools, and workflows, enabling students to build a solid foundation for more advanced game development courses. Prerequisite: MAT-144 or MAT-154.

## GDT-120: Virtual Reality and Game 4 credits Development

This course introduces students to the rapidly evolving world of virtual reality and its integration into game development. The course focuses on the principles, tools, and techniques required to create immersive and interactive VR gaming experiences. Students explore various VR platforms and technologies, gaining hands-on experience in developing virtual reality games from concept to implementation. Upon completion, students will have a solid foundation in VR game development, enabling them to conceptualize, design, and build their own immersive and interactive virtual reality gaming experiences. The course prepares students to embrace the challenges and opportunities in this rapidly expanding field, making them well-equipped to contribute to the future of VR game development and interactive storytelling. Prerequisites: MAT-154 and GMC-100.

### GDT-205: AI for Game Developers 4 credits

The course delves into the fascinating world of artificial intelligence (AI) and its applications in game development. Students learn how to design, implement, and optimize AI systems that enhance the gameplay experience, create intelligent non-player characters (NPCs), and simulate lifelike behaviors. By the end of the course, students will possess the skills to craft immersive and challenging game worlds that adapt intelligently to player actions. Prerequisite: GDT-115.

### GDT-210<sup>t</sup>: Real-time Network Programming 4 credits

This advanced course focuses on real-time network programming, vital for online and multiplayer games. Students will learn complex network architectures and real-time communication protocols. Prerequisite: GDT-110, GDT-115.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course equips students with the skills and knowledge necessary to create interactive and engaging games for mobile platforms, such as smartphones and tablets. Throughout the course, students explore the unique challenges and opportunities presented by mobile game development, learning to optimize game design, user experience, and performance for a diverse and rapidly-evolving mobile landscape. Through hands-on projects and real-world examples, students gain practical experience in mobile game development, culminating in the creation of their own mobile game. By the end of the course, students will be well-prepared to pursue careers in the mobile gaming industry or independently develop and publish their own mobile games. Prerequisite: GDT-210.

## GDT-220: Augmented Reality and Game 4 credits Development

This course introduces students to the exciting field of augmented reality and its integration with game development. Through this course, students explore the core concepts and techniques required to design and create interactive and immersive AR gaming experiences, fostering practical knowledge in developing AR applications that blend virtual content seamlessly with the real world, opening up a world of possibilities for innovative and immersive gaming experiences. Students work on practical AR game development projects, allowing them to apply the knowledge gained in class to create their own interactive AR gaming experiences. By the end of the course, students will have a comprehensive understanding of AR technology and be well-equipped to contribute to the exciting and rapidly evolving field of AR game development. Prerequisite: GDT-120.

### **GDT-225:** Advanced Graphics Programming 4 credits

This course dives deep into graphics programming techniques, focusing on creating cutting-edge visuals and effects within game environments. Students master various graphics algorithms, shader programming, and GPU optimization techniques. Prerequisite: GDT-120.

## GDT-305: Advanced Game Testing and 4 credits Debugging 4

This course teaches advanced testing and debugging methods to ensure high-quality game development. Students learn automated testing, performance profiling, and error handling. Prerequisite: GDT-215, GDT-220.

## GDT-310: Game Security and Anti-Cheat 4 credits Technology

This course covers the crucial aspects of security in game development, with a focus on implementing anti-cheat measures and protecting intellectual property. Prerequisite: GDT-205, GDT-215.

### GDT-315: Multiplayer Game Development 4 cred

This course offers a comprehensive exploration of the principles and techniques involved in creating multiplayer experiences within games. Students gain a deep understanding of the technologies and methodologies used to design and implement various multiplayer architectures, enabling them to develop engaging, real-time, and socially interactive games for a diverse player base. Throughout the course, students work on hands-on projects, collaborating with others to build functional multiplayer games from the ground up. They also gain insights into the challenges of multiplayer game development, such as handling network issues, preventing cheating, and ensuring a fair and enjoyable experience for all players. By the end of the course, students will have the knowledge and skills to embark on exciting multiplayer game development projects and contribute to the ever-evolving world of online gaming. Prerequisite: GDT-305, GDT-310.

### GDT-320: Game Physics and Simulation 4 credits

This essential course introduces students to the fundamental principles of physics and their practical application in game development. Students explore how physics engines and simulations contribute to creating realistic and immersive gaming experiences. Through hands-on projects and experiments, students gain the knowledge and skills to develop dynamic, interactive, and physics-based game mechanics. They also have the opportunity to apply the principles they learn to develop interactive prototypes and small-scale games that showcase physics-based gameplay. By the end of the course, students will possess a strong foundation in game physics and simulation, enabling them to craft more engaging, dynamic, and immersive gaming experiences for players. Prerequisite: GDT-225.

### GDT-405<sup>‡</sup>: Advanced Game Programming 4 credits

This is an intensive course designed to take students' game development skills to the next level. Students delve into the complexities of game programming, focusing on advanced topics such as artificial intelligence, graphics rendering, networking, and more. By mastering these advanced concepts, students are better equipped to create high-quality, sophisticated games that push the boundaries of what is possible in the gaming industry. Through hands-on projects and assignments, students apply their knowledge of advanced game programming concepts to create polished and technically impressive game projects. This course equips students with the expertise to tackle ambitious game development projects and prepares them to excel in demanding roles within the game development industry. Prerequisite: GDT-315, GDT-320.

### Game Creation (GMC)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

4 credits

This course provides students with an in-depth understanding of the gaming industry landscape. Students explore market trends, different sectors within the industry, and various career paths. Additionally, students analyze emerging technologies and future trends shaping the industry. By the course's end, students are equipped with the knowledge and insights needed to navigate the gaming industry and contribute to innovative game design. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### GMC-101: Game Design 4 credits

This course is an introduction to the conceptual thinking framework required for the conceptualization and design of games, whether analog or digital. This is not a programming or illustration course. Students will learn to understand game theory, present a game concept, why that concept will work with the audience, and what makes a compelling game for the user. Foundational digital tools will be introduced. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu.

#### GMC-110: Visual Art for Games 4 credits

A compelling game has compelling art. This foundational course is designed to introduce students to the world of visual design and art in the context of game development. Students will learn the design tools used for creation of the game pitch, concept presentation, and understand the workflow for creation or editing of art used in games, both analog or digital. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-101.

#### GMC-200 $^{\Delta t}$ : World Building 4 credits

This world building course explores the art and science of creating immersive game worlds. Students learn about narrative development, environmental design, level layout, and interactive storytelling, and they establish skills in conceptualizing and visualizing game worlds. Students develop a broad understanding of the technical aspects and hardware constraints of world building and conceptualize captivating and cohesive game worlds that enhance the overall gameplay experience. This is a writing-intensive course. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-100.

Game Creation 1 is an introductory course that provides students with a foundation in the key principles and skills necessary for game development. Through a combination of theoretical knowledge and hands-on projects, students learn the basics of game design, programming, and art creation. They explore topics such as game mechanics, level design, character development, and prototyping. By the end of the course, students will have created their own small game, gaining valuable experience in the game creation process. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-200.

#### **GMC-352**<sup>△</sup>: Game Creation 2 4 credits

This writing-intensive course builds upon the knowledge gained in Game Creation 1, Game Creation 2 is an intermediate-level course that dives deeper into game development concepts and techniques. Students expand their skills in areas such as advanced game mechanics, artificial intelligence, advanced level design, and multiplayer implementation. Through challenging projects and collaborative work, students further enhance their game development abilities and develop a more sophisticated understanding of the game creation process. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-351.

#### GMC-400: Game Promotion and Marketing 4 credits

This course layers an understanding of marketing and promotion into the game industries. Topics covered may include how to build in person and online communities around a game franchise; developing expanded brand components; planning and presentation of live events including conferences, challenges, and live streaming; and the integration of public relations and publicity to promote the growth of game products. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-200.

#### GMC-451<sup>\*</sup>: Game Creation 3 4 credits

Game Creation 3 is an advanced course that focuses on refining and polishing the skills necessary to create high-quality games. Students engage in in-depth exploration of topics such as advanced storytelling, advanced graphics and rendering techniques, optimization strategies, and immersive experiences (e.g., virtual reality or augmented reality). They undertake complex game projects that require advanced problem-solving and creative solutions, pushing the boundaries of their game development abilities. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-352.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **GMC-452:** Game Creation 4

4 credits

This course is the last of a series of four courses where design students and programming students work together to practice the design and production of games to develop a portfolio of projects. Best practices are instilled for finalizing and showcasing work completed in the program, presenting an engaging portfolio and job-hunting plan. Technology requirement: Students are responsible for providing their own laptop that is capable of running the Adobe Creative Cloud. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: GMC-451.

### Government (GOV)

#### GOV-140<sup>♦</sup>: American Government and Politics 4 credits

This course is an introduction to American government and politics. It covers the constitutional foundations and governing institutions of the federal government. Throughout the course, students address common political themes, such as the nature and scope of governance, democracy, citizenship, and patterns of political behavior.

#### GOV-140XV: American Government and Politics 4 credits

This course is an introduction to American government and politics. It covers the constitutional foundations and governing institutions of the federal government. Throughout the course, students address common political themes, such as the nature and scope of governance, democracy, citizenship, and patterns of political behavior.

# GOV-210\*: Introduction to Comparative 4 credits Government and International Politics

This course compares and contrasts various systems of government in Western and non-Western countries, and explores political and diplomatic processes and how they affect international relations, nations, and localities.

## GOV-260: Arizona Constitution & 1 credits Government

This course is a survey of the Arizona constitution and government. It meets the teacher certification requirement for Arizona government.

#### GOV-307<sup>/♠</sup>: Introduction to Political Theory 4 credits

This course examines the political processes that determine who gets what, when, and how in society, and explores the issues and concepts that are used to develop and critique political theories. The classics as well as the more contemporary expressions of political thought are introduced.

### GOV- Introduction to Political Theory 4 credits 307HN<sup>/♦</sup>:

This course examines the political processes that determine who gets what, when, and how in society, and explores the issues and concepts that are used to develop and critique political theories. The classics as well as the more contemporary expressions of political thought are introduced.

#### **GOV-351**<sup>♦</sup>: Public Administration

4 credits

This course explores the theory and practice of governmental administration at the national, state, and local levels and the implementation of legislation. It examines the role of the bureaucracy in the federal government and the states.

#### GOV-357\*: Philosophy of Law

4 credits

This course is an introduction to topics in legal philosophy, including but not limited to the foundations of law, the relation of law and morality, law and ethics, whether persons have a duty to obey the law, the nature of property, the reasonableness of punishment, and the role of constitutions in law. Readings will be drawn from both historical and contemporary sources.

### GOV-358\*\*: Research Methods in Government 4 credits and Politics

This course introduces the qualitative and quantitative methods used to research and study politics including hypothesis testing, inference, and causal reasoning. Prerequisite: GOV-140.

## GOV- Research Methods in Government 4 credits 358HN<sup>\*•</sup>: and Politics

This course introduces the qualitative and quantitative methods used to research and study politics including hypothesis testing, inference, and causal reasoning. Prerequisite: GOV-140.

#### GOV-360♦: Civil Law 4 credit

This course provides an overview of the broad field of civil law, giving students a contemporary, practical understanding of the different fields of civil law. The course also provides analytical techniques for resolving legal problems.

#### GOV-364<sup>\*</sup> Public Policy Analysis 4 credit

This course covers public policymaking in American federal government. It focuses on the impact of policy on public opinion, the media, interest groups, and governing institutions within the executive, the legislative, and the judicial branches. Prerequisite: GOV-140.

### GOV- Public Policy Analysis 4 credits 364HN<sup>/♦</sup>:

This course covers public policymaking in American federal government. It focuses on the impact of policy on public opinion, the media, interest groups, and governing institutions within the executive, the legislative, and the judicial branches. Prerequisite: GOV-140.

### GOV-366<sup>♦</sup>: State and Local Government 4 credit

This course focuses on the structures, processes, and policy outputs of state and local governments in the United States, with special reference to Arizona political, social, and economic environments. Prerequisite: GOV-140.

### GOV-376\*: Municipal Government and 4 credits Administration

This course studies the development of city government in the United States; the governmental organization of several typical cities; the problems of taxation, law enforcement, health, housing, welfare, planning, and zoning; and the future of cities.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **GOV-378**<sup>△/•</sup>: American Constitution

4 credits

This writing intensive course surveys the development of the American Constitution from colonial origins to the present. Constitutional law in the broader framework of political philosophy is discussed. Major themes in this course are federalism, the doctrine of separation of powers, and the impact of Supreme Court decisions on society. Prerequisite: GOV-140.

## GOV- American Constitution 4 credits 378HN<sup>/♦</sup>:

This writing intensive course surveys the development of the American Constitution from colonial origins to the present. Constitutional law in the broader framework of political philosophy is discussed. Major themes in this course are federalism, the doctrine of separation of powers, and the impact of Supreme Court decisions on society. Prerequisite: GOV-140.

#### GOV-455<sup>♦</sup>: Practice of Law 4 credits

This course focuses on three major areas of success required to become a successful legal practitioner: legal reasoning and analysis, practical legal research and writing, and "soft" skills of the legal profession such as the ability to gather information from persons and to communicate with persons in the legal arena. Prerequisite: GOV-357.

### **GOV-459** $^{\Delta\Omega}$ : Government Capstone 4 credits

This writing intensive course provides a broad overview of careers at the federal, state, and local levels of governing bodies and agencies. The course explores the role of a bureaucrat, legislative aid, lobbyist, or campaign worker. Issues that are unique to legislatures that make the law, and to public agencies that implement and enforce the law are also explored. This course examines selected theoretical and empirical topics in government. This course represents the culmination of undergraduate study within government. This capstone course needs to be completed at the end of program. This capstone course needs to be completed at the end of program. Prerequisites: GOV-364, GOV-307, GOV-358, GOV-378, GOV-140, and GOV-210.

#### GOV-467\*: Special Topics in Federal-State- 4 credits Local Relations

This course analyzes contemporary topics in federalism. Topics will vary but may include case studies on environmental, health care, transportation, and homeland security policies. Prerequisites: GOV-366 and GOV-376.

#### GOV-498: AZ Legislative Internship 12 credit

An opportunity for students to practice principles learned in their program of study while serving as interns for the Arizona Legislature. Interns work under the supervision of a staff member in either the Arizona House of Representatives or the Arizona State Senate. This course requires students to complete internship hours. Practicum/field experience hours: 540. Prerequisite: College Approval Required.

### Greek (GRK)

#### **GRK-501:** Elementary Greek I

4 credits

This course introduces the grammar of New Testament Greek with an emphasis on the vocabulary and morphology of the New Testament and the use of linguistic tools for the translation and interpretation of selected passages.

#### GRK-601: Greek II

4 credit

This course completes an introduction to the grammar of New Testament Greek with an emphasis on the vocabulary and morphology of the New Testament and the use of linguistic tools for the translation and interpretation of selected passages. Prerequisite: GRK-501.

# Health Care Administration (HCA)

#### **HCA-240**♦: Health Care Accounting and Billing 4 credits

This course introduces learners to the fundamental principles of finance, accounting, and budgeting within the context of the health care industry. Learners examine the various business units, roles, and structures involved in health care planning, budgeting, and accounting. Financial measurements and data analytics for managing costs and productivity are also explored.

#### HCA-255<sup>♦</sup>: Health Care Policy and Economic 4 credits Analysis

This course offers a broad overview of health care policy and the impact of government legislation on health care delivery. Students explore ways that economic forces, political trends, and changing social priorities influence policy development that directly impacts health care access, cost, and quality.

## HCA-360: Health Information Technology 4 credits and Management

This course provides information and skills the health care administrator will require to integrate information technology and systems within the health care environment. Students examine basic components and functions of health care management information systems (HMIS) that work to manage data and resources which influence point-of-care decision-making by providers. Issues surrounding privacy, security, efficiency, and effectiveness of health care operations are also explored.

#### HCA-450<sup>\*</sup>: Quality in Health Care 4 credits

This course focuses on the knowledge and skills necessary to achieve quality outcomes in patient care. Through analysis and interpretation of quality and performance data, students develop strategies for quality improvement. Emphasis is placed on performance management tools, patient safety protocols, and process controls to ensure both quality and efficiency.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### HCA-450HN<sup>‡</sup>: Quality in Health Care

4 credits

This course focuses on the knowledge and skills necessary to achieve quality outcomes in patient care. Through analysis and interpretation of quality and performance data, students develop strategies for quality improvement. Emphasis is placed on performance management tools, patient safety protocols, and process controls to ensure both quality and efficiency.

## HCA-455<sup>4</sup>: Organizational Behavior and Leadership in Health Care

This course introduces students to behavioral science concepts, as they apply to organizational structure, process, and function. Students explore the manager's role in relation to motivating teams and developing strategies for improving operational workflow and efficiencies. Effective communication, collaboration, negotiation, conflict resolution, and decision-making are emphasized.

## HCA-455HN\*: Organizational Behavior and Leadership in Health Care

This course introduces students to behavioral science concepts, as they apply to organizational structure, process and function. Students explore the manager's role in relation to motivating teams and developing strategies for improving operational workflow and efficiencies. Effective communication, collaboration, negotiation, conflict resolution and decision-making are emphasized.

### HCA-460<sup>\*</sup>: Operations and Risk Management 4 credits in Health Care

This course introduces students to the roles of local, state, and federal regulatory agencies and accrediting bodies; the enforcement of federal guidelines, standards, and regulations; and the issues and demands of the regulatory environment that affect health care in the United States. Students explore the legal responsibility of providers and agencies to provide a safe environment while delivering health care services.

## HCA-460HN<sup>t</sup>: Operations and Risk Management 4 credits in Health Care

This course introduces students to the roles of local, state, and federal regulatory agencies and accrediting bodies; the enforcement of federal guidelines, standards, and regulations; and the issues and demands of the regulatory environment that affect health care in the United States. Students explore the legal responsibility of providers and agencies to provide a safe environment while delivering health care services.

### HCA-465: Health Care Administration and 4 credits Management

This course introduces students to the management of human resources, with particular focus on resource decision making in health care environments. Students explore job market analysis, talent recruitment, training and development, revenue recovery efforts through retention initiatives, diversity training, and technology readiness. Students demonstrate health care management skills by utilizing tools used to manage staffing and work productivity.

## HCA-470<sup>∆/</sup>: Strategic Planning and Implementation in Health Care

4 credits

This writing-intensive course introduces students to key business functions that drive strategic planning. Models for developing, implementing, and evaluating effective programs across varied health care settings are explored along with the principles of merger, acquisition, reorganization, and joint venture. Students apply tools utilized in strategic management of health care programs such as balanced score cards, LEAN, and Six Sigma.

## HCA- Strategic Planning and 4 credits 470HN $^{\Delta f}$ : Implementation in Health Care

This writing intensive course introduces students to key business functions that drive strategic planning. Models for developing, implementing, and evaluating effective programs across varied health care settings are explored along with the principles of merger, acquisition, reorganization, and joint venture. Students apply tools utilized in strategic management of health care programs such as balanced score cards, LEAN, and Six Sigma.

### HCA-515: Analysis of Contemporary Health 4 credits Care Delivery Models

This course allows learners to develop a comprehensive understanding of contemporary health care models from financial, economic, quality, access, and disparity perspectives, and to relate the ethical, cultural, political, and financial factors that drive and support them. It is from this broad, integrative, and comparative perspective that learners begin defining their role and perspective as administrators within the health care system. Learners begin to investigate their options and define their potential to serve as leaders of systematic improvement, within their health care discipline, based on changes in these driving factors.

### HCA-530: Health Care Policies and 4 credits Economics

This course focuses on health care economics and policy. The core principles of health economics are studied, and learners begin to explore practical financial-analysis skills that have immediate application within the health care industry. Learners also study managerial decision-making processes based on cost, service, and other economic variables as well as how those decisions influence outcomes. Learners investigate health care policy and reform to understand the impact it makes on everyday practices of health care organizations.

## HCA-540: Health Care Research Methods, 4 credits Analysis, and Utilization

This course focuses on the critical analysis of health care research and its application to the administration and delivery of health care services. Emphasis is placed on strategies to access current and relevant data, synthesize the information, and translate new knowledge into practice. Learners are introduced to concepts of measurement, reliability, and validity, as well as ethical issues in the design and conduct of research through an evaluative process of health care initiatives and projects.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### HCA-545: Organizational Structure, Dynamics, and Effectiveness

4 credits

This course focuses on the analysis of health care organizational structure and effectiveness. Topics include the distributive leadership model, decision making through collaboration and teamwork, and the integrative analysis of how change impacts other components of the system.

### HCA-610: Essential Health Care Business 4 credits Analysis

This course focuses on the critical analyses of health care business operations and performance. Topics include analysis of financial performance, operational process analysis, and quality of service evaluation.

# HCA-615: Human Resource Management and 4 credits Marketing Communication Strategies

This course focuses on essential managerial communication skills. Human resource topics include conflict management, negotiation, mediation, and coaching, as well as change management principles and the types of communication required for paradigm modification. Interdepartmental, cross-discipline, and external partner marketing topics are included. Consumer communication and collaboration techniques are also discussed.

### HCA-616: Networking and Professional 2 credits Readiness

This course is designed to prepare students to meet the professional standards of practice related to their future discipline within the industry. Emphasis is placed on critical thinking, utilization of resources, communication strategies, and goal setting. Students prepare a professional portfolio and resume. Students apply various networking techniques and practical interview skills to ensure professional readiness for their chosen health care careers.

## HCA-620: Business/Project Plan Evaluation 4 credits and Development

The focus of this course is to begin integrating all previous study and to identify the focus of students' final capstone project. Students evaluate and integrate the methodologies, considerations, and strategies for project or program design, planning, implementation, and evaluation that are relevant or specifically required by their specific health care discipline. Topics of investigation and consideration include (but are not limited to) financial and economic impact; resource allocation; competition; public and private educational requirements; availability of information technology; impact assessment of change; process improvement assessment; social, behavioral, and environmental impact; legal/ethical issues; and any other factors that impact the provision of care or subsequent outcomes within an organization and community. A collaborative group project approach is emphasized to enhance contribution and consideration from diverse experiences within the health care field. Prerequisite: HLT-610, HCA-610, or HIM-650.

#### HCA-650: Evidence-Based Research Project 4 credits

This capstone course provides an opportunity for learners to complete the development of a comprehensive evidence-based project, plan, or proposal that addresses a problem, issue, or concern in their professional practice and can be implemented upon completion of the program. Projects address a problem amenable to research-based intervention; include a relevant and comprehensive literature review; propose a solution; and include a fully developed program, project, or business plan. The project also contains all the necessary information to implement the proposed solution, evaluate its outcome(s), and disseminate the findings. Prerequisite: Successful completion of all courses in the program except HCA-670.

### HCA-670: Health Care Administration 4 credits Practicum

This course promotes the synthesis and application of knowledge and skills from the Master of Health Administration (MS-HA) program. Learners identify a mentor and develop a relationship through which they examine the connection between theory and practice. Learners engage in leadership and administrative activities (e.g., committees, projects, staff education, and quality improvement) and, through reflection and writing, analyze and evaluate leadership behaviors and processes. Practicum/field experience hours: 150. Prerequisite: Successful completion of all previous coursework in the program.

#### HCA-675: Health Care Innovation 4 credits

This course provides an opportunity for students to envision the best possible future for the American health care system, and to understand what changes are necessary to achieve it. By focusing on and developing a set of recommendations for improving American health care, students appreciate the difference between forcing a current system to work harder, and redesigning a system in order to achieve desired outcomes. Students learn how transactional leaders can become transformational leaders, and begin the formal process of preparing for their capstone research project. Students gain understanding of how clinical data, knowledge, and practice are driving the development of health care surveillance systems through informatics. Topics of investigation include the role of informatics in improved patient care and research, organization and national bio-surveillance, and clinical decision support. Consideration is given to legal and regulatory issues in private and public health practice and as they apply to public health security and preparedness in response to bioterrorism and disasters. Prerequisite: HCA-620.

#### HCA-680: Leadership in Health Care 4 credits

In this course, learners study key leadership principles and skills critical to their development as health care professionals capable of leading change initiatives that align with the strategic vision of health care organizations and the evolving landscape of health care. Learners assess their own leadership qualities, an organization's readiness for change, and barriers that may affect the adoption of innovations and quality improvement processes. The course emphasizes systems thinking while learners work toward honing problem-solving, teamwork, and communication skills necessary for leading initiatives within health care organizations.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### HCA-699 $^{\Omega}$ : Evidence-Based Research Project 4 credits

This capstone course provides an opportunity for learners to complete the development of a comprehensive evidence-based project, plan, or proposal that addresses a problem, issue, or concern in their professional practice and can be implemented upon completion of the program. Projects address a problem amenable to research-based intervention; include a relevant and comprehensive literature review; propose a solution; and include a fully developed program, project, or business plan. The project also contains all the necessary information to implement the proposed solution, evaluate its outcome(s), and disseminate the findings. Prerequisite: HCA-675.

### HCA-807: Structures and Governance in 3 credits Health Care

This course provides learners with an overview of the various governance structures in the health care industry and their connections with leadership. Public, private, non-profit, and for-profit governance structures are examined. Public and private reimbursement options are reviewed. Prerequisite: RES-811 or RES-850.

#### HCA-812: Health Care Regulation 3 credits

This course provides an overview of many levels of regulation in the health care industry. These include state boards, medical boards, professional boards, and the federal government. Various organizational and self-regulatory measures are presented, and the impact of mandatory and voluntary measures are discussed.

#### HCA-817: Professional Development and 3 credits Leadership in Health Care

The course explores the connection between leadership and professional development with a focus on assisting employees in achieving personal potential. The course promotes creating a culture of shared values and ownership to promote a standard of organizational excellence.

## HCA-822: Building a Culture of Community 3 credits in Health Care

The course discusses the importance of assessing the current culture of an organization as well as how the concept of collaboration is employed as a means for building a culture of community in health care. Systems thinking and interprofessional teaming are presented as strategies for building a collaborative community.

## HCA-827: Sustainability of Health Care 3 credits Organizations

The course addresses how continuous improvement guides organizations to promote change and innovation as a means of being viable and sustainable.

### Health Informatics (HCI)

#### **HCI-600:** Foundations of Informatics

4 credits

This course introduces fundamentals of the U.S. health care system and the role and value of informatics in the practice of evidence-based research and medicine. Students learn key concepts of health care information infrastructure, systems, technologies, applications, and data standards that are critical for optimizing patient care. Students also examine how health care providers and caregivers use technology, information, and knowledge to improve patient care, administration, research, and education across the rapidly evolving health care system.

#### HCI-655: Electronic Health Records 4 credits

This course prepares learners to evaluate, implement, and optimize electronic health record (EHR) technology to support the management and use of clinical data. Learners examine the architecture of EHRs and analyze the challenges of their design and use, including system integration requirements, distributed user bases, storage of complex data, high security requirements, and the diverse information needs of various end users. Learners also apply project management techniques to the planning and implementation of EHRs. Prerequisite: HIM-650.

#### HCI-660: Health Data Analytics 4 credits

This course introduces techniques for extracting data and creating knowledge from health care data sets. Learners examine methods for describing, summarizing, and presenting data. There is specific focus on understanding the needs of information users, identifying organizational objectives, and ensuring that the analytical methodology chosen meets those needs. Prerequisite: HIM-650.

### HCI-665: Health Information Systems 4 credits Security

This course examines the security, privacy, and compliance issues that guide the design and use of health information systems and health care data. Learners analyze the regulatory environment and differentiate the regulations, laws, and ethical practices that guide information governance and the uses of data with particular emphasis on patient confidentiality and privacy. Information security tools and strategies for risk assessment, third-party risk management, and audits are also examined. Prerequisite: HIM-615.

### HCI-670: User Interface Design for 4 credits Informatics

In this course, learners apply principles of human factors engineering to the design of optimal user interfaces that improve clinical processes. Learners examine clinical decision support and clinical workflow analysis, modeling, reducing data entry errors, and usability testing in efforts to improve the experience of end users while prioritizing patient safety and the delivery of quality health care.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### HCI-690: Health Informatics Applied Project 4 credits and Practicum

This course provides learners the opportunity to integrate what they have learned in the program in an applied project related to a major area of health informatics, such as health information management, information systems, or health informatics.

Learners are expected to demonstrate leadership and advanced critical-thinking and problem-solving skills in the development of a comprehensive and professional project plan and solution that is grounded in current informatics research and methods.

Practicum/field experience hours: 150. Prerequisite: Successful completion of all previous coursework in the program.

### Hebrew (HEB)

#### **HEB-101**♦: Elementary Biblical Hebrew 4 credits

This course is designed to teach students to read biblical Hebrew. It is an introduction to the language of the Hebrew Bible. It focuses on the vocabulary, grammar, and cultural aspects of biblical Hebrew with a goal of translation at a beginning level. Students translate the book of Ruth.

#### **HEB-102**<sup>♠</sup>: Elementary Hebrew Exegesis 4 credits

This course is a continuation of HEB-101. Students continue translating sections of the Hebrew Bible at a basic level focusing on such books as Genesis, Amos, and the poetical books. Prerequisite: HEB-101.

#### **HEB-501:** Elementary Hebrew I 4 credits

This course introduces biblical Hebrew with a focus on grammar, syntax, vocabulary, and the use of linguistic tools for the translation and interpretation of selected passages.

#### HEB-601: Hebrew II 4 credits

This course completes an introduction to biblical Hebrew with a focus on grammar, syntax, vocabulary, and the use of linguistic tools for the translation and interpretation of selected passages. Prerequisite: HEB-501.

### Health Care Informatics (HIM)

## HIM-200<sup>f</sup>: Principles and Practices of Health 4 credits Information Management

This course surveys the field of health information management. Students investigate potential career paths and learn the fundamental medical, legal, ethical, and professional issues and standards affecting the field. The course also includes an overview of the health care industry, hospital operations, and electronic health records and documentation standards and practices.

### HIM-200HN<sup>i</sup>: Principles and Practices of Health 4 credits Information Management

This course surveys the field of health information management. Students investigate potential career paths and learn the fundamental medical, legal, ethical, and professional issues and standards affecting the field. The course also includes an overview of the health care industry, hospital operations, and electronic health records and documentation standards and practices.

#### HIM-310: Clinical Data Classification 4 credits

This course introduces the functions and relationships between health care classification systems, vocabularies, terminologies, and standards required for the privacy, security, storage, utilization, and standardization of clinical data. Students differentiate systems for clinical classification and coding as well as for various health information exchange models. Prerequisites: BIO-192, BIO-192L, and HIM-200.

### HIM-350: Classification of Diagnostic Data 4 credits

This course introduces the principles of and industry guidelines for diagnostic classification systems in health care settings. Focus is on the application of classification systems in health care facilities. Students examine types of diagnostic classification systems and coding guidelines as well as practice coding. Prerequisites: BIO-330 and HIM-310.

#### HIM-355: Classification of Procedural Data 4 credits

This course introduces the principles and industry guidelines for procedural classification systems in health care settings. Focus is on the application of classification systems in health care facilities. Students examine types of procedural classification systems and coding guidelines as well as practice coding. Prerequisites: BIO-330 and HIM-310.

#### HIM-370<sup>†</sup>: Health Care Information Systems 4 credits

In this course students evaluate health information systems architecture and data storage design and apply concepts of the systems design life cycle in order to facilitate the use of information assets to meet strategic goals and objectives within health care organizations. Students also assess information systems to ensure compliance with regulatory requirements and examine information security measures including performing risks assessments, data protection, and recovery procedures. Prerequisite: HIM-310.

#### HIM-410: Fundamentals of Health Care 4 credits Informatics Lecture & Lab

This course examines the history, application, impact, and future need for informatics in health care. Emphasis is placed on standards, processes, and systems that impact areas of evidence-based medicine, administrative and clinical practices, information infrastructure, security, and electronic health records. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on initial exposure to the computer systems, software tools, and processes used in health care informatics Prerequisites: BIO-181, BIO-181L, ITT-200, CST-217, and CST-307.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## HIM-412: Health Care Information Systems 4 credits and Technology Lecture & Lab

This course examines the application of information systems in health care settings, beginning with an analysis of the broad meaning and nature of information and systems. The focus narrows to utilization of computer technologies, configurations, and applications as tools to benefit health care environments. Emphasis is placed on the challenges related to the development and implementation of effective information systems in light of a rapidly and continuously changing health care model, evolution of technology team member roles and responsibilities, and advancement of technological requirements within the health care system. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on interacting with health care information systems, security tools and protocols, and cross-industry interoperability. Prerequisites: ITT-200, CST-217, and CST-307.

#### HIM-415<sup>‡</sup>: Clinical Data Management 4 credits

This course focuses on the management and integration of health care data within health care organizations for ensuring the accuracy and accessibility of data used for reimbursement and in the revenue cycle. Students examine health care informatics standards and apply processes and techniques for collecting and reporting data to meet enterprise needs and for supporting clinical documentation and quality improvement initiatives. Prerequisites: HIM-350, HIM-355, and HIM-370.

#### HIM-415HN<sup>‡</sup>: Clinical Data Management 4 credits

This course focuses on the management and integration of health care data within health care organizations for ensuring the accuracy and accessibility of data used for reimbursement and in the revenue cycle. Students examine health care informatics standards and apply processes and techniques for collecting and reporting data to meet enterprise needs and for supporting clinical documentation and quality improvement initiatives. Prerequisites: HIM-350, HIM-355, and HIM-370.

## HIM-425: Principles of Health Care 4 credits Administration and Leadership

This course focuses on principles related to management and administration of health information services with emphasis on organizational culture, effective leadership and communication, and financial management. Students assess organizational and departmental needs, propose appropriate solutions, and apply project management techniques to foster efficient use of resources within health care organizations. Prerequisite: HIM-200.

#### HIM-430<sup>∆</sup>: Data Governance 4 credits

This writing-intensive course is a study of legal, ethical, and regulatory principles and frameworks that guide data governance within health care organizations. Students examine policy issues and current laws related to uses of health information and determine processes and organizational policies to effectively and ethically manage data and personal health information. Prerequisites: HIM-310 and HIM-370.

#### HIM-450: Health Care Data Management 4 credits Lecture & Lab

This course examines health care information resources and their impact on administrative functions, interfaces, data security and integrity, and business processes. Topics include: use of relational database management software to construct tables, develop forms, create and execute queries, design and deploy reports, and advance database concepts to automate contemporary business processes. Students are able to distinguish between various network hardware technologies and associated data communication protocols in order to direct how organizations design and implement data networks. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on building SQL databases and performing basic CRUD operations: create data, retrieve data, update data, and delete data. Prerequisites: ITT-200, CST-217, and CST-307.

### HIM-452: Quality Management in Health 4 credits Care

In this course students apply quality assessment techniques, quality management tools, and performance improvement processes to recommend measures to improve quality and patient care and safety. Students participate in clinical information analysis through mining, exploring, and analyzing clinical data to recognize trends that demonstrate quality, safety, and effectiveness and identify best practices for the management of health care information, systems, and quality to support organizational decision making. Prerequisite: HIM-415.

### HIM-484: Innovations in Health IT Lecture & 4 credits Lab

This course provides students with a broad view of enabling information technologies in the health-care related industries. Students analyze how IT improves economy of scale, increases efficiency, widens access to education and self-care, and facilitates integration of local and cloud-based systems. Students examine solutions using cross-disciplinary knowledge in the health care ecosystem, including health economics, decision support, operational effectiveness, automation, insurance exchanges, and regulatory compliance. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on interaction with a variety of systems, tools, simulators, and websites. Prerequisites: ITT-200, CST-217, and CST-307.

## HIM-490 $^{\Omega}$ : Health Information Management 4 credits Capstone

The capstone course provides students with the opportunity to integrate and synthesize the knowledge and skills acquired throughout their coursework in the health information management program. Students complete an applied project that demonstrates critical thinking and attainment of professional health information management competencies. Practicum/field experience hours: 80. Prerequisites: HLT-364, HIM-425, and HIM-452.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### HIM-515: Foundations and Concepts of Health Care Informatics

4 credits

This course examines the history, application, impact, and future need for informatics in health care. Emphasis is placed on standards, processes, and systems that impact areas of evidence-based medicine, administrative and clinical practices, information infrastructure, security, and electronic health records.

### HIM-615: Health Care Information Systems 4 credits and Technology

This course examines the application of information systems in health care settings, beginning with an analysis of the broad meaning and nature of information and systems. The focus narrows to utilization of computer technologies, configurations, and applications as tools to benefit health care environments. Emphasis is placed on the challenges related to the development and implementation of effective information systems in light of a rapidly and continuously changing health care model, evolution of technology team member roles and responsibilities, and advancement of technological requirements within the health care system.

#### HIM-650: Health Care Data Management 4 credits

This course examines health care information resources and their impact on administrative functions, interfaces, data security and integrity, and business processes. Topics include use of relational database management software to construct tables, develop forms, create and execute queries, design and deploy reports, and advance database concepts to automate contemporary business processes. Learners are able to distinguish between various network hardware technologies and associated data communications protocols in order to direct how organizations design and implement data networks. Prerequisites: HIM-515, HCI-600, or NUR-514; and HIM-615.

### History/Social Science (HIS)

#### HIS-110<sup>♦</sup>: World History Themes 4 credits

This course surveys global civilizations from Africa and the Americas to Eurasia as an overview of the principal cultural, political, and economic themes that shaped world civilization.

#### HIS-144<sup>♦</sup>: U.S. History Themes 4 credits

This course provides an overview of the principal political, economic, and cultural themes and constitutional developments that shaped the United States from the Colonial period into the 20th Century.

#### HIS-231<sup>♦</sup>: American Military History 3 credits

On demand. A survey of the development of the American military and militia system from its English origin through the present. The principles of warfare and military leadership, the soldier's experience on the battlefield, and the place of the military within the American democracy are threads of continuity woven by the instructor through the course. Prerequisite: Instructor's approval.

### HIS-255<sup>△</sup>•: Historical Research and Applied 4 credits Methods

This writing intensive course focuses on research methods used in historical research and writing, and application of theories and methodologies to the analysis of historical materials. Emphasis is placed on research, writing, and critical thinking in historical contexts.

### HIS-304: Methods of Teaching History in Secondary Schools 4 credits

The goal of this course is to provide history teacher candidates with the knowledge and skills needed to teach history in secondary classrooms. Teacher candidates explore current research—based pedagogical practices for teaching history, connecting educational theory to specific innovative engagement practices for diverse learning populations. History teacher candidates also are given opportunities to design instruction that engages secondary students in historical inquiry, examines processes for selecting primary and secondary source historical content, and uses authentic assessments to measure student learning. Practicum/field experience hours: 15. Fingerprint clearance required.

#### HIS-306♦: Historians in Theory and Practice 4 credits

This course introduces the study of history as a scholarly discipline, emphasizing significant historians, subdisciplines of the field, and the foundational methodological and theoretical tools of historians.

#### HIS-325<sup>♦</sup>: Ancient Mediterranean History 4 credits

This course examines the historical and cultural developments of ancient worlds including Egypt, Greece, and Rome with an emphasis on social, political, and economic developments.

#### HIS-327<sup>♦</sup>: Community History 4 credits

This course examines the techniques, sources, and methods of collecting and presenting history at the local level. Emphasis is placed on how communities create memory and historical records, and their uses for students, educators, researchers, and communities.

#### HIS-337♦: Material Culture and Museums 4 credits

This course provides a broad introduction to the field of material culture and museum studies. Students use techniques of applied history to learn from objects and study the way museums create exhibits, conserve artifacts, and teach history through material culture.

#### HIS-347<sup>♦</sup>: Historic Preservation 4 credits

This course provides a survey of historic preservation and cultural resource management. Topics covered include the field's history; methods, and practices through the methods of applied history in environmental law and conservation; and current practices in management of historic sites, structures, and neighborhoods.

### HIS-350<sup>♦</sup>: Survey of Asian Empires 4 credits

This course provides a historical survey of Asia, including India, China, Southeast Asia, Korea, and Japan. Emphasis is placed on political, economic, and social developments.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### HIS-380<sup>/♠</sup>: Renaissance and Reformation 4 credits

This course examines the intellectual and religious developments of Europe between the 13th and 16th centuries including Renaissance Italy and Reformation Germany with an emphasis on social, political, and economic developments.

#### HIS-380HN<sup>\*</sup> : Renaissance and Reformation 4 credits

This course examines the intellectual and religious developments of Europe between the 13th and 16th centuries including Renaissance Italy and Reformation Germany with an emphasis on social, political, and economic developments.

#### HIS-386<sup>△</sup>•: War and Revolution 4 credits

This writing intensive course examines the political, economic, and social aspects of selected wars and revolutions. It provides a comparative study of social conflicts with an emphasis on the patterns of individual and collective action, violence, and social changes. Prerequisite: HIS-255.

#### HIS-387♦: Public History Seminar 4 credits

This course covers various topics in public history, which may include archives and records management, historical interpretation, cultural tourism, oral history, and other fields/applications of history in public spheres.

#### HIS-426<sup>/♠</sup>: 20th Century Europe 4 credits

This course examines the political, economic, and social developments of European history in the 20th century from the foundations of late 19th century unification through the struggles of globalization and terrorism at the beginning of the 21st century. Emphasis is placed on the impact of two world wars, totalitarianism, the decline of empire and the Cold War.

#### HIS-426HN<sup>≠</sup>: 20th Century Europe 4 credits

This course examines the political, economic, and social developments of European history in the 20th century from the foundations of late 19th century unification through the struggles of globalization and terrorism at the beginning of the 21st century. Emphasis is placed on the impact of two world wars, totalitarianism, the decline of empire and the Cold War.

#### HIS-450<sup>/♠</sup>: U.S. History Since 1945 4 credits

This course examines the principal social, political, economic, and global events that have shaped the American experience during the Cold War era. Prerequisite: HIS-386.

#### HIS-450HN<sup>\*</sup>. U.S. History Since 1945 4 credit

This course examines the principal social, political, economic, and global events that have shaped the American experience during the Cold War era. Prerequisite: HIS-386.

#### HIS-463<sup>♦</sup>: Women in History 4 credits

This course compares the political, social, economic, and cultural history of women in societies, focusing on contrasting experiences of women across time, geographic regions, and cultures. Prerequisite: HIS-386.

#### HIS-466<sup>†</sup>♦: Southwest Borderlands

4 credits

This course examines the political, social, economic, and cultural history of the Southwest Borderlands region, focusing on topics related to the American West, Native Americans, frontier/colonial theory, environment, and Chicana/o history. Prerequisite: HIS-386.

#### HIS-466HN<sup>≠</sup>: Southwest Borderlands 4 credits

This course examines the political, social, economic, and cultural history of the Southwest Borderlands region, focusing on topics related to the American West, Native Americans, frontier/colonial theory, environment, and Chicana/o history. Prerequisite: HIS-386.

#### HIS-477♦: Historical Administration 4 credits

This course provides a broad overview of careers for administrators of museums, historical societies, archives, special collection libraries, and other cultural resource agencies. The course explores the role of an administrator as the head of an organization or as a mid-level manager. Issues that are unique to public or nonprofit agencies that collect, preserve, and share cultural resources are also explored. Prerequisite: HIS-337 or HIS-347.

## HIS-510: Concepts in Understanding World 4 credits History

This course examines world history as a set of thematic concepts, highlighting the significant historiographical questions, examples, and resources for study of historical global themes such as population; economic networks; power, authority, and government; class, race, and gender; cultural expression; science, technology, and environment; and spiritual life and moral codes

### HIS-530: Applied Studies in History 4 credits Graduate Education 4

This course introduces students to applied studies in history. Students have opportunities to engage in applied (public) history practice with focus toward using these methods in the classroom. Emphasis is placed on the resources and opportunities provided by museums, historic places, and archives for teaching secondary and postsecondary courses.

### HIS-544: Concepts in Understanding U.S. 4 credits History

This course examines U.S. history as a set of thematic concepts, highlighting the significant historiographical questions, examples, and resources for study of historical themes such as migration and immigration; religious and philosophical thought; the republic and democracy; industrialization, business, and labor; prosperity and consumerism; reform movements and social justice; and war and society in U.S. history.

#### HIS-555: Studies in the American West 4 credits

This course investigates the history of the American West as both a region west of the Mississippi River, and an ideology that shaped cultures, economics, and politics, from frontier to modern America. Using historiography and applied research, students examine the diverse cultures and dynamics that made the American West a unique place in American history.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## HIS-565: Historical Perspectives of Race, 4 credits Class, Gender, & Ethnicity

This course explores historical perspectives of race, class, gender, and ethnicity as lenses of stratification, identity, and experience that shape the historical record. Through historiography and applied research, students examine the contextual perspectives of race, class, gender, and ethnicity that shape our understanding of the past.

### HIS-570: Graduate Research Seminar in 4 credits History

This course prepares students for advanced research in history with the intent on publication. Students will engage the resources, methods, and problems of graduate-level research, investigate the literature and historiography of topics in their area of interest, and develop a plan for sustained research, publication, and professional participation in their field of study.

### Health Education (HLT)

#### HLT-205<sup>♦</sup>: Health Care Systems and 4 credits Transcultural Health Care

This course introduces the student to organizational dynamics and the complex structures of the U.S. health care system. Students consider social, historical, and political influences that have shaped the modern health system and examine the mechanisms that enable access, delivery, and financing of health services. This course also considers the ever-growing global perspective of health care as students explore the health perspectives of varied racial, ethnic, religious, and socioeconomic groups.

## HLT-302 $^{\Delta \diamondsuit}$ : Spirituality and Christian Values in 4 credits Health Care and Wellness

This writing-intensive course explores the concepts of health, wellness, and spirituality from the Christian perspective and as they relate to the holistic needs of patients, providers, and health care communities. Students reflect upon the concepts of healing and the caregiver's role in meeting the spiritual needs of diverse populations while seeking to advance health and wellness within the context of a healing paradigm.

#### HLT-305<sup>♦</sup>: Legal and Ethical Principles in 4 credits Health Care

This course introduces students to major ethical theories, principles, and decision-making models that form the basis for resolution of ethical dilemmas in the health care field. Guidelines for legal and ethical practice are also examined from the context of regulatory requirements established by accrediting and certifying agencies.

#### **HLT-306V**♦: Advanced Patient Care

3 credits

This course offers an advanced approach to patient care, patient education, and patient management within the health care facility and the outpatient clinic. It considers more than the patients' physical needs and addresses the patient as a part of the treatment or diagnostic plan. Upon completion of the course, the student should be able to demonstrate communication skills with different patient populations, such as various cultures, religions, ages, and levels of ability, to participate and discuss the approaches the health care professional should use to best interact with each of these groups.

### HLT-307V: Professional Dynamics and Allied 3 credits Health Professions

This course identifies allied health professionals and their involvement with all aspects of health care delivery and the collaborative health care team. This course also considers the role and scope of allied health as well as the interdisciplinary approach to care intended to meet the needs of a complex and changing health care system.

## HLT-308V\*: Risk Management and Health Care 3 credits Regulations

This course introduces students to local, state, and federal statutes that regulate the administration of safe health care. Students explore the legal responsibilities of the health care facility in providing workplace safety and protection from injury for patients, families, and staff. The course examines the roles and responsibilities of the risk management department within an organization. At the end of this course, students should be able to explain the ethical and legal responsibilities of health care professionals related to risk management assessment and policies.

### HLT-312V\*: Ethics for Health Care 3 credits Professionals

This course introduces students to major ethical theory, principles, and models for the recognition, analysis, and resolution of ethical dilemmas in health care practice. Students learn how to approach ethical dilemmas using theoretical frameworks and decision-making processes. Through the use of case studies, students are introduced to health topics such as patients' rights, dilemmas of life and death, allocation of health care resources, and special dilemmas of health care professionals. This course also includes a review of classic cases in health care ethics and how they have shaped health policy. An overview of patient education and ethics and a discussion on the professional codes of ethics and standards are also part of this course.

# HLT-313V: Safety, Quality, and 3 credits Interdisciplinary Approaches to Care

This course examines the relationship between health care quality and organizational performance from an interdisciplinary approach to care. The student is introduced to the rationale for performance management and the role of the health care organization in ensuring compliance with the standards of accreditation. The methods for assuring quality in process and outcome through management are addressed along with trends in the provision and reimbursement of health care services. Students are introduced to changing trends in reimbursement of health care services as related to risk management.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **HLT-314V** •: Health Care Systems

3 credits

This course provides an understanding of the factors shaping the present and future health care delivery system. Students learn about the aging population in the United States and ways in which the health care system is planning and forecasting for the upcoming needs of aging consumers. Additionally, shifting costs, health care environments, and technological advancements are examined for trends and potential areas of opportunity. Innovative organizational models are explored and analyzed as they continue to develop and shape the future of health care delivery.

### HLT-317V\*: Communication and Application of 3 credits Research in Practice

This writing intensive course introduces students to the purpose of research as applied in health care. Students examine the role of various research methods, including evidence-based practice, in communicating with patients and providers to improve health care. Students identify and develop the skills necessary to communicate effectively in the areas of interpersonal communication, group dynamics, diversity, motivation, team building, and conflict resolution.

#### **HLT-324V**♦: Transcultural Health Care 3 credits

This course explores meanings and expressions of health, illness, caring, and healing transculturally. Focus is on understanding and developing professional competence in caring for individuals, families, groups, and communities with diverse cultural backgrounds. Culture is examined as a pervasive, determining "blueprint" for thought and action throughout the human health experience. Patterns of human interaction that foster health and quality of life are analyzed, and health destroying patterns of interaction (e.g., stereotyping, discrimination, and marginalization) are examined and submitted to moral and ethical reflection.

## HLT-362V\*: Applied Statistics for Health Care 3 credits Professionals

This is an introductory course on concepts of statistics, emphasizing applications to health care professions. The course is designed to prepare learners to understand concepts of statistics and the appropriateness of statistical methods used in published research papers and a variety of settings. Areas of emphasis include an introduction to the statistical analysis concepts of variable/reliability factors; P values; experimental design; descriptive statistics, including mean, median, and mode; sampling methods; and power analysis.

# HLT-364<sup>△♦</sup>: Research and Communication 4 credits Techniques in Health Care and Science

This writing intensive course discusses the principles and processes of research and common communication techniques utilized in health care and science. This course allows students to begin the research and preliminary background process necessary to complete a research-based capstone project. Students conduct a literature review, investigate appropriate research design, explore data collection techniques, apply statistical analysis, and practice professional writing skills. Prerequisite: BIO-365 or MAT-274.

### HLT-381\*: Contemporary Public Health Issues 1 credits

This course provides students an opportunity to explore and analyze current public health issues affecting the nurse leader. Public health nurse leaders are at the forefront of local and global health care challenges and are dedicated to promoting and protecting the health of populations. Students explore the evolving roles of public health nurse leaders, including advocacy, health education and promotion, and collaboration with agencies and community members, in the context of current public health issues. Students gain an understanding of the competencies that prepare nurses to take leadership roles in the development of community- or population-focused solutions to impact health and illness patterns.

### HLT-418V\*: Trends and Issues in Health Care 3 credits

The course explores the impact of numerous professional and societal forces on health care policy and practice. Content includes an analysis of current studies; health care policy and position statements; political, environmental, and cultural issues; and changing health care roles. The study of these issues examines the impact on health care delivery systems in society.

### HLT-485\*: Methods of Teaching Health and Measuring in Exercise Science 4 credits

This course is a study of the methods and procedures of teaching health. Resources, aids, and agencies are studied in an attempt to determine how they may best assist the teacher. Practice teaching is included. Tests and measurements in health, physical education, and exercise science are presented. Emphasis is placed on producing valid and reliable tests, data analysis techniques for test evaluation, test construction assessment, and interpretation of test results. Prerequisites: BIO-155 and BIO-155L.

#### **HLT-490V**<sup>ΔΩ•</sup>: Professional Capstone Project 3 credit

This writing-intensive course facilitates a professional capstone project that is the culmination of the learning experience of students in the Bachelor of Science in Health Care Sciences program. In this course, students identify a current issue in health care and provide a written proposal to address that issue. Additionally, students use evidence-based research and apply theory to practice. Students create an evidence-based project plan and prepare to propose a full implementation plan to current or future employers.

#### HLT-494<sup>∆</sup>: Professional Capstone Project 4 credits

This writing-intensive course facilitates a professional capstone project that is the culmination of the learning experiences of students in the health care administration program. In this course, students design a professional digital portfolio that documents career readiness through the integration of knowledge, skills, experience, and creative pursuits that prepare students for work in in health care. In addition, students prepare a written proposal for their evidence-based capstone project focusing on the resolution of issues or problems significant to health care administration. Upon completion, students present capstone projects to a professional at a health care organization. Prerequisite: HCA-

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### HLT-520: Legal and Ethical Principles in 4 credits Health Care

This course focuses on the recognition, analysis, and resolution of ethical dilemmas in health occupations. Students examine legal liabilities involved in health care administration, including workplace safety and a health care facility's obligation to provide protection from injury for patients, their families, and staff.

## HLT-610: Networking and Professional 2 credits Readiness

This course is designed to provide learners with the foundational knowledge, skills, resources, and guidance to prepare for professional health care standards related to their future discipline within the industry. Emphasis is placed on critical thinking, awareness and identification of resources, communication strategies, and goal setting. Learners apply learned face-to-face and electronic networking techniques and tactics to ensure professional readiness along with gaining knowledge of professional standards. Learners prepare a professional portfolio and resume, and learn practical interviewing techniques to prepare for entry into/advancement within their chosen discipline-specific health care careers.

#### HLT-665 $^{\Omega}$ : Public Health Practicum 4 credits

The practicum course is designed to provide students an opportunity to transition from theory to practice. The student reinforces and integrates concepts, principles, and skills gained during coursework that are essential to professional competency. Students are required to complete a minimum of 150 hours of onsite work under close supervision of a faculty member and an onsite preceptor approved by the college or university. Practicum/field experience hours: 150. Prerequisites: HLT-605 and a release by the college's Office of Field Experience.

### Honors (HON)

### HON-106B: Freshmen Symposium & Seminar – 0 credits ENGINEERING

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

### HON-106C: Freshmen Symposium & Seminar – 0 credits CS/IT

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

### HON-106D: Freshmen Symposium & Seminar - 0 credits CONHCP

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

### HON-106E: Freshmen Symposium & Seminar – 0 credits Education

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### HON-106F: Freshmen Symposium & Seminar – 0 credits Business

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### HON-106G: Freshmen Symposium & Seminar – 0 credits COT

This symposium course takes place during freshman year and gives students the opportunity to gain more understanding of the process of applying to graduate and medical programs. Throughout this course, students conduct extensive review of the graduate and medical school application process for their respective careers, including understanding which specified exam is relevant for their future program and methodology to help them appropriately prepare. Additionally, students learn how to compile application artifacts such as a personal statement, resume, and letters of recommendation as well as prepare for the graduate and medical school interview process. Prerequisite: Acceptance into the honors program.

### HON-106H: Freshmen Symposium & Seminar – 0 credits Biology and Environmental Studies

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### HON-106I: Freshmen Symposium & Seminar – 0 credits Fine Arts & Digital Arts

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### HON-106J: Freshmen Symposium & Seminar – 0 credits Justice Studies, Government & Humanities

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### HON-106K: Freshmen Symposium & Seminar – 0 credits Psychology, Sociology & Behavioral Health

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### HON-106L: Freshmen Symposium & Seminar – 0 credits Forensics

This honors symposium takes place during freshmen year and builds upon the discussion of ethics, service, leadership, multicultural awareness and innovative, accelerated thinking that is discussed in other first-year courses in the honors program. Students investigate real world problems, and brainstorm creative solutions to make an impact on the local and global community. Prerequisite: Acceptance into the honors program.

#### **HON-110:** Honors Symposium 0 credits

The honors symposium takes place during the first year and builds upon the topics of ethics, service, leadership, research, cultural awareness, and innovative thinking that are discussed in other first-year courses in the honors program. Students explore their respective industry, investigate and discuss local and global issues within that industry, and brainstorm and propose solutions to real-world problems experienced within the industry. This course further integrates professional development and guidance into preparing students for a future career within their respective industry. Prerequisite: Acceptance into Honors College.

#### HON-206: Sophomore Symposium on Service: 0 credits Human Connections

This honors symposium takes place during the sophomore year, builds upon discussion regarding service from prior honors courses and examines the idea of service through religious and historical texts. This symposium examines the Great Questions as they relate to the impact of service on the human condition. Prerequisite: Acceptance into the honors program.

#### **HON-206B:** Project Management Fellowship 0 credits

This symposium course takes place during sophomore year and incorporates hands-on, mentored training experiences in various fields of study. Students contribute directly to current projects, business proposals, and project management experiences. This symposium also incorporates basic project management skills. Prerequisite: Acceptance into the honors program.

### HON-206C: Research & Design Program 0 credits

This symposium course takes place during sophomore year and includes hands-on, mentored training experiences in each science, engineering, and technology. Students are expected to contribute directly to current research and design projects being led by faculty while learning techniques and various methodologies. Prerequisite: Acceptance into the honors program.

#### **HON-206D:** Global Studies and Service 0 credits

This symposium course takes place during sophomore year and builds upon local or global service among diverse populations, study abroad, and mission trip experience. This symposium investigates multicultural awareness, and includes a reflective approach on integrated experiential learning, personal development, disciplinary knowledge, and spiritual growth through active, global involvement. Prerequisite: Acceptance into the honors program.

#### HON-206E: Internship 0 credits

This symposium course takes place during sophomore year and builds upon internship experience. This symposium explores professional development, and includes a reflective approach on integrated experiential learning, personal development, and disciplinary knowledge through active involvement. Prerequisite: Acceptance into the honors program.

## HON-206F: Career Planning and Professional 0 credits Development

This symposium course takes place during sophomore year and builds upon themes of career and professional development. This symposium explores brand building, professional and leadership development, effective communication, and developing a professional portfolio for the workplace. Prerequisite:

Acceptance into the honors program.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### HON-206G: Graduate and Medical School Preparation

0 credits

This symposium course takes place during sophomore and gives students the opportunity to gain more understanding of the process of applying to graduate and medical programs. Throughout this course, students conduct extensive review of the graduate and medical school application process for their respective careers, including understanding which specified exam is relevant for their future program and methodology to help them appropriately prepare. Additionally, students learn how to compile application artifacts such as a personal statement, resume, and letters of recommendation as well as prepare for the graduate and medical school interview process. Prerequisite: Acceptance into the honors program.

#### HON-306: Junior Symposium on Leadership: 0 credits The Last Shall Be First

This honors symposium takes place during the junior year, examines the qualities of leadership through readings and presentations and investigates the Great Questions as they relate to the concept of leadership. Prerequisite: Acceptance into the honors program.

#### **HON-306B:** Project Management Fellowship 0 credits

This symposium course takes place during junior year and incorporates hands-on, mentored training experiences in various fields of study. Students contribute directly to current projects, business proposals, and project management experiences. This symposium also incorporates basic project management skills. Prerequisite: Acceptance into the honors program.

#### HON-306C: Research & Design Program 0 credits

This symposium course takes place during junior year and includes hands-on, mentored training experiences in each science, engineering, and technology. Students are expected to contribute directly to current research and design projects being led by faculty while learning techniques and various methodologies. Prerequisite: Acceptance into the honors program.

#### **HON-306D:** Global Studies and Service 0 credits

This symposium course takes place during junior year and builds upon local or global service among diverse populations, study abroad, and mission trip experience. This symposium investigates multicultural awareness, and includes a reflective approach on integrated experiential learning, personal development, disciplinary knowledge, and spiritual growth through active, global involvement. Prerequisite: Acceptance into the honors program.

### HON-306E: Internship 0 credits

This symposium course takes place during junior year and builds upon internship experience. This symposium explores professional development, and includes a reflective approach on integrated experiential learning, personal development, and disciplinary knowledge through active involvement. Prerequisite: Acceptance into the honors program.

### HON-306F: Career Planning and Professional 0 credits Development

This symposium course takes place during junior year and builds upon themes of career and professional development. This symposium explores brand building, professional and leadership development, effective communication, and developing a professional portfolio for the workplace. Prerequisite: Acceptance into the honors program.

## HON-306G: Graduate and Medical School 0 credits Preparation

This symposium course takes place during junior year and gives students the opportunity to gain more understanding of the process of applying to graduate and medical programs. Throughout this course, students conduct extensive review of the graduate and medical school application process for their respective careers, including understanding which specified exam is relevant for their future program and methodology to help them appropriately prepare. Additionally, students learn how to compile application artifacts such as a personal statement, resume, and letters of recommendation as well as prepare for the graduate and medical school interview process. Prerequisite: Acceptance into the honors program.

### HON-320: Career Planning and Professional 2 credits Development

This course furthers the study of ethics, service, leadership research, cultural awareness, and innovative thinking. Students deepen their understanding of the five approaches to leadership, develop their individual leadership philosophy, and create their career plan. Students work on strategies to build resilience in the face of challenges, understand the mindset shift from student to young professional, and explore lesser-known career and professional environment navigation skills.

#### **HON-355**♦: Academic Journal Writing 2 credits

This academic journal writing course takes place during the junior or senior year. This course integrates individual coaching in addition to an interactive workshop style environment. The expectation is that students will complete a rough draft of a manuscript documenting their scholarship based on the Boyer model. Writing guides will be provided, and the teaching faculty will aid students through the writing and publication processes. The goal will be to submit the manuscript to the Canyon Journal of Undergraduate Research (CJUR) for possible publication. Prerequisite: ENG-105 or its equivalent, Acceptance into the Honors College or actively enrolled in a qualified research program including the Research & Design Program or Canyon Emerging Scholars.

#### HON-380: Honors LSAT Preparation 2 credits

This LSAT Prep course takes place during the junior and senior year to introduce key concepts and content from the LSAT exam. Study activities for effective test-taking strategies and study plans are included. This course exposes students to the logical and analytical reasoning and reading comprehension structure of the LSAT exam and includes a proctored practice LSAT exam at the conclusion of the course. This course should be complementary to other LSAT preparation studies. Prerequisite: ENG-106 or its equivalent.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## HON-406: Senior Symposium on Research: 0 credits Ways of Thinking and Knowing

This honors symposium takes place during the senior year, builds upon the discussion of critical thinking and research from previous honors courses and examines the topics of research and knowledge. This symposium analyzes the Great Questions that examine ways of perceiving . Prerequisite: Acceptance into the honors program.

#### **HON-406B:** Project Management Fellowship 0 credits

This symposium course takes place during senior year and incorporates hands-on, mentored training experiences in various fields of study. Students contribute directly to current projects, business proposals, and project management experiences. This symposium also incorporates basic project management skills. Prerequisite: Acceptance into the honors program.

#### HON-406C: Research & Design Program 0 credits

This symposium course takes place during senior year and includes hands-on, mentored training experiences in each science, engineering, and technology. Students are expected to contribute directly to current research and design projects being led by faculty while learning techniques and various methodologies. Prerequisite: Acceptance into the honors program.

#### **HON-406D:** Global Studies and Service 0 credits

This symposium course takes place during senior year and builds upon local or global service among diverse populations, study abroad, and mission trip experience. This symposium investigates multicultural awareness, and includes a reflective approach on integrated experiential learning, personal development, disciplinary knowledge, and spiritual growth through active, global involvement. Prerequisite: Acceptance into the honors program.

#### HON-406E: Internship 0 credits

This symposium course takes place during senior year and builds upon internship experience. This symposium explores professional development, and includes a reflective approach on integrated experiential learning, personal development, and disciplinary knowledge through active involvement. Prerequisite: Acceptance into the honors program.

## HON-406F: Career Planning and Professional 0 credits Development

This symposium course takes place during senior year and builds upon themes of career and professional development. This symposium explores brand building, professional and leadership development, effective communication, and developing a professional portfolio for the workplace. Prerequisite: Acceptance into the honors program.

### HON-406G: Graduate and Medical School Preparation

This symposium course takes place during senior year and gives students the opportunity to gain more understanding of the process of applying to graduate and medical programs. Throughout this course, students conduct extensive review of the graduate and medical school application process for their respective careers, including understanding which specified exam is relevant for their future program and methodology to help them appropriately prepare. Additionally, students learn how to compile application artifacts such as a personal statement, resume, and letters of recommendation as well as prepare for the graduate and medical school interview process. Prerequisite: Acceptance into the honors program.

0 credits

### Hospitality (HOS)

#### **HOS-200:** Introduction to Hospitality 4 credit

This course introduces the hospitality industry and essential guest service and communication skills that ensure efficient delivery of quality services. Students are taught the skills necessary to effectively communicate, meet the service quality expectations of a diverse clientele, and appropriately represent their organizations.

### HOS-440: Hotel and Lodging Management 4 credits and Operations I

This course examines the management of hotel and lodging operations with an emphasis on guest service and improving profitability. Students are introduced to the basics of management in core lodging segments, operational procedures, guest relations, and the relationships between operational departments. Analysis of operational efficiencies to improve organizational outcomes is also addressed. Prerequisite: HOS-200.

### HOS-450: Hotel and Lodging Management 4 credits and Operations II

This course continues to examine the management of hotel and lodging operations with an emphasis on identifying industry trends to determine potential innovations, strategies, and quality management techniques that improve organizational outcomes and profitability. Innovation in the hotel and lodging industry is also addressed. Prerequisite: HOS-440.

#### **HOS-455:** Events and Tourism Management 4 credits

This course explores the scope of the events and tourism industry, analyzes the functions of the various segments, and demonstrates the relationship between professional service and operational success. Students receive a comprehensive introduction to the complexities of planning and organizing an event and an overview of the nature and scope of the meetings and event industry. This course explains how the interrelated sectors of the tourism industry can be better prepared to attract and service people travelling for both business and leisure. Prerequisite: HOS-440.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **HOS-460:** Food and Beverage Service Management and Operations

4 credits

This course emphasizes the daily operations and management of food and beverage service within the hospitality industry. Students learn principles related to the hiring and training of service workers, food handling and sanitation, layout and equipment planning, and safety regulations and standards. Essential elements of the course include purchasing and cost control, menu management, and innovation in the food and beverage industry. Prerequisite: HOS-200.

## HOS-466: Revenue Management for 4 credits Hospitality

This course focuses on identifying the components of revenue management in order to optimize consumer demand, revenue and profit for the hospitality industry. Students participate in competitive analysis to identify market opportunities and develop pricing and sales mix strategies that support organizational goals. Students learn analytical modeling practices, market segmentation, distribution channel mix, forecasting, and budgeting. The use of industry benchmarking tools and metrics relevant to revenue management are also addressed. Prerequisites: HOS-440 and HOS-460.

#### **HOS-470:** Hospitality Services Marketing 4 credits

This course introduces the unique features of services marketing with a focus on the importance of building and maintaining guest relationships to deliver quality service through the development of marketing strategies. Students will evaluate brand management and determine strategic approaches suitable for the hospitality industry with an emphasis on aligning strategies to organizational goals. There is a particular emphasis on the applications of social media and integrated marketing communications. Prerequisite: MKT-245 or MKT-315.

# Health Care Quality and Safety (HQS)

## HQS-610: Foundations of Quality 4 credits Improvement and Patient Safety

This course provides foundational knowledge that will equip learners to make decisions regarding quality improvement and patient safety. Learners explore the quality improvement process and examine the most commonly used models and tools for improving health care quality. Learners will also evaluate methods to track, assess, analyze, and review data relating to patient safety issues. Prerequisite: NUR-590 & NUR-630 or HCA-540.

### HQS-620: Project Management in Health 4 credits Care

This course examines the models and approaches of project management in health care settings. Learners demonstrate understanding of the project management process and its application to health care quality and safety initiatives. Learners gain skills to identify various stakeholders and roles, set goals and expectations, plan stakeholder engagement, and identify ways to mitigate obstacles in health care project management. Prerequisite: HQS-610.

### HQS-630: Implementation and Change 4 credits Management

This course examines components of implementing health care quality and safety initiatives. Learners examine the elements of change management, identify criteria for success in change areas, and plan phases and goals for implementation. Learners also consider change sustainability and dissemination of successful implementations. Prerequisite: HQS-620.

## HQS-640: Quality Improvement and Patient 4 credits Safety Practicum

This practicum course is the final synthesis of theoretical foundations of health care quality and patient safety and their application across health care settings. Emphasis is placed on issue identification, assessment and prioritization, project management, implementation, and evaluation. Learners also explore the application of communication methods, emotional intelligence, high reliability principles, and conflict resolution. Practicum/field experience hours: 150. Prerequisite: Successful completion of all previous coursework in the program.

### Human Resources (HRM)

## HRM-635: Acquiring, Developing, and Leveraging Human Capital 4 credits

The effective strategic management of human capital is the differentiator of every successful organization. This course examines talent management, workforce diversity, succession planning, employee development and motivation, and performance matrix. This course addresses human resource competencies identified by the Society of Human Resource Management (SHRM). Using the strong strategic human resource acumen provided by this course, students will be well-prepared for positions as senior human resources specialists or as general managers.

### HRM-640: Designing HR for Competitive 4 credits Advantage

Frequent mergers and acquisitions, downsizing, and globalization have increased the complexities of managing human resources. Linking human resource management to the bottom line and decision making is critical for both strategy and business success. This course addresses human resource competencies identified by the Society of HR Management (SHRM). Using the strong strategic HR acumen provided by this course, students will be well-prepared for positions as senior human resources specialists or as general managers.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# History and Theological Studies (HTH)

#### HTH-201<sup>♦</sup>: Christian Theology I

4 credits

This course is a study of theological methodology and the doctrines of revelation, God, humanity, sin, and the person of Jesus Christ with emphasis on the biblical bases for each doctrine.

#### HTH-202\*: Christian Theology II

4 credits

This course is a study of theological methodology and the doctrines of the works of Jesus Christ, salvation, the Holy Spirit, the Church, and last times with emphasis on the biblical bases for each doctrine.

### HTH-320♥: History and Theories of Spiritual 4 credits Formation

This course explores the history of spiritual formation practices and approaches in the church. Special attention is given to the theoretical and spiritual contours that shaped and influenced the historical development of spiritual formation movements as well as the biblical and theological foundations of formation practices seen throughout church history.

### HTH-330<sup>△</sup><sup>‡</sup> • Christian Ethics

4 credits

This writing-intensive course systematically studies the biblical, theological, and philosophical foundations of Christian ethics as compared with other ethical systems that shape public discourse on ethical issues. Emphasis is placed on personal morality and an exploration of contemporary issues relevant to the church's public witness.

### HTH- Christian Ethics 4 credits 330HN<sup>∆/♦</sup>:

This writing intensive course systematically studies the biblical, theological, and philosophical foundations of Christian ethics as compared with other ethical systems that shape public discourse on ethical issues. Emphasis is placed on personal morality and an exploration of contemporary issues relevant to the Church's public witness.

#### HTH-350<sup>♦</sup>: Survey of Historical Theology 4 credits

This course surveys the major developments within the history of Christianity that have shaped Christian doctrine. Emphasis is placed on key events, personalities, theological developments, and movements. Prerequisites: HTH-201 and HTH-202.

### HTH-352HN: Honors Survey of Historical 4 credits Theology

This honors-specific course surveys the major developments within the history of Christianity that have shaped Christian doctrine. Emphasis is placed on key events, personalities, theological developments, and movements. Prerequisites: HTH-201 and HTH-202. Prerequisites: HTH-201 and HTH-202.

#### HTH-380<sup>‡</sup>: Kingdom Diversity

4 credits

This course in historical theology explores the diverse voices and stories of ancient and modern saints whose lives have exemplified faith, hope, and love within the context of their unique time and circumstances.

#### HTH-475<sup>\*</sup>: Applied Theology

4 credits

This course focuses on the practical ministry application of theological principles. Special attention is given to theological reflection in respect to methodology, apologetics, ethics, and the mission of the church.

#### HTH-505: Systematic Theology I

l credit

This course is a systematic study of the biblical bases, historical development, and theological formulation of the Christian doctrines of revelation, God, creation, humanity, sin, and the Person of Christ, as well as their implications for individual and corporate Christian life. Attention is also given to theological prolegomena.

#### HTH-510: Christian History I

l credit

This course is a historical exploration of the Christian church's theological and institutional development from the postapostolic era to the early medieval era (100-1300) with emphasis on significant doctrinal statements, major thinkers and leaders, important political figures, and movements.

#### HTH-511: Christian History II

4 credits

This course is a historical exploration of the Christian church's theological and institutional development from the late medieval era to the late modern period (1300-2000) with emphasis on significant doctrinal statements, major thinkers and leaders, important political figures, and movements.

#### **HTH-515:** Christian Doctrines

4 credits

This course surveys cardinal doctrines of the Christian faith, including revelation, God, humanity, Christ, and salvation. Emphasis is placed on the development of sound theology grounded in biblical understandings and practical wisdom for ministry. Some attention is given to the historical development of doctrine.

### HTH- Christian Doctrines 515GAR:

4 credits

This course surveys cardinal doctrines of the Christian faith including revelation, God, humanity, Christ, and salvation. Emphasis is placed on the development of sound theology grounded in biblical understandings and practical wisdom for ministry. Some attention is given to the historical development of doctrine.

#### HTH-550: Systematic Theology II

4 credi

This course is a systematic study of the biblical bases, historical development, and theological formulation of the Christian doctrines of the works of Christ, salvation, the Holy Spirit, the church, and the last things as well as their implications for individual and corporate Christian life. Prerequisite: HTH-505.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### HTH-611 $^{\Omega}$ : Pastoral Theology

4 credits

This is a practically oriented, theological examination of the roles and responsibilities of ministers as they lead, equip, shepherd, and intercede for God's people. This course is offered in residency for non-traditional students. Prerequisite: HTH-505.

#### HTH-620: Practical Theology 4 credits

This course analyzes the practical dimensions of systematic theology and assists students in making critical connections between biblical teaching and ministry within specific contexts. Emphasis is placed on faithful biblically rooted ministry, including a focus on prayer, evangelism, discipleship, and church leadership. This course requires supervised ministry hours. Practicum/field experience hours: 45.

## HTH- Practical Theology 4 credits 620GAR:

This course analyzes the practical dimensions of systematic theology and assists students in making critical connections between biblical teaching and ministry within specific contexts. Emphasis is placed on faithful biblically rooted ministry, including a focus on prayer, evangelism, discipleship, and church leadership. This course requires supervised ministry hours. Practicum/field experience hours: 45.

#### HTH-640: Doctrine of the Church 4 credits

This course examines the biblical basis, history, and proper formulation of ecclesiology for the purpose of leading the church to display more fully God's glory through worship, ministry, and mission. Emphasis is placed on the application of biblical and theological principles within students' denominational heritage and ecclesial context. This course requires supervised ministry hours. Practicum/field experience hours: 45. Prerequisite: HTH-505.

# Hospitality and Tourism Management (HTM)

## HTM-200: Introduction to Hospitality and 4 credits Tourism 4

This course introduces the hospitality and tourism industries and essential guest service and communication skills that ensure efficient delivery of quality services. Students are taught the skills necessary to effectively communicate, meet the service quality expectations of a diverse clientele, and appropriately represent their organizations.

### HTM-200XV: Introduction to Hospitality and 4 credits Tourism 4

This course introduces the hospitality and tourism industries and essential guest service and communication skills that ensure efficient delivery of quality services. Students are taught the skills necessary to effectively communicate, meet the service quality expectations of a diverse clientele, and appropriately represent their organizations.

### HTM-440: Hotel and Lodging Management 4 credits and Operations

This course examines the management of hotel and lodging operations with an emphasis on guest service and improving profitability. Students are introduced to the basics of management in core lodging segments, operational procedures, guest relations, and the relationships between operational departments. Analysis of operational efficiencies to improve organizational outcomes is also addressed. Prerequisite: HTM-200.

## HTM-450: Food and Beverage Service 4 credits Management and Operations

This course emphasizes the daily operations and management of food and beverage service within the hospitality industry. Students learn principles related to market research, location selection, menu planning and design, financial management, restaurant layout, pricing, purchasing, managing staff, food safety, liquor liability, and menu engineering. An essential element of this course is learning how to turn around a failing restaurant. Prerequisite: HTM-200.

#### HTM-460: Event Management 4 credits

This course explores the scope of the events industry, analyzes the functions of an event or meeting planner and demonstrates the relationship between professional service and operational success. Students receive a comprehensive introduction to the complexities of planning and organizing an event and an overview of the nature and scope of the meetings and event industry. Prerequisites: HTM-440 or HOS-440, and HTM-450 or HOS-460.

### HTM-465: Revenue Management for 4 credits Hospitality

This course focuses on identifying the components of revenue management in order to optimize consumer demand, revenue and profit for the hospitality industry. Students participate in competitive analysis to identify market opportunities and develop pricing and sales mix strategies that support organizational goals. Students learn analytical modeling practices, market segmentation, distribution channel mix, forecasting, and budgeting. The use of industry benchmarking tools and metrics relevant to revenue management are also addressed. Prerequisites: HTM-440 and HTM-450.

### HTM-470: Club Management 4 credits

This course examines the unique elements required for successful private club operations, including governance, membership marketing, member services, recreational and sports activities, club facilities management, and financial performance. Students will gain hands-on experience creating club marketing campaigns, developing member events, and conducting club performance assessments. Prerequisite: HTM-460 or SPT-375.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### HTM-480: Tourism Management

4 credits

This course explains how the interrelated sectors of the tourism industry can be better prepared to attract and service people traveling for both business and leisure. Students develop strategies for destinations to responsibly manage tourists and their activities. The course will also examine the concept of destination marketing and its role in promoting places for tourism and hosting major events. Prerequisites: HTM-440, HTM-450, and HTM-460.

### Humanities (HUM)

### HUM- Knowledge and Technology in the 4 credits 109HN<sup>♦</sup>: Humanities

This introductory honors course explores humanity's relationships to science (knowledge) and applied science (technology). In particular, this course examines how advances in knowledge and technology have affected humanity. The course's method of exploration is how these relationships and advances have been represented and even conducted by the arts of time (music, dance, words), the arts of space (painting, sculpture, architecture), and combinations of media (television, cinema). Classroom practice of analyzing works of art throughout history lead to reflections on technology through different media.

### HUM- Intersections Between the 4 credits 201HN♦: Humanities and Sciences

An interdisciplinary Honors course that explores the common processes between the humanities and the sciences that yield common understandings. Topics will include genetics, ecology, technology and ethics, as seen through the lens of canonical and contemporary works from the arts and the humanities, as well as the social and natural sciences. Assignments will include quantitative analyses, multimodal presentations, and essays requiring critical and synthetic thinking.

### Innovation (INN)

### INN-812: Innovation and Organizational 3 credits Structures

Beginning with the notion that structures precede outcomes, this course explores the influence of organizational structure and culture on corporate entrepreneurial innovation. Consideration is given to innovation models and the history of innovation as well as the alignment of reward structures that promote innovation and corporate entrepreneurship.

#### INN-817: Designing Corporate Entrepreneurial Solutions

3 credits

Opportunities to innovate occur when the right individual is at the right place at the right time and is willing and able to seize opportunities. This course examines how to use established organizational structures to enable the process of identifying and rapidly prototyping disruptive innovations for the purpose of securing initial commitment.

## INN-822: Achieving Corporate 3 credits Entrepreneurial Commitment

Having successfully prototyped a disruptive innovation, the process of corporate entrepreneurship then requires committed support from internal and external stakeholders. This course examines the process and structure for transforming both skeptics and casual supporters to committed advocates. Consideration is given to enacting due diligence and a deliberate communication cadence.

## INN-827: Corporate Entrepreneurial 3 credits Complexity

In this course, learners will apply the complex corporate entrepreneurial skillset to recommend how to structure, prototype, communicate, advocate, and execute disruptive innovation. Specific attention is given to components of the execution phase of the corporate entrepreneurial process such as timing, structure development, and frequency and cadence of communication.

### Intercultural Ministries (INT)

#### INT-101: God-Centered Missions Lab 1 credits

This lab explores the "who" and the "why" of Christian missions in connection with short-term missions through an exploration of the mission of God in connection with each student's unique sense of calling and vocation. Coursework entails intentionally connecting God-focused missional awareness with active fact-finding and preparation for mission work within selected local and international contexts. This lab is designed to be an interactive, community experience which is not available via independent study.

#### INT-102: Cross-Cultural Missions Lab 1 credits

This lab prepares students to articulate and share the gospel with others through personal testimony, economic wisdom, basic biblical instruction, and discipleship with attention to the dynamics of communicating the Christian message across cultures. This lab is designed to be an interactive, community experience which is not available via independent study.

#### INT-201: Missional Skills Lab 1 credits

This lab equips students to progress from basic biblical discovery to missional engagement within the context of short-term missions through various skills-based projects and activities. This lab is designed to be an interactive, community experience which is not available via independent study.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### INT-202: Short-Term Missions Lab

1 credits

This lab focuses on constructing and implementing short-term missions strategies, such as medical education, children's ministry, youth ministry, and Christian service within various missional settings for the purpose of making disciples. This lab is designed to be an interactive, community experience which is not available via independent study.

#### INT-244<sup>♦</sup>: World Religions 4 cree

This course is a study of the major contemporary religions of the world including Abrahamic religions, Eastern religions, and other religions. The course covers religious texts, historical background, and current beliefs and practices. Emphasis is given to the ideological foundations of a Christian worldview, a comparison of worldviews, and the application of worldviews within a global society.

#### INT-310<sup>∆/•</sup>: Christianity in a Global Context 4 credits

This writing intensive course is a survey of global Christianity that examines the mission and purposes of God and His people among the nations. Emphasis is placed on the analysis of recent mission movements, best practices for mission strategies, and contemporary trends in global Christianity. Prerequisite: HTH-201.

## INT- Christianity in a Global Context 4 credits 310HN $^{\Delta i \Phi}$ :

This writing intensive course is a survey of global Christianity that examines the mission and purposes of God and His people among the nations. Emphasis is placed on the analysis of recent mission movements, best practices for mission strategies, and contemporary trends in global Christianity. Prerequisites: HTH-201 and HTH-202.

#### INT-320<sup>♦</sup>: Evangelism and Discipleship 4 credits

This course prepares students to listen carefully to a person of another religion or worldview in order to effectively tailor a gospel presentation that accurately presents the claims of Christ and respectfully considers the hearer. For individuals who are responsive to the gospel, it provides sound practices for continuing and deepening the new believer's relationship with Jesus.

## INT-450\*: Anthropology for Cross-Cultural 4 credits Ministry

This course examines principles of anthropology within the context of missiology for the purpose of developing a tool kit that will enable students to analyze and engage people groups living within various cultural contexts. Attention is given to multiple dimensions of human culture as well as issues related to social justice and biblical mercy. Prerequisite: INT-244.

#### INT-460<sup>♦</sup>: Christianity and Culture 4 credits

This course examines principles and methods for faithfully ministering within the Late Modern context in a way that is meaningful to people from diverse backgrounds. Attention is given to the influence of Christianity on culture and vice versa during the 20th and 21st centuries as well as issues related to social justice and biblical mercy. Emphasis is placed on North American cultural engagement with apologetic concern and sensitivity to contemporary values.

#### INT-494: Short-Term Missions Experience 4 credit

This course consists of a practicum experience in a local or international missions setting under the guidance of an approved supervisor. The course reinforces all missions lab competencies, practical experiences, academic journaling, as well as a field experience log, and culminating reflection assignment. Students are responsible for all costs associated with a selected missions experience and should begin the practicum application process after completion of a minimum of two mission lab courses (INT-101, INT-102, INT-201, and/or INT-202). Practicum/field experience hours: 180.

## INT-510: Biblical Foundations of Urban 4 credits Ministry

The course provides a biblical foundation for urban ministry and equips students with an overarching understanding of basic principles for effective urban ministry. Students develop understanding of the crucial position of the local assembly of believers, the history, and the various best practices for culture transformative urban ministry. This course requires supervised ministry hours. Practicum/field experience hours: 45.

#### INT-525: Christian Worldview and Mission 4 credits

An introduction to the biblical, historical, and theological bases for the cross-cultural contextualization of the Christian worldview with attention to sound missiological practices. Special emphasis is placed on cross-cultural communication and ministry in light of contemporary topics and practical exigencies. This course is offered in residency for non-traditional students.

### INT-535: The Christian Faith and World 4 credits Religions

This course is an investigation of major world religions and ideologies from an evangelical perspective with the goal of building bridges cross-culturally. Attention is given to historical backgrounds, religious texts and traditions, contemporary belief and practices, and careful consideration of the appropriate Christian response to non-Christian religious systems.

#### INT-545: Anthropological Principles 4 credits

This course examines principles of anthropology for crosscultural ministry including analysis of symbols, social structures, customs, thought forms, and social norms.

#### INT-625: Multicultural Ministry and 4 credits Contextualization 4

This course introduces students to the basic competencies needed for ministry in a multicultural setting. Students explore social services, community building, holistic ministry strategies, and how to contextualize the Good News of Christ without compromising its integrity. This course requires supervised ministry hours. Practicum/field experience hours: 45.

#### INT-630: Issues in Urban Ministry 4 credits

This course is an examination of how the church's mission expresses itself in the urban setting and the ethical implications for decisions made in urban ministry. This course requires supervised ministry hours. Practicum/field experience hours: 45.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### INT-655: Contextualized Church Planting 4 credits

This course is a study of theories, models, and practices for planting and developing self-sustaining churches that are authentic to the culture within international contexts.

#### INT-675: Global Christianity 4 credits

This course is a historical, theological, and missiological study of global Christianity that examines the mission and purposes of God and His people among the nations. Emphasis is placed on the relationship between historical developments and current trends with a view to the implementation of prudent strategies for contemporary cross-cultural ministry.

# Probability and Statistics for Industrial Engineering (ISE)

#### ISE-301: Probability and Statistics for Industrial Engineering & Lab

4 credits

This course introduces basic concepts in applied statistics for industrial engineers, beginning with foundational probability theory, descriptive statistics, sampling, and hypothesis testing. Linear regression and forecasting methods will be augmented by software for calculations and analysis. Relevant applications to quality processes in industrial engineering will be discussed, including Six Sigma and control charting. Prerequisite: MAT-262.

#### ISE-350: Lean Work Design & Lab 4 credits

This course introduces the design process associated with a manual production system and the need to meet customer demand. Capacity analysis and productivity performance metrics necessary to achieve customer demand will be demonstrated including throughput, inventory, line balancing and quality. Process flow, plant layout and workplace organization as related to meeting customer needs and eliminating waste will be discussed and demonstrated in the lab. Prerequisite: ISE-301.

#### ISE-450: Human Work Design & Lab 4 credits

This course provides an introduction to design of the workplace that meets health and safety needs of a human worker and productivity needs of the industry necessary to meet customer expectations. Workplace ergonomics, including anthropometry and biomechanics, will demonstrate the need for human workers to be protected from hazards and treated as a valuable asset in the workplace. Regulatory issues and ethical responsibilities related to human beings interacting in the workplace will also be discussed. Prerequisite: ISE-301.

#### ISE-473: Sustainable Design for Industrial 2 credits Engineering I & Lab

This design course sequence provides an opportunity for the senior student to define, plan, and solve an engineering problem. Life-cycle engineering and sustainability principles of caring for people, the planet, and profit will be introduced, along with regulatory issues required by the project. Tools and skills acquired in the engineering curriculum will be used to define project requirements and design criteria for a real-world project. By the end of this first course in the two-part sequence, a project will be clearly defined for follow-up in the next course with a project timing plan to complete the DMAIC process. Prerequisite: ISE-350. Co-Requisite: ESG-451.

#### ISE-474<sup>A</sup>: Sustainable Design for Industrial 2 credits Engineering II & Lab

This writing-intensive course provides an opportunity for the senior student to define, plan, and solve an engineering problem. Previously defined projects are reviewed for clarity before assessing further needs. While tools and skills acquired in throughout the engineering program are used to measure, analyze, improve, and control according to the DMAIC process. By the end of this second course in the two-part sequence, a project requiring the creation of a sustainable design plan to fulfill the needs of the project is completed according to the DMAIC process. Prerequisite: ISE-473.

### ISE-480: Automation for Manufacturing and 4 credits Distribution & Lab

This course introduces the basic concepts of automation within the manufacturing workplace. The advantages and limitations of including robotics and automated systems in the manufacturing environment are discussed, including the cost-benefit analysis of manual and automated processes. Workplace layout and the design of the human-machine interface, including its effects on the process and product, are discussed and demonstrated. Prerequisites: ISE-350 and ISE-450.

### Information Technology (ITT)

### ITT-111: Introduction to Information 4 credits Technology

This course provides an introduction to the role of computing technology within business and corporate environments. Introductions to concepts, terminologies, and a wide use of relevant daily software and tools relevant to any career in the information technology field. Topics include: Technology-integrated academics, digital networking concepts, systems administration and maintenance, information security, database and transactional systems, cloud technologies, scripting, and project management.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## ITT-111XV: Introduction to Information Technology

4 credits

This course provides an introduction to the role of computing technology within business and corporate environments. Introductions to concepts, terminologies, and a wide use of relevant daily software and tools relevant to any career in the information technology field. Topics include: Technology-integrated academics, digital networking concepts, systems administration and maintenance, information security, database and transactional systems, cloud technologies, scripting, and project management. Prerequisite: MAT-154 or MAT-261.

## ITT-116: Platforms and Network 4 credits Technologies

This course exposes students to the fundamentals of networks and networking in IT. It then builds deeper understanding of how networks work, including the topics of LANs, WANs, service providers, packets, hubs, routers, switches, and internet protocols. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on setting up and configuring local and enterprise networks, experimenting with various topologies, and scalability planning with switches and routers.

### ITT-116XV: Platforms and Network 4 credits Technologies

This course exposes students to the fundamentals of networks and networking in IT. It then builds deeper understanding of how networks work, including the topics of LANs, WANs, service providers, packets, hubs, routers, switches, and internet protocols. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on setting up and configuring local and enterprise networks, experimenting with various topologies, and scalability planning with routers and switches. Prerequisite: CST-111 or ITT-111 or CST-105 or acceptance into the bootcamp program.

### ITT-121: System Administration and 4 credits Maintenance

This course introduces students to system administration and maintenance as well as platform technologies. The course surveys operating systems, applications, administrative activities and domains, computer architecture and organization, and computing infrastructures. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on developing practical skills in configuring computer systems, deploying enterprise applications, managing user permissions, and remote administration. Prerequisite: ITT-116.

#### ITT-210: Low Level Programming 4 credits

This course is an introduction to assembly language programming. Assembly language topics may include machine representation of data, fixed and floating point, and decimal arithmetic, address modification, bit manipulation, and subroutine linkage. Practicum/field experience hours: None. Low Level Programming. Prerequisite: ITT-310.

#### ITT-216<sup>‡</sup>: Enterprise Route & Switch

4 credits

This course focuses on advanced router and switch configuration for use in large and enterprise networks. Topics include dynamic routing, network security and access control, network address translation, wide area network implementations, virtualization, management, design, troubleshooting and automation. Implementation and troubleshooting of advanced routing technologies and services including Layer 3 VPN, Infrastructure security, and infrastructure services. Prerequisites: ITT-111 and ITT-116.

### ITT-221: Linux System Administration and 4 credits Maintenance

This course is focused on Linux server administration and maintenance within a corporate networking context. In addition to server installation, students will learn configuration and troubleshooting along with a variety of command-line and Graphical User Interface utilities and applications. Prerequisite: ITT-121.

#### ITT-270<sup>/♠</sup>: Routing and Switching 4 credits

In this course students acquire the ability to install, configure, operate, and troubleshoot medium sized routed and switched networks. Students gain the knowledge and skills to make connections to remote sites via a WAN, and mitigate basic security threats. Prerequisite: ITT-116.

#### ITT-270HN<sup>/♠</sup>: Routing and Switching 4 credits

In this course students acquire the ability to install, configure, operate, and troubleshoot medium sized routed and switched networks. Students gain the knowledge and skills to make connections to remote sites via a WAN, and mitigate basic security threats. Prerequisite: ITT-115 or ITT-116.

#### ITT-305: Information Security I 2 credits

This course builds upon knowledge already acquired in the areas of system architecture and operating systems and focuses on the core issues of information security. Students learn fundamental aspects, security mechanisms, operational issues, security policies, and attack types. Prerequisite: ITT-121 or CST-210 or CST-221.

#### ITT-306: Information Security II 2 credits

This course is a direct continuation of ITT-305. It expands the coverage of information security topics to include security domains, forensics, information states, security services, threat analysis, and vulnerabilities. Prerequisite: ITT-305.

#### ITT-307<sup>♦</sup>: Cybersecurity Foundations 4 credits

This course builds upon knowledge already acquired in the areas of system architecture and operating systems and focuses on the core issues of information security. Students learn fundamental concepts of information security including data encryption, security awareness, legal and ethical issues, operational issues, security policies, and attack types; while expanding on the coverage to include security domains, forensics, security services, threat analysis, and vulnerabilities assessments. Prerequisite: ITT-120, or ITT-121 or CST-125 or CST-126 or CST-220 or CST-221.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### ITT-310: Programming for Security Professionals

4 credits

Students will be introduced to a high level programming language, within a common desktop environment, in the context of IT and Cybersecurity. Students will utilize development tools, programming language syntax, control constructs, loops and decision making, user defined functions, pointers, and memory management. Prerequisite: MAT-154.

#### ITT-316<sup>‡</sup>: Edge Networks 4 credits

This course merges the advanced corporate infrastructure skills with emerging technologies that streamline how computing and network resources are accessed and utilized. Concepts in this course include wireless and mobile networking, telephone, Internet of Things (IOT), and the infrastructures required to build and maintain elastic systems and communications availability. Prerequisite: ITT-216.

### ITT-321<sup>\*</sup>: Cloud Systems Administration and 4 credits Maintenance

This course is focused on enterprise cloud computing solutions, including migrations strategies for applications, strategies, workflows, and systems. Students develop the skills necessary to analyze, recommend, and implement multiple-vendor cloud solutions. Prerequisite: ITT-221.

#### **ITT-340**<sup>♦</sup>: Cybersecurity and Ethical Hacking 4 credits

This course covers mathematical models for computer security. It analyzes and compares the properties of various models for hardware, software, and database security. The course examines how system designs, network protocols, and software engineering practices can result in vulnerabilities. Students learn to design, evaluate, ethically hack, and implement adequate security measures that can safeguard sensitive information. Prerequisite: ITT-307.

#### ITT-370♦: Wireless Networks 4 credits

This course covers advanced topics in networking with an emphasis on securing wireless and IP networks. Students analyze algorithms and protocols, improve existing solutions, and evaluate existing solutions using theoretical analysis and simulations. Students become familiar with modern networking architectures. Prerequisite: ITT-270.

### ITT-375♦: Cyber Forensic Investigations 4 credits

This course covers the processes and goals of cyber forensics investigations. Hands-on activities include using multiple reporting systems to initiate and provide on-going support for information security investigations relating to data privacy, incident management, data loss prevention, and digital forensics. Prerequisite: ITT-307.

#### ITT-380: Information Assurance

4 credits

Information Assurance is explored from the perspective of frameworks and technical compliance. Students will be exposed to the idea that proper understanding of, and implementation of frameworks and compliance has recently become a requirement for many security careers. Students will perform in-depth analysis of the needs of the system juxtaposed against the requirement to comply with a mandated framework. Practicum/field experience hours: None. Information Assurance. Prerequisite: ITT-307.

#### ITT-415<sup>f</sup>: IT Business Case Planning for 4 credits Global Enterprise

This course prepares students to plan and implement IT systems that take into account business realities, objectives, and constraints associated with domestic and international business activities. The course exposes the key computational, analytical, and decision-making tools used by businesses. Students also develop an understanding of the social, cultural drivers of successful IT investments, and their effect on business strategy and models. A special emphasis is placed on the symbiotic relationship between information technology and business and on international case studies, as manifested in information pricing, technological lock-in and network effects. Prerequisite: CST-326 or BIT-415 or CYB-220.

#### ITT-415HN<sup>f</sup>: IT Business Case Planning for 4 credits Global Enterprise 4

This course prepares students to plan and implement IT systems that take into account business realities, objectives, and constraints associated with domestic and international business activities. The course exposes the key computational, analytical, and decision-making tools used by businesses. Students also develop an understanding of the social, cultural drivers of successful IT investments, and their effect on business strategy and models. A special emphasis is placed on the symbiotic relationship between information technology and business and on international case studies, as manifested in information pricing, technological lock-in and network effects. Prerequisite: CST-326 or BIT-415.

#### ITT-420<sup>♦</sup>: Big Data Systems 4 credits

This course focuses on data-intensive problems in the context of large sensor networks, simulations, and social networks. Scalable algorithms and data management technologies are examined in detail. Students explore data analysis and management techniques applied to big data sets in distributed environments. Specifically, the course focuses on the map-reduce paradigm, distributed file systems, NoSQL databases, and machine learning methods. Students learn to design highly scalable systems that can analyze massive amounts of data for scientific or social applications. Prerequisite: SYM-408 or CST-217.

## ITT-425\*: Analysis, Design, and Management 4 credits of Secure Corporate Networks

This course covers strategies and plans for development and operation of the Security Operations Center (SOC). Students gain the knowledge and skills to use technologies to detect and prevent network intrusion and implement cybersecurity countermeasures. Prerequisites: ITT-340 and ITT-375.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### ITT-430♦: Security Driven Systems Administration

4 credits

This course covers the design, management, and maintenance of virtual enterprise and datacenter infrastructure. Students learn to use appropriate tools such as request tracking, monitoring, configuration management, virtualization, and scripting to administer and defend systems using documented, repeatable processes. Emphasis will be placed on volume management, directory services, and network-based authentication and file systems. Students develop automatic procedures for installations and file distribution. Prerequisites: MAT-154 and ITT-307.

#### ITT-450': Cloud Technologies, Systems, and 4 credits Applications Lecture & Lab

This course builds upon knowledge acquired in ITT-200 and provides students with first-hand experience with the latest cloud-related concepts, systems, and tools. Students learn how to construct and secure a private cloud-computing environment using open source solutions, learn how to federate it with external clouds, learn how to configure SaaS servers, and learn how to enable cloud-based business applications. Students also learn to evaluate cloud-based solutions in terms of performance, security, cost, usability, and utility. Students are expected to learn and demonstrate practical elements. The laboratory reinforces and expands learning of principles introduced in the lecture. Handson activities focus on interaction, utilization, and configuration of cloud-based systems for a variety of business applications. Prerequisite: ITT-200.

#### ITT-450HN<sup>5</sup>: Cloud Technologies, Systems, and 4 credits Applications Lecture & Lab

This course builds upon knowledge acquired in ITT-200 and provides students with first-hand experience with the latest cloud-related concepts, systems, and tools. Students learn how to construct and secure a private cloud-computing environment using open source solutions, learn how to federate it with external clouds, learn how to configure SaaS servers, and learn how to enable cloud-based business applications. Students also learn to evaluate cloud-based solutions in terms of performance, security, cost, usability, and utility. Students are expected to learn and demonstrate practical elements. The laboratory reinforces and expands learning of principles introduced in the lecture. Handson activities focus on interaction, utilization, and configuration of cloud-based systems for a variety of business applications. Prerequisite: ITT-200.

#### ITT-455 $^{\Delta\Omega}$ : IT Project 4

This course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students implement and present the applied research project. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course.

Prerequisite: ITT-415 or ITT-430.

#### ITT-490<sup>\Delta s</sup>: IT Project Management Capstone 4 credits

In this course, students apply the knowledge and skills used in previous courses to develop an IT Project proposal required for new innovative process. The course builds on the knowledge gathered during student's journey through IT program. It gives them the ability to work on an emerging IT project while gathering very practical experience. This involves critiquing the current scope of IT and use a practical research approach to construct the project proposal. The students will be required to develop project components such as vision, budget, risk management, and timeline. Project teams will be assigned and throughout the semester, these teams present ideas to both peers and the instructor, who provide feedback and insight into what it takes build a successful project. Students will be required to work on a complex and real-life problem related to IT studies. In doing so, the Capstone makes the link between the academic discourse and the world thereafter. This is a writing intensive course. Prerequisite: ITT-430 or ITT-415.

### ITT-610: IT Development and Cloud 4 credits Computing

This course examines the two meanings of Cloud computing: the first, running workloads remotely over the internet in a commercial provider's data center, also known as the "public Cloud" mode; the second, a virtualized pool of resources, from raw compute power to application functionality, available on demand. Students will learn aspects of both while providing effective solutions for an on-premise to a Cloud model for a corporate infrastructure.

### ITT-640: Information Systems Management 4 credits and Systems Development

This course provides students a solid understanding of important business functions like marketing, accounting, operations, and statistics, in addition to the key technologies used in business.

### ITT-660: IT Project Management and the Global Economy 4 credits

This course examines the current shift towards more complex and turbulent environments and a digitized economy and how these challenges are a part of general practices in project, program, and portfolio management. Students will develop the ability to show how new opportunities can shape the economy, the business context, and people in the organizational IT project management context.

### Journeyman (JRE)

### JRE-101: Finding Success in the Electrical 4 credits

This course identifies and develops the career skills necessary to succeed in the electrical trades. It provides a broad overview of the industrial electrical field and provides students a general understanding of business operations and project management. Principles for goal setting and personal financial management are also covered. Co-Requisite: JRE-111.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### JRE-105: Finding Success as a CNC Machinist

4 credits

This course identifies and develops the career skills necessary to succeed as a CNC machinist. It provides a broad overview of the responsibilities of the CNC machinist, safety in the shop, the basic machining principles, inspections, blueprints, fundamentals of manufacturing, and business basics. Co-Requisite: JRE-111.

### JRE-106: Finding Success As A 4 credits Manufacturing Specialist Course

This course is designed to provide the essential skills needed to thrive in the semiconductor industry as a manufacturing specialist. Students will be introduced to topics such as preapprenticeship, career preparation, and industry specific skillsets needed to be successful in their new role. Additionally, the course will provide an overview of the semiconductor industry, the key company leaders in the industry, and emerging trends within the semiconductor field. Business basics and financial literacy (i.e. loans, interest rates, cash flow) will also be covered as they provide crucial skills for effective financial management. Lastly, project management and MS Office tools will be covered to emphasize the technical skills necessary for efficient project planning and execution in the performance of their new job roles and responsibilities as a manufacturing specialist.

## JRE-111: English for Professional Written 4 credits and Verbal Communication

This course focuses on professional written and verbal communication for the workplace relevant to various trades as well as comprehension and interpretation of written, graphic, and verbal communication.

#### JRE-121: Math Applications 4 credits

This course covers basic math concepts and operations with whole numbers, fractions, decimals, integers, and rational numbers, proportions, and percentages. Other concepts include algebraic equations, basic trigonometry, and the application of math and its use in the real world. Prerequisite: JRE-101, or JRE-105, or JRE-106. Co-Requisite: JRE-131, or JRE-141, or JRE-151, or JRE-161, or JRE-171, or JRE-181.

#### JRE-131: Electrical Foundations 4 credits

Electrical Safety; Workplace Issues; Basic Electrical Concepts. Prerequisite: JRE-101. Co-Requisite: JRE-121.

#### JRE-171: CNC Machinist Foundations 4 credits

This course will cover the basic machining techniques associated with CNC milling. Topics covered will include tool changes, speed selections, and geometric dimensioning and tolerancing (GD&T). Prerequisite: JRE-105. Co-Requisite: JRE-121.

### JRE-181: Manufacturing Specialist Foundation Course

4 credits

This course is designed to provide the essential knowledge and skills necessary for a manufacturing specialist in the key areas of work-place safety, standard operating procedures (i.e., SOP), structured workflows, process monitoring, and process analysis of the wafer fabrication process. By covering topics such as OSHA regulations, gown room protocols, wafer manufacturing process flow, production quality (i.e., die and line yields), lean manufacturing, metrology, and statistical process control (SPC), students are equipped with a good overall understanding of the wafer fabrication process and how the microprocessor devices are created within the semiconductor industry. The topics covered provide the students with a comprehensive understanding of the semiconductor manufacturing process, which allows them to quickly transition and be very effective in their new role as a manufacturing specialist. Prerequisites: JRE-106 and JRE-111. Co-Requisite: JRE-121.

### Justice Studies (JUS)

#### JUS-104<sup>♦</sup>: Introduction to Justice Studies 4 credits

This course provides an introduction to the basic components of the criminal justice system in the United States today: corrections, courts, and law enforcement.

#### JUS-105: Introduction to Law Enforcement 4 credits

This course provides a thematic review of the basic components of the criminal justice system in the United States today: corrections, courts, and law enforcement.

## JUS-202<sup>/♦</sup>: Professional Responsibility in 4 credits Justice

This course covers the many facets of what it means to be a responsible and effective public servant. It does this by examining the ethical principles that are required of those working as public servants, so they are prepared to make moral judgments in the execution of their duties. How to be culturally sensitive, maximize the public good, and appropriately use resources is covered. How to stand for principles and have courage to do what is right as a public servant, as well as proper communication is investigated.

### JUS-202HN<sup>\*</sup> →: Professional Responsibility in 4 credits Justice

This course covers the many facets of what it means to be a responsible and effective public servant. It does this by examining the ethical principles that are required of those working as public servants, so they are prepared to make moral judgments in the execution of their duties. How to be culturally sensitive, maximize the public good, and appropriately use resources is covered. How to stand for principles and have courage to do what is right as a public servant, as well as proper communication is investigated.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### JUS-202XV: Professional Responsibility in Justice

This course covers the many facets of what it means to be a responsible and effective public servant. It does this by examining the ethical principles that are required of those working as public servants, so they are prepared to make moral judgments in the execution of their duties. How to be culturally sensitive, maximize the public good, and appropriately use resources is covered. How to stand for principles and have courage to do what is right as a public servant, as well as proper communication is investigated.

4 credits

#### JUS-212<sup>/♠</sup>: Criminal Behavior and Victimology 4 credits

This course provides an examination of the basic theories of criminology including victimology. The course exposes students to the motivators of criminal behavior to better understand crime and those who commit crime.

#### JUS-212HN<sup>≠</sup>•: Criminal Behavior and Victimology 4 credits

This course provides an examination of the basic theories of criminology including victimology. The course exposes students to the motivators of criminal behavior to better understand crime and those who commit crime.

#### JUS-220: Policing 4 credits

This course provides an examination of issues and tangible solutions in the professional law enforcement environment.

### JUS-301: Criminal Procedure in Law 4 credits Enforcement

This course provides an overview of criminal liability with an emphasis on the mechanical components of the criminal justice system from arrest to conviction or acquittal.

### JUS-309<sup>Δ</sup>: Communication in Law 4 credits Enforcement

This writing-intensive course covers the fundamental requirements of effective communication skills such as report writing, interpersonal communication and interviewing and questioning.

#### JUS-320<sup>/♠</sup>: The Police Function 4 credits

This course provides an examination of the objectives, strategies, tactics, programs, roles, perspectives, public perception, and interagency relationships of the police.

#### JUS-320HN<sup>/♠</sup>: The Police Function 4 credits

This course provides an examination of the objectives, strategies, tactics, programs, roles, perspectives, public perception, and interagency relationships of the police.

#### JUS-323<sup>∆</sup>: Ethics in Leadership 4 credits

This writing-intensive course covers the many facets of what it means to be a responsible and effective public servant leader. The course examines the ethical principles that are required of those working as public servants, so they are prepared to make moral judgments in the execution of their duties. This course instills professional ethics in a law enforcement workforce through effective leadership.

#### JUS-325<sup>∆</sup><sup>†</sup> • The Adjudication Function

This is a writing intensive course emphasizing the objectives, strategies, programs, roles, perspectives, and interagency relationships of the courts.

4 credits

#### JUS-325HN<sup>≠</sup>: The Adjudication Function 4 credits

This is a writing intensive course emphasizing the objectives, strategies, programs, roles, perspectives, and interagency relationships of the courts.

#### JUS-330<sup>♦</sup>: The Correctional Function 4 credits

This course provides an examination of the objectives, strategies, programs, roles, perspectives, and interagency relationships of correctional agencies.

#### JUS-430<sup>/♦</sup>: Criminal Law 4 credits

This course provides an introduction to criminal liability with an emphasis on the elements of a crime and governmental sanctions of individual conduct as formulated by the legislature and the court system.

#### JUS-430HN<sup>\*</sup> Criminal Law 4 credits

This course provides an introduction to criminal liability with an emphasis on the elements of a crime and governmental sanctions of individual conduct as formulated by the legislature and the court system.

### JUS-441<sup>△</sup>♦: Criminal Procedure and Public 4 credits Policy

This writing-intensive course covers the criminal procedural process from a constitutional perspective as it relates to due process and crime control. It also covers the mechanics of how public policy guides the administration of justice.

#### JUS-445<sup>♦</sup>: Justice Problem Analysis 4 credits

This course examines the proper and effective use of research and data in the administration of justice. The course describes how to identify justice-related problems in the community, collect data on the problem, analyze the data, and apply criminological theories to the data to solve the problem. Other aspects of how to use justice research to improve communities are covered.

#### JUS-470\*: Threat Assessment and Behavioral 4 credits Analysis

This course covers how to analyze natural, man-made, and accidental threats that could possibly threaten a community. It analyzes the process of how to identify possible threats and prepare for or eliminate them. Behavioral analysis is covered to show how it can be used in assessing possible threats to communities and individuals. Prerequisite: JUS-445.

## JUS-481\*: Community-Based Strategic 4 credits Planning

This course examines performance management policies, practices, and systems related to community policing needs. The course covers how to enhance and redesign existing performance management practices across the community through collaborative engagement and management of resources. It covers how to use data to create a strategic plan to address justice-related problems.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### JUS-484: Law Enforcement Capstone

4 credits

This course provides students with the opportunity to create community policing strategic plan. Students in this course have the opportunity to scaffold their strategic plan in a step-by-step process. Prerequisite: JUS-481.

#### JUS-499: Independent Study 1 credits

This involves research, seminars, or readings on a special topic to be selected by the student and the faculty advisor are appropriate. This course may be taken for one, two, three or four credits, depending on the amount of time and work involved and may be repeated for up to four credits total credit per subject area unless specified otherwise in requirements for a major.

#### JUS-506: Criminal Behavior Analysis 4 credits

This course provides an examination of the relationship between psychology and the criminal justice system. Students develop an understanding of crisis intervention, criminal profiling, psychopathology, personality assessment, and related research methods.

#### JUS-510: Research Methods 4 credits

This course provides a fundamental analysis of research and a methodological evaluation of criminal justice topics. This course familiarizes students with aspects of statistical analysis and research design relevant to today's justice environment using both quantitative and qualitative methods. The course focuses on the practical application of research rather than exclusively on the theoretical

#### JUS-515: Organizational Behavior and 4 credits Leadership

This course explores contemporary law enforcement management by examining personality, values, groups, power dimensions, decision making, conflict management, change, and organization development.

#### JUS-522: Ethics and Decision Making 4 credits

This course explores ethics in the context of criminal justice settings and situations. Various ethical questions are engaged to improve students' decision-making skills. The responsibility of the individual to act ethically and legally when working in the criminal justice field is emphasized. Some attention is also given to the role of Christian Ethics in criminal justice.

### JUS-620: Exploration of Law and Public 4 credits Policy

This course explores the interrelatedness of law and socioeconomic concerns and attempts to generate a holistic perspective of society and social control for those charged with the administration of justice.

### JUS-631: Exploration of Constitutional 4 credits Criminal Law

This course is designed to provide an overview of our constitutional system of criminal jurisprudence. The course provides a comprehensive study of various constitutional amendments and case law as they relate to criminal law. The importance of constitutional rights for the citizens of the United States is also explored.

### JUS-632: Crime Prevention and Public Relations

4 credits

This course provides a comprehensive examination of the relationship between the police and the public. The course exposes students to strategies law enforcement personnel and agencies can use to develop positive relationships with the public. The relationship between greater communication, positive interactions, and crime prevention is explored.

#### JUS-635: Legal Research

4 credits

This course teaches students how to do legal research using both hardcopy and electronic resources. Presented from the perspective of a law specialist working for a client, this course allows students to consider a client's legal issues and to discover how to locate resources that address the problem, including statutes, regulations, court orders, court decisions, and secondary sources.

### JUS-636: Crime Analysis and Case 4 credits Management

This course covers various aspects of crime analysis and how analysis can be used in managing cases and reducing crime. Data collection techniques as well as interpreting data for different purposes are addressed. Prerequisite: JUS-510.

#### JUS-640: Advanced Crime Analysis 4 credits

This course provides an advanced study of crime analysis techniques, trends, and uses. Finding patterns in crime data as well as communicating those patterns and trends for specific purposes is covered. This is an application based course to build useful skills in crime analysis. Prerequisite: JUS-636.

#### JUS-641: Legal Communication 4 credits

This course explores a variety of legal correspondence methods used to communicate with different persons and agencies within the legal community. The course provides practical application in legal communication methods. Prerequisite: JUS-635.

### JUS-650: Strategic Analysis and 4 credits Organizational Planning

This course provides an in-depth study of strategic analysis and organizational planning practices for law enforcement leaders. The course prepares students to assess needs, make decisions, create plans, and implement those plans to enhance agency performance.

#### JUS-655: Strategies for Effective Consulting 4 credits

This course is designed to assist students in exploring the different ways consulting can be used to capitalize on the legal knowledge and skills they have obtained. Consulting opportunities in the legal field, as well as the process and procedures of consulting are addressed.

### Leadership (LDR)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### LDR-461<sup>4</sup>: Professional Applications in Service 1 credits Learning I

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 10 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-462<sup>‡</sup>: **Professional Applications in Service 2 credits** Learning II

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 20 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-463<sup>‡</sup>: **Professional Applications in Service** 3 credits Learning III

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 30 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-600: **Leadership Styles and Development** 4 credits

This course explores the nature of business leadership models and theories, examines these models through a broad variety of insights and viewpoints, and provides a description and analysis of these approaches to leadership, giving special attention to how the models can improve leadership in real-world organizations.

#### IT Management and Leadership 4 credits LDR-604:

This course introduces leadership and team management skills relevant to leading information technology teams and departments. Students examine various structures of IT organizations and consider strategies and tactics for leading virtual and co-located technology teams, encouraging high employee performance, and managing conflict within dynamic business environments. Ethical issues in leadership and management are also considered.

#### LDR-612: Coaching, Mentoring, and 4 credits **Leadership Development**

This course provides a comprehensive analysis of leadership development and succession planning within organizations through the exploration of essential coaching, influencing, and mentoring strategies for effective leaders. It includes all underrepresented populations with a focus on gender, race, ethnicity, culture, generation, disability, veteran status, and religion.

#### LDR-615: Organizational Development and 4 credits Change

This course is an exploration of the behavioral forces and relationships that influence organizational effectiveness and change. It also emphasizes the study of intervention strategy and application skills related to a foundational understanding of the role of project management in the context of leading change in organizations. The course provides insights into the leadership and management of people, processes, and best practices for successful change.

#### LDR-630: **Servant Leadership**

4 credits

This course focuses on servant leadership, how a servant leader is different from other leaders, and how focusing on the needs of others can create interdependency rather than dependency in organizations.

#### LDR-640: **Leadership and Innovation**

This course provides an understanding of various models of problem solving and the ability to apply them. It also introduces data analytics as a means to identify opportunities for innovative decision making as well as knowledge of various techniques, strategies, and skills appropriate for creative and innovative thinking.

#### LDR-655: **Leadership Capstone** 4 credits

This course serves as the culminating capstone experience for Master of Leadership students. Students lead an organization or community-based project and create a professional portfolio to demonstrate their leadership skills. Prerequisite: MGT-605, LDR-600, LDR-630, LDR-640, LDR-612, LDR-615.

#### LDR-661: Professional Applications in Service 1 credits Learning I

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 10 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-662: Professional Applications in Service 2 credits Learning II

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 20 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-663: Professional Applications in Service 3 credits **Learning III**

Students participate in discipline-specific service-learning opportunities designed to promote critical reflection. By engaging in their chosen field through 30 hours of volunteer service, students develop leadership skills and a practical connection to their field of study.

#### LDR-665: **Cybersecurity Leadership** 4 credits Capstone

This course is an integrative, practical, cybersecurity leadership experience. It provides a holistic view of information assurance and cybersecurity through the practical application of leadership duties in the information security industry.

#### LDR-670: Global Leadership 4 credits

The purpose of this course is to synthesize the interdependent concepts of global business, cultural intelligence, self-awareness, and interpersonal relationships. It examines and applies contemporary global topics, diverse business and problemsolving perspectives, and effective cross-cultural communication skills to develop competent world leaders.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### LDR-800: Ethical Dilemmas and Stewardship 3 credits

This course examines multiple ethical frameworks, principles, and theories as they apply to the study and practice of leadership. Corporate social responsibility will be addressed from the perspective of ethical decision making. Prerequisite: RES-811 or RES-815.

#### LDR-802: **Progressions in Leadership** 3 credits **Thought**

This course provides an overview of seminal leadership theories and models. Learners focus on understanding the development and evolution of leadership theories and the range and emphasis of leadership research.

#### LDR-804: **Leading Across Cultures** 3 credits

This course explores the opportunities and challenges facing leaders in the global environment. The course topics focus on aspects of leading global and diverse workforces, and on theories of leadership and leadership development in diverse and global cultures.

#### LDR-825: **Strategic Planning and Change**

This course provides an overview of the impact of leadership and the effects of behaviors on the formulation and execution of strategy within an organization. Topics include the increasing importance of resilience and change in today's global and turbulent economy.

### Music Applied Piano (MAP)

#### **MAP-112:** Secondary Music Applied Lessons I 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### **MAP-115: Music Applied Lessons I** 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

#### MAP-118♦: Private Piano Study I

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

#### MAP-120**♦**: Private Piano Study Majors I 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: Music Department approval and placement audition.

#### **MAP-122: Secondary Music Applied Lessons** 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### MAP-125: **Music Applied Lessons II**

2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

#### MAP-128\*: Private Piano Study II 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisites: MAP-118 or Music Department approval and placement audition.

#### MAP-130**♦**: Private Piano Study Majors II 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-120 or Music Department approval and placement audition.

#### **MAP-201: Secondary Music Applied Lessons**

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. May be repeated for credit. Prerequisites: Music Department approval and placement.

#### **MAP-202: Worship Arts Applied Music** 1 credits Lessons

This course is the applied private study for worship arts majors. May be repeated for credit. Prerequisites: Music Department approval and placement.

#### **MAP-212: Secondary Music Applied Lessons** 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### **MAP-215: Music Applied Lessons III** 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

#### MAP-218**♦**: Private Piano Study III 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

#### MAP-220\*: Private Piano Study Majors III 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-130 or Music Department approval and placement audition.

#### MAP-222: **Secondary Music Applied Lessons** 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### **Music Applied Lessons IV** MAP-225:

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### MAP-230\*: Private Piano Study Majors IV 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-220 or Music Department approval and placement audition.

#### MAP-250♦: Private Piano Study IV 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

#### MAP-301: Music Applied Lessons 2 credits

This course is the private applied study required for music majors in their major instrument or area. May be repeated for credit. Prerequisites: Music Department approval and placement audition.

### MAP-312: Secondary Music Applied Lessons 1 credits V

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### MAP-315: Music Applied Lessons V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

#### MAP-318<sup>♦</sup>: Private Piano Study V 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

#### MAP-320<sup>♦</sup>: Private Piano Study Majors V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-230 or Music Department approval and placement audition.

### MAP-322: Secondary Music Applied Lessons 1 credits VI

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### MAP-325: Music Applied Lessons VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

### MAP-328: Rehearsal Pianist/Coach for Music 0 credits Majors

Coached instruction in chamber and small ensemble settings. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission. Co-Requisite: Enrollment in Private Studio instruction.

#### MAP-330<sup>♦</sup>: Private Piano Study Majors VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-320 or Music Department approval and placement audition.

#### MAP-350<sup>♦</sup>: Private Piano Study VI 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MAP-390 $^{\Omega \Phi}$ : Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

#### MAP-395: Music Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

#### MAP-401: Instrumental Pedagogy 1 credits

This course is a study of teaching instrumental music in the private music studio. The instruction is generally at the beginner level. This course includes observation in both individual and group lesson settings. Prerequisite: Advanced Standing or Music Department approval.

### MAP-412: Secondary Music Applied Lessons 1 credits VII

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### MAP-415: Music Applied Lessons VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

#### MAP-420<sup>♦</sup>: Private Piano Study Majors VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-330 or Music Department approval and placement audition.

### MAP-422: Secondary Music Applied Lessons 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisite: Instructor or Music Department Approval.

#### MAP-425: Music Applied Lessons VIII 2 credit

This course is the private applied study required for music majors in their major instrument or area. Prerequisite: Instructor or Music Department Approval.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### MAP-430\*: Private Piano Study Majors VIII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MAP-420 or Music Department approval and placement audition.

#### MAP-450<sup>♦</sup>: Private Piano Study VII 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

#### MAP-451\*: Private Piano Study VIII 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisites: Music Department approval and placement audition.

#### MAP-490 $^{\Omega \bullet}$ : Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. Student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: Student must concurrently be enrolled in the appropriate level of private instruction.

#### MAP-495: Music Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length and format appropriate to the major. The recital may consist solely of performance or may be in the form of a lecture-recital. The recital is to be given in the student's final semester of residency. Students must pass a formal hearing prior to final approval of the recital presentation. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### Mathematics (MAT)

#### MAT-001: AlgebraArch

AlgebraArch is a remote learning opportunity for incoming Grand Canyon University students to move ahead to a higher math course by practicing and preparing for the placement exam. This course gives students the opportunity to work with GCU math faculty for 4 weeks in an online environment to refresh their previous math knowledge as well as meet fellow incoming GCU students. This is a great way to move on to MAT-144, MAT-154, or higher in a stress-free environment!.

#### MAT-110<sup>♦</sup>: Basics of Algebra 4 credits

This course is designed to build students' understanding of, and skill in, basic algebraic practices and procedures. Students learn to manipulate mathematical operations involving real and complex numbers. Topics include solving and graphing equations and inequalities, solving systems of equations, operations on functions, use of real and complex number systems, solving rational functions, and solving exponential and logarithmic functions. Emphasis will be placed on algebraic processes and building a framework for future courses.

#### MAT-134<sup>♦</sup>: Applications of Algebra

4 credits

This course explores applications of algebraic concepts. Integers, fractions, decimals, percents, and ratios are studied within the real and complex number systems. Students learn to solve linear equations and inequalities; rational and exponential expressions; linear systems; and quadratic, exponential, and logarithmic equations. Estimation techniques and principles of number theory are explored. Emphasis is placed on developing students' understanding of number representation and skill in the application of numerical operations to solving real-world problems. Prerequisite: Grade of C or better in MAT-110.

#### MAT-144<sup>♦</sup>: College Mathematics

4 credits

The course covers mathematics that matter in modern society. Key areas of focus include financial literacy, numerically-based decision making, growth, scale, and numerical applications. The course applies basic college-level mathematics to real-life problems and is appropriate for students whose majors do not require college algebra or higher.

#### MAT-144BSN: College Mathematics

4 credits

This course covers mathematics that matter in medical professions and modern society. Key areas of focus include financial literacy, dimensional analysis, numerically based decision making, growth, scale, and numerical applications. The course applies basic college-level mathematics to real-life problems and medical scenarios. This course is appropriate for students who are majoring in a nursing degree.

### MAT-150\*: Mathematics for Elementary 4 credits Teachers I

This is the first in a two-course sequence designed for prospective elementary school teachers. Concepts include set theory, functions, numeration systems, number theory and properties of the natural numbers, integers, rational numbers, ratios, proportions, decimals, and percents, with an emphasis on problem solving and critical thinking.

### MAT-151\*: Mathematics for Elementary 4 credits Teachers II

This is the second in a two-course sequence designed for prospective elementary school teachers. Concepts include elementary probability, data analysis, descriptive statistics, geometry of shapes in two and three dimensions, congruence and similarity, measurement, and geometric transformations, with an emphasis on problem solving and critical thinking. Prerequisite: MAT-150.

#### MAT-154<sup>♦</sup>: Applications of College Algebra 4 credits

This course is designed to prepare learners to integrate fundamental mathematical concepts with the critical and quantitative thinking needed to solve workplace-related problems. The course is founded upon a functional and technological approach to algebra. Topics include functions and their graphs; polynomial, rational, exponential, and logarithmic functions; algebraic and exponential equations; and probability. Emphasis is placed on developing students' understanding of mathematical representation and logical reasoning to solve real-world problems. Prerequisite: Grade of C or better in MAT-110.

0 credits

464

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **MAT-215**♦: Discrete Mathematics

4 credits

This course examines how discrete mathematics can be applied to problem solving as well as mathematical reasoning and communication. Additionally, this course introduces how mathematics uses established methods to determine and validate new conclusions through the use of discrete mathematics. Prerequisites: MAT-252 and MAT-253.

## MAT-225\*: Mathematics and Technology 4 credits through Time

This course is an exploration of the history of humanity through the lens of mathematics and technology. Students study important thinkers and their tools and techniques with an emphasis on how their discoveries have impacted the modern world. Students are shown insights into how those thinkers solved problems and the critical analysis to apply those insights to modern issues in diverse areas of interest. The use of tools and techniques of mathematics and technology aids in applying those insights. Prerequisite: MAT-250 or MAT-261.

### MAT-225XV: Mathematics and Technology 4 credits through Time

This course is an exploration of the history of humanity through the lens of mathematics and technology. Students study important thinkers and their tools and techniques with an emphasis on how their discoveries have impacted the modern world. Students are shown insights into how those thinkers solved problems and the critical analysis to apply those insights to modern issues in diverse areas of interest. The use of tools and techniques of mathematics and technology aids in applying those insights. Prerequisite: MAT-250 or MAT-261.

#### MAT-251<sup>♦</sup>: Brief Calculus 4 credi

This course develops the concepts of calculus through a wide variety of applications. Topics include limits, continuity, derivatives, antiderivatives, and integration. Prerequisite: MAT-154.

#### MAT-252\*: Calculus and Analytic Geometry I 4 credits

This course provides a rigorous treatment of the concepts and methods of elementary calculus and its application to real-world problems. Topics include a brief review of linear, exponential, logarithmic, trigonometric, and inverse functions; understanding and calculating limits, continuity, and derivatives as rates of change; differentiation rules including derivatives of polynomials, exponentials, trigonometric, and logarithmic functions; product and quotient rules, the chain rule, and implicit differentiation; related rates, curve sketching, maximum and minimum problems, mean value theorem, linear approximation, indeterminate forms, and L'Hospital's rule; and applied optimization problems, antiderivatives, and approximating areas under the curve. Prerequisite: Grade of C or better in MAT-250 or MAT-261.

#### MAT-253\*: Calculus and Analytic Geometry II 4 credits

This course provides a rigorous treatment of the concepts, methods, and applications of integral calculus and is the second course in a three-course sequence. Topics include definite integrals, fundamental theorem of calculus, and integration rules; arc length, solids of revolution, and physical applications; techniques of integration including improper integrals and an introduction to differential equations; polar coordinates, parametric equations, infinite sequences, and series; power series and conic sections; and vector arithmetic, dot product, and projections. Prerequisite: Grade of C or better in MAT-252.

#### MAT-261\*: Pre-Calculus

4 credits

This course presents the fundamentals of algebra and trigonometry with some applications; it provides the background and introduction for the study of calculus. Topics include review of linear equations and inequalities in one and multiple variables; functions and their graphs; polynomial, rational, exponential, logarithmic, and trigonometric functions; systems of equations and matrices; and sequences and series. Slope and rate of change are introduced to set up the concepts of limits and derivatives. There is an emphasis on both an understanding of the mathematical concepts involved as well as their applications to the principles and real-world problems encountered in science and engineering. Technology is utilized to facilitate problem analysis and graphing. Prerequisite: MAT-134 or MAT-154.

#### MAT-261XV: Pre-Calculus

4 credits

This course presents the fundamentals of algebra and trigonometry with some applications; it provides the background and introduction for the study of calculus. Topics include review of linear equations and inequalities in one and multiple variables; functions and their graphs; polynomial, rational, exponential, logarithmic, and trigonometric functions; systems of equations and matrices; and sequences and series. Slope and rate of change are introduced to set up the concepts of limits and derivatives. There is an emphasis on both an understanding of the mathematical concepts involved as well as their applications to the principles and real-world problems encountered in science and engineering. Technology is utilized to facilitate problem analysis and graphing. Prerequisite: MAT-134 or MAT-154.

#### MAT-262\*: Calculus for Science and 4 credit Engineering I

This course provides a rigorous treatment of the concepts and methods of elementary calculus and its application to real-world problems. Topics include differentiation, optimization, and integration. Software is utilized to facilitate problem analysis and graphing. Prerequisite: MAT-261 or ESG-162/162L.

#### MAT-264\*: Calculus for Science and 4 credits Engineering II

This course provides a rigorous treatment of the concepts and methods of integral, multivariable, and vector calculus and its application to real-world problems. Prerequisite: MAT-262.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### MAT-274\*: Probability and Statistics

4 credits

This course provides an introduction to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control population parameter estimation, and hypothesis testing. Prerequisite: Grade of C or better in MAT-134, MAT-144 or MAT-154.

#### MAT-312<sup>/♠</sup>: Higher Geometry 4 credits

This course provides an axiomatic approach to geometry, including analysis of the parallel postulate and an introduction to non-Euclidean models. Other topics include planar transformations and isometry groups, analytic geometry, and the history of geometry. Prerequisites: MAT-252 and MAT-345.

### MAT- Higher Geometry 4 credits 312HN<sup>/♦</sup>:

This course provides an axiomatic approach to geometry, including analysis of the parallel postulate and an introduction to non-Euclidean models. Other topics include planar transformations and isometry groups, analytic geometry, and the history of geometry. Prerequisites: MAT-252 and MAT-345.

#### MAT-345<sup>♦</sup>: Applied Linear Algebra I 4 credits

This course is intended primarily for mathematics, science, and engineering students. The goal of the course is to impart the concepts and techniques of modern linear algebra (over the real scalar field) with a significant level of rigor. Students write clearly about the concepts of linear algebra (definitions, counterexamples, simple proofs), and apply theory to examples. The course emphasizes the practical nature of solutions to linear algebra problems. Students implement some of these solutions, where appropriate, as computer programs. Prerequisite: MAT-264 or MAT-253

#### MAT-351\*: Calculus for Biomedical Science 4 credits

This course is intended for health science majors and develops the concepts of calculus through a wide variety of biological and medical applications. Topics include an in-depth study of limits, continuity, the derivative and its applications, and antiderivatives. These concepts are examined through algebraic and transcendental functions of a single variable. Application areas include mathematical physiology, pharmacology, cell biology, and population biology. Prerequisite: MAT-250 or MAT-261.

## MAT-364\*: Differential Equations for Science 4 credits and Engineering

This course focuses on solutions and qualitative study of linear systems of ordinary differential equations, and on the analysis of classical partial differential equations. Topics include first- and second-order equations; series solutions; Laplace transform solutions; higher order equations; Fourier series; second-order partial differential equations. Boundary value problems, electrostatics, and quantum mechanics provide the main context in this course. Prerequisite: MAT-253 or MAT-264.

### MAT-374\*: Probability and Statistics - Calculus 4 credits

This course covers the role of statistics in engineering, probability, discrete random variables and probability distributions, continuous random variables and probability distributions, joint probability distributions, random sampling and data description, point estimation of parameters, statistical intervals for a single sample, and tests of hypotheses for a single sample. Prerequisite: MAT-253 or MAT-264.

### MAT-380\*: Mathematics for the Secondary 4 credits Educator

This course examines the core concepts of algebra and geometry, with a focus on the individual and interrelated elements, for the purpose of understanding their meaning, expression, and interaction. Therefore, course activities require clearly demonstrating an understanding of the meaning of these concepts with regards to secondary education in both verbal and written form. Prerequisite: MAT-252.

#### MAT-470<sup>△,•</sup> Mathematical Modeling 4 credits

This writing intensive course is an introduction to the construction and analysis of mathematical and statistical models in diverse areas of human endeavor. Students use tools and approaches to solve challenging problems. Prerequisites: MAT-253 and MAT-345.

### MAT- Mathematical Modeling 4 credits $470\text{HN}^{\triangle/\Phi}$ :

This writing intensive course is an introduction to the construction and analysis of mathematical and statistical models in diverse areas of human endeavor. Students use tools and approaches to solve challenging problems. Prerequisites: MAT-252, MAT-253, MAT-345 and MAT-274.

## MAT-480: Methods of Teaching Mathematics 4 credits in Secondary Schools

This course is designed to develop an understanding and ability to apply the methods and principles of effective instruction using mathematics in the secondary classroom. This course examines different learning modalities, instructional strategies, and the use of technology to help plan and teach effective mathematical lessons that increase student achievement and are aligned to the mathematics standards. Practicum/field experience hours: 15. Fingerprint clearance required.

#### MAT-505: Discrete Math: Data-Analysis 4 credits

This course looks at evidence-based data analysis from a discrete mathematics perspective. Emphasis is placed on fundamental understanding of statistical descriptors. The theoretical framework is developed through applications in cognition and instruction. Prerequisite: MAT-513.

#### MAT-512: Graduate Linear Algebra 4 credits

This course covers graduate-level concepts in linear algebra to prepare the learner for a deeper understanding of mathematical practices beyond an undergraduate level.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### MAT-513: Graduate Algebra

4 credits

This course covers essential topics in graduate-level abstract algebra to prepare learners in their profession and to succeed in fulfilling future programmatic requirements. Prerequisite: MAT-512

#### MAT-525: History of Mathematical Thought 4 credits

The student is asked to use techniques of mathematical proof to trace the development of important foundations of thought and advances in mathematical thinking. This course follows the evolution of mathematics through history in its attempt to represent and understand the world around us. Topics covered include induction, logic, discrete analysis, calculus, and linear programming. Emphasis is placed on how a mathematical topic originated within its historical context and the theory used to support it.

#### MAT-550: Mathematical Modeling 4 credits

The student is introduced to the techniques and examination of graduate-level mathematical modeling, including formulation, application, and analysis of a mathematical model. Topics covered include differential equations, computational methods, regression, and stochastic models. Emphasis is placed on applications and computational methods. Prerequisites: MAT-513, MAT-571, and MAT-574.

#### MAT-552: Applied Nonlinear Dynamics 4 credits

This course provides a brief overview of ordinary differential equations, geometric representation of ODE solutions, autonomous systems, flows on the line, linear systems and phase portraits, nonlinear systems, local and global behavior, linearization, stability, and bifurcations. Applications include models extracted from population biology, ecology, and neurophysiology. Prerequisites: MAT-513 and MAT-550.

#### MAT-571: Real Analysis 4 credits

This course is an introduction to the rigorous theory underlying calculus, covering the real number system and functions of one variable. It is based entirely on mathematical proofs. The student is expected to know how to read and, to some extent, construct proofs before taking this course. Topics typically include the construction of the real number system, properties of the real number system, basic point set topology, continuous functions, and differential and integral calculus of functions. Prerequisite: MAT-513.

#### MAT-574: Graduate Probability and Statistics 4 credits

This course covers calculus-based probability and statistics with a focus on theoretical foundations while emphasizing applications in educational research in the mathematics classroom.

### Brass Instruments (MBE)

#### MBE-113\*: Private Applied Instruction-Secondary I

1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors. Prerequisites: Music Department approval and placement audition.

#### MBE-115<sup>♦</sup>: Private Applied Instruction I 2 credits

This course includes private instruction in the major instrument. Emphasis is on advanced technique and literature. Prerequisites: Music Department approval and placement audition.

#### MBE-123\*: Private Applied Instruction-Secondary II 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

#### MBE-125<sup>♦</sup>: Private Applied Instruction II 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-115 or Music Department approval and placement audition.

#### MBE-213\*: Private Applied Instruction-Secondary III 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

#### MBE-215<sup>♦</sup>: Private Applied Instruction III 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-125 or Music Department approval and placement audition.

#### MBE-223\*: Private Applied Instruction-Secondary IV 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

#### MBE-225<sup>♦</sup>: Private Applied Instruction IV 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-215 or Music Department approval and placement audition.

#### MBE-313\*: Private Applied Instruction-Secondary V 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

#### MBE-315<sup>♦</sup>: Private Applied Instruction V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-225 or Music Department approval and placement audition.

#### MBE-323\*: Private Applied Instruction-Secondary VI 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### MBE-325<sup>♦</sup>: Private Applied Instruction VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-315 or Music Department approval and placement audition.

#### MBE-390 $^{\Omega \Phi}$ : Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

#### MBE-413\*: Private Applied Instruction-Secondary VII 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MBE-415<sup>♦</sup>: Private Applied Instruction VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-325 or Music Department approval and placement audition.

#### MBE-423\*: Private Applied Instruction-Secondary VIII 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

#### MBE-425<sup>♦</sup>: Private Applied Instruction VIII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MBE-415 or Music Department approval and placement audition.

### MBE-490 $^{\Omega \Phi}$ : Senior Recital 0 credit

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### Music Education (MED)

### MED-200♦: Instrumental Techniques: Low 1 credits Brass

This course is a practical study of low brass instruments in which students learn to play, care for, and teach each instrument.

#### **MED-201**<sup>♦</sup>: Instrumental Techniques: Strings 1 credits

This course is a practical study of the high and low string instruments in which students learn to play, care for, and teach each instrument.

### MED-202<sup>♦</sup>: Instrumental Techniques: Brass 1 credits

This course is a practical study of the high and low brass instruments in which students learn to play, care for, and teach each instrument.

#### MED-203♦: Instrumental Techniques: Winds 1 credits

This course is a practical study of the wind instruments in which students learn to play, care for, and teach each instrument. Practicum/field experience hours: None. Fingerprint clearance not required.

## MED-205\*: Instrumental Techniques: High 1 credits Brass

This course is a practical study of high brass instruments in which students learn to play, care for, and teach each instrument.

### MED-210\*: Instrumental Techniques: Clarinet 1 credits and Saxophone

This course is a practical study of the clarinet and saxophone in which students learn to play, care for, and teach each instrument.

### MED-215\*: Instrumental Techniques: Double 1 credits Reeds and Flutes

This course is a practical study of flute and double reed instruments in which students learn to play, care for, and teach each instrument.

#### MED-220<sup>♦</sup>: Marching Band Techniques 1 credits

This course is a practical study of organizing and training marching bands for high schools and at the collegiate level.

### MED-225\*: Instrumental Techniques: 1 credits Percussion

This course is a practical study of percussion instruments in which students learn to play, care for, and teach each instrument.

#### MED-245: Strings Instructional Methods 1 credits

This course is designed to provide both practical and theoretical information relating to the pedagogy and performance of string instruments. Students will learn similarities and differences between standard instruments while beginning to develop physical techniques required to play them. Students will learn pedagogical skills necessary for teaching instruments to others, including a survey and critique of standard literature for each instrument. Practicum/field experience hours: 2. Fingerprint clearance required.

### MED-246: Brass Instructional Methods 1 credits

This course is designed to provide both practical and theoretical information relating to the pedagogy and performance of brass instruments. Students will learn similarities and differences between standard instruments while beginning to develop physical techniques required to play them. Students will learn pedagogical skills necessary for teaching instruments to others, including a survey and critique of standard literature for each instrument. Practicum/field experience hours: 2. Fingerprint clearance required.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### MED-248: Woodwinds Instructional Methods 1 credits

This course is designed to provide both practical and theoretical information relating to the pedagogy and performance of woodwinds instruments. Students will learn similarities and differences between standard instruments while beginning to develop physical techniques required to play them. Students will learn pedagogical skills necessary for teaching instruments to others, including a survey and critique of standard literature for each instrument. Practicum/field experience hours: 2. Fingerprint clearance required.

### MED-249: Percussion Instructional Methods 1 credits

This course is designed to provide both practical and theoretical information relating to the pedagogy and performance of percussion instruments. Students will learn similarities and differences between standard instruments while beginning to develop physical techniques required to play them. Students will learn pedagogical skills necessary for teaching instruments to others, including a survey and critique of standard literature for each instrument. Practicum/field experience hours: 2. Fingerprint clearance required.

## MED-260: Instrumental Pedagogy & 4 credits Literature

This course considers instrumental ensemble literature, publishers, and composers, arrangers, and their styles through study of techniques and literature for rehearsing and conducting instrumental music in the schools. Common performance and teaching obstacles encountered are addressed via examination and analysis of prevailing pedagogies for instrumental ensembles, including performance techniques, score preparation, rehearsal techniques, programming, and the administration of an instrumental program. Practicum/field experience hours: 20. Fingerprint clearance required.

### MED-261: Choral Pedagogy & Literature 4 credits

This course considers choral literature, publishers, and composers, arrangers, and their styles through study of techniques and literature for rehearsing and conducting choral music in the schools. Common performance and teaching obstacles encountered are addressed via examination and analysis of prevailing pedagogies for choral ensembles, including performance techniques, score preparation, rehearsal techniques, programming, and the administration of a choral program. Practicum/field experience hours: 20. Fingerprint clearance required.

### MED-320: Technology for Music Educators 2 credits

Students will study and utilize a variety of music technologies such as computer software, hardware, networking, multimedia, interactive media, and the Internet in order to foster inquiry, collaboration, and interaction in classroom to meet the needs of a diverse student population.

## MED-335: Fundamentals of Music and Culture for Diverse Learners

3 credits

Students study music as culture, and explore the historical, philosophical, and sociological influences that have shaped music, ethnomusicology, and music education. This course also examines the issues faced by educators today, as well as the challenges that await people now entering the teaching profession. The course covers the unique learning needs of exceptional students. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the music classroom. Practicum/field experience hours: 15. Fingerprint clearance required.

## MED-335N: Fundamentals of Music and Culture for Diverse Learners 3 credits

Students study music as culture, and explore the historical, philosophical, and sociological influences that have shaped music, ethnomusicology, and music education. This course also examines the issues faced by educators today, as well as the challenges that await people now entering the teaching profession. The course covers the unique learning needs of exceptional students. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the music classroom. Practicum/field experience hours: 10. Fingerprint clearance required.

## MED-340: Teaching General Music in the Elementary and Secondary Schools 2 credits

An introductory course to music education, this course is a study and demonstration of methods, materials, topics and issues in teaching general music in the schools. The course will cover methods, approaches, and philosophies of teaching general music as they relate to current national and Arizona music education standards. A study is made of activities implemented with each grade level. Lesson plans are prepared. Students visit classrooms to observe teaching situations. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisites: MED-355 or MED-355N and MED-365 or MED-365N.

## MED-340N: Teaching General Music in the 2 credits Elementary and Secondary Schools

An introductory course to music education, this course is a study and demonstration of methods, materials, topics and issues in teaching general music in the schools. The course will cover methods, approaches, and philosophies of teaching general music as they relate to current national and Arizona music education standards. A study is made of activities implemented with each grade level. Lesson plans are prepared. Students visit classrooms to observe teaching situations. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisites: MED-355 or MED-355N and MED-365 or MED-365N.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MED-355: Music Methods and Assessment in 2 credits the Elementary School

This course is a study and demonstration of methods and materials for the first six grades. Students will be introduced to a number of methodologies including Orff, Dalcrose, Kodaly, and Suzuki, and explore their conceptual pedagogical framework, methodology, application and assessment. A study is made of activities implemented with each grade level. Lesson plans are prepared. Students visit classrooms to observe teaching situations. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MED-320.

## MED-355N<sup>f</sup>: Music Methods and Assessment in 2 credits the Elementary School

This course is a study and demonstration of methods and materials for the first six grades. Students will be introduced to a number of methodologies including Orff, Dalcroze, Kodaly, and Suzuki, and explore their conceptual pedagogical framework, methodology, application and assessment. A study is made of activities implemented with each grade level. Lesson plans are prepared. Students visit classrooms to observe teaching situations. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MED-320.

## MED-365: Music Methods and Assessment in 2 credits the Secondary School

This course is a study of methods for developing and conducting the music program in junior and senior high schools, focusing on general pedagogy, curriculum, and assessment. Methods, materials, topics, and issues in music education will be used to prepare music education majors to enter the teaching profession. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MED-320.

## MED-365N<sup>i</sup>: Music Methods and Assessment in 2 credits the Secondary School

This course is a study of methods for developing and conducting the music program in junior and senior high schools, focusing on general pedagogy, curriculum, and assessment. Methods, materials, topics, and issues in music education will be used to prepare music education majors to enter the teaching profession. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MED-320.

## MED-371: Teaching General Music in the Elementary and Secondary Schools

An introductory course to music education, this course is a study and demonstration of methods, materials, topics and issues in teaching general music in the schools. The course will cover methods, approaches, and philosophies of teaching general music as they relate to current national and Arizona music education standards. A study is made of activities implemented with each grade level. Lesson plans are prepared. Students visit classrooms to observe teaching situations. Practicum/field experience hours: 35. Fingerprint clearance required. Prerequisites: MED-355 or MED-355N and MED-365 or MED-365N.

### MED-375: Methods of Teaching Music I 4 credits

This course is a beginning study of developing and conducting a music program in the schools—focusing on pedagogy, curriculum, and assessment. Methods, materials, topics, and issues in music education will be examined. Sample activities implemented within each grade level will be studied and associated lesson plans prepared. Classroom observations to examine a variety of music-teaching situations are required. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MED-260 or MED-261.

### MED-390: Methods of Teaching Music II 4 credits

This course is an advanced study of developing and conducting a music program in the schools—focusing on pedagogy, curriculum, and assessment. Methods, materials, topics, and issues in music education will be examined. Sample activities implemented within each grade level will be studied and associated lesson plans prepared. Classroom observations to examine a variety of music-teaching situations are required. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MED-375.

### MED-415<sup>♦</sup>: Band Methods and Pedagogy 2 credits

A study of advanced problems in rehearsing and conducting at the high school level. An examination and analysis of the prevailing band philosophies, including performance techniques, score preparation, rehearsal techniques, programming, and administration of the band program.

## MED-430\*: Vocal Pedagogy for Music 2 credits Educators

This course is a study of skills for the teaching of voice to individuals or groups. The physical voice, vocal health, and potential vocal problems are analyzed as well as historical methods of correction.

## MED-480 $A^{\Omega}$ : Student Teaching: Elementary 6 credits Music

Teacher candidates are required to fulfill an 8-week internship experience in a classroom with a certified, experienced teacher. The semester includes the opportunity to improve skills in classroom management, assessment, and professional preparation, and to utilize applicable content standards and Interstate Teacher Assessment and Support Consortium (InTASC) standards within the classroom. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching. Prerequisites: for A: Fingerprint Clearance and one of the following combinations: 1) Successful completion of all courses in the Program of Study, a 2.8 GPA, and approval and placement by the Office of Field Experience and Certification; or 2) Successful completion of all courses in POS and content area; senior status; a 2.8 GPA; successful completion of state mandated basic skills and content area exams or Praxis I ® (Basic Skills) and Praxis II ® (Content Area); Arizona residents will be required to take the Arizona Educator Proficiency Assessments (AEPA).

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Teacher candidates are required to fulfill an 8-week internship experience in a classroom with a certified, experienced teacher. The semester includes the opportunity to improve skills in classroom management, assessment, and professional preparation, and to utilize applicable content standards and Interstate Teacher Assessment and Support Consortium (InTASC) standards within the classroom. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching. Prerequisites: for B: Fingerprint Clearance and one of the following combinations: 1) Successful completion of all courses in the Program of Study, a 2.8 GPA, and approval and placement by the Office of Field Experience and Certification; or 2) Successful completion of all courses in POS and content area; senior status; a 2.8 GPA; successful completion of state mandated basic skills and content area exams or Praxis I ® (Basic Skills) and Praxis II ® (Content Area); Arizona residents will be required to take the Arizona Educator Proficiency Assessments (AEPA).

### Mechanical Engineering (MEE)

### MEE-335: Aerospace Propulsion & Lab 4 credits

The course provides theories of thermodynamics of propulsion that are applied in air-breathing and rocket propulsion system. Students are given introduction to one-dimensional compressible internal flow, thermodynamics of aircraft jet engines including ramjets, turbojet, turbofan, turboprop, and turboshaft engines. Students are also provided performance analysis of main components of gas turbine engines such as inlets, compressors, combustors, turbines, and nozzles. Prerequisite: STG-330.

## MEE-340<sup>4</sup>: Structure and Property of 3 credits Materials

This course covers basic concepts in materials structure and its relation to properties. The course will provide students with a broad overview of materials science and engineering. The goal of this course is to understand the fundamental reasons that materials have the properties they do. Students examine properties of interesting materials and try to understand them in terms of their actual atomic or molecular structure. Prerequisite: CHM-115, CHM-115L, PHY-122, PHY-122L, MAT-364. Co-Requisite: MEE-340L.

## MEE-340HN\*: Structure and Property of 3 credits Materials

This course covers basic concepts in materials structure and its relation to properties. The course will provide students with a broad overview of materials science and engineering. The goal of this course is to understand the fundamental reasons that materials have the properties they do. Students examine properties of interesting materials and try to understand them in terms of their actual atomic or molecular structure. Prerequisite: CHM-115, CHM-115L, PHY-122, PHY-122L, MAT-364. Co-Requisite: MEE-340LHN.

This is the lab section of MEE-340. The course reinforces theoretical concepts covered in lecture and with hands-on activities. Students conduct lab experiments to better understand how certain properties of materials manifest themselves. Prerequisite: CHM-115, CHM-115L, PHY-122, PHY-122L, MAT-364. Co-Requisite: MEE-340.

## MEE- Structure and Property of 1 credits 340LHN<sup>i</sup>: Materials Lab

This is the lab section of MEE-340. The course reinforces theoretical concepts covered in lecture and with hands-on activities. Students conduct lab experiments to better understand how certain properties of materials manifest themselves. Prerequisite: CHM-115, CHM-115L, PHY-122, PHY-122L, MAT-364. Co-Requisite: MEE-340HN.

### MEE-352: Solid Mechanics & Lab 4 credits

This course covers concepts and theories of internal force, stress, strain, and strength of structural elements under static loading conditions. The course also examines constitutive behavior for linear elastic structures and deflection and stress analysis procedures for bars, beams, and shafts. Students will examine and analyze various modes of failure of solid materials. Prerequisites: ESG-250 or ESG-251, ESG-260 or ESG-360, and MAT-364.

### MEE-360: Dynamics 3 credits

This course introduces the principles of kinematics and kinetics as they apply to engineering systems and analyses. This course covers Newton's second law, work-energy and power, impulse and momentum methods. Additional topics include vibrations and an introduction to transient responses. Simulation with Solidworks and MATLAB are also covered. Prerequisite: ESG-260. Co-Requisite: MEE-360L.

### MEE-360L: Dynamics Lab 1 credits

This course utilizes lab experimentation and computer simulation to further explore the concepts and principles introduced in the MEE-360 lecture course. Students will learn how to set up and perform engineering tests and simulations in the context of complex, real-world engineering problems. Prerequisite: ESG-260. Co-Requisite: MEE-360.

## MEE-440: Structures of Composite Materials 2 credits for Aerospace

The course introduces mechanics of aircraft materials and structures including stress and strain analysis, torsion, bending, failure criteria, buckling, fatigue, and composite laminates analysis. Students will be introduced to aerospace standards for design, structural integrity, system safety, dynamic stresses, and case studies. Prerequisites: MEE-352 and MEE-340.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **MEE-445:** Heat Transfer & Lab

4 credits

This course is an introduction to heat transfer. Concepts of conduction, convection, and radiation will be explored. Methods for analysis of steady and unsteady conduction, laminar and turbulent convection, and radiation will be introduced. Heat exchanger design and analysis methods will be addressed. The concept of mass transfer will also be introduced. Students will use learn simulation methods using the SolidWorks software. Prerequisite: ESG-345.

### MEE-450: Aerodynamics & Lab 4 credits

The course provides students fundamental principles of incompressible and compressible flow, performance analysis of airfoil in subsonic and supersonic flow, and design applications. Students are introduced to theories and practical application of aerodynamics including flow over finite wings, through nozzles, diffusers, and wind tunnels. Prerequisite: ESG-345.

## MEE-455: Dynamics and Controls of Flight & 4 credits Lab

The course introduces fundamental theories of control system and application to flight control. Students are introduced to mathematical models of dynamics systems, transient-response analysis, and root-locus analysis. Additional topics include control systems design by frequency response, application of root-locus method and PID controls. Prerequisites: MEE-360, MEE-360L, and MEE-450.

## MEE-457: Dynamics and Controls of Robotics 4 credits & Lab

This course examines the development of mathematical models and the control of dynamic systems through classical methods. Students investigate the central ideas of this course through robotics applications culminating in a final project wherein a robot is built and a control system is designed for a specified task. Topics include transfer functions, time domain analysis, analysis of open- and closed-loop systems in both the time and frequency domains, feedback-control methods, analytical tools such as MATLAB/Simulink is used to simulate the modeled systems and to determine controller parameters. Prerequisite: ESG-330, MEE-473. Co-Requisite: MEE-476.

## MEE-460: Mechanical Instrumentation and 4 credits Devices & Lab

This course introduces standard mechanical tests and computer based data acquisition techniques, e.g., installing thermocouples, strain gages, positioning static and probes. ASME and ASTM test codes are studied, as are OSHA standards. The course examines how various physical property and system performance tests are set up, conducted, and analyzed. Prerequisites: EEE-202, EEE-202L, and MAT-364.

### MEE-471<sup>♦</sup>: Principles of Mechanical Design I 2 credits

Machine elements are selected and designed based on theories and methods developed in statics, dynamics, and strength of materials. Individual components will also be analyzed using CAE methods. Prerequisite: MEE-460, ESG-360.

### MEE-472: Principles of Mechanical Design II 2 credits

This course covers the integration of machine elements into a system and the verification that the resulting system performs as intended in its operational environment. Areas of study include technical planning, requirements management, integration, verification, validation, and production. Prerequisite: ESG-360.

## MEE-473: Mechanical Design Principles I & 2 credits Lab

This course covers the integration of machine elements into a system and the verification that the resulting system performs as intended in its operational environment. Areas of study include technical planning, requirements management, integration, verification, validation, and production. Prerequisites: (MEE-352 and MEE-360 and MEE-360L) or (ESG-360).

## MEE-474: Mechanical Design Principles II & 2 credits Lab

Machine elements are selected and designed based on theories and methods developed in statics, dynamics, and strength of materials. Individual components will also be analyzed use CAE methods. Prerequisite: MEE-473.

### MEE-475: Aerospace Design Principles & Lab 2 credits

The course introduces fundamental principles of aircraft design. Students perform a group-based aircraft design with skills and knowledge acquired in aerospace curriculum. Aircraft design mission includes overview of design process, standards, aircraft sizing, airfoil and wing/tail geometry selection, aircraft configuration layout, propulsion and fuel system selection, analysis of aircraft performance, stability, control, flight safety, structures, and cost. Prerequisite: MEE-473.

### MEE-476: Robotics Design Principles & Lab 4 credits

The objective of this course is to give students hands on experience in the application of robotics. Students will conduct a series of projects, some of which they will scope, that will explore various robotic test beds. Students will become well versed in the program and control of various robotic systems. Analytical tools such as MATLab/Simulink will be used to model and simulate robots. Prerequisite: ESG-330, MEE-473. Co-Requisite: MEE-457.

## MEE-480: Electro-Mechanical Systems and 4 credits Controls & Lab

This course is an introduction to designing electro-mechanical systems, or mechatronics, which require integration of the mechanical and electrical engineering disciplines within a unified framework. Topics covered in the course include: application of electro-mechanical systems; measurement and sensing; actuators; interfacing of devices to controllers; programming controllers for real-time tasks; feedback control of electro-mechanical systems including servo controls. Prerequisites: ESG-455 and MEE-460.

### Music Ensemble (MEN)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MEN-305<sup>♦</sup>: Musical Theater Workshop

0 credits

Musical Theatre Workshop develops students' singing, dancing, and acting skills through application of technique to rehearsal and performance. Emphasis is placed on a performer's role in an ensemble and the importance of choral movement, sound, and focus. Students are walked through the entire production process, from audition, to rehearsal, to performance, and are guided through techniques unique to the musical theatre experience, like stylistic study, body conditioning, diction, and ornamentation. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### MEN-306♦: Canyon Choral Society

0 credits

0 credits

This large choral non-auditioned campus community ensemble performs masterworks of the choral-symphonic literature, with major presentations in the Fall and Spring. The Canyon Choral Society is open to the students, faculty, and staff of Grand Canyon University and to the Phoenix community at large. Members of the Canyon Chorale, Critical Mass, and Canyon Singers are required to participate in the Canyon Choral Society. This course must be repeated each semester of residency This course must be repeated each semester of residency

### MEN-308♦: Canyon Chorale

The Canyon Chorale is an auditioned ensemble presenting the best in choral literature from historic masterworks of all stylistic periods and different cultures. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. The chorale performs on campus, in the metropolitan Phoenix and Tucson areas, and in churches and schools throughout the region. All members of the Canyon Chorale are required to participate in the Canyon Choral Society. Prerequisite: Admission into this ensemble by audition only or instructor's permission. This Course must be repeated each semester of residency

### MEN-312<sup>♦</sup>: Opera Workshop

0 credits

This course is a workshop in developing the techniques and skills of operatic performance, including a fully staged opera production. Emphasis will be placed equally on singing and acting skills providing students with the opportunity to study, develop, and improve their dramatic skills outside of their voice studios and gain valuable stage experience through performances of fully staged operatic works. This experience should also help students to better understand the development of performance practice as it relates to other historical, theoretical, and compositional music studies. Detailed musical coaching will include stylistic study, diction, ornamentation, and discussions of performance practice. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### MEN-314<sup>♦</sup>: Canyon Singers

0 credits

This auditioned chamber-sized ensemble is geared towards music majors and those with significant choral experience. Its repertory includes a variety of music, from Renaissance madrigals to contemporary selections, and music from non-western traditions, performing on campus and in the community. All members of the Canyon Singers are required to participate in the Canyon Chorale and in the Canyon Choral Society. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### **MEN-315:** Critical Mass

0 credits

This is a traveling vocal ensemble with a strong emphasis on Christian character, student leadership, and music that promotes the espoused mission of the University and the vision of the music department. Preparation and availability for touring is required. The ensemble is on the road during the school year, spring break and summer break representing Grand Canyon University at churches, schools, special events, and other venues throughout the United States and abroad. Emphasis is placed on musical excellence and individual commitment. All members of Critical Mass are required to participate in the Canyon Choral Society and other ensembles as assigned by the department. Prerequisites: Music Department approval and placement audition.

## MEN-318 $^{\Omega \Phi}$ : Collaborative Music Ensemble 0 credits Majors

Coached instruction in chamber and small ensemble settings. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission. Co-Requisite: Enrollment in Private Studio instruction.

### **MEN-334**♦: Percussion Ensemble

0 credits

The Percussion Ensemble provides students with the opportunity to develop their musical skills through rehearsal and performance in a percussion ensemble. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### MEN-336<sup>♦</sup>: Pep Band

0 credits

The Pep Band provides students with the opportunity to develop their musical skills through rehearsal and performance in a band ensemble. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission. This course must be repeated each semester of residency.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MEN-338♦: Wind Ensemble

0 credits

The Wind Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The Wind Ensemble also offers non-music majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission. This course must be repeated each semester of residency.

### MEN-338A♦: Woodwind Chamber Ensemble 0 credits

The Woodwind Chamber Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process in a small ensemble setting concentrating in the chamber music repertory. The Woodwind Chamber Ensemble also offers non-music majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### MEN-338B♦: Brass Chamber Ensemble 0 credits

The Brass Chamber Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process in a small ensemble setting concentrating in the chamber music repertory. The Brass Chamber Ensemble also offers nonmusic majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### MEN-340: String Ensemble 0 cred

The String Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The String Ensemble also offers non-music majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Prerequisites: Music Department approval and placement audition.

### MEN-340A: String Chamber Ensemble

0 credits

The String Chamber Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process in a small ensemble setting concentrating in the chamber music repertory. The String Chamber Ensemble also offers nonmusic majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

#### MEN-340B: Guitar Ensemble

0 credits

The Guitar Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The Guitar Ensemble also offers non-music majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Prerequisites: Music Department approval and placement audition.

### **MEN-340C:** Piano Ensemble

0 credits

The Piano Ensemble is comprised of music majors, minors, and students from other disciplines. Musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The Piano Ensemble also offers non-music majors an avenue in which to continue making music throughout their college careers. The literature performed is selected from the finest contemporary and traditional repertoire. Prerequisites: Music Department approval and placement audition. This course must be repeated each semester of residency

### MEN-348♦: Jazz Band

0 credits

The Jazz Band is a performance ensemble designed to provide the student with experience performing jazz-oriented material. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### **MEN-350:** GCU Philharmonic Society

0 credits

The GCU Philharmonic Society is our campus community orchestra. It performs masterworks of the symphonic literature, with major presentations in the Fall and Spring. The GCU Philharmonic Society is open to the students, faculty, and staff of Grand Canyon University, and to the Phoenix community at large. Prerequisite: Admission into this ensemble by audition only or instructor's permission.

### Mechanical Engineering Technology (MET)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### MET-203**♦**: Strength of Materials & Lab

This course covers concepts of the strength of materials. Principally, the strength characteristics of metals will be examined including their performance in bending, torsion, shear, and uniaxial loading conditions. Additional topics will include buckling and pressure vessel calculations. Prerequisite: MET-212 or ESG-260.

4 credits

#### MET-212**♦**: Static Analysis of Mechanical 4 credits Systems & Lab

This course covers static loading conditions in mechanical systems. Topics in this course include resolution of forces in both trusses and frames. Prerequisites: PHY-111 and PHY-111L. Co-Requisite: ESG-250.

#### MET-213<sup>♦</sup>: 4 credits **Dynamic Analysis of Mechanical** Systems & Lab

This course will examine both kinetics and kinematics of components and systems including the examination of mechanisms in dynamics. Prerequisite: MET-212.

#### MET-275<sup>♦</sup>: Computerized Design and 4 credits Manufacturing Tools in MET & Lab

This course is an extension of Computer-Aided Engineering (CAE) for Mechanical Engineering Technology.. Tools for Computer-Aided Design (CAD), Computer-Aided Manufacturing (CAM), and CAE, in general will be used in a variety of industrial applications. Emphasis will be placed upon how these computerized tools can be used in design and manufacturing including the introduction of Computerized Numerical Control (CNC) systems for the generation of tools paths and tool design. Prerequisite: ESG-250 or ESG-251.

#### **MET-291: Applications of Machine Shop** 2 credits Tools & Lab

This course emphasizes appropriate machine shop tool selection for the job in regard to cutting, drilling, milling, and turning. Hands-on activities in the machine shops focus on safe operation of the equipment. The course also covers the three principle orthographic views of an object and how to draw by hand for engineering applications. Co-Requisite: ESG-251.

#### MET-302\*: Principles of Design I & Lab 4 credits

This course covers analytical and practical methods of design. analysis, and reliability of mechanical systems. Design component elements include gears, belts, pulleys, chains, brakes, and power screws. Basic stress calculations and material selection will also be discussed. Prerequisites: MET-212 and MET-275 or ESG-260 and MET-275.

#### MET-308<sup>♦</sup>: Fluid/Thermal Transport & Lab 4 credits

This course examines fluid mechanics and heat transfer. Topics include flow measurement, pressure drop, heat exchangers, and hydraulics and their subsequent industrial applications. Prerequisites: MET-213 and CHM-113 or MEE-360 and CHM-113.

#### MET-312<sup>♦</sup>: Metrology and CNC Machining & 4 credits

This course covers the use of Computerized Numerical Control (CNC) machine tools. Topics include Geometric Dimensioning and Tolerancing (GD&T) and CNC programming. The course emphasizes safety and process planning. Prerequisites: PHY-111, PHY-111L and MET-275.

#### MET-315**♦**: Material and Processes & Lab

This course examines the different aspects of material use in manufacturing processes. Topics include mechanical properties of metals, composites, atomic structure, corrosion, creep, failure theories, and heat treatment. Prerequisites: MET-203 and CHM-

#### MET-402<sup>♦</sup>: Principles of Design II & Lab 4 credits

This course is an extension of Principles of Design I and furthers the understanding of the design of mechanical systems. Failure theories and overall design considerations such as engineering economics and ethics will be covered. Prerequisite: MET-302

### MET-418<sup>♦</sup>: Heat and Power Generation & Lab 4 credits

This course examines the fundamental laws which exist in thermodynamics. Topics include ideal gases, mixtures, power and refrigeration cycles. Emphasis will be placed on applying knowledge to heating, ventilating, and air conditioning (HVAC) and refrigeration systems. Prerequisite: MET-308.

### **MET-484:** Computer Aided Manufacturing & 4 credits

This course will cover the various considerations that need to be addressed when designing a part for different types of manufacturing. Students will explore a variety of aspects of design for manufacturing (DFM), utilizing CAM software for part design, mold design, CNC machining, plasma cutting, and additional applications. Prerequisite: MET-275. Co-Requisite: ESG-461.

### Marriage and Family Therapy (MFT)

#### MFT-526: **Advanced Family Systems Theory** 3 credits

This course examines the dynamic processes of traditional and nontraditional family and couple relationships and the role, value, and benefits of family systems therapy. The biopsychosocial perspectives of family and family systems are evaluated along with the foundational development of marriage and family therapy. Assessment and treatment of couples and families are also addressed.

#### MFT-532: Family Systems and Addictive 3 credits Disorders

This course examines the impact of substance use and addictive disorders on family systems. Various treatment interventions are discussed. The treatment roles and responsibilities of addicted individuals and their families are also examined.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MFT-620: Diversity in Family Systems

3 credits

This course examines the dynamic processes of diverse family systems, including multicultural families, blended families, same-sex parents, grandparents as primary caregivers, single-parent families, adoptive, foster, transitional families, and separated families.

## MFT-621: Couples and Family Dynamics: 3 credits Systemic Perspectives

This course examines the development of problems within the family of origin, and the historical and theoretical perspectives of couples and family system dynamics. It addresses the dynamics of the parent/child relationship, family of origin influences, partner selection, and premarital therapy. Family roles and interactional patterns are examined, as are parenting and changes in the parental relationships across the lifespan, resilience, and divorce. Skills and techniques relevant to couples, premarital counseling, family therapy, parenting, and lifestyle transitions are explored.

### Management (MGT)

## MGT-325\*: Managing Business 4 credits Communications and Change

This course focuses on effective change strategies and communication skills required in modern organizations. Students examine various approaches of effective and persuasive communication at all levels of an organization, including analyzing the need for change and overcoming communication barriers. Students will also learn how to negotiate and convey important information leading to the facilitation of organizational change in today's dynamic workplace.

### MGT-410<sup>♦</sup>: Servant Leadership 4 credits

This course focuses on servant leadership and ethical leadership, explores how servant leadership is different from other styles of leadership, and examines how this connects to ethics, accountability, and being a responsible leader.

## MGT-420<sup>f</sup>: Organizational Behavior and 4 credits Management

Drawing upon real-world management situations, this course is a study of individual and group behavior in organizations through detailed coverage of the functions of management, individual differences/diversity, leadership, motivation, decision making, organizational design, and organizational change and development. Emphasis is placed on how an understanding of organizational behavior leads to effective management practice.

### MGT-422HN\*: Honors for Organizational 4 credits Behavior and Management

Drawing upon real-world management situations, this course is a study of individual and group behavior in organizations through detailed coverage of the functions of management, individual differences/diversity, leadership, motivation, decision making, organizational design, and organizational change and development. Emphasis is placed on how an understanding of organizational behavior leads to effective management practice.

### MGT-434: Human Resources

4 credits

This course is a study of the human resource management function in organizations, including detailed coverage of staffing, organizational development, compensation and benefits administration, and employee relations. Emphasis is placed on how human resource management as a whole enhances organizational performance and success. Prerequisite: HIM-425, MGT-420, or MGT-422HN. Equivalent to AMP-434.

### MGT-440: Project Management 4 credits

This course is a study of the challenges associated with managing projects within the context of the overarching management framework of planning, organizing, leading, and controlling. Emphasis is placed on balancing competing priorities related to human resources, time constraints, and physical resources/materials, as well as managing and controlling project scope.

## MGT-455<sup>4</sup>: Production/Operations 4 credits Management

This course provides an introduction to designing, planning, operating, and controlling production systems. Emphasis is on managerial concepts and strategies relating to the management of operations in both manufacturing and service environments. Quantitative and qualitative methods and tools are introduced and applied. Prerequisite: BUS-352, MAT-274, MAT-374, or ESG-374.

### MGT-460\*: Workforce Planning 4 credits

This course examines the human resources functions related to workforce planning and the practical application of these functions used by business and human resources leaders to execute strategic workforce planning effectively. Prerequisites: MGT-325 and MGT-434.

### MGT-465<sup>‡</sup>: Employee Relations 4 credits

This course explores the areas of Employee Relations within the field of Human Resources and helps prepare students to develop a working knowledge of employee relations that can help organizations identify and resolve workplace issues. Prerequisite: MGT-434.

### MGT-605: Leadership and Organizations 4 credits

The purpose of this course is to introduce students to the College of Business, key concepts of leadership, and an overview of how the science of organizational behavior contributes to effective leaders and managers.

## MGT-640: Fundamentals of Project 4 credits Management

This course covers fundamental aspects of traditional, agile, and hybrid project management. Microsoft Project competencies are developed while using a case study framework to illustrate the Project Management Institute's (PMI) standard of models, methods, and artifacts. Students also develop techniques for successfully planning, organizing, managing, closing, and evaluating projects.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MGT-641: Agile Project Management

4 credits

This course covers fundamental aspects of predictive, adaptive, and hybrid project management and the 12 principles of project management structured around eight project performance domains as delineated in the Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK) and the Standard for Project Management. In addition, it focuses on how agile software development, DevOps, value streams, and business teams work in an enterprise. This course prepares students for the Disciplined Agile Scrum Master (DASM), Disciplined Agile Senior Scrum Master (DASSM), and Project Management Professional (PMP) exams through a Collaborative Learning Community (CLC) case study project. The course also covers the basic logistics of taking these exams via the DASM, DASSM, and PMP GCU bootcamps. Prerequisite: MGT-640.

### MGT-655: Operations Management 4 credits

Operations Management examines managerial concepts and strategies relating to the management of operations in both manufacturing and service environments. Emphasis is placed on methods to streamline and drive inefficiencies out of a firm's internal processes to build a highly efficient organization. The course also focuses on external processes by examining ways to achieve greater supply chain integration with suppliers and customers. Quantitative and qualitative methods and tools are introduced and applied. Prerequisite: SYM-506.

### MGT-660: Strategic Management 4 credits

This capstone course focuses on preparing and conducting a strategic analysis of a selected publicly traded firm by assessing a changing business landscape to produce actionable intelligence used to develop a strategy focused on value creation. Students also engage in a product-focused simulation that provides a collaborative experience, providing an opportunity to apply creativity, business knowledge and skills to reflect on lessons learned in real time decision-making. Based on the results of the simulation and their strategic analysis, students are then required to prepare the framework of a strategic plan that creates significant value for all stakeholders. Prerequisites: MGT-605, MKT-607, ACC-650, and FIN-650.

### MGT-665: IT Project Management 4 credits

This course introduces project management techniques essential to the success of IT-driven organizations, including management of virtual teams and outsourcing. Students apply best practices for managing complex, collaborative IT projects with the goal of increasing quality and efficiency and adding value to organizations. Prerequisites: LDR-604, MIS-640, and MIS-652. Prerequisites: LDR-604, MIS-640, and MIS-652.

### MGT-670: Strategic Management of 4 credits Information Technology Capstone

This course presents principles for strategic management of information technology systems within organizations with emphasis on assessing the impact of emerging technologies; enterprise system solutions; and recommending, deploying, and evaluating solutions. Students have the opportunity to synthesize and practice what they have learned in the program by undertaking an applied project within the IT industry. Projects focus on IT and systems management solutions to contemporary business needs. Emphasis is on critical thinking and problemsolving skills applicable in contemporary, IT-driven business organizations. Prerequisites: MGT-665 and MIS-657.

## MGT-805: Designing Organizational 3 credits Structures

This course examines the foundational considerations of organizational design and the relationship between design and structures. It presents the key considerations relevant in designing and structuring the optimal organization. The theoretical foundations for such decisions are also presented.

### MGT-820: Using Business Analytics for 3 credits Competitive Advantage

Students will research the emerging use of business analytics in organizations. Through exploration of the available tools and models, this course will explore how analytics can be used for competitive advantage

### MGT-825: Contemporary Business Law 3 credits

Learners explore the legal aspects of business management in a global integrated enterprise. Emphasis is placed on ethically limiting organizational liability in a complex business environment by extending the perspective of business beyond profit.

## MGT-830: Management of Business 3 credits Complexity

This course provides the doctoral learner the opportunity to manage a fictitious business entity in which they balance conflicting resource requests. The doctoral learner applies the management, financial, marketing, technology, and economic skills acquired during the program of study to recommend policy decisions with the intent to increase stakeholder value, competitive advantage, and long term sustainability.

# Mental Health and Wellness (MHW)

## MHW-501: Introduction to Mental Health and 4 credits Wellness

This course is an introductory course in mental health and wellness practices. The purpose of the course is to develop a basic understanding of mental health and wellness practices and wellness approaches. An overview of mental health disorders, basic overview of treatment practices, and the Dimensions of Wellness are covered.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MHW-510: Ethics and Cultural Diversity in Mental Health and Wellness

This course covers ethics and cultural diversity as it relates to mental health and wellness. The history of ethics is addressed, including how early ethical models evolved into modern ethical codes in the mental health and wellness professions. How ethics relates to legal standards and issues such as records and billing are addressed. Cultural diversity, sensitivity, and competence are covered.

4 credits

## MHW-511: Mental Health, the Biblical 4 credits Narrative, and Christian Theology

This course explores relevant topics such as the nature of God and mankind, sin and psychopathology from a Christian worldview. A theology of pain and suffering from a biblical perspective is examined. A brief overview of mental health and social issues most likely to be seen in a ministry setting is explored.

## MHW-512: Introduction to Family Dynamics & 4 credits Systems

This course introduces students to the dynamics of the family unit. The family is examined as an interactive system of individuals whose roles and boundaries constantly shift to accommodate the needs of the collective family unit. The influence of relationships, interactional patterns, and communication among family members is covered through a systemic lens. Considering the function of behaviors will determine how problems are formed, perpetuated, and resolved within families.

## MHW-513: Grief and Bereavement Theory and 4 credits Practice

This course covers the history of grief theory research. It investigates common experiences of individuals experiencing a loss. The various forms of loss and the unique characteristics of grievers are examined. Resources for grief and bereavement are covered.

### MHW-514: Introduction to Prevention Science 4 credits

This course covers a history of prevention science and prevention programs. It examines what has been effective in the prevention field. The course reviews existing evidence-based prevention programs and practices, including how cultural differences have shaped the prevention field.

### MHW-520: Group Dynamics 4 credits

This course provides an examination of group dynamics, types of group process structures, and various strategies used for group facilitation. The course shows how group dynamics is applied to various participants in both therapeutic and organizational settings. The course explores the purpose of group interventions as a viable treatment approach and how the dynamics of a group impacts its participants.

## MHW-521: Integrating Psychology and Christian Theology

4 credits

This course explores the historical intersection of faith and science and how they apply to a contemporary setting. Various models of integration of psychology and Christian theology are examined. Students formulate their own understanding of the reciprocal relationship between psychology and Christian theology and examine implications for a ministry setting. Prerequisite: MHW-511.

### MHW-522: Family Development

4 credits

This course examines the family life cycle, the development of individuals within the family, and the family system as a whole. It includes a survey of how cognitive, moral, and psychosocial developmental theories relate to family development and the transitions between family life cycle stages.

### MHW-523: Journey of the Bereaved 4 credits

This course reviews typical biopsychosocial responses to grief and loss. It Identifies and eliminates myths surrounding the grief process and thoroughly examines healthy and unhealthy ways of coping with loss. The course looks at grief from the shared experience of family and community.

## MHW-524: Prevention Throughout the 4 credits Lifespan

This course covers the different developmental stages and the application of prevention strategies throughout the lifespan. The course examines evidence-based programs utilized throughout the developmental stages.

# MHW-630: Documentation, Research, & 4 credits Information Literacy in Mental Health & Wellness

This course provides a comprehensive overview of mental health and wellness practice in a community healthcare setting. The importance of documentation, including the maintenance, accuracy, and integrity of health care records, as well as the ethics and policies concerning documentation is covered. The basics of research in the mental health and wellness field, such as data collection, interpretation, and the ethical implications of research, are covered. Information literacy is also covered, to provide a basic framework of common terminology and communication in the integration of mental health and medicine.

## MHW-631: Spiritual Formation, Identity, and 4 credits Wellness

This course examines the physical, emotional, and spiritual health of the Christian helper. Focus is on maintaining vitality in ministry through healthy practices such as boundaries, spiritual disciplines, stress management, and healthy lifestyle practices. In addition, this course examines concepts of burnout, compassion fatigue, and trauma as it applies to ministry. Students explore the importance of self-care that entails a balanced approach to ministry.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MHW-632: Parenting

4 credits

In this course, students examine the many facets of parenting. The historical and theoretical influences of parenting in the United States are covered. How parenting changes throughout the life span as well as how parenting is different in various family contexts is investigated. Research and evidence-based parenting practices regarding character development and promoting positive behavior are covered as well as how various factors affect parenting such as drugs and alcohol, poverty, and medical and psychological diagnoses.

### MHW-634: Specific Prevention Topics 4 credits

This course reviews community and social health topics and the involvement of prevention science as the first line of defense. The SAMSHA prevention initiative is examined as well as the environmental influences on the implementation of effective prevention programming.

## MHW-640: Mental Health, Wellness, and 4 credits Health Care Integration 4

This course provides a comprehensive understanding of mental health, wellness, and health care, including the integration of these three fields. The course covers common mental health disorders, treatments, and supportive services, as well as an integrated focus on the mind and the body. The course examines the health challenges often faced by individuals with behavioral or mental health disorders, and it reviews appropriate services, interventions, preventative services, and treatments to achieve and maintain health and wellness.

### MHW-641: Mental Health Issues in Ministry 4 credits

This course exposes the Christian worker to a wide variety of life stressors that are issues needing attention in a ministry context. Students develop a practical ministry plan to address these needs. Prerequisite: MHW-521.

### MHW-642: Families in Contemporary Society 4 credits

This course takes a holistic look at the structure and function of the family in contemporary society as well as the many societal influences that affect the family. It examines how modern phenomena such as nontraditional family structures, and the proliferation of technology have impacted today's families and the way they interact with other community systems. Modern governmental guidelines and ethical challenges, including systems such as foster care, are also addressed. Additionally, the role of cultural norms in family systems and the importance of cultural awareness in working with families in the mental health care system is addressed.

## MHW-643: Death & Dying: the Influences of Cultural, Spiritual & Sociological Factors

This course explores how culture, spirituality, and society shape our understanding and experience of death and dying. While grief and loss are universal, how they are conceptualized and practiced around the world are largely determined by the confluence of these factors. Students become aware of how each of these overlapping areas have influenced their own views of death and dying as well as grasp a deeper understanding of others who are grieving.

## MHW-644: Community Program Development, 4 credits Implementation, and Evaluation

This course examines the design of effective community-based and other prevention programs. The strategies for implementing prevention programs and how to conduct effective evaluation of prevention programs is reviewed. The differences and interplay between intervention and prevention is covered, as well as the funding and administration of prevention programs.

## MHW-649 $^{\Omega}$ : Mental Health and Wellness 4 credits Capstone

This course provides a practical, real-world exploration of the mental health and wellness field. Special focus is given to careers in mental health and wellness. The common duties and tasks performed by workers in the mental health and wellness field are investigated. Concepts covered throughout the program are examined through practical application. This course is the last course in the program of study; all other course work must be completed before this course.

### Percussion Instruments (MIE)

### MIE-113\*: Private Applied Instruction-Secondary I 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors. Prerequisites: Music Department approval and placement audition.

### **MIE-115**♦: Private Applied Instruction I 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: Music Department approval and placement audition.

### MIE-123\*: Private Applied Instruction-Secondary II

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-125<sup>♦</sup>: Private Applied Instruction II 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-115 or Music Department approval and placement audition.

### MIE-213\*: Private Applied Instruction-Secondary III 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### **MIE-215**♦: Private Applied Instruction III 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-125 or Music Department approval and placement audition.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### MIE-223\*: Private Applied Instruction-Secondary IV

1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-225<sup>♦</sup>: Private Applied Instruction IV 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-215 or Music Department approval and placement audition.

### MIE-313<sup>4</sup>: Private Applied Instruction-Secondary V 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-315<sup>♦</sup>: Private Applied Instruction V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-225 or Music Department approval and placement audition.

### MIE-323\*: Private Applied Instruction-Secondary VI 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-325♦: Private Applied Instruction VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-315 or Music Department approval and placement audition.

### MIE-390 $^{\Omega \bullet}$ : Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### MIE-413\*: Private Applied Instruction-Secondary VII 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-415<sup>♦</sup>: Private Applied Instruction VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-325 or Music Department approval and placement audition.

### MIE-423\*: Private Applied Instruction-Secondary VIII 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MIE-425\*: Private Applied Instruction VIII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MIE-415 or Music Department approval and placement audition.

### MIE-490♦: Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### Christian Studies (MIN)

### MIN-104: Pastoral Identity Lab

1 credits

This lab explores pastoral self-reflection, anchoring one's identity in Christ, and preserving one's identity as roles change and responsibilities increase in life and ministry. This lab is designed to be an interactive, community experience which is not available via independent study.

### MIN-114: Spiritual Formation Lab 1 credit

This lab explores practical application of spiritual formation techniques necessary to maintain a vibrant relationship with Christ and others within the context of ministry. This lab is designed to be an interactive, community experience which is not available via independent study.

### MIN-204: Relational Skills Lab 1 credits

This lab explores the importance of relationships and associated skills, such as listening, conversation, hospitality, and conflict resolution for life and ministry. This lab is designed to be an interactive, community experience which is not available via independent study.

### MIN-214: Ministry Skills Lab 1 credits

This lab focuses on discovering, developing, and practicing skills for leading in ministry. Special attention is given to the shepherding aspects of pastoral ministry. This lab is designed to be an interactive, community experience which is not available via independent study.

### MIN-320<sup>/♠</sup>: Christian Character Formation 4 credits

This course examines the biblical truths, spiritual disciplines, virtues, and habits that contribute to the process of discipleship, form Christian character, and result in Christ-likeness. Special attention is given to the doctrine of sanctification and teaching related to ministerial ethics and the cultivation of Christ-like character. Prerequisites: BIB-106 and BIB-107 or BIB-100.

### MIN-430<sup>/♠</sup>: Ministerial Communication 4 credits

This course is a study of the theory and methods of oral communication with emphasis on the development of speaking and listening skills for application in ministerial contexts such as preaching, teaching, small group discussion, and interpersonal communication. Prerequisites: BIB-106, BIB-107, and BIB-355.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### MIN-430HN<sup>≠</sup>•:Ministerial Communication

4 credits

This course is a study of the theory and methods of oral communication with emphasis on the development of speaking and listening skills for application in ministerial contexts such as preaching, teaching, small group discussion, and interpersonal communication. Prerequisites: BIB-106, BIB-107, and BIB-355.

### MIN-480<sup>\*</sup>: Pastoral Leadership 4 credits

This course examines pastoral leadership skills needed to effectively navigate ministry. Special attention is given to pastoral identity, life management, shepherding and discipling, and the biblical qualifications for pastoral/ministerial leadership.

### MIN-494: Ministry Internship 4 credits

This course consists of an internship experience in an approved ministry setting. The course includes reinforcement of all program competencies, practical experiences, academic journaling, as well as a field experience log, and culminating reflection assignment. Students should begin the internship application process after completion of 80 credit hours in the program. Practicum/field experience hours: 180.

## MIN-500: Enchiridion on Ministry: Purpose, 4 credits Principles, and Practice

This course orients students to the seminary experience by focusing on the principled practices essential to navigating faithfully the rigors of graduate theological study and ministry life.

### MIN-505: Spiritual Formation and Mentoring 4 credits

This course is a study of spiritual growth focusing on students' own spiritual formation and application through mentoring of others.

### MIN-509: Christian Character Formation 4 credits

This course examines the biblical truths of the gospel and the corresponding virtues and habits that contribute to the process of discipleship. Students study God's work in the formation of Christ-like character as they learn to keep in step with the Spirit in all aspects of life. Special attention is given to the doctrine of sanctification and teaching related to ministerial ethics and character in the Pastoral Epistles. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-510: Christian Character Formation 4 credits

This course examines the biblical truths of the gospel and the corresponding virtues and habits that contribute to the process of discipleship. Students study God's work in the formation of Christ-like character as they learn to keep in step with the Spirit in all aspects of life. Special attention is given to the doctrine of sanctification and teaching related to ministerial ethics and character in the Pastoral Epistles.

## MIN-511: Foundations of Youth and Family 4 credits Ministry

This course provides a foundation for ministry to youth and families. Students consider biblical foundations for ministry to youth and families and how to apply and contextualize those foundations for today's changing world. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-515: Pastoral Care in a Ministry Context 4 credits

This course equips students to provide effective ministry leadership in the areas of pastoral care and counseling in the local church. Emphasis is placed on caring for individuals, families, and small groups by nurturing spiritual formation with biblical wisdom. In addition, this course seeks to equip ministry leaders with skills and tools for biblical counseling. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-515GAR: Pastoral Care in a Ministry Context 4 credits

This course equips students to provide effective ministry leadership in the areas of pastoral care and counseling in the local church. Emphasis is placed on caring for individuals, families, and small groups by nurturing spiritual formation with biblical wisdom. In addition, this course seeks to equip ministry leaders with skills and tools for biblical counseling. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-524: Evangelism and Discipleship 4 credits

This course is a practically oriented study of biblical principles and practices for faithfully communicating the gospel of Jesus Christ to non-Christians and guiding them toward spiritual maturity in Christ. Emphasis is placed on understandings, disciplines, and habits that facilitate the process of discipleship. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-526: Ministerial Ethics 4 credits

This course examines the biblical and theological foundations of Christian ethics along with an analysis of the roles and responsibilities of gospel ministry. Significant attention is given to self-care, personal morality, and character formation as well as ethical concerns unique to ministers as they lead, equip, shepherd, and intercede for God's people.

### MIN-526GAR: Ministerial Ethics 4 credits

This course examines the biblical and theological foundations of Christian ethics along with an analysis of the roles and responsibilities of gospel ministry. Significant attention is given to self-care, personal morality, and character formation as well as ethical concerns unique to ministers as they lead, equip, shepherd, and intercede for God's people.

## MIN-535: Communicating in a 21st Century 4 credits Ministry Context

This course prepares students to address various aspects of communication in a local church ministry setting. Emphasis is placed on the various opportunities and challenges to communicate the gospel in small groups, Bible study, and discipleship programs. In addition, the course addresses the need to develop communication skills for a contemporary ministry context. This course requires supervised ministry hours. Practicum/field experience hours: 45.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## MIN-535GAR: Communicating in a 21st-Century 4 credits Ministry Context

This course prepares students to address various aspects of communication in a local church ministry setting. Emphasis is placed on the various opportunities and challenges to communicate the gospel in small groups, Bible study, and discipleship programs. In addition, the course addresses the need to develop communication skills for a contemporary ministry context. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN- $601^{\Omega}$ : Christ-Centered Preaching 4 credits

This course is an integrative study of biblically sound principles and practices for rightly handling God's word for the purpose of developing skill in the preparation and delivery of expository sermons. Emphasis is placed on the Christological focus of the Old and New Testaments and the vital relationship between the character of the messenger and responsible exegesis. This course is offered in residency for non-traditional students. Prerequisites: HEB-501 and GRK-501.

## MIN-620: Stages of Development and Faith 4 credits Formation

This course helps students examine stages of human development and their impact on faith formation. Special attention is given to developmentally appropriate communication of biblical and theological content. Students develop strategies for discipling individuals and families. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-630: Mentoring and Counseling Youth 4 credits

This course is a study of techniques used in mentoring and providing a pastoral counseling ministry among youth.

### MIN-650: Conflict, Crisis, and Pastoral Care 4 credits

This course equips students with basic skills for pastoral care and conflict resolution, with special emphasis given to caring for the soul of the leader as he or she ministers to people during times of crisis. This course requires supervised ministry hours. Practicum/field experience hours: 45.

## MIN-655: Leading and Organizing Ministries 4 credits in the Church

This course furnishes practical training for ministry leaders. Emphasis is placed on both the leader's personal life and the organizational dynamics of the local church. In addition, this course aims to equip church leaders to manage and lead ministries in a multicultural and multigenerational context. This course requires supervised ministry hours. Practicum/field experience hours: 45.

## MIN-655GAR:Leading and Organizing Ministries 4 credits in the Church

This course furnishes practical training for ministry leaders. Emphasis is placed on both the leader's personal life and the organizational dynamics of the local church. In addition, this course aims to equip church leaders to manage and lead ministries in a multicultural and multigenerational context. This course requires supervised ministry hours. Practicum/field experience hours: 45.

### MIN-675: Biblical Leadership and Ministry 4 credits

This course introduces principles of biblical leadership and ministry through an examination of the roles and responsibilities of Christian leaders within churches and parachurch organizations. Coursework focuses on leadership, administration, ministry, and interpersonal relations within particular ministry contexts. Emphasis is placed on living a life that exemplifies the gospel while leading and organizing the church according to the biblical principle. This course requires supervised ministry hours. Practicum/field experience hours: 45.

## MIN-807: Disciple Making in the Leadership 3 credits Context

The course examines the role of leadership in the disciple-making process. The interrelationship of disciples and volunteers is discussed. Prerequisite: RES-850.

### MIN-812: Theology of Leadership 3 credits

This course provides an overview of the theories, theorists, and theology of leadership. Change management in ministry is addressed through the lenses of these theories and theology.

### MIN-817: Christian Ministry and Culture 3 credits

The intersection of Christian ministry and culture is the primary focus of this course. Contextualization is explored as a means for the Church to remain relevant to the culture and community in order to bring about enduring change.

## MIN-822: Trends and Issues in Christian 3 credits Ministry

Contemporary Christian ministry faces a set of challenges that are often unique to postmodern culture. This course explores those challenges and the role of the Christian ministry leader in mitigating them.

## MIN-827\*: Practical Considerations in 3 credits Christian Ministry

This course presents potential applications of topics in Christian ministry leadership. Learners connect these ideas to their research interests.

# Management Information Systems (MIS)

### MIS-600: Applied Analytics for Business 4 credits

This course introduces the role and value of data analytics in meeting the business needs of contemporary organizations. Students are introduced to selected foundational business and information technology topics that are relevant to analytics organizations.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## MIS-602: Innovation in Information 4 credits Technology and Data Management

This course introduces key issues in managing information technology and data within contemporary organizations. Students examine the role of leveraging IT and data analytics to drive innovation and add value to organizations through addressing business and market needs. Challenges regarding technology adoption and best practices for utilizing data for organizational decision making are also addressed.

### MIS-605: Introduction to Databases 4 credits

This course introduces the basic role and uses of databases within business enterprises. Students examine database design types, development, staging, production environments, and maintenance of a database structure. Emphasis is placed on the appropriate application and implementation of database functions in relation to performing data analytics.

## MIS-610: Intermediate Database 4 credits Applications

This course covers complex characteristics of databases and their practical application in a business environment. The course examines the main principles and relative advantages of object-oriented and object-relational databases. Students gain working knowledge of object-relational features as implemented in standard SQL database management systems within a practice environment. Prerequisite: MIS-605.

## MIS-615: Statistics for Business Analytics 4 credits Professionals

The purpose of this course is to prepare students in mathematical, probability, and statistical concepts for their upcoming studies in business analytics.

## MIS-620: Descriptive and Diagnostic 4 credits Analytics

This course examines foundational analytics concepts with an emphasis on descriptive and diagnostic analytics. Students solve business problems by working with selected industry tools and methods for describing what happened and diagnosing root causes based on available business enterprise data. Prerequisite: MIS-615 or SYM-506.

### MIS-640: Financial Decision Making 4 credits

This course introduces financial management principles relevant to information technology departments. Emphasis is on budgeting for the development and execution of IT projects and ongoing IT processes. Students consider the concept of capitalization and the role of transparency, return on investment, and aligning IT efforts with an organization's strategic financial objectives within the IT budgeting process. Prerequisites: BUS-600 and MIS-602.

## MIS-650: Performing Analytics Using a 4 credits Statistical Language

In this course students perform analytics using a statistical language. Key topics include working with data, charting data, object types, and building statistical models within a business environment. Prerequisites: MIS-605 and MIS-615.

### MIS-652: Business Process Analysis

4 credits

This course introduces the fundamentals of business process analysis and its role in driving efficient and innovative organizations. Students examine business process mapping, workflow, change initiatives, process improvements with particular emphasis on effective change initiatives, and adoption of IT solutions that solve specific business needs. Prerequisite: MIS-602. Prerequisite: MIS-602.

### MIS-655: Data Mining

4 credits

This course introduces techniques for extracting patterns and knowledge from large data sets. Students utilize intelligent inferential techniques to interpret patterns in the collected information and translate them into actionable items intended to solve specific business problems. Prerequisite: MIS-650.

## MIS-657: Information Security and Risk 4 credits Management

This course examines core issues related to information security within the framework of effective IT governance. Students evaluate security mechanisms, operational issues, and policies and plans related to cybersecurity within organizations. There is also emphasis on threat analysis, assessing system vulnerabilities, forensics, and recovery. Prerequisite: MIS-602. Prerequisite: MIS-602.

### MIS-661: Predictive Analytics 4 credits

This course examines foundational analytics concepts with an emphasis on predictive analytics. Students work with selected industry tools, methods, and techniques to analyze current and historical data to make predictions about future or otherwise unknown events. Prerequisite: MIS-655.

## MIS-665: Prescriptive Analytics and 4 credits Advanced Topics

In this course students perform prescriptive analytics and other advanced analytics techniques to extract meaning from organizational data for the purpose of identifying and recommending solutions for specific business needs. Effective and persuasive communication of data and decision options to drive organizational change is also covered. Prerequisite: MIS-661.

### MIS- $690^{\Omega}$ : Applied Capstone Project 4 credits

This course builds upon the techniques and tools presented in prior courses in the program. Students undertake an applied project focused on a specific area of analytics within an organization. Students use critical thinking skills to frame analytics problems, build and apply appropriate analytics models, and communicate relevant findings within a business setting. Prerequisite: MIS-665.

### Marketing (MKT)

483

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **MKT-315:** Introduction to Marketing

4 credits

This course introduces models and practices used by contemporary marketers in fast-paced, dynamic, domestic and global markets, including the marketing concept and processes for developing, implementing, and assessing the effectiveness of marketing plans. Building from a foundational understanding of consumer behavior and marketing research, students examine the development and implementation of marketing mix strategies and tactics with an emphasis of how marketing integrates within all aspects of business.

### MKT-345<sup>♦</sup>: Buyer and Consumer Behavior 4 credits

This course focuses on a behavioral science approach for examining distinct buyer strategies and decision-making processes of purchase by organizational buyers and consumers. Students evaluate external and internal influences, cross-cultural variations, and purchase and post-purchase processes to improve customer satisfaction and customer loyalty. Prerequisite: MKT-245 or MKT-315.

### MKT-373: Sports Marketing 4 credits

This course is a study of basic marketing concepts with applications to sports organizations, both amateur and professional. Topics include promotions and public relations, sports consumer behavior, strategic market planning, marketing information management, marketing communications, and sponsorship. Prerequisites: BUS-232 and MKT-245 or MKT-315.

### MKT-415: Promotion and Advertising 4 credits

This course provides students with an integrated marketing communications perspective. Students develop objectives and create ethical communications campaigns that integrate advertising and promotional strategies, tactics, budgets, and timelines. Prerequisite: MKT-245 or MKT-315.

### MKT-433: Sales Management 4 credits

This course focuses on the role of sales supervisors and managers who lead inside and outside sales teams to accomplish company and marketing objectives. Students develop sales management plans that adhere to company mission, vision, and values. Students build revenue forecasts and cost budgets for sales territories in product and service companies. Students demonstrate abilities to manage complex issues such as recruiting and hiring of the sales force and creating equitable and motivating compensation programs.

## MKT-443: Customer Relationship 4 credits Management

This course focuses on CRM models and tools that marketing and sales professionals use to maximize revenue and optimize profits. Students examine CRM software deployed in the workplace and how to integrate customer focused communications with sales and marketing strategies. Students use CRM tools to measure and manage elements of sales promotion to achieve budget objectives. Prerequisite: MKT-315.

### MKT-445: Marketing Research and Reporting 4 credits

This course introduces marketing research processes and tools that inform managerial decision making in global business environments. Students conduct ethical research by utilizing data sources and applying statistical tools and measurement techniques. Students engage in independent and collaborative research project designs, develop comprehensive marketing research plans, and deliver industry-relevant reports and presentations. Prerequisites: MKT-245 or MKT-315 and BUS-352.

### MKT-450: Marketing Management 4 credits

This course focuses on applying critical thinking skills to analyze and apply marketing strategies and tactics and achieve marketing opportunities in the globalized world. Students determine environmental factors that affect marketing strategies and apply traditional and industry-accepted practices in promotion, pricing, distribution, and product development. Students create and manage marketing plans and determine choices that maximize profit and increase customer satisfaction and loyalty. Prerequisite: MKT-245 or MKT-315.

### MKT-462<sup>/♦</sup>: Digital Marketing and Advertising 4 credits

This course provides an integrated marketing communications perspective for advertising and promotion using internet and mobile technologies. In this fast-paced and constantly evolving environment, students develop objectives and create ethical communications campaigns that integrate knowledge of cross-channel and multichannel consumer behavior with website and landing page strategies and tactics, search engine optimization and search advertising, social media marketing, and mobility marketing. Prerequisite: MKT-245 or MKT-315.

## MKT-465: Sports Retail Management and 4 credits Sales

This course examines sports retail management, including sports merchandizing and sales operations. Essential quality management techniques that drive profitability and organizational success are also discussed. Students explore current industry trends to determine potential innovations and strategies for sustaining organizational viability. Prerequisites: BUS-232 and MKT-245 or MKT-315.

### MKT-607: Marketing Management 4 credits

Management of the marketing function, market environmental analysis, and marketing planning, strategy, and control are fundamentals of marketing management. The course examines the marketing process, marketing research, product development innovation and diffusion, pricing strategy, distribution value drain, advertising and promotion, and strategic marketing issues. Emphasis is placed on case study analysis and current academic research with a marketing plan as a significant curriculum component.

### MKT-650: Services Marketing 4 credits

This course introduces students to published research and industry practices in services marketing, with an emphasis on discussion of the field's most current services marketing concepts, principles and theories, and application of services marketing concepts to actual practice through case analysis and outside projects. Prerequisite: MKT-607.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **MKT-660:** International Marketing

4 credits

This course provides an analysis of current trends and issues facing an international firm's efforts to manage the marketing mix. Comparisons of language, aesthetics, religions, business customs, and attitudes on the marketing concept and strategies are addressed. Prerequisite: MKT-607.

## MKT-830: The History and Philosophy of 3 credits Marketing

The course explores the theoretical foundations and supporting research of marketing history and philosophy. Legal and ethical considerations and emerging marketing strategies are addressed in their historical and philosophical context.

## MKT-832: Digital Technology and Consumer 3 credits Behavior

This course explores current practices in digital communications in the context of integrated marketing communications. Learners will interact with a multi-year integrated business case as a means of exploring applications of marketing.

## MKT-834: Data-Driven Marketing 3 credits Management

The course discusses the importance of acquiring and harnessing data and information for decision making throughout the marketing management process. This discussion includes the ethical application of data to the creation and evaluation of marketing plans leading to competitive advantage.

## MKT-836: Consumer Behaviors in Global 3 credits Marketing

This course develops a global approach to the ideas and practices of marketing and marketing research by considering factors that affect consumer behavior. Attention is given to addressing the research surrounding culture as a factor in consumer behavior.

### MKT-838: Complexity of Marketing 3 credit

Business is routinely using marketing strategies to create competitive advantage. This course addresses the complexity of implementing marketing solutions and the related cultural considerations. Learners will interact with a multi-year integrated business case to experience the complex interactions associated with conducting marketing research and exploiting marketing strategies for competitive advantage.

# Medical Laboratory Science (MLS)

## MLS-301L: Foundations of Medical Laboratory 1 credits Practice

Basic concepts and skills in the clinical laboratory are introduced and practiced preparing students for subsequent MLS laboratory courses Principles and applications of laboratory testing using safe practices and specimen quality assurance, preparation, and collection (phlebotomy). Core skills of microscopy and pipetting will be practiced in preparation for performing urinalysis and body fluid analysis. Point of Care testing instrumentation is introduced and practiced. Acceptance in MLS Program is required.

## MLS-303: Principles of Hematology and 3 credits Hemostasis

Fundamental theories of hematology and hemostasis are discussed, with an emphasis on the practice of routine laboratory evaluation of blood components using manual and microscopic methods, including safety and quality control. Introduction to abnormal hematology and hemostasis. Acceptance in MLS Program is required. Co-Requisite: MLS-303L.

## MLS-303L: Principles of Hematology and 1 credits Hemostasis Lab

The practice of routine laboratory evaluation of blood components using manual and microscopic methods, including safety and quality control will be emphasized. Introduction to abnormal hematology and hemostasis lab testing will be employed and follow the lecture material closely. Acceptance in MLS Program is required. Co-Requisite: MLS-303.

### MLS-305: Principles of Clinical Chemistry 3 credits

Basic concepts in clinical chemistry and quality control utilized in manual laboratory procedures are discussed with an emphasis on blood and body fluid assessments of carbohydrates, bilirubin, non-protein nitrogen testing and electrolyte acid/base balance. Proteins, lipids, enzymology, therapeutic drug monitoring, toxicology, and basic endocrinology will also be featured. Acceptance in MLS Program is required. Co-Requisite: MLS-305L.

## MLS-305L: Principles of Clinical Chemistry 1 credits

Manual techniques in clinical chemistry using spectrophotometry to perform assays. Quality control in manual laboratory procedures. Emphasis on blood and body fluid assessments of carbohydrates, bilirubin, non-protein nitrogen testing and electrolyte acid/base balance. Additional assessment of proteins, lipids, enzymology, therapeutic drug monitoring, toxicology, and basic endocrinology. Acceptance in MLS Program is required. Co-Requisite: MLS-305.

# MLS-307: Principles and Techniques of Immunology and Molecular Diagnostics 3 credits

Basic principles involving antigen/antibody complexes as they relate to basic concepts in immunology, clinical immunology techniques, immune related disease states, and diagnostic criteria. The background of nucleic acid chemistry along with current molecular methodologies of detection and applications will be explored. Acceptance in MLS Program is required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MLS-311: Principles of Clinical Microbiology 3 credits

This course provides coverage of clinically significant pathogenic bacteria, including epidemiology, pathogenicity, and procedures for manual laboratory identification. Topics and practice include antimicrobial identification testing and sensitivities as well as an introduction to clinical mycology, virology, parasitology. mycobacteria, and anaerobes. Acceptance in MLS Program is required. Co-Requisite: MLS-311L.

### MLS-311L: Principles of Microbiology Lab 1 credits

This course compliments the lecture and provides techniques of identification of clinically significant pathogenic bacteria and procedures for manual laboratory testing techniques. Practice will include antimicrobial identification testing and sensitivities as well as an introduction to clinical mycology, virology, parasitology, mycobacteria, and anaerobes. Acceptance in MLS Program is required. Co-Requisite: MLS-311.

### MLS-313: Principles of Immunohematology 3 credits

Lecture and laboratory covering the basic principles Immunohematology (Transfusion Medicine) relevant to blood group serology and typing, population prevalence of antigens, antibody detection and identification, and compatibility testing of blood products. Component preparation and therapy in blood transfusion service, quality control, donor screening and transfusion reactions are explored. Acceptance in MLS Program is required. Co-Requisite: MLS-313L.

## MLS-313L: Principles of Immunohematology 1 credits Lab

Lecture and laboratory covering the basic principles Immunohematology (Transfusion Medicine) relevant to blood group serology and typing, population prevalence of antigens, antibody detection and identification, and compatibility testing of blood products. Component preparation and therapy in blood transfusion service, quality control, donor screening and transfusion reactions are explored. Acceptance in MLS Program is required. Co-Requisite: MLS-313.

## MLS-315: Principles of Instrumentation in Integrated Laboratory Practice 4 credits

Principles and applications of instrumentation used in current laboratory practice. Students will be exposed to automated methodology and computer applications to enhance the manual concepts previously introduced. Problem solving involving specimen integrity, interfering substances and basic instrument trouble shooting are explored. Cross departmental relationships are emphasized using an integrated case study approach in a simulated laboratory experience. Acceptance in MLS Program is required. Prerequisite: MLS-303,, MLS-303L, MLS-305, MLS-305L.

#### MLS-317C: Clinical Experience for Hematology 1 credits

Off-campus clinical experience providing exposure to Hematology laboratory practice. Specialized rotations may be available. Students must have taken the associated didactic course and laboratory. Acceptance in MLS Program is required. Practicum/field experience hours: 40. Prerequisite: MLS-303, MLS-303L.

### MLS-319C: Clinical Experience for Chemistry 1 credits

Off-campus clinical experience providing exposure to Clinical Chemistry laboratory practice. Specialized rotations may be available. Students must have taken the associated didactic course and laboratory. Practicum/field experience hours: 40. Prerequisite: MLS-305, MLS-305L.

## MLS-321C: Clinical Experience for 1 credits Microbiology

Off-campus clinical experience providing exposure to Clinical Microbiology laboratory practice. Specialized rotations may be available. Students must have taken the associated didactic course and laboratory. Acceptance in MLS Program is required. Practicum/field experience hours: 40. Prerequisite: MLS-311, MLS-311L.

### MLS-323C: Clinical Experience for 1 credits Immunohematology

Off-campus clinical experience providing exposure to Clinical Immunohematology laboratory practice. Specialized rotations may be available. Students must have taken the associated didactic course and laboratory. Practicum/field experience hours: 40. Prerequisite: MLS-313, MLS-313L.

### MLS-402<sup>∆</sup>: Advanced Laboratory Concepts 4 credits

Advanced theory to include laboratory instrument system comparison, evaluation, and validation procedures with emphasis on scientific research design and statistical analysis. Interrelated topics to include approaches to work-load management, designing and implementing standards for quality assurance, budgeting, and marketing strategies. How to select, evaluate, design, perform, and document validation studies on new instrumentation or analytical methods. This is a writing-intensive course. Acceptance in MLS Program is required. Prerequisite: MLS-301L, MLS-311L, MLS-313L, MLS-315.

## MLS-404: Advanced Hematology and 4 credits Hemostasis

Correlation of medical laboratory hematology and hemostasis with emphasis on hematopathology, disease classification (malignant vs benign), specialized procedures, and hematological abnormalities in human cellular components. Specialized hematology and coagulation procedures will also be studied, and patterns analyzed to detect hemorrhagic and thrombotic problems and treatment. Acceptance in MLS Program is required. Prerequisite: MLS-303, MLS-303L.

### MLS-406: Advanced Clinical Chemistry 4 credit

Problem-solving oriented course presents the correlation of clinical chemistry test results to organ-related diseases, such as renal, hepatic, and endocrine diseases. Students will learn how to use clinical correlation as a quality assurance tool to detect patient testing errors. Additionally, blood gases, therapeutic drug monitoring, drugs of abuse and toxicology studies are presented. Acceptance in MLS Program is required. Prerequisite: MLS-305, MLS-305L.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MLS-408<sup>∆</sup>: Laboratory Teaching and Supervision

2 credits

Basic instructional and pedagogical theory as it applies to the field of medical laboratory science. Basic principles and applications of operating a medical laboratory to include management styles, leadership of small groups, human resource management, and key features of technical supervision will also be covered. Acceptance in MLS program is required. Prerequisite: MLS-402.

### MLS-410<sup>4</sup>: Project/Research I 1 credits

Students will identify a laboratory related project or research question and develop an original design to address the issue. Students will work closely with a faculty mentor or laboratory mentor and if deemed applicable will prepare a grant application for funding of supplies and reagents and write an IRB (Institutional Review Board) application. Acceptance in the MLS program is required. Prerequisite: MLS-315.

### MLS-412: Advanced Clinical Microbiology 4 credits

This course begins with a comprehensive review of introductory clinical bacteriology, virology, and mycology, along with a culture site approach to clinical bacteriology for the laboratory identification of pathogens by traditional manual methods. Diagnostic molecular biology and mass-spectrometry analysis of infectious microorganisms will also be addressed. Acceptance in MLS program is required. Prerequisite: MLS-311, MLS-311L.

### MLS-414: Advanced Immunohematology 4 credits

Advanced blood banking theory and specialized procedures as they pertain to antibody identification, transfusion, component preparation and distribution, compatibility testing, quality assurance, investigation of unexpected results, and regulatory issues pertaining to Transfusion Medicine. Acceptance in MLS program is required. Prerequisite: MLS-313, MLS-313L.

### MLS-416: Clinical Correlation Capstone 2 credits

This course integrates material from all major medical laboratory science disciplines, including blood bank, chemistry, hematology, immunology, microbiology, laboratory operations, and urinalysis. Case studies utilized present information about pathophysiology, etiology, and epidemiology, as well as analysis of laboratory results and their significance. Students correlate results with disease states and continue to develop problem solving and critical thinking skills. Practical study skills and certification exam preparation are high priority. Acceptance in MLS program is required. Prerequisite: MLS-402.

### MLS-418<sup>∆</sup>: Project/Research II 1 credits

Students will continue to work closely with a faculty or laboratory mentor in the development of the project's resolution and conclusion. After completing the project students will present their findings in written, poster and oral format. This is a writing-intensive course. Acceptance in the MLS program is required. Prerequisite: MLS-410.

# Mild to Moderate Special Education (MMS)

## MMS-300: Assessment and Eligibility in Special Education

4 credits

Teacher candidates will collaborate with a variety of stakeholders to investigate culturally and linguistically appropriate assessment procedures and tools. Teacher candidates will build foundational knowledge regarding the use of multiple methods of assessment and data-sources for eligibility and educational decisions for students with mild to moderate disabilities. Focus is placed on building effective partnerships with all stakeholders and applying ethical guidelines, legal policies, and effective conflict resolution strategies when determining eligibility for special education. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: SPD-208.

## MMS-310: Language Development Disabilities 4 credits and Disorders

Teacher candidates examine typical and atypical language development and associated disabilities and disorders. Emphasis is placed on creating appropriate, meaningful learning experience that support progression towards measurable outcomes and IEP goals. Teacher candidates investigate the use of various assistive technologies, modifications, and accommodations to support and enhance the communication and learning of students with exceptionalities and explore effective practices for modeling these for colleagues. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: SPD-208.

# MMS-320: Professional, Ethical and Legal 4 credits Practices and Policies in Special Education

Teacher candidates survey professional ethical principles, professional practice standards, law and regulations that guide special educators. Teacher candidates examine how to advocate for the profession in a variety of ways, including collaborating with all stakeholders to support students' needs in the development of Individualized Education Programs (IEPs) and accommodating the general education curriculum to address the individual learning needs of students with mild to moderate disabilities. Emphasis will be placed on creating a developmentally appropriate and least restrictive environment that includes effective routines and procedures for students with exceptionalities. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MMS-300.

## MMS-330: Case Management and Transition 4 credits Planning

Teacher candidates examine case management practices and strategies and a transition process that will lead to students meeting short and long-term goals. Legal and instructional requirements, analyzing data, and documentation of students' progress as part of case management and transition planning are examined. Teacher candidates investigate collaboration with general education teachers and paraprofessionals, including when modifying the general education curriculum and planning specially designed instruction that meets the learning needs of students with exceptionalities. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MMS-300.

487

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

**MMS-508:** 

Teacher candidates analyze and evaluate data and behavioral interventions to determine how to create safe, inclusive, culturally responsive face-to-face and virtual learning environments so that individuals with exceptionalities become active and effective learners and develop emotional well-being, positive social interactions, and self-determination. Teacher candidates focus on behavior management, functional behavior assessments, adaptive behaviors, positive behavior interventions and supports, behavior improvement plans, and school-based systems of intervention for students with and without exceptionalities. Emphasis is placed on collaboration with general education teachers to meet the needs of all students in the inclusive classroom. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisites: ELM-251 and MMS-300.

## MMS-465: Research-Based Methods and Strategies for Teaching Math

4 credits

Teacher candidates will examine a variety of instructional strategies to encourage students, including individuals with mild to moderate disabilities and other exceptionalities, to develop understanding and connections within the major concepts and procedures that define number and quantity, algebra, geometry, measurement, and statistics and probability and to build higherorder skills to apply knowledge in meaningful ways. From this foundational knowledge, teacher candidates select, adapt, and use research-based methodologies and interventions in academic and specialized mathematics curricula to plan specially designed instruction that advances the learning of all students, including students with mild to moderate disabilities. Emphasis is placed on using multiple assessments that ethically and equitably measure students' prior knowledge and growth and can be used to plan mathematics instruction. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-211.

# MMS-475': Research-Based Instruction, A credits Remediation, and Intervention in ELA

Teacher candidates explore and modify a variety of instructional strategies and curriculum used to meet individualized listening. speaking, reading, and writing goals. Teacher candidates design instruction that is explicit and systematic, including flexible and focused grouping to support diverse learners, and provide students with exceptionalities with multiple ways to demonstrate knowledge and skills in English Language Arts. Emphasis is placed on supporting students' face-to-face and virtual collaboration skills. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. Teacher candidates select, adapt, and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning, motivation, and engagement for all students, including those with mild to moderate disabilities, with attention focused on reading. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-316.

Teacher candidates survey mild to moderate disabilities including definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders and how to use research-based best practices to meet the diverse needs of students with exceptionalities. Teacher candidates will study the laws and regulations that govern the special education process and examine strategies for advocating for individuals with exceptionalities and their families to address their diverse needs and prevent bias. Additionally, professional development in the field of special education and opportunities to advocate for the profession are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

## MMS-510: Classroom Management and 3 credits Collaboration

Teacher candidates examine strategies for increasing motivation, establishing developmentally appropriate learning environments, and planning effective routines and procedures for students with exceptionalities. Teacher candidates analyze data to develop behavior intervention plans and evaluate the effectiveness of behavioral interventions for students with exceptionalities. Teacher candidates create safe, respectful, and productive faceto-face and digital learning environments that encourage collaborative skills and peer interaction for students with exceptionalities. Additionally, teacher candidates build knowledge of how to mentor and manage paraprofessionals and other stakeholders in their role of supporting individuals and families. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MMS-508.

## MMS-520: Instructional Planning for Special 3 credits Education Students

Teacher candidates survey instructional strategies, tools, resources, and technology used to design meaningful learning experiences that consider students' strengths and interests, increase motivation for learning, and promote active engagement. Teacher candidates design explicit, systematic instruction that provides multiple ways to demonstrate learning and considers the differentiation, modification, and accommodation strategies needed to support all students. Focus is placed on how instruction can vary in different settings, including virtual environments, and how different settings affect peer interactions and collaborative skills. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MMS-508.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MMS-530: Language Development Through 3 credits Phonics and the Science of Reading

Teacher candidates explore components of typical and atypical literacy development for students with or without exceptionalities. Coursework emphasizes research-based phonics development and the science of reading, including phonics, phonemic awareness, vocabulary, fluency, and comprehension. Teacher candidates focus on assessing developmental and other literacy concerns, including dyslexia and other reading disabilities, using a variety of formal and informal assessments that provide valid, reliable data. Focus is placed on designing learning experiences that implement accommodation strategies to support literacy development, apply flexible grouping, and enhance independent learning. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MMS-

## MMS-540: Assessment and Eligibility in 3 credits Special Education

Teacher candidates will investigate culturally and linguistically appropriate diagnostic and assessment tools and the ethical guidelines and legal policies and procedures that are important to consider during assessment and eligibility determination. Teacher candidates will build foundational knowledge regarding the use of multiple methods of assessment and data sources for making diagnostic and educational decisions for individuals with mild to moderate disabilities, including when determining modifications to the general education curriculum. Additionally, collaboration with stakeholders to determine, assess, and analyze student needs and progress is explored. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MMS-508.

## MMS-550: Research Based Instruction, 3 credits Remediation, and Intervention in ELA

Teacher candidates explore the language processing requirements of proficient reading and writing, including explicit, systematic, cumulative, and multisensory instruction that integrates listening, speaking, reading, and writing. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. Teacher candidates select, differentiate, and implement research-based instructional strategies and interventions in academic and specialized curricula to advance the learning for all students, including those with mild to moderate disabilities, with attention focused on literacy, reading, and other cross-disciplinary skills. Focus is placed on analyzing data from a variety of assessments to identify students' prior knowledge, inform instruction, and provide feedback. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisites: MMS-520 and MMS-530.

### MMS-560: Professional, Ethical and Legal Practices and Policies in Special Education

3 credits

Teacher candidates survey professional ethical principles, professional practice standards, and laws and regulations that guide special educators in understanding the multiple roles and complex situations of professional practice that require attention to a variety of legal, professional, and ethical dilemmas. Strategies and technology for communicating progress and collaborating with all stakeholders to meet the needs of students with exceptionalities are explored. Additionally, teacher candidates focus on developing an individualized education program (IEP). Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MMS-540.

## MMS-570: Case Management and Transition 3 credits Planning

Teacher candidates examine case management practices and strategies and the transition process. Legal and instructional requirements, culturally responsive collaboration and communication, and documentation of students' progress as part of case management and transition planning are examined. Teacher candidates investigate collaboration with general education teachers, including when modifying the general education curriculum and planning specially designed instruction that meets the learning needs of students with exceptionalities. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MMS-540.

# MMS-580: Methods of Teaching Math to 3 credits Students with Mild to Moderate Disabilities

Teacher candidates build foundational knowledge of a variety of research-based instructional materials, strategies, and interventions to advance the learning of students with mild to moderate disabilities in mathematics. Technology, including assistive technology, is explored as a tool for supporting communication and developing higher-order skills while meeting the diverse needs of learners. Teacher candidates explore methods for engaging learners in analyzing their own assessment results and setting goals. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MMS-520.

## MMS-590: Student Teaching for Special 8 credits Education Teacher Candidates

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

## Music Piano Class (MPC)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MPC-109♦: Class Piano (Majors)

1 credits

This course is designed as class instruction for students with limited or no previous piano training. Instruction includes the study of piano technique and literature designed to pass Part I of the Piano Proficiency Examination.

#### MPC-259\*: Class Piano II

credi

This course is a continuation of MPC-109. It includes passing Part II of the Piano Proficiency Examination. Prerequisite: MPC-109 or Music Department approval.

### MPC-359\*: Class Piano III

1 credits

This course is a continuation of MPC- 259. It includes passing Part III of the Piano Proficiency Examination. Prerequisite: MPC-259 or Music Department approval.

### MPC-459♦: Class Piano IV

1 credits

This course is a continuation of MPC-359. It includes passing Part IV of the Piano Proficiency Examination. Prerequisite: MPC-359 or Music Department approval.

### String Instruments (MSE)

### MSE-113\*: Private Applied Instruction 1 credits Secondary I

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors. Prerequisites: Music Department approval and placement audition.

## MSE-115♦: Private Applied Instruction Major 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: Music Department approval and placement audition.

### MSE-123\*: Private Applied Instruction 1 credits Secondary II

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

## MSE-125<sup>♦</sup>: Private Applied Instruction Major 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-115 or Music Department approval and placement audition.

### MSE-213\*: Private Applied Instruction 1 credits Secondary III

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

## MSE-215<sup>♦</sup>: Private Applied Instruction Major 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-125 or Music Department approval and placement audition.

### MSE-223\*: Private Applied Instruction 1 credits Secondary IV

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

## MSE-225<sup>♦</sup>: Private Applied Instruction Major 2 credits IV

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-215 or Music Department approval and placement audition.

### MSE-313\*: Private Applied Instruction 1 credits Secondary V

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

## MSE-315♦: Private Applied Instruction Major 2 credits V

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-225 or Music Department approval and placement audition.

### MSE-323\*: Private Applied Instruction 1 credits Secondary VI

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

## MSE-325<sup>♦</sup>: Private Applied Instruction Major 2 credits VI

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-315 or Music Department approval and placement audition.

### MSE-390 $^{\Omega \bullet}$ : Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### MSE-413\*: Private Applied Instruction 1 credits Secondary VII

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MSE-415\*: Private Applied Instruction Major 2 credits VII

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-325 or Music Department approval and placement audition.

### MSE-423\*: Private Applied Instruction 1 credits Secondary VIII

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

## MSE-425\*: Private Applied Instruction Major 2 credits VIII

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MSE-415 or Music Department approval and placement audition.

### MSE-490♦: Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

# Military Science Leadership (MSL)

#### MSL-101N: Introduction to the Army 3 credits

The MSL-101N course produces a Cadet who accepts the Army as a values-based organization and embraces the scholar-athletewarrior ethos; who is familiar with individual roles and responsibilities in support of team efforts and problem solving processes in military and nonmilitary situations; who demonstrates oral and written communication skills, understands resilience, and demonstrates a commitment to learning. Live Honorably & Build Trust and Communicate and Interact Effectively. MSL-101N introduces Cadets to the Army and the Profession of Arms. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a big picture understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness support their development as Army leaders. As you become further acquainted with MSL-101N, you will learn the structure of the ROTC Basic Course program consisting of MSL-102N, MSL-201N, MSL-202N, Fall and Spring Leadership Labs, and Basic Camp (Case by Case basis). The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes, and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

## MSL-102N: Foundations of Agile and Adaptive 3 credits Leadership

The MSL I course produces a Cadet who accepts the Army as a values-based organization and embraces the scholar-athletewarrior ethos; who is familiar with individual roles and responsibilities in support of team efforts and problem solving processes in military and non-military situations; who demonstrates oral and written communication skills, understands resilience, and demonstrates a commitment to learning. Live Honorably & Build Trust and Communicate and Interact Effectively. MSL102 introduces Cadets to the Army and the Profession of Arms. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a big picture understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. As you become further acquainted with MSL-102N, you will learn the structure of the ROTC Basic Course program consisting of MSL-101N, 102N, 201N, 202N, Fall and Spring Leadership Labs, and Basic Camp (Case by Case basis). The focus is on developing basic knowledge and comprehension of Army leadership dimensions, attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

### MSL-201: Innovative Team Leadership 3 credits

Every Fall. This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army Leadership Requirements Model (trait and behavior theories). Students practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes. The course includes 3 hours of lecture/conference, one 2-hour lab of practical application, and one 2-day field training exercise.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MSL-201N: Leadership and Decision Making 3 credits

The MSL-201N course produces a Cadet grounded in foundational leadership doctrine and skills by following and leading small units to achieve assigned missions; who applies critical thinking and problem solving using Troop Leading Procedures (TLP); who comprehends the value of diversity, understands the officer's role in leading change, and understands the fundamentals of the Army as a profession. MSL-201N adds depth to the Cadets understanding of the Adaptability Army Learning Area. The outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on, performance-oriented environment during Leadership LABs, team building exercises, and Field Training Exercises. Cadets will be evaluated and their progress managed throughout the course; in addition, student's understanding of the course content will be monitored, ensuring students comprehend the learning objectives and are retaining the lesson content.

## MSL-202N: Army Doctrine and Team 3 credits Development 3

MSL-202N focuses on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, Warrior Ethos, and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises in small units up to squad level. Students are then required to apply their knowledge outside the classroom in a hands-on, performance-oriented environment during Leadership LABs (team building exercises, LTXs, VBS exercises). Includes a 1-hour lab per week taught by MS III Cadets. The Army Reserve Officer Training Course (ROTC) Basic Course is an academically rigorous 2-year college program comprised of four semester courses of instruction, Leadership Labs (two sets, Fall/Spring), and the Cadet Basic Camp (Case by Case basis) conducted at Fort Knox, KY.: 1. MSL-101N, Introduction to the Army 2. MSL-102N, Foundations of Agile and Adaptive Leadership 3. MSL-201N, Leadership and Decision Making 4.MSL-202N, Army Doctrine and Team Development 5. Fall Leadership Lab 6. Leadership Lab 7. Basic Camp (Case by Case basis) The focus is on developing basic knowledge and comprehension of Army leadership attributes and core leader competencies while gaining an understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

### MSL-300A: Military Science Leadership Lab I 1 credits

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

### MSL-300B: Military Science Leadership Lab II 1 credits

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

## MSL-300C: Military Science Leadership Lab 1 credits III

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

## MSL-300D: Military Science Leadership Lab 1 credits IV

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

### MSL-300E: Military Science Leadership Lab V 1 credits

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

## MSL-300F: Military Science Leadership Lab 1 credits

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

## MSL-300H: Military Science Leadership Lab 1 credits VIII

Army ROTC labs are a practical training session conducted by the Army ROTC program to develop cadets' military skills, leadership abilities, and physical fitness. These labs involve hands-on activities such as tactics, weapon familiarization, land navigation, and leadership drills. During the Labs, cadets gain practical experience in military operations while also honing their teamwork, critical thinking, and decision-making skills essential for future leadership roles in the U.S. Army.

### MSL-301: Adaptive Team Leadership 3 credits

This course involves the study, practice, and evaluation of adaptive leadership skills as students are presented with the demands of preparing for the summer Leader Development and Assessment Course (LDAC). Challenging scenarios related to small-unit tactical operations are used to develop self-awareness and critical-thinking skills. Students receive systematic and specific feedback on their leadership values, attributes, skills, and actions. The course includes 3 hours of lecture/conference, one 2-hour lab of practical application, and one 2-day field training exercise. Prerequisites: MSL- 101, MSL- 102, MSL-201, and MSL- 202; MSL- 205; or prior military service and commitment to accept a commission and serve as an officer in the U.S. Army on active duty or in a reserve component.

## MSL-301N: Training Management and the Warfighting Functions 3 credits

MSL-301Nis an academically challenging course where you will study, practice, and apply the fundamentals of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating, and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Field Training Exercise (FTX). You will be required to write peer evaluations and receive feedback on your abilities as a leader and how to improve those leadership skills that can further develop you in to a successful officer. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, practical exercises, a mid-term exam, and a final exam. You will receive systematic and specific feedback on your leader attributes, values, and core leader competencies from your instructor, other ROTC cadre, and MSL IV Cadets who will evaluate you using the Cadet Officer Evaluation System (COER). Successful completion of this course will help prepare you for the SROTC Advanced Camp, which you will attend in the summer at Fort Knox, KY.

## MSL-302N: Applied Leadership in Small Unit 3 credits Operations

MSL-302N is an academically challenging course where you will study, practice, and apply the fundamentals of Army Leadership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. At the conclusion of this course, you will be capable of planning, coordinating, navigating, motivating, and leading a squad and platoon in the execution of a mission during a classroom PE, a Leadership Lab, or during a Field Training Exercise (FTX). You will be required to write peer evaluations and receive feedback on your abilities as a leader and how to improve those leadership skills that can further develop you in to a successful officer. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, practical exercises, a mid-term exam, and a final exam. You will receive systematic and specific feedback on your leader attributes, values, and core leader competencies from your instructor, other ROTC cadre, and MSL IV Cadets who will evaluate you using the Cadet Officer Evaluation Report (COER). Successful completion of this course will help prepare you for the SROTC Advanced Camp, which you will attend in the summer at Fort Knox, KY.

### MSL-401: Adaptive Leadership 3 credits

Develop proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadership-performance feedback to subordinates. Students are given situational opportunities to assess risk, make sound ethical decisions, and provide coaching and mentoring to fellow students. Students are measured by their ability to give and receive systematic and specific feedback on leadership abilities using the Socratic model of reflective learning. Students analyze and evaluate the leadership values, attributes, skills, and actions of subordinate students while simultaneously considering their own leadership skills. The course includes 3 hours of lecture/conference, one 2-hour lab of practical application, and one 2-day field training exercise. Prerequisites: MSL-301, MSL-302, and commitment to accept a commission and serve as an officer in the U.S. Army on active duty or in a reserve component.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### MSL-402N: Company Grade Leadership 3 credits

This is an academically challenging course where you will study, practice, develop, and apply critical thinking skills pertaining to Army leadership, officer skills, Army Values and ethics, personal development, and small unit tactics at platoon level. This course includes reading assignments, homework assignments, small group assignments, briefings, case studies, practical exercises, mid-term exam, and a Capstone Exercise in place of the final exam. For the Capstone Exercise, you will be required to complete an Oral Practicum that will be evaluated on your knowledge of the 20 Army Warfighting Challenges (AWFC) covered throughout MSL-401N and MSL-402N coursework. In addition, you could be assessed on leadership abilities during classroom PE, Leadership Labs, or during a Field Training Exercise (FTX). You will receive systematic and specific feedback on your leader attributes, values, and core leader competencies from your cadre, PMS, and other MSL IV Cadets who will evaluate you using the Cadet Officer Evaluation Report (COER). You will be required to write peer evaluations and receive feedback on your abilities as a leader and how to improve those leadership skills. At the conclusion of this course, you will be able to plan, coordinate, navigate, motivate, and lead a platoon in future operational environments. Successful completion of this course will assist in preparing you for your BOLC B course and is a mandatory requirement for commissioning.

### MSL-499: Independent Study

Students in this course work closely with the Professor of Military Science on a special topic. Work may include research, readings, and presentations. This course may be repeated once. Prerequisite: Instructor approval.

# Moderate to Severe Special Education (MSS)

## MSS-508: Survey of Teaching Children with 3 credits Moderate to Severe Exceptionalities

Teacher candidates survey moderate to severe disabilities including definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders and how to use research-based best practices to meet the diverse needs of students with exceptionalities. A focus is placed on building an understanding of differentiation, modification, and accommodation strategies, tools, and resources that support student learning and active engagement. Teacher candidates will study the laws and regulations that govern the special education process and examine strategies for advocating for individuals with exceptionalities and their families to address their diverse needs and prevent bias. Additionally, professional development in the field of special education and opportunities to advocate for the profession are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

## MSS-510: Case Management, Collaboration, 3 credits and Communication

In this course, teacher candidates will develop essential skills in case management, professional collaboration, and effective communication for students with moderate to severe exceptionalities. Through participation in professional learning communities and reflective practices, teacher candidates will enhance their instructional strategies and recognize the effect of biases. Emphasis is placed on clear communication of student progress and goals to all stakeholders and introduces advanced technologies and strategies for collaborative stakeholder engagement. Additionally, the course provides practical experience in the management of Individualized Education Programs (IEPs) and coordination with interdisciplinary teams. Practicum/field experience hours: None. Fingerprint clearance not required.

## MSS-520: Classroom Management and 3 credits Supporting Challenging Behaviors

Teacher candidates will learn to create and maintain safe, inclusive, and culturally responsive learning environments that foster the academic and social growth of students with disabilities. Emphasizing collaboration and evidence-based practices, the course focuses on identifying diverse factors affecting student learning and motivation and analyzing various measures of data for identifying the purpose or function served by interfering behavior and designing effective interventions. Instructional strategies will focus on promoting emotional wellbeing, positive social interactions, self-determination and regulation, and intensive small group instruction to enhance collaborative skills in both physical and virtual settings. Candidates will also develop expertise in establishing routines and using technology to support productive learning environments, and in evaluating and creating data-driven behavior management plans for students with moderate to severe exceptionalities. Practicum/field experience hours: 25. Fingerprint clearance required. Prerequisite: MSS-508 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

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1 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

In this course, teacher candidates will explore comprehensive instructional strategies, resources, and assistive technologies tailored to support students with moderate to severe exceptionalities. Focus is placed on creating developmentally appropriate learning environments that reflect individual differences and needs, and to differentiate the general curriculum to enhance access, learning, and successful functioning across various contexts. The course emphasizes designing explicit, systematic instruction that offers multiple ways for students to demonstrate their knowledge and accommodate diverse learning styles. Candidates will also develop skills in analyzing data to refine instruction, provide targeted feedback, and bolster peer interaction and collaborative skills, with a focus on how these may look different in various settings, including virtual environments. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MSS-508.

# MSS-540: The Science of Reading and Phonics for Effective Adaptive Communication 3 credits

In this course, teacher candidates delve into the science of reading and phonics with an emphasis on understanding both typical and atypical language development and the effect of disabilities and disorders on literacy. Candidates are guided to use this knowledge to make informed programmatic and instructional decisions that support individuals with moderate to severe exceptionalities. Research-based strategies for phonics. phonemic awareness, vocabulary, fluency, and comprehension are explored, along with methods for accommodating the general education curriculum to enhance access to the core curriculum and support individualized learning needs. Candidates will examine the role of speech-language pathologists, special education teachers, and others in utilizing augmentative and alternative communication to promote literacy and communication skills. Focus is placed on planning and implementing instruction and assessments using assistive technologies that facilitate communication and learning for students with moderate to severe exceptionalities, ensuring that modifications and accommodations are effectively integrated to maximize student success. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MSS-530 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

### MSS-545: Specialized ELA Instruction: Research, Remediation, and Intervention

3 credits

This course equips teacher candidates with the skills to select and adapt research-based instructional strategies, ensuring access to English language arts content, including literacy, for individuals with moderate to severe exceptionalities. Emphasis is placed on the creation of developmentally appropriate and meaningful learning experiences that address individual strengths, needs, and interests, while providing a functional approach to ELA instruction. Candidates will explore the effect of disabilities like dyslexia on reading acquisition, understanding their variance in presentation and degree. Focus is placed on modifying the general education curriculum and planning specially designed instruction (SDI) to foster skills and strategies enabling students with moderate to severe exceptionalities to access the core curriculum, meet individualized learning goals, and function successfully across diverse settings. Candidates will also learn to develop formal and informal assessments that minimize bias and yield valid, reliable data on student progress and needs. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MSS-530 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

# MSS-550: Assessment and Eligibility in 3 credits Moderate to Severe Special Education

Teacher candidates will explore a range of diagnostic and educational assessment tools essential for determining student eligibility and tracking progress for individuals with moderate to severe exceptionalities. Candidates will acquire a foundational understanding of using various assessment methods and analyzing data to identify typical and atypical developmental patterns for comprehensive learner profiles, which are used to inform the creation of individualized education programs (IEPs) and effective educational planning. Focus is placed on identifying culturally and linguistically relevant measures and procedures that contribute to fair and accurate eligibility determination for special education services. Additionally, the course emphasizes the importance of clear communication with IEP team members, external stakeholders, and families regarding assessment outcomes and educational decisions. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MSS-510 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Teacher candidates will explore professional ethical principles, practice standards, and the legal framework governing special education. They will apply these ethical guidelines and policies to real-world scenarios, enhancing their professional conduct and decision-making with individuals with moderate to severe exceptionalities. The course will also develop candidates' skills in communication, group facilitation, problem-solving, and conflict resolution, fostering culturally responsive collaboration with families and stakeholders. Teacher candidates will focus on developing an individualized education program (IEP) and on building effective partnerships and managing team dynamics, including mentoring and overseeing paraprofessionals. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: MSS-508 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

## MSS-570: Methods of Teaching Functional 3 credits Mathematics and Science

Teacher candidates will enhance their repertoire with researchbased instructional strategies, ensuring access to and engagement with functional mathematics and science content for students with moderate to severe exceptionalities. Candidates will employ a variety of assessments to discern students' prior knowledge and individual needs, enabling the design of personalized and effective lesson plans. A key focus will be the strategic selection and adaptation of instructional strategies, tools, and resources, including technology, to foster higher-order thinking skills and accommodate diverse learning styles. Candidates will also learn to apply flexible grouping techniques to tailor instruction for individuals and small groups. Additionally, the course will cover collaborative strategies for working with general education teachers to support inclusive education and modeling of best practices in both traditional and virtual learning environments. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: MSS-530 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

# MSS-580: Transition Planning for Students 3 credits with Moderate to Severe Exceptionalities

In this course, teacher candidates will delve into transition planning with a focus on equipping students with moderate to severe exceptionalities for seamless transitions to postsecondary life, employment, and community involvement. The course will guide candidates in crafting measurable postsecondary goals and activities that are closely aligned with students' aspirations, emphasizing the crucial roles of families and interagency collaboration. Candidates will learn to integrate crossdisciplinary skills into the curriculum, aiding students in generalizing learning across different settings and contributing to local and global communities. The course will concentrate on designing reflective and independent learning experiences that involve students in self-assessment and goal setting, as well as foster a sense of ownership, to ensure students with moderate to severe exceptionalities become proactive participants in their education and transition processes. Additionally, advocacy for improved outcomes will be a central theme, with an emphasis on addressing the diverse needs of individuals from various social, cultural, linguistic, and technological backgrounds. Practicum/field experience hours: 20. Fingerprint clearance required.

## MSS-590: Student Teaching for Moderate to 8 credits Severe Special Education

This course supports the special education clinical field experience through a full-time student teaching experience. Candidates select a K-Grade 12 special education moderate to severe classroom setting to engage in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Evauluation of Performance (STEP) and an Individualized Education Program (IEP) Performance Template related to special education services. Fingerprint clearance required.

### Music (MUS)

### MUS-102: Class Piano I

1 credits

This course is designed as class instruction for students with limited or no previous piano training. Instruction includes the study of piano technique and literature designed to pass Part I of the Piano Proficiency Examination.

### MUS-103: Class Piano II 1 credits

This course is a continuation of MUS-102. It includes passing Part II of the Piano Proficiency Examination. Prerequisite: MUS-102 or Music Department approval.

### MUS-104: Class Voice 1 credits

This course is class instruction for students with limited or no previous voice training. Content includes the study of vocal skills for personal performance and beginning voice instruction.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **MUS-111**♦: Diction: Italian

1 credits

A study of Italian song transliteration, utilizing the International Phonetic Alphabet and emphasizing the broad skills of correct choice, correct performance of sounds, and performance practice of sung Italian. (Preferred default course)

### MUS-112<sup>♦</sup>: Diction: French 1 cr

A study of French song transliteration, utilizing the International Phonetic Alphabet and emphasizing the broad skills of correct choice, correct performance of sounds, and performance practice of sung French. Prerequisite: MUS-111 or Music Department approval. (Preferred default course)

### MUS-125<sup>♦</sup>: Music Theory I 4 credits

This course is a study in rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training is utilized. Study is devoted to the structure of music which includes harmony, melody, form, and rhythm. Skill development in analysis and composition is emphasized. The music of the "common practice period" will be studied. Prerequisite: Theory Placement Examination.

### MUS-130♦: Music Theory 3 credits

Study is devoted to the structure of music, which includes harmony, melody, form, and rhythm. Skill development in analysis and composition is emphasized. The music of the "common practice period" will be studied. Co-requisite: MUS-130L.

## MUS-130L\*: Music Theory I Lab (Aural Skills 1 credits and Musicianship)

This course is a study in rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training is utilized. Study is devoted to the structure of music, which includes: harmony, melody, form, and rhythm. Skill development in analysis and composition is emphasized. The music of the "common practice period" will be studied. Co-requisite: MUS-130.

### MUS-145: Lyric Diction I 1 credits

This course is an introduction to the International Phonetic Alphabet (IPA) and enunciation for lyric diction in Italian, German, French, and Latin through the lens of the IPA. IPA transcription for Italian lyric diction is introduced.

### MUS-146: Lyric Diction II 1 credits

This course focuses on enunciation and transcription of the English and Italian languages as applied to lyric diction. Familiarity with the appropriate choice of speech sounds is gained though listening, singing, and transcription assignments. Prerequisite: MUS-145.

### MUS-155<sup>♦</sup>: Music Theory II 4 credits

This course emphasizes skill development through analysis and composition. Prerequisite: MUS-125.

### MUS-160<sup>♦</sup>: Music Theory II 3 credits

A continuation of MUS-130, this course emphasizes skill development through analysis and composition. Prerequisites: MUS-130 and MUS-130L or Music Department approval. Corequisite: MUS-160L.

## MUS-160L\*: Music Theory II Lab (Aural Skills 1 credits and Musicianship)

A continuation of MUS-130L, this course emphasizes aural skill development through practical study in rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training is utilized. Prerequisites: MUS-130 and MUS-130L or Music Department approval. Corequisite: MUS-160.

### MUS-202: Class Piano III

1 credits

This course is a continuation of MUS-103. It includes passing Part III of the Piano Proficiency Examination. Prerequisite: MUS-103 or Music Department approval.

### MUS-203: Class Piano IV

1 credits

This course is a continuation of MUS-202. It includes passing Part IV of the Piano Proficiency Examination. Prerequisite: MUS-202 or Music Department approval.

### MUS-210<sup>♦</sup>: Music Appreciation 4 credits

This course introduces the study of the intellectual, emotional, and aesthetic nature of music, its history, theory, and literature. It explores the major works of great composers and explores the elements that contribute to their longevity. Students learn to appreciate and critique live performances.

### MUS-210XV: Music Appreciation 4 credits

This course introduces the study of the intellectual, emotional, and aesthetic nature of music, its history, theory, and literature. It explores the major works of great composers and explores the elements that contribute to their longevity. Students learn to appreciate and critique live performances.

### MUS-211\*: Diction: German 1 credits

A study of German song transliteration, utilizing the International Phonetic Alphabet and emphasizing the broad skills of correct choice, correct performance of sounds, and performance practice of sung German. Prerequisite: MUS-111 or Music Department approval.

### MUS-215<sup>♦</sup>: Lyric Diction for Music Educators 1 credits

This course is an introductory study of the enunciation and International Phonetic Alphabet (IPA) transcription of the Italian, German, French, and Latin languages for music educators. Students are introduced to a rich vocabulary of texts commonly used within the repertoire.

### MUS-218<sup>♦</sup>: Popular Music in American Society 4 credits

This course will survey the history of American popular music genres. Through understanding styles and forms within the context of their origins, popular music is understood in the relationship of its functions in society.

### MUS-223<sup>≠</sup> Conducting

2 credits

This course is a study of the fundamentals and techniques of conducting. Emphasis is placed on basic conducting skills, fundamentals of baton technique, left hand technique, non-verbal communication, leadership, conducting terminology, transpositions, and score reading.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## MUS- Conducting 2 credits 223HN<sup>/♦</sup>:

This course is a study of the fundamentals and techniques of conducting. Emphasis is placed on basic conducting skills, fundamentals of baton technique, left hand technique, non-verbal communication, leadership, conducting terminology, transpositions, and score reading.

### MUS-227<sup>♦</sup>: Music in World Culture 4 credits

This writing-intensive course is an introduction to the music of the world as a means to express different elements of culture, civilization, and worldview.

### MUS-245: Lyric Diction III 1 credits

This course focuses on enunciation and transcription of the German language as applied to lyric diction. Familiarity with the appropriate choice of speech sounds is gained though listening, singing, and transcription assignments. Prerequisite: MUS-145.

### MUS-246: Lyric Diction IV 1 credits

This course focuses on enunciation and transcription of the French language as applied to lyric diction. Familiarity with the appropriate choice of speech sounds is gained though listening, singing, and transcription assignments. Prerequisite: MUS-145.

### MUS-260<sup>/♦</sup>: Music Theory III 4 credits

This course emphasizes advanced rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training is utilized. Music examples are selected from Bach through Wagner. This course also includes an advanced study in analysis and part writing utilizing modulation and chromatic harmony. Prerequisite: MUS-155.

### MUS-262<sup>\*</sup> • Music Theory III 3 credits

A continuation of MUS-160, this course emphasizes skill development through analysis and composition. Music examples are selected from Bach through Wagner. It also includes an advanced study in analysis and part writing utilizing modulation and chromatic harmony. Prerequisites: MUS-160 and MUS-160L or Music Department approval. Co-requisite: MUS-262L.

## MUS-262L\*: Music Theory III Lab (Aural Skills 1 credits and Musicianship)

A continuation of MUS-160L, this course is a study in rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training will be utilized. Prerequisites: MUS-160 and MUS-160L or Music Department approval. Co-requisite: MUS-262.

### MUS-301<sup>4</sup>: Introduction to Commercial Music 4 credits

This course is an introduction to the commercial music industry. Throughout this course, students will explore, gather, and create resources to aid their journey as entrepreneurial artists. Topics include recording and releasing music, building a fanbase, performing, booking, promotion, touring, sponsorships, investments, leveraging internet resources, film, television, funding, and royalties.

## MUS-301A: Commercial Music Performance 1 credits

In this lab, students will collaborate to create a variety of musical experiences.

## MUS-310 $^{\triangle \Phi}$ : Choral Literature for Music 2 credits Educators

This course is a survey study of the composers and choral literature appropriate for elementary and secondary school ensembles. Major literature; publishers; composers, arrangers, and their styles; and common performance and teaching problems will be considered.

### MUS-326<sup>♦</sup>: Orchestration and Arranging 2 credits

This course is a study and application in techniques of scoring and arranging music for various combinations of musical mediums. Includes scoring for strings, woodwinds, brasses, percussion, and voices.

## MUS-327♦: Band Literature for Music 2 credits Educators

This course is a survey study of the composers and band literature appropriate for elementary and secondary school ensembles. This course will consider major literature, publishers, composers, arrangers, and their styles, as well as common performance and teaching problems.

### MUS-331\*: Choral Methods and Pedagogy 2 credits

A study of advanced problems in rehearsing and conducting at the high school level. An examination and analysis of the prevailing choral philosophies, including performance techniques, score preparation, rehearsal techniques, programming, and administration of the choral program.

### MUS-335♦: Survey of Jazz 4

This writing-intensive course surveys the development of jazz music from its genesis, transformation, and growth to current postmodern practices. The styles are explored through the social identity of the music and musicians.

### MUS-340: Commercial Music Arranging 4 credits

This course covers principles of commercial music arranging. Contemporary styles, popular song forms, chord progressions, and the formation of musical ideas are further explored. Students arrange songs using DAW, MIDI, and notation software.

### MUS-346: Piano Pedagogy 4 credits

This course is a study of fundamentals of piano teaching from beginner to early advanced levels. It includes survey, analysis, and evaluation of piano methods and pedagogical literature. Observation and analysis of individual lessons are required. Studio management and marketing are also addressed in this course.

### MUS-347: Vocal Pedagogy 4 credits

This course is an exploration of voice pedagogy in alignment with analysis of vocal production. Students will be required to demonstrate pedagogical application.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **MUS-348:** Introduction to Film Scoring

This course is an introduction to the art of writing musical scores for film. Topics include identifying the various stakeholders in the film industry, musical characterization and concept development, the use of various compositional devices in film scores, orchestration, use of electronic music and contemporary rhythm sections in films and television scores, and entrepreneurial considerations.

4 credits

3 credits

### MUS-351♦: Music Theory IV

A continuation of MUS-262, this course emphasizes skill development through analysis and composition. This course includes analysis and composition methods of music of the late 19th through the 20th century. Prerequisites: MUS-262 and MUS-262L or Music Department approval. Co-requisite: MUS-351L.

## MUS-351L\*: Music Theory IV Lab (Aural Skills 1 credits and Musicianship)

A continuation of MUS-262L, this course is a study in rhythmic, melodic, and harmonic dictation; basic keyboard performance; and sight singing. Computer-assisted ear training will be utilized. Prerequisites: MUS-262 and MUS-262L or Music Department approval. Co-requisite: MUS-351.

### MUS-355<sup>△/•</sup>: Music History I 4 credits

This writing-intensive course is a survey of music from primitive times to the mid-18th century. It presents the growth of music in the Middle Ages and Renaissance through the contrapuntal schools, culminating in the work of J. S. Bach and the development of opera and oratorio during the Baroque period. Prerequisite: MUS-125.

### MUS-357♦: Music Composition Seminar 2 credits

This course introduces students to the creative processes in music composition, building on the study of music theory as a foundation for composing original music. Students explore the parameters of music and sound by composing original works in various styles. Prerequisites: MUS-160 and MUS-160L.

## MUS-358: Composition Using Music 4 credits Technology

This course will explore the use of music technology as a foundation for composing original works in various styles.

## MUS-359♦: Composition Using Music 2 credits Technology

This course will explore the use of music technology as a foundation for composing original works in various styles. Prerequisites: MUS-160 and MUS-160L.

### MUS-360<sup>/♠</sup>: Music History I 3 credits

This writing intensive course is a survey of music from primitive times to the mid-18th century. It presents the growth of music in the Middle Ages and Renaissance through the contrapuntal schools, culminating in the work of J. S. Bach and the development of opera and oratorio during the baroque period.

## MUS- Music History I 360HN<sup>∆</sup>/•:

This writing intensive course is a survey of music from primitive times to the mid-18th century. It presents the growth of music in the Middle Ages and Renaissance through the contrapuntal schools, culminating in the work of J. S. Bach and the development of opera and oratorio during the baroque period.

3 credits

### MUS-365<sup>△</sup> : Music History II 4 cre

This writing-intensive course is a survey of music from the mid-18th century to modern times. Study is devoted to the rise of homophonic music, the art song, the nationalistic schools, and the principal composers of the classical, romantic, and contemporary periods. Prerequisite: MUS-355.

## MUS- Music History II 4 credits $365\text{HN}^{\Delta/\Phi}$ :

This writing intensive course is a survey of music from the mid-18th century to modern times. Study is devoted to the rise of homophonic music, the art song, the nationalistic schools, and the principal composers of the classical, romantic, and contemporary periods. Prerequisite: MUS-355.

### MUS-366: Solo Literature: Instrumental 4 credits

This course is a survey of chamber music and symphonic literature. Emphasis is placed on studying selected repertoire through research and listening assignments. Prerequisite: MUS-155.

### MUS-367: Solo Literature: Piano 4 credits

This course is a historical survey of piano literature. Emphasis is on learning repertoire through reading, writing, and listening assignments.

### MUS-368: Solo Literature: Voice 4 credits

This course is a study on the nature and construct of (art) song as a genre.

### MUS-369<sup>△/•</sup>: Music History II 3 credits

This writing intensive course is a survey of music from the mid-18th century to modern times. Study is devoted to the rise of homophonic music, the art song, the nationalistic schools, and the principal composers of the classical, romantic, and contemporary periods. Prerequisite: MUS-360 or Music Department approval.

## MUS- Music History II 3 credits 369HN<sup>/♦</sup>:

This writing intensive course is a survey of music from the mid-18th century to modern times. Study is devoted to the rise of homophonic music, the art song, the nationalistic schools, and the principal composers of the classical, romantic, and contemporary periods. Prerequisite: MUS-360 or Music Department approval.

### MUS-370<sup>△</sup> Piano Literature I 2 credits

This course is a survey of baroque and classical periods. Emphasis is on learning the standard piano repertoire through reading and listening assignments.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MUS-375<sup>△</sup> •: Song Literature I

2 credits

This course is a survey study of the composers, their styles, and literature from the beginning of solo song through the early romantic period. Practicum/field experience hours: None. This course is a survey study of the solo vocal song: representative composers, compositional style, and literature from the Baroque through the mid-twentieth century. The focus is on early Italian song, German Lieder, French mélodie and Russian song.

### MUS-376<sup>△</sup> •: Song Literature II

2 credits

This course is a survey study of the composers, their styles, and literature from the middle romantic period of solo song through the contemporary period. It is a continuation of MUS-375. Practicum/field experience hours: None. This course is a survey study of the solo vocal song: representative composers, compositional style, and literature from the mid-nineteenth century through the present, The focus is on English language song, late Italian song, song written outside Western Europe and the United States, and includes a brief introduction to American popular song. MUS-376 is a continuation of MUS-375: Song Literature I.

### MUS-377<sup>△</sup> •: Piano Literature II

2 credi

This course is a survey of romantic and contemporary periods. Emphasis is on learning the standard piano repertoire through reading and listening assignments.

### MUS-378<sup>△</sup>•: Chamber Music Literature 2 credits

This course is a survey of chamber music literature. Emphasis is on learning the standard repertoire through reading and listening assignments.

### MUS-379<sup>♦</sup>: Symphonic Literature 2 cr

This course is a survey of symphonic literature. Emphasis is on learning the standard repertoire through reading and listening assignments.

### MUS-383<sup>‡</sup>: Conducting 4 credits

This course is a study of the fundamentals and techniques of conducting. Emphasis is placed on basic conducting skills, fundamentals of baton technique, left hand technique, non-verbal communication, leadership, conducting terminology, transpositions, and score reading. Techniques of score study, artistic interpretation, and programming will be explored. Prerequisite: MUS-155.

### MUS-393<sup>‡</sup> Form and Analysis

This course is a study of the various organizational structures in music, from motive, phrase, and period, through binary and ternary forms to the most complex, such as the variation, rondo, and sonata. Works of the masters are analyzed from the standpoint of form. Prerequisites: MUS-351 and MUS-351L, or MUS-275 or Music Department approval.

## MUS- Form and Analysis 393HN<sup>/♠</sup>:

3 credits

This course is a study of the various organizational structures in music, from motive, phrase, and period, through binary and ternary forms to the most complex, such as the variation, rondo, and sonata. Works of the masters are analyzed from the standpoint of form. Prerequisites: MUS-351 and MUS-351L, or MUS-275 or Music Department approval.

### **MUS-394**♦: Counterpoint

3 credits

This course is a survey of contrapuntal practice from the 18th century. Background reference is made to early polyphonic music. Emphasis is given to 16th century species counterpoint and to analyzing and writing inventions and fugues in the 18th century style of J. S. Bach. An introduction is provided for the use of counterpoint in 20th century composition. Prerequisites: MUS-351 and MUS-351L, or MUS-275.

### **MUS-406**♦: Jazz Techniques

1 credits

This course is a study of major jazz techniques and styles, including repertoire, instrumentation, improvisation, innovations, and major jazz ensembles.

### MUS-417<sup>♦</sup>: Collaborative Piano I

2 credits

This course is an introduction to collaborative and accompanying techniques and repertoire. Emphasis is placed on effective personal practice and preparation methods and ensemble rehearsal techniques. Collaborative skills of shared musical leadership, ensemble balance, and other performance issues are addressed through master class and private coaching of repertoire prepared as part of required assignments in vocal and/or instrumental studios. Score study, sight-reading, as well as techniques for dealing with orchestral piano reductions are also covered. Prerequisite: Advanced Standing or Music Department approval.

### MUS-418♦: Collaborative Piano II

This course is a continuation to Collaborative Piano I. Collaborative and accompanying techniques and repertoire continue to be developed; collaborative skills of shared musical leadership, ensemble balance, and other performance issues are addressed through master class and private coaching of repertoire prepared as part of required assignments in vocal and/or instrumental studios. Score study, sight-reading, as well as techniques for dealing with orchestral piano reductions are also covered. Prerequisite: MUS-417 or Music Department approval.

### MUS-427♦: Piano Pedagogy I

2 credits

2 credits

This course is a study of beginner fundamentals of piano teaching. It includes survey, analysis, classification, and evaluation of beginning piano methods. Principles of studio management and planning are introduced. This course includes observation and supervised teaching in the Piano Laboratory Program, and both individual and group lesson settings. Prerequisite: MUS-377 or Music Department approval.

3 credits

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MUS-428<sup>♦</sup>: Piano Pedagogy II

2 credits

This course is a study of intermediate/early advanced fundamentals of piano teaching. It includes survey of, analysis, classification, and evaluation of beginning piano methods. Emphasis is also placed on studio management and planning. This course includes observation and supervised teaching in the Piano Laboratory Program, and both individual and group lesson settings. Prerequisite: MUS-427 or Music Department approval.

### MUS-444: Collaborative Piano I 1 credits

This course is an introduction to collaborative and accompanying techniques and repertoire. Emphasis is placed on effective personal practice and preparation methods and ensemble rehearsal techniques. Collaborative skills of shared musical leadership, ensemble balance, and other performance issues are addressed through master class and private coaching of repertoire prepared as part of required assignments in vocal and/or instrumental studios. Score study, sight-reading, as well as techniques for dealing with orchestral piano reductions are also covered. Prerequisite: Advanced Standing or Music Department approval.

### MUS-446: Collaborative Piano II 1 credits

This course is a continuation to Collaborative Piano I. Collaborative and accompanying techniques and repertoire continue to be developed; collaborative skills of shared musical leadership, ensemble balance, and other performance issues are addressed through master class and private coaching of repertoire prepared as part of required assignments in vocal and/or instrumental studios. Score study, sight-reading, as well as techniques for dealing with orchestral piano reductions are also covered. Prerequisite: MUS-444 or Music Department approval.

### MUS-451<sup>\*</sup> • Advanced Choral Conducting 2 credits

This course is a study of advanced techniques of choral conducting. Rehearsal techniques, score reading, artistic interpretation, baton technique, and rehearsal techniques will be explored. Prerequisite: MUS-223.

## MUS- Advanced Choral Conducting 2 credits 451HN<sup>i</sup>♦:

This course is a study of advanced techniques of choral conducting. Rehearsal techniques, score reading, artistic interpretation, baton technique, and rehearsal techniques will be explored. Prerequisite: MUS-223.

## MUS-452<sup>\*\*</sup>: Advanced Instrumental 2 credits Conducting

This course is a study of advanced techniques of instrumental conducting. Rehearsal techniques, score reading, artistic interpretation, baton technique, and rehearsal techniques will be explored. Prerequisite: MUS-223 or Music Department approval.

## MUS- Advanced Instrumental 2 credits 452HN<sup>/♦</sup>: Conducting

This course is a study of advanced techniques of instrumental conducting. Rehearsal techniques, score reading, artistic interpretation, baton technique, and rehearsal techniques will be explored. Prerequisite: MUS-223 or Music Department approval.

### MUS-453\*: Advanced Conducting

2 credits

This course is a study of advanced techniques of conducting. Rehearsal techniques, score reading, artistic interpretation, baton technique, and programming will be explored. Prerequisite: MUS-223.

### MUS-455♦: Vocal Pedagogy

2 credits

This course is an exploration of voice science and pedagogy for voice instruction. Students will be required to demonstrate pedagogical application.

### MUS-457♦: Instrumental Pedagogy 2 credits

This course is a study of teaching instrumental music in the private music studio. The instruction is generally at the beginner level. This course includes observation in both individual and group lesson settings. Prerequisite: Advanced Standing or Music Department approval. Prerequisite: Advanced Standing or Music Department approval.

### MUS-463: Orchestration & Arranging 4 credits

This course is a study and application of techniques of scoring and arranging music for various instrumental and vocal ensembles. Programmatic technology requirements apply, as outlined in the University Policy Handbook. Prerequisite: MUS-260 or WSA-301 or MUS-201.

### MUS-465: The Entrepreneurial Musician 4 credits

This course is a study of the business and professional skills needed for musicians to turn their artistic passion into a profitable career. Topics include the mindset of entrepreneurs, networking and marketing, financial skills, and developing the independent teaching studio. The course culminates in the development of a professional portfolio and/or business plan that is true to the student's artistic voice.

### MUS-490♦: Senior Seminar 2 credits

This capstone course provides students an opportunity to develop their skills in an area of interest. Students will complete an independent project under faculty supervision.

### MUS-495: Senior Capstone in Music 4 credits

This capstone course provides students an opportunity to develop their skills in an area of interest. Students will complete an independent project under faculty supervision.

## MUS-496: Senior Capstone in Commercial 4 credits Music

This capstone course provides students an opportunity to develop their skills in an area of interest relevant to the commercial music industry. Students will complete an independent project under faculty supervision.

### Music Applied Voice (MVA)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **MVA-119**♦: Private Voice Study I

1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors. Prerequisites: Music Department approval and placement audition.

### MVA-120♦: Private Voice Study Majors I 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: Music Department approval and placement audition.

### MVA-129♦: Private Voice Study II 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-130♦: Private Voice Study Majors II 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-120 or Music Department approval and placement audition.

### MVA-219♦: Private Voice Study III 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-220♦: Private Voice Study Majors III 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-130 or Music Department approval and placement audition.

### MVA-229<sup>♦</sup>: Private Voice Study IV 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-230♦: Private Voice Study Majors IV 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-220 or Music Department approval and placement audition.

### MVA-319<sup>♦</sup>: Private Voice Study V 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-320♦: Private Voice Study Majors V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-230 or Music Department approval and placement audition.

### MVA-329<sup>♦</sup>: Private Voice Study VI 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-330♦: Private Voice Study Majors VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-320 or Music Department approval and placement audition.

### MVA-390<sup>Ω</sup>♦: Junior Recital

0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### MVA-419<sup>♦</sup>: Private Voice Study VII 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-420<sup>♦</sup>: Private Voice Study Majors VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-330 or Music Department approval and placement audition.

### MVA-429♦: Private Voice Study VIII 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for non-music majors.

### MVA-430<sup>♦</sup>: Private Voice Study Majors VIII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MVA-420 or Music Department approval and placement audition.

### MVA-490 $^{\Omega \bullet}$ : Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### Music Voice Class (MVC)

### MVC-109<sup>♦</sup>: Class Voice (Majors)

1 credits

This course is class instruction for students with limited or no previous voice training. Instruction includes the study of vocal technique and is designed to pass Part I of the Vocal Proficiency Examination. The voice proficiency requirements are identified in the music handbook.

### Woodwind Instruments (MWE)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### MWE-113<sup>♦</sup>: Private Applied Instruction-Secondary I

1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors. Prerequisites: Music Department approval and placement audition.

### **MWE-115**♦: Private Applied Instruction I 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: Music Department approval and placement audition.

### MWE-123\*: Private Applied Instruction-Secondary II

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

### MWE-125\*: Private Applied Instruction II 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-115 or Music Department approval and placement audition.

### MWE-213\*: Private Applied Instruction-Secondary III 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

### MWE-215\*: Private Applied Instruction III 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-125 or Music Department approval and placement audition.

### MWE-223\*: Private Applied Instruction-Secondary IV 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

### MWE-225\*: Private Applied Instruction IV 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-215 or Music Department approval and placement audition.

### MWE-313\*: Private Applied Instruction-Secondary V 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

### MWE-315♦: Private Applied Instruction V 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-225 or Music Department approval and placement audition.

### MWE-323\*: Private Applied Instruction-Secondary VI 1 credits

This course is the applied private study for music majors in their secondary instrument or area, and/or the applied private study for nonmusic majors.

### MWE-325<sup>♦</sup>: Private Applied Instruction VI 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-315 or Music Department approval and placement audition.

### MWE-390<sup>Ω</sup>♦: Junior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's junior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

### MWE-413\*: Private Applied Instruction-Secondary VII 1 credits

This course includes instruction in the major instrument. Emphasis is on advanced technique and literature.

### MWE-415♦: Private Applied Instruction VII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-325 or Music Department approval and placement audition.

### MWE-423\*: Private Applied Instruction-Secondary VIII 1 credits

This course is the private applied study for music majors in their secondary instrument or area, and/or private applied study for non-music majors.

### MWE-425\*: Private Applied Instruction VIII 2 credits

This course is the private applied study required for music majors in their major instrument or area. Prerequisites: MWE-415 or Music Department approval and placement audition.

### MWE-490♦: Senior Recital 0 credits

A formal, public recital, sponsored by the music department, in which the student presents a solo recital of a length appropriate to the major. The recital is to be given in the student's senior year. The student must concurrently be enrolled in the appropriate level of private instruction. Co-Requisite: The student must concurrently be enrolled in the appropriate level of private instruction.

# Nursing Remediation Course (NRC)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{$^{\rlap{$'}}}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course focuses on advanced pathology/physiology, advanced pharmacology, and advanced health assessment principles. The purpose of this course is to prepare the APRN learner for the 3P predictor exam. Emphasis is placed on creating a 6-week individual success plan. Content on the following systems will be reinforced: endocrinology, gastroenterology, hematology, men's health, neurology, orthopedics, pediatrics, pregnancy, psychiatry, respiration, sexually transmitted infections, urology, and women's health. Prerequisite: NUR-631, NUR-635, NUR-634.

### NRC-635: Nursing Remediation II

0 credits

0 credits

This second remediation course focuses on advanced pathology/physiology, advanced pharmacology, and advanced health assessment principles. The purpose of this course is to prepare the APRN learner for the 3P exam. Emphasis is placed on creating a 16-week individual success plan. Content on the following systems will be reinforced: endocrinology, gastroenterology, hematology, men's health, neurology, orthopedics, pediatrics, pregnancy, psychiatry, respiration, sexually transmitted infections, urology, and women's health. Prerequisite: NRC-634.

### Nursing (NRS)

## NRS-410V\*: Pathophysiology and Nursing 3 credits Management of Clients' Health

This course is designed to enhance the working RN's existing understanding of the pathophysiological processes of disease as they affect clients across the lifespan. The interrelationship of structural and functional reactions of cells and tissues to genetic alterations and injurious agents provide the foundation for comprehending clinical manifestations and treatment protocols. Critical thinking and nursing management are enhanced through the use of case studies that integrate nutritional and pharmacological concepts. The understanding of environmental and biological risk factors provides the nurse with the knowledge to provide health promotion and prevention education.

## NRS-415 $^{\Omega}$ : Nursing Leadership and 3 credits Interprofessional Collaboration

This course is an introduction to the Core Competencies for Professional Nursing Education, the role of the professional nurse, and the importance of effective nursing leadership. Standards of practice, differentiated nursing practice, professional accountability, interprofessional collaboration, and quality improvement are emphasized with importance placed on the application of leadership styles and management skills.

This course focuses on methods of health history taking, physical examination skills, and documentation. Learners integrate assessment skills and clinical judgment/reasoning in identifying actual or potential health problems and needs across the life span. Health promotion strategies are incorporated to provide for the unique needs of the individual, ensuring person-centered care. Learners design plans of care based on evidence-based research and practice.

## NRS-425: Health Promotion and Population 3 credits Health

This course focuses on the community as the patient taking into account varying cultures, spiritual values, geographic norms, and economic conditions. The course examines social determinants of health, including social, legal, and political variables impacting individual, community, and population health across the life span. Students use epidemiological data, functional health pattern assessments, and nursing theories to plan and intervene in areas of health promotion and disease prevention across the life span.

## NRS-427V\*: Concepts in Community and Public 3 credits Health

This course focuses on the community as a large system of people of varying cultures, spiritual values, geographic norms, and economic conditions, all influenced by social-legal-political variables that impact individual and community health. Particular attention is paid to vulnerable subgroups in the community. Emphasis is placed on critical analysis, using epidemiological data and functional health pattern assessments to plan and intervene in areas of health promotion and disease prevention.

## NRS-427VN\*: Concepts in Community and Public 3 credits Health

This course focuses on the community as a large system of people of varying cultures, spiritual values, geographic norms, and economic conditions, all influenced by social-legal-political variables that impact individual and community health. Particular attention is paid to vulnerable subgroups in the community. Emphasis is placed on critical analysis, using epidemiological data and functional health pattern assessments to plan and intervene in areas of health promotion and disease prevention.

## NRS-428VN: Concepts in Community and Public 3 credits Health

This course focuses on the community as a large system of people of varying cultures, spiritual values, geographic norms, and economic conditions, all influenced by social-legal-political variables that impact individual and community health. Particular attention is paid to vulnerable subgroups in the community. Emphasis is placed on critical analysis, using epidemiological data and functional health pattern assessments to plan and intervene in areas of health promotion and disease prevention. Students are required to document 25 indirect clinical practice hours in association with this course.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### NRS-429V\*: Family-Centered Health Promotion 3 credits

This course focuses on family theories, health promotion models, cultural diversity, and teaching learning principles. The course emphasizes the family as the client, family FHP health assessments, screenings across the lifespan, communication, community resources, and family education. Appropriate health promotion education is evaluated against evidence-based research and practice.

### NRS-429VN +: Family-Centered Health Promotion 3 credits

This course focuses on family theories, health promotion models, cultural diversity, and teaching learning principles. The course emphasizes the family as the client, family FHP health assessments, screenings across the lifespan, communication, community resources, and family education. Appropriate health promotion education is evaluated against evidence-based research and practice.

### NRS-430 $V^{\Omega}$ : Professional Dynamics 3 credits

This course is a bridge course for the RN who is returning to formal education for the baccalaureate degree in nursing. The course focuses on differentiated nursing practice competencies, nursing conceptual models, professional accountability, integrating spirituality into practice, group dynamics, and critical thinking. The course also emphasizes writing and oral presentation skills.

# NRS-431N: Public Health Nursing for 3 credits California Nurses

California registered nurses seeking to apply for California Public Health Nurse Certification will emphasize and further develop the concepts of epidemiology, emergency response, abuse, human trafficking, prevention and health promotion, community collaboration, and healthcare finances. During the course the student will create a public health response plan while completing 90 public health hours with an approved preceptor. Practicum/field experience hours: 90. Prerequisite: NRS-493.

### NRS-433 $V^{\Delta}$ : Introduction to Nursing Research 3 credits

This writing-intensive course promotes the use of research findings as a basis for improving clinical practice. Quantitative and qualitative research methodologies are presented. Emphasis is on the critical review of research studies and their applications to clinical practice. An overview of evidence-based practice is provided. Prerequisite: HLT-362V.

### NRS-434VN<sup>\( \Phi\)</sup>: Health Assessment 3 credit

This course focuses on methods of health history taking, physical examination skills, documentation, and health promotion strategies. The course emphasizes the individual as the client, health patterns across the life span, community resources, and the teaching-learning process.

# NRS-440VN\*: Trends and Issues in Today's 3 credits Health Care

This course explores the impact of numerous professional and societal forces on health care policy and practice. Content includes an analysis of current studies; nursing care policy and position statements; political, environmental, and cultural issues; and changing nursing roles. The study of these issues examines the impact on health care delivery systems in today's society.

### NRS-441 $V^{\Omega}$ : Professional Research Project 3 credi

The capstone project is a culmination of the learning experiences while a student in the nursing program. The student will prepare a written proposal for a project whose focus is the resolution of an issue or problem significant to professional nursing practice. The proposal includes a problem description, resolution, implementation, plans, evaluation plans, and proposed dissemination of findings. The professional capstone project proposal needs to reflect synthesis and integration of course content and professional practice. The capstone project is guided by the baccalaureate program student learner outcomes.

## NRS-445<sup>\(\Delta\)</sup>: Nursing Research and Evidence 3 credits Based Practice

This writing-intensive course promotes the use of research findings as a basis for improving clinical practice. Quantitative and qualitative research methodologies are analyzed with an emphasis on the critical review of research studies and their application to clinical practice. Students develop evidence-based practice recommendations from the critical analysis of available literature guided by a PICOT question. Prerequisite: HLT-362V.

### NRS-450: Nursing Informatics 3 credit

This course focuses on the methods and technologies used to acquire, process, and analyze patient data, emphasizing information and communication technologies that support the documentation of care and effective communication among health team members at all system levels. This course provides students with an understanding of the importance of professional and ethical standards pertaining to the regulation and security of health information.

# NRS-451VN: Nursing Leadership and 3 credits Management 3 credits

Registered nurses with current licensure have a basic understanding of the role of the professional nurse. This course emphasizes further development of the professional nurse role. Critical management and leadership values, styles, and skills are a major focus. Particular attention is given to the identification of personal leadership styles and values. Importance is placed on development of effective management and leadership skills, with emphasis on effective communication.

### NRS-455: Pathophysiology 3 credits

This course is designed to build upon existing knowledge of the pathophysiological processes of disease as they affect patients across the life span, recognizing the nurse's multidimensional role in health promotion and disease management and prevention, which include biological, environmental, social, psychological, and spiritual dimensions. Integration of nutritional and pharmacological concepts encourages critical thinking and application of nursing interventions. Prerequisite: NRS-420.

### NRS-460: Complex Disease Management 3 credits

This course integrates knowledge from pathophysiology, pharmacology, nursing theory, and current evidence-based practice to inform clinical judgment and to ensure safe, effective, and holistic care. The nursing process is applied to provide safe, quality care reflecting cultural humility across the life span. Particular attention is paid to interprofessional collaboration in the process of disease management and care coordination.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

The final course in the program is writing-intensive. It will integrate the academic and practical knowledge students have acquired throughout the program's curriculum. Students participate in planned clinical experiences that refine professional competencies at the baccalaureate level and enable them to integrate new knowledge and enhanced skills to advance nursing practice. Clinical practice hours are dedicated to learning objectives in leadership and community health. The evidencebased project provides students an opportunity to identify a clinical nursing practice issue and propose a possible solution. Students, under the guidance of faculty and approved preceptors, identify and analyze a nurse practice issue, develop a change project, and propose an evidence-based solution that reflects synthesis and integration of course content and professional practice. The evidence-based project development is guided by the baccalaureate program learning outcomes. Clinical hours: 100. 50 hours in leadership and 50 hours in community health. Prerequisite: NRS-415, NRS-420, NRS-425, HLT-362V, NRS-445, PHI-413V, NRS-450, NRS-455, NRS-460.

# NRS-490 $^{\Lambda\Omega}$ : Professional Capstone and 6 credits Practicum

This is a writing intensive course. The professional capstone practicum project offers students the opportunity to propose a resolution to an issue or problem significant to nursing practice within a clinical environment. Students identify, design, and propose an evidence-based solution within a health care organization with guidance from faculty and a preceptor in the field. The proposal must reflect synthesis and integration of course content and professional practice. Development of the capstone project is guided by the baccalaureate program student learning outcomes. Practicum/field experience hours: 100. Prerequisites: NRS-430V, NRS-429VN, NRS-434VN, NRS-427VN, NRS-433V, PHI-413V, NRS-451VN, NRS-410V, and NRS-440VN.

# NRS-491 $^{\Delta}$ : Professional Capstone and 6 credits Practicum

This is a writing intensive course. The professional capstone practicum project offers learners the opportunity to propose a resolution to an issue or problem significant to nursing practice within a clinical environment. Learners identify, design, and propose an evidence-based solution within a health care organization with guidance from faculty and a preceptor in the field. The proposal must reflect synthesis and integration of course content and professional practice. Development of the capstone project is guided by the baccalaureate program learner learning outcomes. Practicum/field experience hours: 100. Prerequisites: NRS-430V, NRS-429VN, NRS-434VN, NRS-427VN, NRS-433V, PHI-413V, NRS-451VN, NRS-410V, and NRS-440VN.

## NRS-493<sup>\(\Delta\)</sup>: Professional Capstone and Practicum

6 credits

This is a writing-intensive course. The course combines scholarly activities with clinical practice experiences designed to synthesize learning into the practice environment and impact health outcomes. Learners participate in planned, clinical experiences that refine professional competencies at the baccalaureate level and enable learners to integrate new knowledge and higher level skills to advance nursing practice. Clinical practice hours will be dedicated to learning objectives in leadership and in community health. The professional capstone project offers learners the opportunity to propose a resolution to an issue or problem significant to nursing practice within a clinical environment. Learners identify, design, and propose an evidence-based solution within a health care organization with guidance from faculty and a preceptor in the field. The proposal must reflect synthesis and integration of course content and professional practice. Development of the capstone project is guided by the baccalaureate program learner learning outcomes. Clinical hours: 100. Combined; 50 hours in leadership and 50 hours in community health. Prerequisites: NRS-430V, NRS-429VN, NRS-434VN, NRS-428VN, HLT-362V, NRS-433V, PHI-413V, NRS-451VN, NRS-410V, and NRS-440VN.

### Nutritional Sciences (NSC)

### NSC-101: Introduction to Dietetics 2 credits

This introductory course provides students with a comprehensive overview of the field of dietetics, offering a foundational understanding of the pathway to becoming a registered dietitian nutritionist (RDN). Through a combination of theoretical knowledge and practical applications, students explore the essential principles of nutrition, dietary planning, and the role of dietitians in promoting health and well-being.

### NSC-150<sup>♦</sup>: Nutrition and Wellness 4 credits

This is an introductory course in general nutrition and wellness, including the definitions of fitness and health, and review of fundamental nutritional principles. This course provides for a basic understanding of nutritional science and applications to food selection and overall health and wellness.

### NSC-305<sup>\*</sup>: Nutrition across the Lifespan 4 credits

This course examines nutritional requirements and applies the principles of basic nutrition to each stage of the life cycle, with a special emphasis on how growth, development and health status relate to nutrition. It also introduces the role of beliefs, culture, and other factors in nutrition. Prerequisite: NSC-150.

### NSC-305HN<sup>‡</sup>: Nutrition across the Lifespan 4 credits

This course examines nutritional requirements and applies the principles of basic nutrition to each stage of the life cycle, with a special emphasis on how growth, development and health status relate to nutrition. It also introduces the role of beliefs, culture, and other factors in nutrition. Prerequisite: NSC-150.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### NSC-315: Food and Nutrition Management 4 credits

Food and Nutrition Management offers students a comprehensive understanding of the principles, practices, and managerial skills required to excel in the dynamic field of large-scale food operations. Through a blend of theoretical concepts and practical applications, students explore various management styles, menu planning, recipe modification, operational strategies, and key considerations in overseeing food service establishments. Prerequisites: NSC-101 and NSC-150.

# NSC-325: Nutrition Counseling and 4 credits Communication

Nutrition Counseling and Communication is an intersection of nutrition, counseling, and effective communication, with a strong emphasis on diversity, equity, and inclusion. Students explore the multifaceted role of nutrition professionals in fostering positive relationships with diverse clients and communities. Through a combination of theoretical frameworks, practical exercises, and case studies, participants develop essential skills in nutrition counseling and communication strategies tailored to meet the diverse needs of individuals and groups. Prerequisites: NSC-101, NSC-150, and BIO-319.

### NSC-345: Community Nutrition 4 credits

This course explores nutrition's role in public health and communities. Students explore the role of nutrition professionals in enhancing community well-being and addressing health disparities. Through a combination of foundational knowledge, practical applications, and real-world examples, students gain insights into community-based-interventions, public policy, and the advancement of health equity. Prerequisites: NSC-101 and NSC-150.

### NSC-350: Food Sciences 3 credits

This course explores the scientific principles of food preparation, processing, and preservation; attention to food safety; and ingredient interactions in meal preparation. Prerequisite: BIO-319.

### NSC-350L: Food Sciences Lab 1 credits

This course introduces food preparation with a focus on ingredient interactions and the impact of different food preparation methods. The laboratory complements the lecture course and covers food safety, meal planning, and purchasing. Prerequisite: BIO-319. Co-Requisite: NSC-350.

### NSC-419: Advanced Nutrition 4 credits

This course applies concepts learned in earlier nutrition courses in a comprehensive and practical manner. Examples of covered topics include advanced meal planning, the nutritional needs of special populations, sports nutrition, and advanced applications of nutritional principles and research to solve nutrition-related problems. Prerequisite: BIO-319.

### NSC-420: Advanced Nutrition I

4 credits

This advanced-level course delves into the intricate world of macronutrient metabolism, providing students with an in-depth understanding of the physiological processes governing the breakdown, utilization, and regulation of carbohydrates, proteins, and fats. Through a comprehensive exploration of molecular and cellular mechanisms, participants gain insights into how macronutrients contribute to energy production, cellular functions, and overall metabolic homeostasis. Prerequisites: NSC-101, NSC-150, and BIO-319.

#### NSC-425: Advanced Nutrition II 4 credits

This advanced-level course provides a comprehensive exploration of the metabolism of micronutrients, offering students an in-depth understanding of the essential role these compounds play in human health. Participants delve into the molecular processes governing the absorption, transport, and utilization of micronutrients, gaining insights into their physiological functions and impact on cellular metabolism. Prerequisites: NSC-101, NSC-150, and BIO-319.

### NSC-475: Medical Nutrition Therapy I 4 credits

Medical Nutrition Therapy 1 provides students with a comprehensive understanding of the principles and applications of nutrition in the prevention and treatment of medical conditions. With a focus on health screening, coding, billing, and the practical implementation of medical nutrition therapy, students develop the knowledge and skills necessary to work collaboratively within the health care system. Prerequisites: NSC-101, NSC-150, and BIO-319.

### NSC-480: Medical Nutrition Therapy II 3 credits

This advanced course delves into the clinical application and expanded role of medical nutrition therapy (MNT) within a clinical setting. Through an in-depth exploration of complex cases, evidence-based practices, and hands-on clinical experiences, students further develop their expertise in assessing, diagnosing, and implementing therapeutic nutrition interventions for diverse patient populations. Prerequisite: NSC-475. Co-Requisite: NSC-480L.

### NSC-480L: Medical Nutrition Therapy II Lab 1 credits

The advanced Medical Nutrition Therapy Lab provides students with hands-on experiences to apply theoretical knowledge in a clinical setting. Through a series of interactive sessions, simulations, and practical exercises, students develop proficiency in conducting nutrition assessments, utilizing diagnostic testing, performing nutrition-focused physical exams, and implementing therapeutic nutrition interventions. Prerequisite: NSC-475. Co-Requisite: NSC-480.

### NSC-490<sup>△</sup>: Nutrition Research 4 credits

This writing intensive course introduces basic research designs and their applications to nutrition. Examples of possible topics include applied epidemiology, nutrition-related health problems, food production and dissemination, and the issues of sustainability that surround these. Prerequisite: BIO-319.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### NSC-495 $^{\Delta t}$ : Capstone in Nutrition

4 credits

This writing intensive capstone course requires students to integrate and apply what they have learned in the Nutrition program, as well as understand the ethics of nutritional sciences. For example, to demonstrate understanding of nutritional principles, students in this course develop client plans for individuals of different health statuses. Prerequisite: NSC-419 or NSC-420.

# NSC-507: Introduction to Graduate Studies in 2 credits Dietetics

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the Master of Science in Nutrition and Dietetics in the College of Natural Sciences. Emphasis is placed on utilizing the tools for graduate success and providing understanding of competency-based learning within the Future Education Model graduate program.

### NSC-510: Behavioral Science and Counseling 4 credits

This course provides advanced knowledge in client-centered counseling techniques and the foundation of behavioral science. The course reviews the basic tenants of motivational interviewing and provides opportunity for students to apply these skills to motivate behavior change. Practicum/field experience hours: 100. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements.

# NSC-550: Advanced Medical Nutrition 4 credits Therapy

This course provides an overview of the nutrition care process while developing a foundation for concepts of nutritional therapy in prevention and treatment of disease. It includes evidence-based practice of advanced therapies and patient management in nutrition support. Practicum/field experience hours: 100. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements. Prerequisite: NSC-510.

### NSC-595: Applied Medical Nutrition Therapy 4 credits

This course builds on the foundation of evidence-based practice in nutrition therapy for prevention and treatment of disease by providing experiential learning opportunities in professional settings. Students apply foundational knowledge to complete hands-on practice and implementation. Practicum/field experience hours: 200. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements. Prerequisite: NSC 510, NSC 550.

### NSC-600: Food and Nutrition Management 4 credits

This course provides an overview of standardized methods of quantity food preparation, menu planning, and management practices in food and nutrition. It provides students with the opportunity to apply didactic skills and knowledge into practice through experiential learning opportunities. Practicum/field experience hours: 200. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements.

# NSC-650: Community Nutrition and 4 credits Advocacy

This course assesses the nutritional status of communities and populations. It identifies the nutrition professional's role in community-based nutrition intervention, development, and delivery of nutrition related policies, the understanding of cultural competence, and effective advocacy skills. Students apply foundational knowledge to complete hands-on practice and implementation. Practicum/field experience hours: 100. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements.

# NSC-675: Leadership in Nutrition and 4 credits Dietetics

This course provides an exploration of leadership, management, and organization styles and behaviors within nutrition and dietetics. It examines the interaction between personal characteristics and organizational culture to equip students to develop leadership skills and strategies within the nutrition profession. Practicum/field experience hours: 50. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements.

### NSC-695: Capstone in Nutrition and Dietetics 4 credits

This course requires students to build on the foundation of knowledge learned in the graduate program and apply evidence-based practice through hands-on experiential learning opportunities in a specified area of nutrition and dietetics. Students complete experiential learning hours to give them the hands-on experience they need to successfully enter the nutrition profession. Practicum/field experience hours: 250. Students must complete the minimum amount of hours required. State licensure requirements can vary from state to state and may require additional requirements. Students must review and adhere to their state's requirements. Prerequisite: NSC 595, NSC 600, NSC 650.

### Nursing (NSG)

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### NSG-300: Foundations of Nursing

4 credits

NSG-300CI: FN Immersive Simulation

0 credits

This course introduces the nursing process and focuses on the development of critical thinking and clinical reasoning skills in the application of the nursing process in planning safe, culturally sensitive, client-centered care. Learners are introduced to concepts of health and physiologic and psychosocial alterations. The underlying theoretical concepts related to fundamental nursing skills are introduced. Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300C, or NSG-300CA, or NSG-300CB.

### NSG-300C: Foundations of Nursing Clinical 2 credits

In this clinical course, learners use the nursing process to identify clinical data and assessment findings to plan, prioritize, and implement direct client care in assigned health care settings related to the care of the adult population. Learners are expected to integrate principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Fundamental nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 56. Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300.

### NSG-300CA: Foundations of Nursing Clinical 2 credits

In this clinical course, learners use the nursing process to identify clinical data and assessment findings to plan, prioritize, and implement direct client care in assigned health care settings related to the care of the adult population. Learners are expected to integrate principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Fundamental nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 76. (64 clinical experience hours and 12 immersive simulation hours). Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300.

### NSG-300CC: FN Clinical Rotation 0 credits

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300.

### NSG-300CCA: FN Clinical Rotation 0 cred

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300.

This immersive simulation experience provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisite: Admission into the nursing program. Co-Requisite: NSG-300.

### NSG-300CIA: FN Immersive Simulation 0 credits

This immersive simulation provides learners with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Learners are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, learners engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Co-Requisite: NSG-300.

## NSG-310<sup>+</sup>♦: Introduction to Professional 3 credits Nursing

This course introduces the professional standards, regulations, and ethical code that inform the field of nursing. Learners learn about scope and standards of practice with particular emphasis on the nurse's role in providing client-centered care as a member of an interdisciplinary health care team. Learners also learn skills in therapeutic, interpersonal, and interprofessional communication and examine the relationship of communication and technology to safety and positive client outcomes. Prerequisite: Admission into the nursing program.

# NSG-310HN<sup>f</sup>: Introduction to Professional 3 credits Nursing

This course introduces the professional standards, regulations, and ethical code that inform the field of nursing. Students learn about scope and standards of practice with particular emphasis on the nurse's role in providing client-centered care as a member of an interdisciplinary health care team. Students also learn skills in therapeutic, interpersonal, and interprofessional communication and examine the relationship of communication and technology to safety and positive client outcomes. Prerequisite: Admission into the nursing program.

### NSG-316: Health Assessment 4 credits

In this course, learners use the nursing process to systematically collect, validate, and communicate the physiological, psychological, sociocultural, spiritual, lifestyle, and functional assessment data for diverse adult clients. Learners demonstrate client-centered interviewing skills and obtaining a health history, along with hands-on assessment techniques through supervised laboratory practice. Prerequisite: Admission into the nursing program.

509

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### NSG-318: Introduction to Pharmacology 3 credits

This course introduces basic principles of pharmacotherapy used in health promotion/maintenance and disease prevention for diverse populations across the life span. Learners learn principles of pharmacokinetics, pharmacodynamics, and pharmacogenetics/genomics, and study drug classifications and corresponding mechanisms of action, including pathophysiological effects. Use of the nursing process in developing a comprehensive approach to the clinical application of drug therapy is also discussed. Prerequisite: Admission into the nursing program.

### NSG-320: Adult Health Nursing I 5 credits

This course focuses on nursing care of adult clients. Learners demonstrate competency in the advancing role of the professional registered nurse and clinical reasoning to improve client outcomes. Learners begin to integrate knowledge of clinical data, pharmacologic concepts, and assessment findings to plan, prioritize, and implement nursing care. Prerequisites: NSG-300, NSG-300C or NSG-300CA or NSG-300CB, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320C, or NSG-320CA, or NSG-320CB.

#### NSG-320C: Adult Health Nursing I Clinical 3 credits

In this clinical course, through use of the nursing process, learners begin to integrate knowledge of clinical data, pharmacologic concepts, and assessment findings to plan, prioritize, and implement direct care for adults experiencing acute and chronic health disruptions in a variety of health care settings. Learners are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Medical-surgical nursing skills necessary to providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 132. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

### NSG-320CA: Adult Health Nursing I Clinical 4 credits

In this clinical course, through use of the nursing process, learners begin to integrate knowledge of clinical data, pharmacologic concepts, and assessment findings to plan, prioritize, and implement direct care for adults experiencing acute and chronic health disruptions in a variety of health care settings. Learners are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Medical-surgical nursing skills necessary to providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 160. (132 clinical experience hours and 28 immersive simulation hours). Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

### NSG-320CC: AHN I Clinical Rotation

0 credits

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

### NSG-320CCA: AHN I Clinical Rotation 0 credits

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

#### NSG-320CI: AHN I Immersive Simulation 0 credits

This immersive simulation experience provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

### NSG-320CIA: AHN I Immersive Simulation 0 credits

This immersive simulation provides learners with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Learners are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, learners engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-320.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

In this course, learners utilize the nursing process to provide behavioral health care in community and acute inpatient settings for individuals, families, and community groups. Emphasis is placed on primary, secondary, and tertiary levels of behavioral health care, including pharmacotherapy and nursing interventions for clients in crisis and clients with serious and persistent mental illness. Concepts including therapeutic communication, interdisciplinary collaboration, client-centered coping-skills, and affective skills of critical thinking and clinical judgment are integrated with biopsychosocial, spiritual, and cultural aspects of behavioral health nursing practice. Prerequisites: NSG-300, NSG-300C or NSG-300CA or NSG-300CB, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322C, or NSG-322CA, or NSG-322CB.

#### NSG-322C: Behavioral Health Nursing Clinical 1 credits

In this clinical course, learners use the nursing process to apply clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, assess, and implement direct client care in assigned behavioral health care settings. Learners have the opportunity to practice therapeutic communication skills. Learners are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Clinical hours: 48. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

### NSG-322CA: Behavioral Health Nursing Clinical 1 credits

In this clinical course, learners use the nursing process to apply clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, assess, and implement direct client care in assigned behavioral health care settings. Learners have the opportunity to practice therapeutic communication skills. Learners are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Clinical hours: 64. (48 clinical experience hours and 16 immersive simulation hours). Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

### NSG-322CC: BHN Clinical Rotation 0 credits

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

This clinical rotation provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

### NSG-322CI: BHN Immersive Simulation 0 credits

This immersive simulation experience provides learners with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Learners are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Learners apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

#### NSG-322CIA: BHN Immersive Simulation 0 credits

This immersive simulation provides learners with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Learners are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, learners engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322.

### NSG-322HN\*: Behavioral Health Nursing 3 credits

In this course, students utilize the nursing process to provide behavioral health care in community and acute inpatient settings for individuals, families, and community groups. Emphasis is placed on primary, secondary, and tertiary levels of behavioral health care, including pharmacotherapy and nursing interventions for clients in crisis and clients with serious and persistent mental illness. Concepts including therapeutic communication, interdisciplinary collaboration, client-centered coping-skills, and affective skills of critical thinking are integrated with biopsychosocial, spiritual, and cultural aspects of behavioral health nursing practice. Prerequisites: NSG-300, NSG-300C, NSG-310, NSG-316, and NSG-318. Co-Requisite: NSG-322C.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## NSG-324<sup>Δ</sup>: Research and Evidence-Based Practice

3 credits

In this writing-intensive course, learners are introduced to the research process and methodologies using qualitative and quantitative data. Learners examine the processes required to integrate evidence into nursing practice. Emphasis is on evaluation and application of scientific evidence affecting nurse-sensitive quality indicators. Learners differentiate types and levels of evidence and identify appropriate sources that inform nursing practice. Strategies for implementation, methods of evaluation, and dissemination of research findings are discussed. This course also expands on informatics technology used to support data, information, and knowledge needs in the delivery of nursing and health care. Prerequisites: NSG-300, NSG-300C or NSG-300CA or NSG-300CB, NSG-310, NSG-316, and NSG-318.

# NSG-324A: Research and Evidence-Based 2 credits Practice 2

In this writing-intensive course, learners are introduced to the research process and methodologies using qualitative and quantitative data. Learners examine the processes required to integrate evidence into nursing practice. Emphasis is on evaluation and application of scientific evidence affecting nurse-sensitive quality indicators. Learners differentiate types and levels of evidence and identify appropriate sources that inform nursing practice. Strategies for implementation, methods of evaluation, and dissemination of research findings are discussed. This course also expands on informatics technology used to support data, information, and knowledge needs in the delivery of nursing and health care. Prerequisites: NSG-300, NSG-300C or NSG-300CA, NSG-310, NSG-316, and NSG-318.

### NSG-430: Adult Health Nursing II 5 credits

In this course, students synthesize advanced medical-surgical and pharmacologic concepts. Students use the nursing process to manage clients with higher levels of acuity and complex health needs. Prerequisites: NSG-320, NSG-320C or NSG-320CA or NSG-320CB, NSG-322, NSG-322C or NSG-322CA or NSG-322CB, and NSG-324 or NSG-324A. Co-Requisite: NSG-430C, or NSG-430CA, or NSG-430CB.

### NSG-430C: Adult Health Nursing Clinical II 2 credits

In this clinical course, students utilize the nursing process to independently plan, prioritize, implement, and evaluate direct client care for adults with complex health needs. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Advanced medical-surgical nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 60. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-430.

### NSG-430CA: Adult Health Nursing Clinical II 2 credits

In this clinical course, students utilize the nursing process to independently plan, prioritize, implement, and evaluate direct client care for adults with complex health needs. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Advanced medical-surgical nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 96. (84 clinical experience hours and 12 immersive simulation hours). Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-430.

### NSG-430CC: AHN II Clinical Rotation 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-430.

### NSG-430CCA: AHN II Clinical Rotation 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-430. Prerequisites: NSG-320, NSG-320C or NSG-322CA, NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-430.

### NSG-430CI: AHN II Immersive Simulation 0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-430.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

This immersive simulation provides students with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Students are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, students engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-430.

# NSG-432: Nursing Care of the Childbearing 3 credits Family

This course introduces nursing concepts related to women's health, pregnancy, and newborn care. Focus is on health promotion and disease prevention, pharmacologic concepts, ethical and legal aspects, and decision making for childbearing families. Nursing care of the normal and high-risk childbearing family from preconception through the postpartum period is addressed. Emphasis is on promoting positive outcomes during the childbearing phase of family development. Prerequisites: NSG-320, NSG-320C or NSG-320CA or NSG-320CB, NSG-322, NSG-322C or NSG-322CA or NSG-322CB, and NSG-324 or NSG-324A. Co-Requisite: NSG-432C, or NSG-432CA, or NSG-432CB.

# NSG-432C: Nursing Care of the Childbearing 1 credits Family Clinical

In this clinical course, students use the nursing process to analyze clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, and implement client care in assigned health care settings related to the childbearing family. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Obstetric nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 48. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-432.

# NSG-432CA: Nursing Care of the Childbearing 1 credits Family Clinical

In this clinical course, students use the nursing process to analyze clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, and implement client care in assigned health care settings related to the childbearing family. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Obstetric nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 48. (36 clinical experience hours and 12 immersive simulation hours). Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-432.

### NSG-432CC: OB Clinical Rotation

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-432.

#### NSG-432CCA: OB Clinical Rotation

0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-432.

#### NSG-432CI: NCCF Immersive Simulation 0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-432.

### NSG-432CIA: NCCF Immersive Simulation 0 credits

This immersive simulation provides students with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Students are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, students engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-432.

# NSG-434: Nursing Care of the Childrearing 3 credits Family

This course focuses on theories and concepts of growth and development, cultural influences, ethical issues, and physiological responses related to the nursing care of both the sick and well child. Emphasis is placed on teaching and community resources related to the childrearing family from infancy through adolescence. Prerequisites: NSG-320, NSG-320C or NSG-320CA or NSG-320CB, NSG-322, NSG-322C or NSG-322CA or NSG-322CB, and NSG-324 or NSG-324A. Co-Requisite: NSG-434C, or NSG-434CA, or NSG-434CB.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# NSG-434C: Nursing Care of the Childrearing 1 credits Family Clinical

In this clinical course, students use the nursing process to analyze clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, and implement client care in assigned health care settings related to the childrearing family. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Pediatric nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 48. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-434.

# NSG-434CA: Nursing Care of the Childrearing 1 credits Family Clinical

In this clinical course, students use the nursing process to analyze clinical data, knowledge of pharmacology, pathophysiology, evidence-based practice, and assessment findings to collaboratively plan, prioritize, and implement client care in assigned health care settings related to the childrearing family. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care. Pediatric nursing skills necessary for providing care are introduced and practiced in laboratory and simulated settings. Clinical hours: 48. (36 clinical experience hours and 12 immersive simulation hours). Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324A. Co-Requisite: NSG-434.

#### NSG-434CC: Peds Clinical Rotation 0 credit

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-434.

### NSG-434CCA: Peds Clinical Rotation 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-434.

### NSG-434CI: Peds Immersive Simulation

0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-320, NSG-320C, NSG-322, NSG-322C, and NSG-324. Co-Requisite: NSG-434.

### NSG-434CIA: Peds Immersive Simulation 0 credits

This immersive simulation provides students with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Students are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, students engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-320, NSG-320C or NSG-320CA, NSG-322, NSG-322C or NSG-322CA, and NSG-324 or NSG-324A. Co-Requisite: NSG-434.

## NSG-436: Leadership, Ethics, and Policy in 3 credits Health Care

This course explores nursing leadership, nursing's role in policy advocacy and development, and ethical and legal principles that impact nursing and the provision of health care within a complex health care delivery system. Students examine the influence of the nursing profession on policy and regulation, the financial structure of health care systems, and issues related to improving quality and client outcomes within health care organizations using leadership and management concepts. Students apply ethical and legal principles while evaluating the relationship between law and ethics and its impact on diverse individuals, families, and communities. Prerequisites: NSG-320, NSG-320C or NSG-320CA or NSG-320CB, NSG-322, NSG-322C or NSG-322CA or NSG-322CB, and NSG-324 or NSG-324A.

### NSG-440<sup>\*</sup>: Population Health 3 credits

This course focuses on the role of the nurse in population-focused health, examining population-based systems, and community, individual, and family-focused population health practice. Emphasis is on addressing issues of overall health improvement, the broad determinants of health, and the elimination of health disparities among vulnerable populations. Students apply epidemiologic concepts and evidence-based research to the study of disease and develop strategies to promote health and prevent disease in diverse communities and populations with an emphasis on community-based assessment and partnership as well as broader population-focused interventions. Prerequisites: NSG-430, NSG-430C or NSG-430CA or NSG-430CB, NSG-432, NSG-432C or NSG-432CA or NSG-432CB, NSG-434, NSG-434C or NSG-434CA or NSG-434CB, and NSG-436. Co-Requisite: NSG-440C, or NSG-440CA, or NSG-440CB.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

3 credits

In this clinical course, students apply nursing principles in public and population health related to health promotion and disease prevention for diverse populations in a variety of community settings. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care for diverse populations. Clinical hours: 48. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-440.

### NSG-440CA: Population Health Clinical 1 credits

In this clinical course, students apply nursing principles in public and population health related to health promotion and disease prevention for diverse populations in a variety of community settings. Students are expected to integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care for diverse populations. Clinical hours: 56. (48 clinical experience hours and 8 immersive simulation hours). Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-440.

### NSG-440CC: PH Clinical Rotation 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-440.

### NSG-440CCA: PH Clinical Rotation 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-440.

#### NSG-440CI: PH Immersive Simulation 0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-440.

This immersive simulation provides students with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Students are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, students engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-440.

### NSG-440HN<sup>‡</sup>: Population Health

This course focuses on the role of the nurse in population-focused health, examining population-based systems, and community, individual, and family-focused population health practice. Emphasis is on addressing issues of overall health improvement, the broad determinants of health, and the elimination of health disparities among vulnerable populations. Students apply epidemiologic concepts and evidence-based research to the study of disease and develop strategies to promote health and prevent disease in diverse communities and populations with an emphasis on community-based assessment and partnership as well as broader population-focused interventions. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-440C.

### NSG-444: Transition to Practice 4 credits

This course focuses on the reinforcement of medical-surgical concepts and career readiness preparation to support students as they transition into the role of the professional registered nurse. Prerequisites: NSG-430, NSG-430C or NSG-430CB, NSG-432, NSG-432C or NSG-432CB, NSG-434, NSG-434C or NSG-434CB, and NSG-436. Co-Requisite: NSG-444C or NSG-444CB.

### NSG-444A: Transition to Practice 3 credits

This course focuses on the reinforcement of medical-surgical concepts and career readiness preparation to support students as they transition into the role of the professional registered nurse. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444CA.

# NSG-444C: Transition to Practice Group or 3 credits Residency Clinical

In this clinical course, students delegate care and integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care for multiple clients. Advanced medical-surgical nursing skills necessary for providing care are reinforced and practiced in simulated settings. Clinical hours: 120. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# NSG-444C1A: TTP Group Rotation: Medical/Surgical

 $0\ credits$ 

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444.

# NSG-444C6A: TTP Group Rotation: Complex 0 credits Care

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444.

### NSG-444C8A: TTP Residency

0 credits

This residency provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444.

# NSG-444CA: Transition to Practice Group or 4 credits Residency Clinical

In this clinical course, students delegate care and integrate the principles of cultural awareness, quality and safety, and evidence-based practice in providing holistic, client-centered care for multiple clients. Advanced medical-surgical nursing skills necessary for providing care are reinforced and practiced in simulated settings. Clinical hours: 202. (168 clinical experience hours and 34 immersive simulation hours). Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432C, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444A.

# NSG-444CD1: TTP Group Rotation: Medical/Surgical

0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

## NSG-444CD2: TTP Group Rotation: Behavioral 0 credits Health

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### NSG-444CD3: TTP Group Rotation: OB 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### NSG-444CD4: TTP Group Rotation: Pediatrics 0 credits

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# NSG-444CD5: TTP Group Rotation: Population 0 credits Health

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

# NSG-444CD6: TTP Group Rotation: Complex 0 credits Care

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

# NSG-444CD7: TTP Group Rotation: Long-Term 0 credits Care

This clinical rotation provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### NSG-444CE8: TTP Residency 0 credits

This residency provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in direct client-care settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice in various clinical environments. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### NSG-444CI: TTP Immersive Simulation 0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### **NSG-444CIA: TTP Immersive Simulation**

0 credits

This immersive simulation provides students with hands-on learning opportunities, allowing for the integration of skills and knowledge in client care across diverse social and cultural contexts within simulated environments. Students are provided the opportunity to display the competencies necessary for delivering holistic and safe client-centered care. Drawing from current nursing practice standards, students engage in immersive simulations using clinical scenarios, emphasizing clinical reasoning, critical thinking and judgment. Prerequisites: NSG-430, NSG-430C or NSG-430CA, NSG-432, NSG-432C or NSG-432CA, NSG-434, NSG-434C or NSG-434CA, and NSG-436. Co-Requisite: NSG-444.

### NSG-444CT: TTP Immersive Simulation 0 credits

This immersive simulation experience provides students with hands-on learning allowing for the integration of skills and knowledge in the care of clients from various social and cultural backgrounds in simulated settings. Students are provided the opportunity to display competencies necessary to provide holistic and safe client-centered care. Students apply knowledge, skills, and attitudes based on current standards of nursing practice. Prerequisites: NSG-430, NSG-430C, NSG-432, NSG-432C, NSG-434, NSG-434C, and NSG-436. Co-Requisite: NSG-444.

### NSG-448<sup>∆</sup>: Evidence-Based Project Capstone 3 credits

This writing-intensive capstone provides students a culminating professional experience synthesizing a clinical change project as a means of improving clinical practice and quality of care. This course assists students as they develop into effective change agents and advocates for improvements and quality care. Theories and concepts from liberal arts education, nursing practice, and PICOT principles are included as students progress through the final development and presentation of a clinical change project. Emphasis is placed on applying evidence-based practice in the clinical setting. Prerequisites: NSG-430, NSG-430C or NSG-430CA or NSG-430CB, NSG-432, NSG-432C or NSG-432CA or NSG-432CB, NSG-434, NSG-434C or NSG-434CB, and NSG-436.

### Nursing (NUR)

### NUR-324<sup>\(\Delta\)</sup>: Research and Evidence-Based 4 credits Practice

In this writing-intensive course, students are introduced to the research process and methodologies using qualitative and quantitative data. Students examine the processes required to translate and integrate evidence into nursing practice. Emphasis is on evaluation and application of scientific evidence affecting nurse-sensitive quality indicators. Students differentiate types and levels of evidence and identify appropriate sources that inform nursing practice. Strategies for implementation, methods of evaluation, and dissemination of research findings are discussed. This course also expands on informatics technology used to support data, information, and knowledge needs in the provision and delivery of nursing and health care. Prerequisites: NUR-300, NUR-300C, NUR-315, NUR-316, and NUR-318.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# NUR-502 $^{\Omega}$ : Theoretical Foundations for Nursing Roles And Practice

4 credits

This course examines nursing as a profession and a discipline and the individual nurse's role as a member of the profession. The theoretical foundations for nursing practice and roles are explored and applied. Emphasis is placed on developing scholarly writing and presentation skills. Critical thinking skills are refined as students discuss and synthesize the literature that guides nursing practice with a special emphasis on caring, diversity, and spirituality.

## NUR-504: Health Care Research Analysis and 4 credits Utilization

This course focuses on the critical analysis of nursing and health care research and its application to nursing education, nursing practice, and the delivery of health care services. Emphasis is placed on strategies to access current and relevant data, synthesize the information, and translate new knowledge to practice. Ethical issues in the design and conduct of research are addressed. Prerequisite: NUR-502.

# NUR-508: Ethics, Policy, and Finance in the 4 credits Health Care System

This course utilizes health care policy as a framework to analyze how health is defined and health care is designed and delivered in the United States and around the world. Emphasis is placed on issues of cost, quality, access, disparities, and finance. The various roles of the master's prepared nurse in the health care system are explored. Prerequisite: NUR-504.

# NUR-513<sup>\Omega</sup>: Introduction to Advanced 4 credits Registered Nursing

This course examines nursing theory and the role of ethics for advanced registered nurses within the Christian worldview and through a leadership perspective focused on improving health care outcomes. Learners explore the moral/ethical responsibilities and legal and regulatory obligations of advanced registered nurses in health promotion and disease prevention. Learners also review evidence-based practice (EBP) literature and the research process with application to their program of study and learn to navigate scholarly EBP literature, resources, and guidelines.

## NUR-513A: Foundations of Advanced Nursing 4 credits Practice

This course examines nursing theory and the role of ethics for advanced registered nurses within the Christian worldview and through a leadership perspective focused on improving health care outcomes. Learners explore the moral/ethical responsibilities and legal and regulatory obligations of advanced registered nurses in health promotion and disease prevention. Learners also review evidence-based practice (EBP) literature and the research process with application to their program of study and learn to navigate scholarly EBP literature, resources, and guidelines.

## NUR-514: Organizational Leadership and 4 credits Informatics

This course examines the role of leadership, organizational science, policy, and informatics in supporting safe, high-quality, cost-effective patient care within interprofessional, dynamic health care environments. Learners explore various organizational relationships within health care systems and prepare to participate in the design of cost-effective, innovative models of care delivery and practice change proposals. Professional leadership theories and how they shape the nurse leader in such things as collaboration, conflict resolution, decision-making, and negotiation are introduced. Learners discuss change management theories and evaluate the ethical, social, legal, economic, and political implications of practice change and health care informatics along with strategies for managing human, fiscal, and health care resources in a variety of organizational systems. Learners also examine the uses of patient-care, information systems, and communication technologies and discuss the design, implementation, and evaluation of electronic health record systems and clinical decision support systems.

# NUR-514A: Organizational Leadership and 4 credits Informatics

This course examines the role of leadership, organizational science, policy, and informatics in supporting safe, high-quality, cost-effective patient care within interprofessional, dynamic health care environments. Learners explore various organizational relationships within health care systems and prepare to participate in the design of cost-effective, innovative models of care delivery and practice change proposals. Professional leadership theories and how they shape the nurse leader in such things as collaboration, conflict resolution, decision-making, and negotiation are introduced. Learners discuss change management theories and evaluate the ethical, social, legal, economic, and political implications of practice change and health care informatics along with strategies for managing human, fiscal, and health care resources in a variety of organizational systems. Learners also examine the uses of patient-care, information systems, and communication technologies and discuss the design, implementation, and evaluation of electronic health record systems and clinical decision support systems. Prerequisite: NUR-513A.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# NUR-550: Translational Research and Population Health Management

4 credits

In this course learners examine the process of scientific inquiry, knowledge generation, utilization, and dissemination of evidence into advanced nursing practice in order to propose qualityimprovement initiatives that advance the delivery of safe, highquality care for patient populations. Learners critically evaluate evidence, including scientific findings from the biopsychosocial fields, epidemiology, biostatistics, genetics, and genomics, and apply levels of evidence and theoretical frameworks to design culturally appropriate clinical prevention interventions and population-based care that reduces risks, prevents disease, and promotes health and well-being. Learners also consider strategies to evaluate health policy and advocacy issues, the state of health care delivery, patient-centered care, and ethical principles related to health beliefs, health promotion, and risk reduction for diverse populations. Learners apply these strategies to work towards recognizing gaps in nursing and health care knowledge, identifying potential solutions or innovations for those gaps, planning and implementing practice changes, and evaluating the outcomes in order to improve practice. Prerequisites: NUR-513 and NUR-514.

# NUR-550A: Translational Research and 4 credits Population Health Management

In this course learners examine the process of scientific inquiry, knowledge generation, utilization, and dissemination of evidence into advanced nursing practice in order to propose qualityimprovement initiatives that advance the delivery of safe, highquality care for patient populations. Learners critically evaluate evidence, including scientific findings from the biopsychosocial fields, epidemiology, biostatistics, genetics, and genomics, and apply levels of evidence and theoretical frameworks to design culturally appropriate clinical prevention interventions and population-based care that reduces risks, prevents disease, and promotes health and well-being. Learners also consider strategies to evaluate health policy and advocacy issues, the state of health care delivery, patient-centered care, and ethical principles related to health beliefs, health promotion, and risk reduction for diverse populations. Learners apply these strategies to work towards recognizing gaps in nursing and health care knowledge, identifying potential solutions or innovations for those gaps, planning and implementing practice changes, and evaluating the outcomes in order to improve practice. Prerequisite: NUR-514A.

### NUR-590 $^{\Omega}$ : Evidence-Based Practice Project 4 credits

This course provides an opportunity for learners to complete their evidence-based practice (EBP) project proposal that addresses a problem, issue, or concern in their specialty area of professional practice. Learners previously identified a problem amenable to a research-based intervention, searched the literature, and proposed a solution. Now learners will explore implementation considerations and various evaluation methodologies, complete the project proposal by developing a plan to implement the solution into the intended practice area, and design an evaluation plan that will assess the EBP project proposal's intended outcome(s). Prerequisite: NUR-550.

### NUR-590A: Evidence-Based Practice Project 4 credits

This course provides an opportunity for learners to complete their evidence-based practice (EBP) project proposal that addresses a problem, issue, or concern in their specialty area of professional practice. Learners previously identified a problem amenable to a research-based intervention, searched the literature, and proposed a solution. Now learners explore implementation considerations and various evaluation methodologies, complete the project proposal by developing a plan to implement the solution into the intended practice area, and design an evaluation plan that assesses the EBP project proposal's intended outcome(s). Prerequisite: NUR-550A.

# NUR-621: Principles of Health Care Financial 4 credits Management

In this course, learners study principles of health care financial management and the role of fiscal responsibility within health care organizations. Along with an overview of operational budgets, learners delve into the key aspects of the economic drivers and financial requirements impacting organizations, including the financial demands and implications of specific health care delivery models, efficient staffing models, and the management of operational expenses. Learners examine the challenges of aligning key financial performance indicators with safety and quality measures as required in the evolving health care industry. Prerequisite: NUR-590.

# NUR-630: Performance Improvement and Quality in Health Care 4 credits

This course examines models of performance and quality improvement in health care. Learners differentiate measures of quality and learn to apply industry standard tools and process improvement methodology to enhance safety and positively impact patient outcomes and financial performance. Prerequisite: NUR-590.

# NUR-631<sup>\Omega</sup>: Advanced Physiology and 4 credits Pathophysiology

This course focuses on advanced physiology and pathophysiology principles across the life span. This course is used to guide the advanced nursing practice learner in understanding normal function and interpreting changes in normal function that result in symptoms and diagnostic markers indicative of illness. Emphasis is placed on the following systems: cellular environment and inflammatory changes; fluids, electrolytes and acid-base balance; genetics, genetic diseases, and the role of the environment; stress, disease, and the development of neoplasms; hematology and alterations in immunity. In addition, the physiology and pathophysiology of the endocrine, pulmonary, renal, digestive and integumentary, cardiovascular and lymphatic, musculoskeletal, reproductive, and neurological systems, including mood disorders, are addressed. Prerequisite: NUR-590 or NUR-590A.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# NUR-634 $^{\Omega}$ : Advanced Health Assessment and Diagnostic Reasoning With Skills Lab

This course builds upon the learner's undergraduate and clinical assessment skills, offering advanced health assessment content to provide the foundation for the advanced practice nursing role across the life span. This course addresses the completion and interpretation of a head-to-toe assessment in addition to focused assessments for chief complaints that include physical, psychosocial, spiritual, risk, and functional assessments in diverse populations and across age groups. Learners learn a systematic method of diagnostic reasoning and clinical decision-making to establish differential diagnoses. Prerequisites: NUR-631, and either NUR-632, NUR-633, or NUR-635.

### NUR-635 $^{\Omega}$ : Advanced Pharmacology 4 credits

This course focuses on the basic concepts and principles of pharmacokinetics and pharmacodynamics and their practical implication in clinical practice across the life span. This course also places an emphasis on the strong influence of physiological variables (age, ethnicity, or pregnancy) and pathological conditions (hepatic or renal insufficiency, cardiac dysfunction) on drugs' pharmacological response. An in-depth understanding of the relationship between patient's physiological/pathological variables and pharmacodynamics/pharmacokinetics can provide additional insight for practitioners in predicting potential drug interactions, and thus will provide additional guidance in prescribing strategies. This course also includes clinical pharmacokinetics and pharmacodynamics; clinical toxicology; and pathology and pharmacotherapy of cardiovascular, psychiatric, endocrine, respiratory, gastrointestinal, bone and joint, infectious, reproductive, and dermatological disorders. Prerequisite: NUR-631.

### NUR-636CA: ACNP-AG Practicum I: Skills Lab 0 credits

This skills lab provides students with the opportunity to learn, review, practice, and integrate the competencies necessary for the care of adult-gerontology populations within acute care settings. Prerequisites: NUR-631, NUR-633, and NUR-634.

### NUR-638C $^{\Omega}$ : ACNP-AG Practicum III 4 credits

This culminating, preceptored, practicum experience continues the development of knowledge, skills, and abilities in the provision of health care to complex, acute, and critically ill adult-gerontology and frail elderly patients. This course builds upon prior learning. Clinical practice affords students the opportunity to refine their clinical decision-making skills in advanced health assessment, clinical diagnosis, procedural skill acquisition, and care management of acute and chronically ill adult-gerontology patients. Clinical experiences emphasize the physiological and psychosocial impact of acute and critical illness on patients, family, and community, and prepare the adult-gerontology acute care nurse practitioner (ACNP-AG) in the diagnosis and management of chronic, exacerbated, acute, and life-threatening health problems. Clinical hours: 200. Prerequisites: NUR-637 and NUR-637C. Co-Requisite: NUR-638.

# NUR-641E: Advanced Pathophysiology and Pharmacology for Nurse Educators 4 credits

This course focuses on advanced physiology, pathophysiology, and pharmacologic principles. This course will guide the Nursing Education learner in interpreting changes in normal function that result in symptoms indicative of illness and the effects of select pharmacologic substances on that process. Evidence-based research provides the basis for determining the safe and appropriate utilization of medications and herbal therapies on human function. Appropriate education for various prescribed pharmacologic agents is incorporated. Prerequisite: NUR-590.

# NUR-643E: Advanced Health Assessment for 4 credits Nurse Educators

This course builds upon students' previous health assessment knowledge offering advanced health assessment content to provide the foundation for the advanced professional nursing role of the nurse educator. This course emphasizes knowledge of health assessment, including physical, psychosocial, and spiritual health assessment; risk assessment; and functional assessment in diverse populations in the promotion of health and prevention of disease. Topics, such as effective communication and client teaching/counseling to elicit patients' interpretation of their health status and perceived barriers, are incorporated throughout the course to maintain a nursing focus on patient responses to illness or the threat of illness. This course incorporates the completion and interpretation of a head-to-toe assessment along with emphasis on effective documentation and health recordkeeping. Prerequisite: NUR-641E.

## NUR-645E: Advanced Health Assessment for 4 credits Nurse Educators

This course builds upon the student's previous health assessment knowledge offering more advanced health assessment content to provide the foundation for the advanced-professional nursing role of the nurse educator. This course emphasizes knowledge of health assessment, including physical, psychosocial, spiritual health assessment, risk assessment, and functional assessment in diverse populations in the promotion of health and prevention of disease. To maintain a nursing focus on patient responses to health, illness, or the threat of illness the nurse must exhibit effective communication and client teaching, which is incorporated throughout the course. The importance of effective documentation and health recordkeeping is included. Prerequisite: NUR-641E.

### NUR-646E: Nursing Education Seminar I 4 credits

This course prepares learners to deliver advanced nursing knowledge within practice, professional, and academic settings. Specific emphasis is placed on effective methods to facilitate learning and fostering critical thinking skills in diverse health care settings. Learners synthesize advanced nursing knowledge of pathophysiology, pharmacology, and assessment within the integration of technology. Learners complete 50 direct patient care clinical hours in a specialty area to integrate advanced nursing knowledge and advanced assessment skills into practice. Clinical hours: 50. Prerequisite: NUR-643E.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### NUR-647E: Nursing Education Seminar I 4 credits

This course examines professional standards as a foundation for curriculum design in nursing education in all settings. It explores the nature of traditional academic education and nontraditional academic education, as well as continuing nursing education. This course also focuses on theories of teaching/learning, traditional and alternative instructional strategies, and nursing education in the classroom and clinical setting. The course incorporates the development of curriculum frameworks and learning activities for adult learners from diverse backgrounds. Strategies to enhance critical thinking are included.

### NUR-648E: Nursing Education Seminar II 4 credits

In this course, learners contribute to the development of nursing curricula, focusing on different phases of the curriculum creation and improvement processes. Learners examine methods of curriculum design, assessment of learning outcomes, and best practices for curriculum development, including aligning curriculum to professional standards, writing learning objectives, creating formative and summative assessments, and using data to improve student learning outcomes. Prerequisite: NUR-646E.

### NUR-649E: Nursing Education Seminar II 4 credits

This course incorporates technology into the educational process from the use of personal technology to institutional technology. Students have the opportunity to develop (or convert) educational programs to be delivered in an online format. Principles of curriculum development, teaching/learning theories, and implementation of evaluation strategies will be modified to the online learning environment. This course also examines professional regulatory and accreditation standards as an evaluation framework for curriculum design in nursing education in all settings. Strategies to assess learning are included from the assignment evaluation to the program evaluation based on outcomes. Prerequisite: NUR-647E.

### **NUR-665E** $^{\Omega}$ : Nursing Education Practicum 4 credits

This course culminates with two experiences for the learner: 1) 50 hours of direct clinical and 2) 100 hours of an education practicum; both must be completed with an approved nurse preceptor in the respective settings of the learner's choice. These clinical and practicum experiences afford learners the opportunity to continue the synthesis of advanced clinical nursing knowledge and skills at the start of the course and then demonstrate educational competencies in their selected areas of interest (e.g., assessment of learning needs, program/curriculum planning, implementation, and assessment/evaluation in either a traditional or nontraditional setting). This course offers opportunities for learners to begin integrating the role of the advanced nurse and the advanced educator based on the NLN competencies into their professional behaviors. Direct Care Clinical (50 hours) and Educational Practicum (100 hours) experiences totaling 150 hours. Practicum/field experience hours: 150. Prerequisite: Successful completion of all previous coursework in the program.

## NUR-674: Leadership in Health Care Systems 4 credits Practicum

This course provides learners the opportunity to integrate what they have learned in the program in a practicum experience related to nursing leadership. Learners are expected to integrate nursing knowledge and advanced critical-thinking and problemsolving skills in the development of a comprehensive project grounded in contemporary nursing leadership theory and practice. Learners develop projects based on their interests and practicum placement that can incorporate a range of leadership issues, such as quality and performance improvement, mentorship and coaching, interdisciplinary relationships and collaboration, and staff development. Practicum/field experience hours: 150. Prerequisite: Successful completion of all previous coursework in the program.

### NUR-690: Nursing Informatics Practicum 4 credits

This course provides learners the opportunity to integrate what they have learned in the program in a practicum experience related to nursing informatics. Learners are expected to integrate nursing knowledge, leadership, and advanced critical-thinking and problem-solving skills in the development of a comprehensive and professional project plan and solution that are grounded in current health care informatics research and methods. Practicum/field experience hours: 200. Prerequisite: Successful completion of all courses in the program of study.

### NUR-699 $^{\Omega}$ : Evidence-Based Practice Project 4 credits

This course provides an opportunity for students to develop an evidence-based practice project proposal that addresses a problem, issue, or concern in professional practice. Students identify a problem amenable to research-based intervention; search literature; propose a solution; and develop a plan to implement the solution, evaluate its outcome(s), and disseminate the findings. Problems identified are those that are appropriate to students' specialty tracks: nursing leadership, nursing education, nursing public health, adult clinical nurse specialist, acute care nurse practitioner, and family nurse practitioner. Prerequisite: NUR-508.

# Organizational Development (ORG)

ORG-807: Stakeholders: Roles in 3 credits
Organizations

This course examines the roles of stakeholders in a variety of organizational structures and discusses how the type of organization may affect the role of the stakeholder. Learners explore the stakeholder's role in sustaining organizational effectiveness.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# ORG-812: Organizational Theory, Structure, 3 credits and Process

This course examines organizational structure and its influence on organizational effectiveness and success. Learners evaluate organizational structure and explore methods for modifying structures. Open-systems theory is discussed. Research skills from RES-850 and ethical considerations are applied in the context of the course topics.

# ORG-817: Systems Thinking: Building 3 credits Organizations That Last

This course examines the shift from a traditional organizational structure to a learning organization. It looks at the unintended consequences of leadership decisions in the context of leading innovation.

# ORG-822: Individual Differences and 3 credits Organizational Outcomes

This course explores the use of aggregated data to study the relationship between individual differences and organizational outcomes. Role differences in decision-making teams are examined to determine how to best leverage these differences for overall organizational effectiveness.

### ORG-827: Strategic Decision Making 3 credits

The course analyzes decision-making paradigms and strategies through the lens of critical incident analysis, cross-cultural decision making, and collective leadership. Alignment of strategy, vision, and decisions is discussed.

### Occupational Therapy (OTH)

# OTH-100: Introduction to Occupational 4 credits Therapy Assistant

This course introduces concepts of occupation, practice framework, ethics, values, and the history and philosophy of occupational therapy practice. In this course, learners gain skills that are central to the practice of an occupational therapy assistant, including activity analysis, documentation, professional behaviors, and regulatory safety training. Prerequisites: PSY-102, BIO-201, BIO-201L, BIO-202, and BIO-202L.

### OTH-300<sup>f</sup>: Clinical Reasoning for 4 credits Occupational Therapy Assistant

In this course, learners learn about the different types of clinical reasoning and the steps involved in sound clinical decision-making. This course teaches learners how to analyze the clinical decision-making process and to plan and implement occupational and evidence-based treatment plans. This course enables learners to understand how to be reflective practitioners and assess the effectiveness of their intervention approaches. Prerequisites: OTH-100 and admission to the Bachelor of Science in Occupational Therapy Assistant program.

# OTH-310<sup>\(\Delta\)</sup>: Evidence-Based Practice for Occupational Therapy Assistant

In this writing-intensive course, learners are introduced to basic research concepts and develop skills for becoming an effective evidence-based practitioner in a rapidly changing society. This course focuses on developing a PICO question, understanding levels of evidence, developing effective search strategies, and evaluating evidence to provide the most effective treatment interventions to clients. Learners gain understanding on how evidence-based practice supports client-centered care and supports advocacy of diversity, equity, and inclusion. Learners examine how to be consumers of and contributors to evidence-based practice as OTA practitioners. Prerequisites: OTH-100 and admission to the Bachelor of Science in Occupational Therapy Assistant program.

4 credits

# OTH-320<sup>f</sup>: Mental Health Practice for 4 credits Occupational Therapy Assistant

This course examines concepts, theories, and models influencing occupational therapy practice for individuals, groups, and communities across the life span with psychosocial dysfunction. Mental health conditions are discussed, including signs, symptoms, risk factors, and medical management, as well as their effects on meaningful occupation and the role of the occupational therapy assistant in providing interventions. Concepts introduced include therapeutic use of self, client-centered care, advocacy, and group interventions. Learners are required to participate in a Level I on-site fieldwork experience. Practicum/field experience hours: 32. Prerequisites: OTH-100 and admission to the Bachelor of Science in Occupational Therapy Assistant program. Co-Requisite: OTH-320CE.

### OTH-320CE: On-Campus Experience I 0 cro

In this course, learners attend an on-campus experience to participate in simulations and hands-on learning related to the variety of concepts, theories, and models influencing occupational therapy practice for individuals, groups, and communities across the life span with psychosocial dysfunction. Learners provide interventions in simulation labs. Concepts introduced include therapeutic use of self, client-centered care, advocacy, and group interventions. Prerequisites: OTH-100 and admission to the Bachelor of Science in Occupational Therapy Assistant program. Co-Requisite: OTH-320.

### OTH-350: Leadership and Management for 4 credits Occupational Therapy Assistant

This course examines basic management, leadership, and professional development responsibilities of the occupational therapy assistant. Business aspects of the profession are discussed, including billing, ethics, conflict, and quality management. Additional topics include supervisory relationships, the roles and functions of regulatory agencies, ongoing professional development, and the role of the occupational therapy assistant as manager or entrepreneur. Prerequisites: OTH-320 and OTH-320CE.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# OTH-360: Geriatric Practice for Occupational 4 credits Therapy Assistant

This course examines the processes of aging within cultural, social, demographic, and economic contexts and explores the role of the occupational therapy assistant in working with the aging population. Students develop a better understanding of geriatric conditions and their impact on occupational performance and use client-centered intervention techniques to modify daily occupational tasks through environmental assessments, adaptation, and health promotion. This course provides exploration of dementia care, low vision, self-feeding, driving, home modifications, wheelchair positioning and maintenance, instrumental activities of daily living (IADL), and fall prevention. Students are required to participate in a Level I on-site fieldwork experience. Practicum/field experience hours: 32. Prerequisites: OTH-320 and OTH-320CE. Co-Requisites: OTH-370 and OTH-370CE.

# OTH-370: Physical Rehab for Occupational 4 credits Therapy Assistant

This course examines the theories and models of practice used in occupational therapy for people, groups, and populations with physical disabilities, including orthopedic, cardiac, pulmonary, and common medical conditions. Observation skills, problemsolving, critical-thinking, treatment techniques, and documentation are practiced through case studies, laboratory activities, examinations, and discussion. This course provides exploration of assistive technology, modalities, work hardening, ADA compliance, hand injuries, body mechanics, transfers, pain management, and adaptive equipment. Prerequisites: OTH-320 and OTH-320CE. Co-Requisites: OTH-360 and OTH-370CE.

### OTH-370CE: On-Campus Experience II 0 credit

In this course, learners attend an on-campus experience to participate in simulations and hands-on learning related to the variety of theories and models of practice used in occupational therapy. Learners implement evidence-based assessments and interventions focusing on adults and older adults. Learners explore concepts such as activities of daily living (ADL), instrumental activities of daily living (IADL) interventions, contraindications and precautions, orthopedic assessments and interventions, and ADA compliance. Prerequisites: OTH-320 and OTH-320CE. Co-Requisites: OTH-360 and OTH-370.

### OTH-400: Pediatric Practice for Occupational 4 credits Therapy Assistant

This course explores common pediatric conditions and their impact on occupational performance, as well as the theories and models of practice used in occupational therapy for infants, children, and adolescents. Learners apply client-centered, occupational, and evidence-based interventions for pediatric clients addressing motor, sensory, and process challenges. Learners design unique interventions specific to children and adolescents, including approaches for handwriting, eating, animal-assisted therapy, and adaptive technology to ensure equity and inclusion. Learners are required to participate in a Level I onsite fieldwork experience. Practicum/field experience hours: 32. Prerequisites: OTH-370 and OTH-370CE. Co-Requisites: OTH-410 and OTH-410CE.

# OTH-410: Neurological Rehab for 4 credits Occupational Therapy Assistant

This course examines the theories and models of practice used in occupational therapy intervention for clients with neurological disabilities, such as CVA, SCI, TBI, and neurodegenerative conditions. This course provides exploration of vision therapy, splinting, and cognitive and perceptual treatments. Learners discuss etiology, signs/symptoms, and prognoses of various neurologic conditions, and implement a plan of care under the supervision of an occupational therapist that focuses on fostering independence and participation in meaningful occupations. Prerequisites: OTH-370 and OTH-370CE. Co-Requisites: OTH-400 and OTH-410CE.

### OTH-410CE: On-Campus Experience III 0 credits

In this course, learners attend an on-campus experience to participate in simulations and hands-on learning related to the variety of theories and models of practice used in occupational therapy. Learners implement evidence-based assessments and interventions focusing on infants, children, adolescents, and patients with neurological disabilities and neurodegenerative conditions. Prerequisites: OTH-370 and OTH-370CE. Co-Requisites: OTH-400 and OTH-410.

### OTH-420<sup>f</sup>: Advanced Topics for Occupational 4 credits Therapy Assistant

This course covers concepts and skills for the competent entry-level occupational therapy assistant. Topics include advocacy, management, and regulations. Additionally, learners examine the knowledge and skills necessary to work in emerging practice areas, such as primary care and community-based programs, and learn about occupational injustice in health care systems. Prerequisites: OTH-370 and OTH-370CE.

### OTH-440: Baccalaureate Project I 4 credits

This course provides an in-depth learning experience in one or more of the following areas: clinical practice skills, administration, leadership, advocacy, and education. The course is founded on an individual or group project, which allows learners to demonstrate application of evidence-based research and knowledge gained throughout the Bachelor of Science in Occupational Therapy Assistant program. The course provides learners with the opportunity to study an area of interest in depth. In this course, learners work with an assigned faculty advisor to create specific project objectives that will be applied in the second Baccalaureate Project course. Prerequisites: OTH-370 and OTH-370CE.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# OTH-445: Baccalaureate Project II and NBCOT Exam Preparation

4 credits

This course builds upon the first Baccalaureate Project course. Learners continue to work with their assigned faculty advisor as they further study their area of interest in depth and work toward meeting the objectives of their individual or group project. The course culminates with students presenting a report of the project in which they demonstrate application of evidence-based research and knowledge gained throughout the Bachelor of Science in Occupational Therapy Assistant program. The second half of the course provides preparation for the NBCOT exam. Learners practice reading, interpreting, and answering questions like those on the COTA exam to help assess individual strengths and weaknesses. Prerequisite: OTH-440.

### OTH-490: Fieldwork Level II A and B 10 credits

In this course, learners must complete two 8-week, full-time, indepth fieldwork opportunities to carry out professional responsibilities under the supervision of qualified occupational therapy practitioners serving as role models. Learners apply occupational therapy theory, research, assessments, treatment interventions, and evidence-based practice in the clinical or community setting to address physical and psychosocial factors. Learners demonstrate and apply entry-level occupational therapy assistant skills with increasing responsibility and less direct oversight as they demonstrate greater competency. Practicum/field experience hours: 560. Prerequisites: OTH-400, OTH-410 and OTH-410CE.

# OTH-500: Introduction to Occupational 4 credits Therapy

This course provides a general introduction to the field of occupational therapy. It covers the history and philosophical base of the profession; the occupational therapy process; professional behaviors, standards, and ethics; and culturally competent care. It exposes learners to the range of knowledge and skills required to practice as an occupational therapist. Prerequisite: Admission to the Master of Science in Occupational Therapy Program.

# OTH-510: Introduction to Evidence-Based 4 credits Practice in Occupational Therapy

This course covers evidence-based practice and foundational research concepts. It provides an overview of research designs, levels of evidence, data collection, and analysis techniques. Emphasis is placed on the research process, APA formatting, scholarly reports, ethical considerations, and developing basic research skills. Prerequisite: Admission to the Master of Science in Occupational Therapy program.

# OTH-520: Functional Anatomy and 4 credits Physiology in Occupational Therapy

This course provides an in-depth study of human anatomical structures and physiology related to occupational performance. It covers the biomechanics of the musculoskeletal system, including bones, joints, nerves, and muscles. The assessment and application of muscle strength, range of motion, and analysis of movement is addressed. Learners apply concepts of kinesiology and anatomy to understand their impact on occupational engagement. Prerequisite: Admission to the Master of Science in Occupational Therapy program. Co-Requisite: OTH-520CE.

### **OTH-520CE:** On-Campus Experience I

0 credits

This on-campus experience (OCE) provides MS-OT learners with a hands-on introduction to the occupational therapy (OT) process, evidence-based practice, and functional anatomy and physiology principles. The experience focuses on the application of the OT process throughout clinical practice. The OCE provides an opportunity for learners to apply their knowledge and gain practical experience with assessments and occupation-based techniques. Prerequisite: Admission to the Master of Science in Occupational Therapy program. Co-Requisite: OTH-520.

# OTH-530: Neurological and Physiological A credits Rehab in Occupational Therapy

This course covers human neurological development across the life span. Learners examine the foundational concepts of occupational activities related to community reintegration that are impacted by neurological and physiological injuries and illness. The course covers assessment and intervention of neurological and physiological dysfunction. Prerequisites: OTH-520 and OTH-520CE.

# OTH-540: Psychosocial Practice in 4 credits Occupational Therapy

This course provides an overview of how psychosocial factors influence engagement in occupation. Learners examine mental health conditions, models of practice, and assessments and interventions used in psychosocial occupational therapy. Learners are required to participate in a Level I, on-site, psychosocial fieldwork experience of up to 40 hours. Prerequisites: OTH-520 and OTH-520CE.

### OTH-550: Occupational Analysis 4 credits

This course examines the Occupational Therapy Domain and Process Framework (OTPF-4), including analysis and breakdown of occupation. It prepares learners to apply skills in occupational analysis using evidence-based practice to enhance clinical reasoning and intervention plan implementation. Prerequisites: OTH-520 and OTH-520CE. Co-Requisite: OTH-550CE.

### OTH-550CE: On-Campus Experience II 0 credits

This on-campus experience (OCE) provides a hands-on practical experience for occupational therapy (OT) learners to gain an understanding of activity analysis, evaluation, intervention planning, documentation skills, transfer training, and group protocols related to psychosocial practice. Through this application-based learning method, learners gain a comprehensive understanding of the knowledge and skills needed to effectively work with individuals and groups in various practice settings. Prerequisites: OTH-520 and OTH-520CE. Co-Requisite: OTH-550.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# OTH-560: Ethics and Professional Issues in Occupational Therapy 3 credits

This course covers ethical decision-making models and professional behaviors expected of occupational therapy practitioners. Learners explore the American Occupational Therapy Association (AOTA) code of ethics, as well as principles, core values, and standards of conduct within the occupational therapy profession. Included in exploration of the code of ethics, the learner promotes inclusion, participation, safety, and well-being for all recipients of service. Prerequisites: OTH-550 and OTH-550CE.

# OTH-570: Management and Leadership in 4 credits Occupational Therapy

This course introduces occupational therapy learners to management and leadership principles and practices essential to the field. Learners examine leadership styles, policy development, and advocacy. Management styles are explored to advance the business aspects of practice and strategic planning for organizations and ensure effective delivery of services. Prerequisites: OTH-550 and OTH-550CE.

## OTH-580: Technology and Modalities in Occupational Therapy 3 credits

This course covers the role of technology in occupational therapy practice. Learners critically assess technology applications and gain competency in selecting and integrating technologies to support evaluation, intervention, and outcomes. A variety of modalities are explored to allow learner's understanding of preparatory activities as a benefit to occupations. Prerequisites: OTH-550 and OTH-550CE.

### OTH-590: Pediatrics Occupational Therapy 4 credits Foundations and Practice

This course provides an overview of pediatric occupational therapy. Focus is given to assessment, evaluation, interventions, and documentation in pediatric practice. Learners examine common diagnoses seen in occupational therapy and common approaches to treatment, while examining typical theories and frames of reference. This course also includes interdisciplinary and intradisciplinary team approaches. Learners are required to participate in a Level I, on-site, pediatric fieldwork experience of up to 40 hours. Prerequisites: OTH-550 and OTH-550CE. Co-Requisite: OTH-590CE.

### OTH-590CE: On-Campus Experience III 0 credits

During this on-campus experience (OCE), occupational therapy (OT) learners demonstrate competency in the execution of the comprehensive pediatric OT process. Learners also practice the application of physical agent modalities (PAMs) and select appropriate client-centered assistive technology. Learners demonstrate proficiency in the delivery of management, supervisory, and leadership principles utilizing evidence-based practice. Prerequisites: OTH-550 and OTH-550CE. Co-Requisite: OTH-590.

### OTH-600: Clinical Reasoning

In this course, learners engage in the occupational therapy process, including problem-based learning scenarios. Learners utilize evidence-based techniques and interventions to defend their clinical judgment from traditional to complex cases and exemplify higher level critical-thinking skills, while exhibiting professional behaviors and leadership. Prerequisites: OTH-590 and OTH-590CE.

4 credits

# OTH-610: Advanced Topics in Occupational 3 credits Therapy

This course provides an in-depth examination of emerging and advanced practice areas in occupational therapy. Learners critically analyze evidence-based interventions, explore occupational therapy's role in emerging settings, and examine specialty certifications. Prerequisites: OTH-590 and OTH-590CE.

# OTH-620: Application of Occupational 3 credits Therapy Practice

This course prepares learners for occupational therapy practice beyond graduation. This course helps learners prepare for the National Board for Certification in Occupational Therapy (NBCOT) exam, professional advancement, and application for state licensure. Learners complete final competency checkoffs before embarking on Level II Fieldwork. Prerequisites: OTH-590 and OTH-590CE.

# OTH-630: Adult and Geriatric Occupational 4 credits Therapy

This course covers occupational therapy assessment and intervention for adults and older adults. Learners examine common conditions and disorders impacting participation and quality of life for older adults. Typical aging and the concept of aging in place are addressed. Evidence-based evaluations, treatment planning, interventions, outcomes, and documentation are analyzed for various clinical settings and contexts. Learners are required to participate in a Level I, on-site, older adult fieldwork experience of up to 40 hours. Prerequisites: OTH-590 and OTH-590CE. Co-Requisite: OTH-630CE.

### OTH-630CE: On-Campus Experience IV 0 credits

During this on-campus experience (OCE), occupational therapy (OT) learners demonstrate competency in the execution of comprehensive adult and geriatric OT processes. Learners practice skills in functional seating, positioning, and mobility utilizing mobility aids and devices. Learners deliver an evidence-based practice project and engage in a final competency assessment in preparation of Level II Fieldwork. Prerequisites: OTH-590 and OTH-590CE. Co-Requisite: OTH-630.

### OTH-680: NBCOT Exam Prep I 3 credits

This course is designed to provide learners with the foundational knowledge required for the National Board for Certification in Occupational Therapy (NBCOT) examination. Components of the course include engaging learner experiences, mock examination questions, and effective study techniques. Prerequisites: OTH-630 and OTH-630CE.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### OTH-685: NBCOT Exam Prep II

This course is designed to provide learners with advanced foundational knowledge required for the National Board for Certification in Occupational Therapy (NBCOT) examination. Components of the course include complex clinical simulation scenarios, mock examination questions, effective study techniques, and readiness assessment tools. Included in this course is a one-day virtual workshop which includes test-taking strategies and study plan development to enhance confidence and proficiency in navigating exam content. This workshop reviews exam registration and testing center requirements to ensure readiness. Prerequisite: OTH-680.

3 credits

### OTH-690: Level II A Fieldwork 10 credits

During Level II A Fieldwork, learners spend a minimum of 12 weeks (or equivalent) in a clinical setting under the supervision of licensed and experienced occupational therapists. This experience allows learners to develop advanced assessment, intervention, and documentation skills while working with individuals across the life span. Learners engage in hands-on practice, collaborate with interdisciplinary teams, and address the unique needs and goals of clients within the chosen setting. Practicum/field experience hours: 480. Prerequisites: OTH-630 and OTH-630CE.

#### OTH-695: Level II B Fieldwork 10 credits

During Level II B Fieldwork, learners continue their clinical immersion, spending 12 weeks (or equivalent) in a different clinical or community-based setting than their Level II A Fieldwork. This experience encourages learners to broaden their perspective and adapt their skills to various practice contexts. Learners focus on refining their clinical reasoning abilities, cultural competency, and leadership skills, and may also explore emerging areas of specialization within the field of occupational therapy. Practicum/field experience hours: 480. Prerequisite: OTH-690.

# Counselor Education and Supervision (PCE)

### PCE-801: Ethics, Laws, and Multicultural 3 credits

Learners in this course explore ethics and morality with targeted focus on the relationship of ethics to morality, values, folkways, norms, cultures, worldview, and theoretical orientation. Learners also explore the differentiation of classroom and advocacy ethics from treatment ethics.

## PCE-802: Pedagogy of Counselor Education 3 credits and Models of Supervision

Beginning from a foundation of educational theory and philosophy, the course then explores philosophy, models, and strategies of supervision. Specific concepts related to technology and consultation are also addressed.

## PCE-803: Advanced Integrated Theories and 3 credits Practices

In this course, learners employ both traditional and culturally derived theories to explore how their personal worldviews affect and integrate with their theoretical orientations and the manners in which they interact with clientele and structure interventions.

### PCE-804: Leadership and Social Justice 3 credits

This course provides counselor educators with the knowledge to be effective in their roles as leaders and advocates. This course addresses the social justice concerns with which counselor educators may become involved while fulfilling the advocacy role.

### PCE-805: Pedagogy in Counselor Education 3 credits

This course discusses educational philosophies and models of adult learning as well as authoritative gatekeeping in professional counseling and counselor education programs.

### PCE-806: Clinical Supervision 3 credits

This course focuses on theoretical framework and models of clinical supervision. Learners extrapolate concepts from their personal theoretical orientations and expand their understanding of gatekeeping from a clinical supervision perspective.

### PCE-812: Behavioral Health Management 3 credits

This course proposes application of behavioral health theories to such areas as epidemiology, disease management, assessment and treatment planning, outcome management, and patient retention. Emphasis is placed on improving the quality of patient care.

# PCE-820: Behavioral Health Clinical 3 credits Supervision

This course provides a broad understanding of clinical supervision in a variety of behavioral health settings. Clinical supervisory relationships, models of supervision, supervisory assessment instruments, supervisory methods, interventions, and current research are addressed.

### PCE-822: Behavioral Health 3 credits Entrepreneurship

This course examines the business aspects of both the for-profit and nonprofit sectors of the behavioral health industry from an entrepreneurial perspective. Emphasis is placed on the characteristics of successful entrepreneurs, creation of business plans, venture capital and investment, laws and regulations governing behavioral health, and tools for measuring business success.

## PCE-827: Consultation for Behavioral Health 3 credits Professionals

This course provides an overview of collaboration, consultation models, and problem-solving strategies in various behavioral health settings. The focus is on the application of professional consultation services with diverse populations.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### PCE-830: Advanced Family Dynamics and 3 credits Systems

The course enhances learners' previous experience with counseling in the area of family dynamics and systems by exploring associated theories and considering relevant applications. Contemporary issues in this field are also addressed.

# PCE-832: Advanced Group Dynamics and 3 credits Processes

The course explores the theoretical and practical aspects of group dynamics and processes. Also considered are the related ethical concerns of group counseling.

# PCE-834: Special Topics in Counseling 3 credits Education and Supervision

In practice, those serving in the roles of counselor educators must address a wide variety of issues, including private practice, needs assessments, technology integration in the field, research, publishing, presenting at conferences, and grant proposals.

# PCE-836: Integrated Models of Assessment, 3 credits Diagnosis, and Treatment

This course will instruct future counselor educators in the principles of psychometric theory and the standards of assessment. The course will also address the teaching and supervision of the use of psychological testing instruments and their relationship in the best practice flow from assessment through treatment planning.

# PCE-905: Counselor Education and 2 credits Supervision Practicum

This doctoral counseling internship course provides opportunities for learners to engage in the supervised practical application of previously studied theory. It allows for the demonstration of their counseling/consulting skills under close supervision. The nature of the doctoral level advanced counseling internship experience is to be determined in consultation with program faculty and/or doctoral committee. Documentation of a minimum requirement of 150 hours of advanced counseling experience hours is submitted to Lopes Activity Tracker. Practicum/field experience hours: 150. Prerequisites: PCE-801 and PCE-803.

### PCE-910: Counselor Education and 3 credits Supervision Internship I

Learners are required to complete doctoral—level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete hours in a clinical setting to gain more counseling experience. The 600 credit hours will be assigned at the discretion of the doctoral committee and the student based on experience and training. Practicum/field experience hours: 300. Prerequisite: PCE-905.

# PCE-911: Counselor Education and Supervision Internship 2

3 credits

Learners are required to complete doctoral—level counseling internships that total a minimum of 600 clock hours. The 600 hours must include supervised experiences in at least three of the five doctoral core areas (counseling, teaching, supervision, research and scholarship, leadership and advocacy). If doctoral students have had limited clinical counseling experiences prior to beginning their doctoral work, they may also be required to complete hours in a clinical setting to gain more counseling experience. The 600 credit hours will be assigned at the discretion of the doctoral committee and the student based on experience and training. Practicum/field experience hours: 300. Prerequisite: PCE-910 or PCE-830.

### PCE-912: Internship Continuation I 1 credits

This course emphasizes the completion of the required internship hours. Learners continue to work directly at their approved internship site. Prerequisite: PCE-911.

### PCE-913: Internship Continuation II 1 credits

This course emphasizes the completion of the required internship hours. Learners continue to work directly at their approved internship site. Prerequisite: PCE-912.

### PCE-920: Advanced Internship I: Teaching 2 credits

Teaching Internship is intended to allow students to approximate, to the greatest extent possible, the work of counselor educators. This post-practicum experience is a temporary position with an emphasis on independent application of skills and knowledge of pedagogy in the workplace setting. Prerequisites: PCE-805 and PCE-905.

# PCE-921: Advanced Internship II: 2 credits Supervision

Supervision Internship is intended to allow students to approximate, to the greatest extent possible, the work of counselor supervisors. This post-practicum experience is a temporary position with an emphasis on independent application of skills and knowledge of supervision in the workplace setting. Prerequisites: PCE-806 and PCE-905.

### PCE-922: Advanced Internship III 2 credits

This Advanced Internship course is intended to allow students to approximate, to the greatest extent possible, the work of Counselor Educators. This advanced internship experience is a temporary position with an emphasis on independent application of skills and knowledge in the workplace setting. Prerequisites: PCE-804, PCE-834, PCE-905, PCE-920, and PCE-921.

### PCE-955: Dissertation I 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: PCE-885.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### PCE-960: Dissertation II

3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: PCE-955.

#### PCE-965: Dissertation III 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: PCE-960.

### PCE-966: Research Continuation I 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-965.

#### PCE-967: Research Continuation II 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-966.

### PCE-968: Research Continuation III 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-967.

### PCE-969: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-968.

### PCE-970: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-969.

### PCE-971: Research Continuation VI 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-970.

### PCE-972: Research Continuation VII

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-971.

### PCE-973: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-972.

### PCE-974: Research Continuation IX 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PCE-973.

### PCE-975: Dissertation Research Continuation 0 credits

This course emphasizes the finalization of the dissertation and provides learners guidance for finding the appropriate venues and approaches in publishing their research findings. This will include the final steps necessary in pulling together what might have been earlier versions of chapters 1, 2, and 3, as well as the proofing and dissertation editing strategies that are required and the steps scholars can take to make sure their results are, in fact, shared with other scholars. This includes an exploration of writing research articles, preparing to present scholarly papers, as well as other publication venues. Prerequisite: PCE-970.

### Professional Counseling (PCN)

# PCN-100: Foundations of Addiction and 4 credits Substance Use Disorders 4

This course provides foundational knowledge regarding addiction and substance use disorders. Topics studied include biopsychosocial dynamics; stages, processes, and impact of addiction and substance use; and the role of the addiction professional in prevention, intervention, relapse prevention, and aftercare. In addition, the course provides overviews of the substance abuse counselor's code of ethics, HIPAA, and legal issues involved in counseling.

# PCN-107: Introduction to Counseling 4 credits Theories

This course provides foundational knowledge in theoretical approaches to counseling. Theoretical models studied include psychodynamic, existential, Gestalt, person-centered, cognitive and behavioral therapy, family systems, and narrative- and solution-focused therapies.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# PCN-150: Psychopharmacology in Treatment 4 credits of Addiction and Substance Use Disorders 4 credits

This course provides a foundational understanding of the biological and psychological components of substance use disorders, addiction and treatment, and application to the client with co-occurring disorders. Students gain foundational knowledge in the principles of pharmacology, anatomy, and physiology as they apply to the major classes of medications. The course also focuses on current drugs used in the treatment of addiction and substance use disorders. Prerequisites: PCN-100 and PCN-107.

# PCN-153: Co-Occurring Disorders and 4 credits HIV/AIDS

This course provides foundational knowledge regarding the treatment of addiction/substance use disorders and a comorbid psychiatric disorder. Students learn about origins of, methods of transmission for, and myths regarding HIV/AIDS, and treatment issues and prevention strategies for the HIV-positive or AIDS client. Prerequisites: PCN-100 and PCN-107.

## PCN-158: Multicultural Counseling in a 4 credits Diverse Society

This course focuses on cultural sensitivity and cultural competence as they relate to the development and use of treatment plans designed for clients from diverse populations. Students learn the importance of being knowledgeable of the values and belief systems of diverse populations as well as issues of social justice when examining incidences of drug use among these groups and implementing individual treatment plans. Prerequisites: PCN-100 and PCN-107.

### PCN-162: Grp Interventions & Comm Resources for Addiction & Substance Use Disorders

This course provides foundational knowledge in the study of group dynamics, stages, and processes. Students learn the importance of screening, intervention, and leadership styles in effective group interventions. Self-help groups and community resources are explored. Prerequisites: PCN-100 and PCN-107.

# PCN-255: Case Management and Crisis Intervention Skills for Addiction and Substance Use Disorders 4 credits

This course provides foundational knowledge on stages of change, interviewing techniques, screening and assessment, report writing, record keeping, treatment planning, and case management. In addition, students develop knowledge and skill in crisis intervention in preparation for working with clients and families with addiction or substance use disorders. Prerequisites: PCN-100 and PCN-107.

# PCN-265: Relapse Prevention in the Treatment of Addiction and Substance Use Disorders

This course focuses on relapse prevention. Identifying potential triggers for relapse and developing relapse prevention plans are explored. Students are provided with strategies for connecting their clients with community resources. Prerequisites: PCN-100 and PCN-107.

### PCN-275: Family Dynamics & Comm Ed-Treatment of Addiction & Substance Use Disorders

This course focuses on understanding the family dynamics of addiction. In addition, students learn the importance of working with community and prevention programs in addressing addiction and substance use disorders on a broader level. Skill in presenting educational topics pertaining to addiction and substance use disorders are developed. Prerequisites: PCN-100 and PCN-107.

### PCN-360: Dom.Violence, Child, Elder Abuse-Fam w/Addiction & Substance Use Disorders 4 credits

This course focuses on the legal and ethical responsibilities involved when child abuse, abuse of the elderly, and domestic or family violence has been reported. Understanding the dynamics of working with cases of family violence and domestic partner abuse are explored.

### PCN-365<sup>†</sup>: Advanced Counseling Theories-Addiction & Substance Use Disorder Counselors 4 credits

This course provides advanced study in the application of cognitive and behavioral theory, rational emotive behavioral theory, family systems theory, solution-focused therapy, and postmodern theories. Newly developed research-based theories are also discussed. In addition, this course provides advanced application of motivational interviewing techniques. Prerequisites: PCN-100 and PCN-107.

### PCN-365HN<sup>f</sup>: Advanced Counseling Theories-Addiction & Substance Use Disorder Counselors

This course provides advanced study in the application of cognitive and behavioral theory, rational emotive behavioral theory, family systems theory, solution-focused therapy, and EMDR. Newly developed research-based theories are also discussed. In addition, this course provides advanced application of motivational interviewing techniques. Prerequisites: PCN-100 and PCN-107.

# PCN-370<sup>△+</sup>: Psychopathology and Advanced 4 credits Treatment Issues for Special Populations With Addiction and Substance Use Disorders

This writing-intensive course focuses on substance use disorders, diagnosis, assessment, and treatment as they apply to mental health disorders and special populations. Prerequisites: PCN-100 and PCN-107.

### PCN-370HN<sup>Δ/</sup>: Psychopath & Adv.Treatment-Spec 4 credits Pop w/Addiction&Substance Use Disorders

This writing-intensive course focuses on substance use disorders, diagnosis, assessment, and treatment as they apply to mental health disorders and special populations. Prerequisites: PCN-100 and PCN-107.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### PCN-373: Spirituality and Addiction

4 credits

This course focuses on the relationship between spirituality and the development and treatment of addictions. It also covers legal, ethical, and spiritual aspects of death, dying, and end of life issues. The course addresses grief and loss as it relates to addiction, death, and dying. Prerequisites: PCN-100 and PCN-107.

# PCN-404 $^{\Delta i}$ : Professional, Legal, and Ethical 4 credits Issues for Addiction and Substance Use Disorder Counselors

This writing intensive course provides an advanced study in the application of ethical guidelines, legal standards, HIPAA, and professional responsibilities in the treatment of addiction and substance use disorders. Topics include attitudes, skills, and behaviors of addiction and substance use disorder counselors; prevention of burnout and compassion fatigue; the importance of obtaining supervision and consultation; and licensure and certification. Prerequisites: PCN-100 and PCN-107.

### PCN-404HN\*: Prof, Legal,& Ethical Issues-Addiction &Substance Use Disorder Counselors

4 credits

This writing intensive course provides an advanced study in the application of ethical guidelines, legal standards, HIPAA, and professional responsibilities in the treatment of addiction and substance use disorders. Topics include attitudes, skills, and behaviors of addiction and substance use disorder counselors; prevention of burnout and compassion fatigue; the importance of obtaining supervision and consultation; and licensure and certification. Prerequisites: PCN-100 and PCN-107.

### PCN-475: Treatment of Addiction & 4 credits Substance Use Disorders - Children and Adolescents

This course focuses specifically on the special issues involved in treating children and adolescents struggling with addiction or substance use disorders and how that treatment compares to treatment of adults. Students demonstrate and apply assessment, diagnosis, and treatment methods, as well as understanding of risk factors, social influences, prevention strategies, intervention, treatment planning, and relapse prevention. The importance of family involvement, family education, and legal issues involved in treating children is also discussed. Prerequisites: PCN-100 and PCN-107.

### PCN-481<sup>4</sup>: Process Addictions 4 credit

This course provides advanced study in the treatment of process addictions, such as compulsive gambling, sexual addiction, work addiction, spending addiction, and eating disorders. Students learn the special issues involved in screening, assessment, prevention, treatment, and relapse prevention related to process addictions. Prerequisites: PCN-100 and PCN-107.

### PCN-481HN\*: Process Addictions 4 credits

This course provides advanced study in the treatment of process addictions, such as compulsive gambling, sexual addiction, work addiction, spending addiction, and eating disorders. Students learn the special issues involved in screening, assessment, prevention, treatment, and relapse prevention related to process addictions. Prerequisites: PCN-100 and PCN-107.

# PCN-485: Advanced Case Management for Addiction and Substance Use Disorders

4 credits

This course provides advanced study in case management. Students examine case studies on addiction and substance use disorders to develop knowledge and skill in screening, intake, assessment, treatment planning, record keeping, report writing, referral, and case management. Prerequisite: PCN-255.

# PCN-488: Trauma, Addiction, and Substance 4 credits Use Disorders

This course provides clinical knowledge of the effects of trauma on clients struggling with addiction and substance use disorders. Students develop knowledge and skill in assessing for anxiety disorders, including trauma, and learn to facilitate a critical incident stress management debriefing. Prerequisites: PCN-100 and PCN-107.

### PCN-490 $^{\Omega}$ : Practicum 4 credits

This course provides an opportunity for students to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting. The practicum/internship involves 150 contact hours performed under the supervision of a faculty member and by an on-site supervisor approved by the college or university. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's requirements. Practicum/field experience hours: 150. Prerequisites: GPA of 2.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

#### PCN-491 $^{\Omega}$ : Practicum II 4 credits

This course provides an opportunity for students to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting. The practicum/internship involves 150 contact hours performed under the supervision of a faculty member and by an on-site supervisor approved by the college or university. Practicum/field experience hours: 150. Prerequisites: PCN-490, GPA of 2.0 or better, and maintenance of student professional liability insurance in the amount of \$1 million and \$3 million.

### PCN-491A<sup>Ω</sup>: Practicum Continuation I 1 credits

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-490 or PCN-491, a GPA of 2.0 or better, and maintenance of student professional liability insurance in the amount of \$1 million and \$3 million.

### PCN-491B<sup>Ω</sup>: Practicum Continuation II 1 credits

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-491A, a GPA of 2.0 or better, and maintenance of student professional liability insurance in the amount of \$1 million and \$3 million.

### PCN-491C<sup>Ω</sup>: Practicum Continuation III 1 credits

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-491B, a GPA of 2.0 or better, and maintenance of student professional liability insurance in the amount of \$1 million and \$3 million.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **PCN-500:** Counseling Theories

3 credits

This course provides a comprehensive survey of the major counseling theories and principles. Coursework includes the following theories: psychoanalytic, Adlerian, existential psychotherapy, behavioral, cognitive behavioral, person-centered, reality therapy/choice theory, and rational emotive behavioral therapy (REBT).

# PCN-501: Introduction to Addictions and 3 credits Substance Use Disorders

This course provides a broad understanding of the stages, processes, and effects of substance use disorders, social and psychological dynamics of substance use disorders, and the professional's role in prevention, intervention, and aftercare, including recovery and relapse prevention. This course explores theories and models of treatment of substance use disorders, drug classification, and assessment. It also continues building foundational knowledge, utilization of professional resources, and exploration of standards to help students prepare for licensure/certification within the counseling industry.

# PCN-505: Professional Counseling 3 credits Orientation and Ethics

This course provides a broad understanding of counseling ethics, legal standards, and responsibilities, including professional identity, report writing, record keeping, and service reimbursement for addiction counselors. Also covered are the history of and current trends in counseling. Important goals of this course are to help students develop a strong personal and professional ethic, as well as an appreciation for the value of professional collaboration and identity.

# PCN-509: Social and Cultural Diversity Issues 3 credits in Counseling

This course provides a broad understanding of issues and trends in a multicultural and diverse society. Studies in this area include the following: attitudes and behaviors based on such factors as age, race, religious preference, physical disability, sexual orientation, ethnicity and culture, family patterns, gender, socioeconomic status and intellectual ability; individual, family, group, and community strategies for working with diverse populations; theories of multicultural counseling and identity development; and multicultural competencies. Students examine a variety of cultural populations in multiple regions of the United States, exploring issues and trends that are associated with each population. Cultural considerations for immigrants, refugees, and undocumented immigrants are also addressed.

# PCN-515: Counseling Skills in the Helping 3 credits Relationships

This course provides a broad understanding of counseling processes, including characteristics and behaviors that influence the helping processes. Included are age, gender, ethnic differences, verbal and nonverbal behaviors, personal characteristics, and orientations. The development of counseling techniques is emphasized, including establishing and maintaining the counseling relationship; diagnosing and identifying the problem; formulating a preventative, treatment, or rehabilitative plan; facilitating appropriate interventions; and successfully terminating the counseling relationship.

### PCN-518: Human Growth and Development 3 credits

This course provides an understanding of the nature, needs, and differing abilities of individuals at all developmental levels. Theories of individual and family development, transitions across the life span, theories of learning, theories of personality development, and ethical and cultural strategies for facilitating optimum development over the life span are addressed.

## PCN-520: Group Counseling Theory and 3 credits Practice

This course provides a broad understanding of group development, group dynamics, group counseling theories, and ethical standards with reference to professional and substance use disorders counseling. The course also addresses group process components, appropriate selection criteria, developmental stage theories, group members' roles and behaviors, and group leadership styles and approaches. The course includes didactic and experiential group learning. Required synchronous group experience: 12 hours.

### PCN-521: Marriage and Family Therapy 3 credits

This course provides a broad understanding of the structure and dynamics of the family, which may include assessment and methods of marital and family intervention and counseling.

### PCN-523: Tests and Appraisal in Counseling 3 credits

This course provides an introduction to basic tests and appraisal in counseling. Individual and group approaches to testing, assessment, evaluation, behavioral observations, computer-managed and computer-assisted methods are addressed. The following statistical concepts are also addressed: scales of measurement, measures of central tendency, and indices of variability, shapes and types of distributions, correlations, reliability, and validity.

# PCN-525: Career Development and 3 credits Counseling

This course provides a broad understanding of career development and related life factors including psychotherapy, career counseling techniques and processes, career development theories, decision-making models, issues of diversity, and interrelationships between work and family.

# PCN-527: Psychopharmacology and 3 credits Addictions

This course introduces students to the basic principles of psychopharmacology and the effects of psychoactive substances. Students examine the behavioral, psychological, physiological and social effects of psychoactive substance use, and learn to recognize symptoms of intoxication, withdrawal, and toxicity. The class covers various screening options, limitations, legal implications, and the utilization of pharmacotherapy as part of substance addiction treatment.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### PCN-529: Co-Occurring Disorders

3 credits

This course introduces students to co-occurring disorders. Students examine screening and assessment tools to reveal and evaluate the presence and severity of co-occurring disorders. This course also explores the treatment needs of persons with co-occurring disorders. Strategies for risk management associated with treating individuals with co-occurring disorders are presented.

# PCN-530: Human Sexuality, Aging, and 3 credits Long-Term Care

This course is divided into two distinct and separate sections. The first part of the course examines human sexuality and systems of sexual therapy. Psychological, biological, social, and moral perspectives on sexual development and functioning are also examined. The last part of the course provides an understanding of the nature of aging and the elderly. Theories and strategies for facilitating optimum care of the elderly are addressed. Older adult abuse, dependent adult abuse, and neglect of the aging and elderly are explored. Sexuality, mental health, physical health, the role of substance use disorders, and family issues are also addressed.

## PCN-531: Family Issues and Addictive 3 credits Disorders

This course examines the impact of substance use disorders in family systems. Various treatment interventions are discussed. The treatment roles and responsibilities of addicted individuals and their families are also examined.

## PCN-535: Counseling Chemical Dependency 3 credits Adolescents

This course provides an introduction to adolescent substance use disorders prevention and treatment techniques and interventions. Signs, symptoms, and patterns of adolescent substance use are examined. Students also explore adolescent screening methods and assessment tools.

### PCN-540: Research Methods 3 credits

This course introduces research methods and basic statistical analysis, including the following: importance of research, opportunities, and difficulties in conducting research. Research methods such as qualitative, quantitative, single-case designs, action research, and outcome-based research are addressed.

# PCN-545: Spousal and Child Abuse, Crisis, 3 credits and Trauma Counseling

This eight-topic course is divided into three distinct and separate sections. The first three topics examine crisis intervention and trauma counseling; Theories and strategies of trauma counseling and facilitating crisis interventions are also addressed. The second three topics examine spousal or partner abuse assessment, detection, and intervention strategies. The legal and ethical issues, the role of substance use disorders, and children in families where domestic violence and abuse occur are also addressed. The last two topics examine child abuse assessment and reporting. Legal and ethical issues and specific California child abuse assessment and reporting codes are also examined.

### PCN-605: Psychopathology and Counseling 3 credits

This course introduces the study of mental illnesses and the science of psychopathology. The goal is to provide counseling students a conceptual understanding of psychological and behavioral dysfunction that occurs in mental illnesses. The course includes a survey of major psychiatric disorders and their causes.

## PCN-610: Diagnostics, Assessment, and 3 credits Treatment

This course provides a conceptual framework for the use of assessment and diagnostic tools for the development of appropriate treatment interventions for a variety of behavioral health and substance use disorders. Included is an introduction to the use of the diagnostic tools, including the DSM, and the integration of diagnostic and assessment information, in the development of treatment plans.

### PCN- $622^{\Omega}$ : Pre-Practicum 2 credits

This is a supervised fieldwork experience under the supervision of a faculty member and an on-site clinical supervisor approved by the college or university. Documentation of a minimum requirement of 100 hours of counseling-related activities, which include 40 direct contact hours, is submitted to Lopes Activity Tracker for verification and tracking. Students may not progress to PCN-662A without the required amount of hours submitted to Lopes Activity Tracker and proper approval. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 100. Prerequisites: Completion of all didactic coursework in the program; a GPA of 3.0 or better; and maintenance of student professional liability insurance in the amount of \$1 million, \$3 million.

### PCN-622A: Pre-Practicum 2 credits

This is a supervised fieldwork experience under the supervision of a faculty member and an on-site clinical supervisor approved by the college or university. Documentation of a minimum requirement of 150 hours of counseling-related activities, which include 50 direct contact hours, is submitted electronically for verification and tracking. Students may not progress to PCN-662A without the required amount of hours submitted and proper approval. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 150. Prerequisites: Completion of all didactic coursework in the program; a GPA of 3.0 or better; and maintenance of student professional liability insurance in the amount of \$1 million, \$3 million.

### PCN-622B<sup>Ω</sup>: Pre-Practicum II 1 credits

This is a continuation of the pre-practicum or supervised field work experience under the supervision of a faculty member. Prerequisites: PCN-622; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

1 credits

This survey course introduces students to the graduate certificate programs of childhood and adolescence disorders, marriage and family therapy, addiction counseling, and trauma. An introduction to the University policies and procedures, the learning management system, the library, and proper APA formatting for academic writing is provided. In addition, students familiarize themselves with the current DSM and how the information relates to the field of counseling. Students also learn about researching and utilizing community resources and becoming certified in specializations.

### PCN-643: Counseling in Community Settings 3 credits

This course provides an overview of the theories and practices of community counseling. Various counseling settings, such as inpatient, outpatient, partial treatment, and aftercare, are examined. The course provides information about theories and techniques of community needs assessments to design, implement, and evaluate mental health care programs and systems. Students explore the manner in which community settings in their local area receive referrals as well as funding. The need for future program development is also discussed.

## PCN-644: Evaluation of Mental and 2 credits Emotional Status

Students in this course are introduced to a variety of testing instruments used to determine a client's emotional or mental status. Assessment procedures are explored within the context of diagnosis and treatment planning. This course focuses on the administration and interpretation of individual and group standardized tests of mental ability, personality, and measurement.

# PCN-645: History, Trends, and the Development of Identity in Professional Counseling

This course is divided into two distinct sections. The first section of the course examines the history of and current trends in professional counseling. The second section addresses the development of a strong personal and professional identity as a counselor. An understanding of the value of professional collaboration and membership in professional counseling associations is also provided.

### PCN-660 $E^{\Omega}$ : Practicum/Internship V 1 credits

This is a supervised internship that provides students with the opportunity to complete practicum hours not previously fulfilled in PCN-660 sections. The practicum hours are performed under the supervision of a faculty member and an onsite supervisor approved by the college or university. Prerequisites: Completion of PCN-660A, PCN-660B, PCN-660C, and PCN-660D for Professional Counseling students; completion of PCN-660A for Addiction Counseling students; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval. Prerequisites: Completion of PCN-660A, PCN-660B, PCN-660C, and PCN-660D for Professional Counseling students; completion of PCN-660A for Addiction Counseling students; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### **PCN-662A<sup>Ω</sup>:** Practicum/ Internship I

Students use this supervised practicum/internship experience to develop their counseling skills and to perform all the activities that a regularly employed addiction counselor would be expected to perform in a supervised setting. The practicum/internship is performed under the supervision of an on-site clinical supervisor approved by the Office of Field Experience (OFE). Documentation of 150 hours of counseling-related activities, which include 50 direct contact hours, is submitted electronically for verification and tracking. Addiction Counseling students will need to complete 300 hours total, 150 total hours per course. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 150. Prerequisites: PCN-622A; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### PCN-662B $^{\Omega}$ : Practicum/Internship II 2 credits

Students use this supervised practicum/internship experience to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting. The practicum/internship is performed under the supervision of an onsite clinical supervisor approved by the Office of Field Experience (OFE). Documentation of 150 hours of counselingrelated activities, which include 50 direct contact hours, is submitted directly Lopes Activity Tracker for verification and tracking. Addiction Counseling students will need to complete 300 hours total, 150 total hours per course. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 150. Prerequisites: PCN-622A and PCN-662A; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### PCN-662C<sup>Ω</sup>: Practicum/Internship III 2 credits

Students use this supervised practicum/internship experience to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting. The practicum/internship is performed under the supervision of a faculty member and an on-site clinical supervisor approved by the college or university. Documentation of 150 hours of counseling-related activities, which include 50 direct contact hours, is submitted directly to the college's office of field experience for verification and tracking. Practicum hours: Addiction Counseling students, 150 total hours; Professional Counseling students, 600 total hours. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 150. Prerequisites: PCN-622; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **PCN-662D**<sup>Ω</sup>: Practicum/Internship IV

2 credits

Students use this supervised practicum/internship experience to develop their counseling skills and to perform all the activities that a regularly employed professional counselor would be expected to perform in a supervised setting. The practicum/internship is performed under the supervision of a faculty member and an on-site clinical supervisor approved by the college or university. Documentation of 150 hours of counseling-related activities, which include 50 direct contact hours, is submitted directly to the college's office of field experience for verification and tracking. Practicum hours: Addiction Counseling students, 150 total hours; Professional Counseling students, 600 total hours. State licensure requirements may mandate additional hours. Students must review and adhere to their state board's additional requirements. Practicum/field experience hours: 150. Prerequisites: PCN-622; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### **PCN-662E<sup>Ω</sup>: Practicum/Internship V**

This is a continuation of the counseling Practicum/Internship. A minimum of 45 practicum/internship hours are required. Practicum/field experience hours: 45. Prerequisites: PCN-662A for Addiction Counseling students; PCN-662D for Professional Counseling students; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

#### PCN-662F<sup>Ω</sup>: Practicum/Internship VI 1 credits

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-662E; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

### PCN-662G<sup>Ω</sup>: Practicum/Internship VII

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-662F; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

#### **PCN-662H<sup>Ω</sup>:** Practicum/Internship VIII 1 credits

This is a continuation of the counseling Practicum/Internship. Prerequisites: PCN-662G; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

#### PCN-670: **Development through Childhood** 3 credits and Adolescence

This course provides a broad understanding of the theories related to child and adolescent development. Also covered are the variables that directly impact children and adolescents throughout their personal development. Students gain knowledge and understanding of childhood and adolescent disorders.

#### PCN-671: Psychopathology and Treatment of 3 credits **Children and Adolescents**

This course provides students with an in-depth understanding of common disorders among children and adolescents, as defined in the DSM. Studies in this area include the following: disruptive, impulse control and conduct disorders, ADHD, autism spectrum disorders, separation anxiety and selective mutism, trauma and stressor related disorders, PTSD, and adjustment disorders. Students also gain the knowledge and skills needed for treating these disorders.

#### PCN-672: Childhood and Adolescent Trauma 3 credits

This course provides a broad understanding of trauma related issues during childhood and adolescence. Students examine the various types of trauma, including neglect; physical, mental, emotional, and sexual abuse; family trauma; parental substance use; and domestic violence. Students learn assessment and treatment approaches designed for trauma occurring during childhood and adolescence.

### **Developmental Disabilities**

This course provides students with an in-depth understanding of the developmental disabilities occurring in children and adolescents, as defined in the DSM. Students examine the following disorders and disabilities: specific language and learning disorders, intellectual disabilities, autism spectrum disorders, attention deficit hyperactivity disorder, sensory processing, and physiological developmental disorders, while learning assessments and measurements used in diagnosing. Students receive an overview of the neurological and cultural perspectives of developmental disabilities, and the unique needs of the families.

#### PCN-680: Theoretical Foundations of Trauma 3 credits Assessment, Diagnosis, and **Treatment**

This course teaches students the basics of diagnosing and treating post-traumatic stress disorder, acute stress disorder, and other anxiety cluster disorders. This course also provides a historical context for treatment of trauma-related disorders as well as current best practices in the treatment of trauma.

#### PCN-681: **Community and Global Disaster** 3 credits Response

This course investigates community and global crisis. This course also reviews best practices of working with communities in crisis.

#### PCN-682: Relational Trauma: History and 3 credits **Treatment Issues**

This course helps students develop a comprehensive understanding of interpersonal violence. Students analyze the contributing factors of interpersonal violence, treatment implications, and best practices within the context of the helping professions.

#### PCN-683: **Working with Developmental** 3 credits Trauma

This course outlines the short-term and longitudinal impacts of childhood trauma. This course pays special attention to the effects of trauma on attachment in the child and the family.

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<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### Physical Education (PED)

### PED-103: Varsity Athletics-Fall/Winter 1 credits

For athletes who compete on varsity intercollegiate athletic teams at Grand Canyon University. Each athlete may receive credit for this course once only.

### PED-104: Varsity Athletics-Spring 1 credits

For athletes who compete on varsity intercollegiate athletic teams at Grand Canyon University. Each athlete may receive credit for this course once only.

# PED-200\*: Lifetime Personal Wellness and 4 credits Teaching of Fitness

This is an introductory course in exercise and wellness. Emphasis is placed on the acquisition of knowledge regarding what fitness entails, self-evaluation of each student's present fitness needs, and development of personalized fitness programs. A special emphasis is placed on a review of nutritional principles and producing a personalized nutrition plan. Students also receive instruction and practice opportunities in the theoretical and practical aspects of flexibility, stretching, and weight training activities. This includes lesson planning, teaching techniques, evaluation, and proficiency in skills by means of lecture, demonstration, and participation.

## PED-247<sup>\(\Delta\)</sup>: Teaching Strategy in Physical 4 credits Education and Exercise Science

This writing intensive course is designed to prepare future physical education teachers, fitness instructors, and recreational leaders in the skills necessary to teach physical education activities to groups. Included is the development of lesson plans and course goals/performance objectives that can be applied to the teaching of any skill or activity. Becoming aware of the place of physical education and exercise science globally and perspectives on human diversity in all areas of sport and physical activity is included.

# PED-251: Teaching of Team Sports and 4 credits Individual Activities I

This course is intended to provide students with the general technical and physical skills required to teach selected sports and activities. Students learn how to plan and organize teaching activities for flag football, soccer, pickleball, golf, folk and square dancing, and rhythmic movements and tumbling. Students also learn how to conduct classes while ensuring participants' health and safety, and work with a variety of age and skill levels. Prerequisite: PED-247.

## PED-263: Teaching of Team Sports and 4 credits Individual Activities II

This course is intended to provide the student with the general technical and physical skill required to teach selected sports. Students learn how to plan and organize the team sports of basketball, softball, and volleyball, and the individual/dual activities of tennis, golf, and badminton for educational settings. Students work with a variety of age and skill levels and conduct classes while ensuring participants' health and safety. Prerequisite: PED-247.

### PED-275: Teaching Fitness and Wellness 4 credits

This is an introductory course in teaching of fitness and wellness. This course provides a series of modules that encompass all of the important aspects of overall fitness and wellness by means of lecture, demonstration, and participation. Key components throughout involve instruction and application of the needs of the human body, nutritional principles and producing a personalized nutrition plan. A special emphasis is placed on instruction and practice opportunities in the theoretical and practical aspects of flexibility, aerobics, and weight training activities. Also included are assignments to create and implement lesson planning, teaching techniques, evaluation, and proficiency in fitness skills. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-247.

# PED-325: Coaching Baseball: Theory and 4 credits Practice

This course is intended to introduce the profession of coaching baseball and to explore the issues of qualifications; player and coach development; coaching styles, philosophies, and objectives; motivation, team dynamics, and leadership; and sportspersonship. Special areas of emphasis include the fundamental skills and strategies of baseball, the application of sport-teaching fundamentals to skill and strategy presentation, conditioning, organizing practices and games, and player evaluation. The course also includes field experience—both on and off site—to integrate theory and skills with professional practice.

### PED-326: Coaching Basketball: Theory and 4 credits Practice

This course is intended to introduce the profession of coaching basketball and to explore the issues of qualifications; player and coach development; coaching styles, philosophies, and objectives; motivation, team dynamics, and leadership; and sportspersonship. Special areas of emphasis include the fundamental skills and strategies of basketball, the application of sport-teaching fundamentals to skill and strategy presentation, conditioning, organizing practices and games, and player evaluation. The course also includes field experience—both on and off site—to integrate theory and skills with professional practice.

### PED-327: Coaching Volleyball: Theory and 4 credits

This course is intended to introduce the profession of coaching volleyball and to explore the issues of qualifications; player and coach development; coaching styles, philosophies, and objectives; motivation, team dynamics, and leadership; and sportspersonship. Special areas of emphasis include the fundamental skills and strategies of volleyball, the application of sport-teaching fundamentals to skill and strategy presentation, conditioning, organizing practices and games, and player evaluation. The course also includes field experience—both on and off site—to integrate theory and skills with professional practice.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course is intended to introduce the profession of coaching softball and to explore the issues of qualifications; player and coach development; coaching styles, philosophies, and objectives; motivation, team dynamics, and leadership; and sportspersonship. Special areas of emphasis include the fundamental skills and strategies of softball, the application of sport-teaching fundamentals to skill and strategy presentation, conditioning, organizing practices and games, and player evaluation. The course also includes field experience—both on and off site—to integrate theory and skills with professional practice.

# PED-329: Coaching Soccer: Theory and 4 credits Practice

This course is intended to introduce the profession of coaching soccer and to explore the issues of qualifications; player and coach development; coaching styles, philosophies, and objectives; motivation, team dynamics, and leadership; and sportspersonship. Special areas of emphasis include the fundamental skills and strategies of soccer, the application of sport-teaching fundamentals to skill and strategy presentation, conditioning, organizing practices and games, and player evaluation. The course also includes field experience—both on and off site—to integrate theory and skills with professional practice.

# PED-337\*: Theory, Philosophy, and Principles 4 credits of Coaching

This course focuses on the basic theory and principles of how to coach sports. Special topics include the relationship of cognitive strategy, personality, and motivation to athletic success; the balance between competition and cooperation, positive and negative feedback, and anxiety, stress, and arousal; communication, goal-setting, and leadership skills of the coaching profession; participation of the child in sport; the Christian approach to coaching; and the psychology of sport.

## PED-370: Physical Education for Students 4 credits with Disabilities

This course is designed to present the student with the necessary information to develop a plan for identifying, evaluating, and implementing program planning for all children with disabilities. Special topics include implications of legislation that affects children with special needs, due process and the IEP, guidelines for inclusiveness and modification of activities for inclusion, characteristics of normal and abnormal motor functioning and development and behavior management techniques. The types of special populations and their specific needs are presented, and methods and techniques are developed for teaching the exceptional child in motor activities. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-247.

# PED-420: Physical Education Teacher 4 credits Education Methods: Elementary Grades

This course prepares students for teaching physical education to elementary grade students. The course begins with a rationale for the necessity of physical education in the schools. This is followed by a detailed overview of how to instruct elementary school children in the psychomotor domain. Methods of program implementation are then examined, including curriculum, instructional effectiveness, content area literacy, management and discipline, and assessment and evaluation. These concepts are then applied in field experiences for teaching of the objectives of physical education in the school situation and for application to learner analysis to meet the individual needs of the child. Experiential teaching and peer review are included in the course. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-247.

# PED-430: Physical Education Teacher 4 credits Education Methods: Middle Grades

This course prepares students for teaching physical education to middle grade students. Concepts introduced in PED-420 will be further developed and applied to the middle grade student to enhance personal health skills, general and specialized motor skills, sports and fitness skills, and lifetime activities. Topical areas include content area literacy, curriculum, assessment, data driven instruction, teaching strategies and methods, classroom engagement and management, and learner analysis for K-12 physical education teachers. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-275.

# PED-440: Physical Education Teacher 4 credits Education Methods: Secondary Grades

This course prepares students who desire to teach at the secondary school level. Topical areas include how students are assessed and classified, curriculum and instructional organization of classes and selection of appropriate methods, strategies, and materials. The course also examines teaching styles, techniques of effective student engagement, and implementing instructional activities that meet NASPE standards. Special topics involve use of technology in physical activity, content area literacy, data driven instruction and physical learner analysis of secondary school students. Students are encouraged to develop strategies for promoting an active lifestyle, lifetime activity, inclusiveness, responsibility, cooperation, and diversity. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-275.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### PED-450HN<sup>f</sup>: Methods of Teaching and Assessing 4 credits Health

This course is a study of the methods and procedures of teaching health. Resources, aids, and agencies are studied and methods for implementing group processing skills and conducting values based education are reviewed and practiced. Also included are assignments to create and implement lesson planning, teaching techniques, and assessment for the topics of mental health, substance abuse, sexuality and family living, environmental health, nutrition, aging spirituality and death, and personal health. Health assessment topics include an overview of statistical tools, tests and measurements in health and physical education, producing valid and reliable tests, data analysis techniques for test evaluation, test construction assessment, and interpretation of test results. Practice teaching assignments and presentations are included. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: PED-247, PED-275, EXS-340, EXS-340L.

# PED-480A $^{\Omega}$ : Physical Education Student Teaching I

6 credits

The student teaching experience includes practical/clinical classroom experiences in a school setting with elementary students, grades K-6. Teacher candidates are required to fulfill a full-time 8-week internship experience in a classroom with a certified, experienced teacher. All aspects of instruction are addressed, including effective presentation of movement, sports and fitness skills, strategies and assessments of student learning, student engagement and classroom management, integration of technology and content area literacy, curriculum and learner analysis for elementary physical education teachers. The internship includes the opportunity to utilize applicable content standards for elementary students, including Arizona Professional Teacher's Standards, and Physical Education Teacher Education Standards of the national association Shape America, and to integrate these within the classroom. Practicum/field experience hours: None. Fingerprint clearance required. Prerequisites: Successful completion of all courses in POS and content area; senior status; a 2.8 GPA; successful completion of state mandated basic skills and content area exams or Praxis I® (Basic Skills) and Praxis II® (Content Area); and approval and placement by Office of Field Experience. Arizona residents will be required to take the Arizona Educator Proficiency Assessment (AEPA) or the National Evaluation Series (NES). All paperwork for student teaching must be submitted by the due date the semester prior to student teaching.

### PED-480B<sup>\Omega</sup>: Physical Education Student 6 credits Teaching II

The student teaching experience includes practical/clinical classroom experiences in a school setting with secondary students, grades 7-12. Teacher candidates are required to fulfill a full-time 8-week internship experience in a classroom with a certified, experienced teacher. All aspects of instruction are addressed, including effective presentation of movement, sports and fitness skills, strategies and assessments of student learning, student engagement and classroom management, integration of technology and content area literacy, curriculum, and learner analysis for secondary physical education teachers. The internship includes the opportunity to utilize applicable content standards for secondary students, including Arizona Professional Teacher's Standards, and Physical Education Teacher Education Standards of the national association Shape America, and to integrate these within the classroom. Practicum/field experience hours: None. Fingerprint clearance required. Prerequisites: Successful completion of PED 480A, approval and placement by Office of Field Experience.

### Philosophy (PHI)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# PHI-103\*: Introduction to Philosophy and 4 credits Ethics

This course is an introduction to the discipline of philosophy through a study of representative philosophical problems. Students are introduced to analytic tools that enable them to practice critical thinking, evaluate knowledge claims, and establish a rationale and justification for other academic disciplines. Topics to be considered include logic, epistemology, metaphysics, and ethics.

# PHI-105\*: 21st Century Skills: Critical 4 credits Thinking and Problem Solving

This course gives students an introduction to skills of critical thinking and decision making. It provides students opportunities to evaluate the influence and value of these skills in their personal, academic, and professional lives. Emphasis is placed on perception, emotion, fallacious reasoning, and communication.

### PHI-301\*: Knowledge and Reality 4 credits

This is an advanced study of the nature of knowledge and our knowledge of self and world. It investigates sources and theories of knowledge and rational belief, the role of intellectual virtues in knowledge. Attention will also be given to topics such as the nature of human persons, whether persons have free will, whether there is life after death, and the meaning of life. Prerequisite: PHI-103.

### PHI-307\*: Applied Ethics 4 credits

This course examines difficult moral questions related to challenging bio-ethical and social issues in order to identify the morally correct course of action in various areas of human life. Prerequisite: PHI-103.

### PHI-403<sup>♦</sup>: Philosophy of Religion 4 credits

This course investigates fundamental issues related to religion and religious experience from a philosophical perspective. Attention will be given to arguments for the existence and nature of God, the problem of evil, faith and reason, and the coherence of theism. Prerequisite: PHI-301.

# PHI-413V\*: Ethical and Spiritual Decision 3 credits Making in Health Care

This course introduces a Christian foundation for spiritual assessment and care with specific emphasis on biomedical ethical principles and ethical decision-making within health care. Students practice assessment and propose holistic interventions that take into account the dignity of the human person. These assessments and interventions contribute to the physical and spiritual well-being of individuals across the life span and the health-illness continuum.

#### PHI-610: Christian Apologetics 4 credits

This course examines the rational and existentially compelling defense of the Christian faith within various contexts. Emphasis is placed on apologetic methodology, sound tools of persuasion, the philosophical foundations of key Christian doctrines, and responding to significant objections to Christianity with humility and respect.

### Public Health Nursing (PHN)

# PHN-600: Foundations of Public Health 4 credits Nursing

This course examines the evolving landscape of public health nursing, including the various roles and settings for public health nursing practice. Learners learn about the influence of social, behavioral, and cultural factors on health. Learners appraise theoretical frameworks useful for understanding and improving quality and community and population health while considering influential developments in the field and the regulatory, legal, and ethical guidelines that inform practice. Prerequisite: NUR-590.

### PHN-652: Population-Based Interventions 4 credits

In this course, learners closely examine concepts of population health in order to design health promotion and disease prevention interventions for diverse populations. Beginning with the selection of appropriate models for evidence-based interventions, learners assess a population and propose the most appropriate intervention based on available evidence. Learners also consider the financial, regulatory, legal, and ethical aspects of population-based interventions and methods for evaluating outcomes. Prerequisite: NUR-590.

### PHN-690: Public Health Nursing Practicum 4 credits

This course provides learners with the opportunity to apply public health nursing knowledge and skills in various public health settings. Learners formulate public health assessments and interventions for improving quality health outcomes for populations in their selected setting while enhancing their leadership and collaboration skills with professionals in the field. Practicum/field experience hours: 150. Prerequisites: Successful completion of all courses in the program of study and clearance from the Office of Field Experience.

### Physics (PHY)

### PHY-102\*: Introduction to Physical Science 4 credits

This course introduces students to the scientific method. Students are expected to classify objects and materials based on physical and chemical properties, as well as develop an understanding of chemical reactions and flow of energy in a system.

#### PHY-102XV: Introduction to Physical Science 4 credits

This course introduces students to the scientific method. Students are expected to classify objects and materials based on physical and chemical properties, as well as develop an understanding of chemical reactions and flow of energy in a system.

### PHY-104<sup>♦</sup>: Earth and Space Science 4 credits

This course is designed to develop students' skills in the scientific method, develop the understanding of the properties of Earth and its materials, and appreciate Earth in relationship to other objects in space. Concepts include geological and atmospheric phenomena.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### PHY-105: Fundamental Physics

3 credits

Fundamental Physics focuses on the intersection of physics and biology focusing on physics as it relates to life, from the molecules to living organisms. Students will explore the ways in which fundamental laws of physics which direct biological organization at every level by limiting cellular processes. The ultimate focus will be on basic models that enable students to quantify the innate randomness and variability of cellular processes. Prerequisite: MAT-154 or higher. Co-Requisite: PHY-1051.

### PHY-105L: Fundamental Physics Lab 1 credits

The laboratory section of Fundamental Physics reinforces and expands learning of principles introduced in the lecture course. Prerequisite: MAT-154 or higher. Co-Requisite: PHY-105.

#### PHY-111<sup>♦</sup>: General Physics I-Lecture 3 credits

This course is a study of basic concepts of physics, including motion; forces; energy; the properties of solids, liquids, and gases; and heat and thermodynamics. The mathematics used includes algebra, trigonometry, and vector analysis. A primary course goal is to build a functional knowledge that allows students to more fully understand the physical world and to apply that understanding to other areas of the natural and mathematical sciences. Conceptual, visual, graphical, and mathematical models of physical phenomena are stressed. Students build critical thinking skills by engaging in individual and group problemsolving sessions. Prerequisite: MAT-154 or higher. Co-Requisite: PHY-111L.

### PHY-111L<sup>♦</sup>: General Physics I - Lab 1 credits

This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-111 lecture course. Learners are able to perform the proper analysis and calculations to arrive at the correct quantifiable result when confronted with equations involving gravity, sound, energy, and motion. Prerequisite: MAT-154 or higher. Co-Requisite: PHY-111.

### PHY-112♦: General Physics II-Lecture 3 credits

This course is the second in a one-year introductory physics sequence. In this course, the basics of three areas in physics are covered, including electricity and magnetism, optics, and modern physics. Course topics include an introduction to electric and magnetic fields, the nature of light as an electromagnetic wave, geometric optics, quantum mechanics, and nuclear reactions. Prerequisites: PHY-111 and PHY-111L. Co-Requisite: PHY-112L.

### PHY-112L<sup>♦</sup>: General Physics II - Lab 1 credits

This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-112 lecture course. Some of the topics learners understand and analyze involve the relationship between electric charges and insulators/conductors, magnetism in physics, energy transformations in electric circuits, the relationship between magnetism and electricity, and how they relate to the medical industry. Prerequisites: PHY-111 and PHY-111L. Co-Requisite: PHY-112.

### PHY-121\*: University Physics I

3 credits

This course is a calculus-based study of basic concepts of physics, including motion; forces; energy; the properties of solids, liquids, and gases; and heat and thermodynamics. The mathematics used includes algebra, trigonometry, and vector analysis. A primary course goal is to build a functional knowledge that allows students to more fully understand the physical world and to apply that understanding to other areas of the natural and mathematical sciences. Conceptual, visual, graphical, and mathematical models of physical phenomena are stressed. Students build critical thinking skills by engaging in individual and group problem-solving sessions. Prerequisite: MAT-262 or higher. Co-Requisite: PHY-121L.

### PHY-121L♦: University Physics I Lab 1 credits

This calculus-based course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-121 lecture course. Students are able to perform the proper analysis and calculations to arrive at the correct quantifiable result when confronted with equations involving gravity, sound, energy, and motion. Prerequisite: MAT-262 or higher. Co-Requisite: PHY-121.

### PHY-122<sup>/♦</sup>: University Physics II 3 credits

This calculus-based course is the second in a 1-year introductory physics sequence. In this course, the basics of three areas in physics are covered, including electricity and magnetism, optics, and modern physics. The sequence of topics includes an introduction to electric and magnetic fields. This is followed by the nature of light as an electromagnetic wave and topics associated with geometric optics. The final topic discussed in the course is quantum mechanics. Prerequisites: PHY-121 and PHY-121L. Co-Requisite: PHY-122L.

## PHY- University Physics II 3 credits 122HN/+:

This calculus-based course is the second in a 1-year introductory physics sequence. In this course, the basics of three areas in physics are covered, including electricity and magnetism, optics, and modern physics. The sequence of topics includes an introduction to electric and magnetic fields. This is followed by the nature of light as an electromagnetic wave and topics associated with geometric optics. The final topic discussed in the course is quantum mechanics. Prerequisites: PHY-121 and PHY-121L. Co-Requisite: PHY-122L.

### PHY-122L<sup>/♦</sup>: University Physics II Lab 1 credits

This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-122 lecture course. Some of the topics students understand and analyze involve the relationship between electric charges and insulators/conductors, magnetism in physics, energy transformations in electric circuits, the relationship between magnetism and electricity, and how they relate to the medical industry. Prerequisites: PHY-121 and PHY-121L. Co-Requisite: PHY-122.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# PHY- University Physics II Lab 1 credits 122LHN<sup>/♠</sup>:

This course utilizes lab experimentation to practice concepts of physical principles introduced in the PHY-122 lecture course. Some of the topics students understand and analyze involve the relationship between electric charges and insulators/conductors, magnetism in physics, energy transformations in electric circuits, the relationship between magnetism and electricity, and how they relate to the medical industry. Prerequisites: PHY-121 and PHY-121L. Co-Requisite: PHY-122.

### Psychiatric Mental Health (PMH)

### PMH-630: Foundations of Psychiatric Mental 4 credits Health - On-Campus Experience I

This course covers evidence-based practice, research and the theoretical basis of care related to mental health disorders and mental health promotion across the life span. Emphasis is placed on development of the psychiatric mental health advanced practice role in patient-centered care to enhance the effectiveness of patient education, counseling, mental health care and recovery, mental health advocacy, and health promotion. Learners explore foundational concepts relevant to the scope of practice and role of the advanced psychiatric mental health nurse practitioner, neuroscience, advanced psychopharmacology, psychoeducation, psychotherapeutic principles and theories, cultural and spiritual competence and diversity, equity, and inclusion (DEI). Learners examine professional and patient community resources and evaluate the use of integrative strategies in assisting patients to achieve health goals using evidence-based research and guidelines. This course includes a required 3-day on-campus immersion experience to provide advanced practice skills and lectures. Prerequisite: NUR-634.

#### PMH-630CE: On-Campus Experience I 0 credits

This course consists of a 2-day on-campus experience, and a 1-day live virtual webinar. Learners participate in lectures and simulation experiences related to the psychiatric mental health advanced practice role in patient-centered care to enhance the effectiveness of patient education, counseling, mental health care and recovery, mental health advocacy, and health promotion. Topics emphasized in this course are psychopharmacology, psychotherapy, and clinical psychiatric interview. Prerequisite: NUR-634.

# PMH-652: Intro to Psychiatric Mental Health 7 credits Assessment and Diagnostic Reasoning

This combined didactic and clinical course focuses on evidenced-based practice related to various mental health disorders across the life span. Students will build upon concepts including neuroscience, advanced psychopharmacology, and psychotherapeutic principles of mental health disorders to provide safe and effective care. Emphasis is placed on critical thinking, mental health assessment and diagnostic reasoning to guide clinical decision-making that incorporates cultural and spiritual competence and diversity, equity, and inclusion (DEI). Clinical practice affords learners the opportunity to develop their clinical decision-making skills in assessment, clinical diagnosis, and management of individuals with mental illness, including interprofessional collaboration with other health professionals and community agencies. Clinical hours: 250. Prerequisite: PMH-630.

### PMH-654: Integrative Management: 7 credits Psychiatric Assessment, Diagnosis and Treatment

This combined didactic and clinical course focuses on the integrative management of evidenced-based practice related to various mental health disorders across the life span. Concepts include reinforcement of neuroscience, advanced psychopharmacology, and psychotherapeutic principles of mental health disorders to provide safe and effective care. Emphasis is placed on strengthening critical thinking, mental health assessment, and diagnostic reasoning to guide clinical decision-making and evidence-based treatment plans that incorporate cultural and spiritual competence and diversity, equity, and inclusion (DEI). Clinical practice affords learners the opportunity to strengthen their clinical decision-making skills in assessment, clinical diagnosis, and integrative management of individuals with mental illness, including interprofessional collaboration with other health professionals and community agencies. Clinical hours: 250. Prerequisite: PMH-652.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## PMH-656: Advanced Management of 7 credits Psychiatric Disorders - On-Campus Experience II

This final combined didactic and clinical course focuses on advanced integrative management of evidenced-based practice related to various mental health disorders across the life span. Syntheses of previous concepts, including neuroscience, advanced psychopharmacology, and psychotherapeutic modalities of mental health disorders, are applied to provide safe and effective care. Emphasis is placed on application of critical thinking, mental health assessment, and diagnostic reasoning to guide clinical decision-making and evidence-based treatment plans that incorporate cultural and spiritual competence and diversity, equity, and inclusion (DEI). Clinical practice affords learners the opportunity to apply their clinical decision-making skills in assessment, clinical diagnosis, and advanced integrative management of individuals with mental illness, including interprofessional collaboration with other health professionals and community agencies. Transition-to-practice topics include contract negotiation, prescriptive authority, licensure, certification, and credentialing. Updates on current legislation, health policy and ethical issues that arise in clinical practice are incorporated. This course includes a required 2-day, on-campus immersion experience to provide advanced practice skills and lectures. Clinical hours: None. 250. Prerequisite: PMH-654. Co-Requisite: PMH-656CE.

## PMH-656CE: On-Campus Experience II 0 credits

In this two day on-campus experience course, learners participate in lectures and advanced simulation experiences related to integrative management of evidenced-based practice related to various mental health disorders across the life span. Emphasis is placed on the application of critical thinking, mental health assessment, and diagnostic reasoning to guide clinical decision-making and evidence-based treatment plans. Clinical hours: 250. Prerequisite: PMH-654.

# Political Science (POS)

# POS-252♦: Federal Government

2 credits

A survey of American government. Meets the teacher certification requirement for American Government.

## POS-301\*: Arizona and Federal Government 2 credits

This course is a survey of Arizona history and government, as well as American government. It meets the teacher certification requirement for Arizona government and American government.

### POS-305: Nevada and US Constitution 4 credits

This course is a survey of Nevada Constitution, history, and government as well as U.S. Constitution and government.

# POS-500: U.S. and Arizona Constitutions for 3 credits Teacher Candidates

Candidates examine the United States Constitution, and the constitution of the State of Arizona. From this foundational review, candidates will explore application of the United States Constitution and the constitution of the State of Arizona in educational contexts. Practicum/field experience hours: 3. Fingerprint clearance not required.

# POS-501: U.S. and Arizona Constitutions for 3 credits Teacher Candidates

Candidates examine the United States Constitution, and the constitution of the State of Arizona. From this foundational review, candidates will explore application of the United States Constitution and the constitution of the State of Arizona in educational contexts.

# Professional Writing (PRW)

# PRW-100\*: Introduction to Professional 4 credits Writing

This course introduces students to multiple professional writing disciplines. Students gain experience in writing for typical professional writing genres and gain working knowledge of professional writing styles. This course provides students with practical, procedural knowledge that helps them write in multiple contexts to appropriate audiences. Prerequisite: ENG-105.

## PRW-301<sup>\*</sup>: Reporting and Newswriting 4 credits

In this course, students learn the fundamentals of writing breaking news and feature stories. Learners acquire the skills to understand the foundations of journalistic history, ethics and Associated Press style. Students originate, research and write news stories. Through readings, discussion, and attention to accuracy, students learn how to exercise these skills wisely in new media. Technology requirement: Students are responsible for providing their own laptop and subscription to industry-standard software to complete assignments.. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisites: ENG-105 and ENG-106.

## PRW-345<sup>t</sup>: Introduction to Grant Writing 4 credits

This course examines the processes, purposes, and practicalities of grant writing with an emphasis on communication between funding sources and grant seekers. Students learn about funding sponsors and their concerns, the parts of grant proposals, and techniques for successful grant research and writing. The course culminates in the students' completion of a grant proposal. Prerequisite: ENG-105, ENG-106.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **PRW-381:** Writing for Public Relations

4 credits

This course exposes students to the various types of writing tasks utilized by Public Relations professionals. In addition to enabling students to write with clarity and skill for various media and contexts, this course encourages students to use strategy, creativity, and critical thinking in composing public relations material. Technology requirement: Students are responsible for providing their own laptop and subscription to industry-standard software to complete assignments.. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ENG-105.

## PRW-466 $^{\Delta i}$ : Technical Writing 4 credits

This writing-intensive course provides an overview of technical writing and focuses on the production of informative practical texts such as instructions, manuals, and process descriptions. Technology requirement: Students are responsible for providing their own laptop and subscription to industry-standard software to complete assignments. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ENG-105.

### PRW-470: Multimedia Feature Writing 4 credits

This course exposes students to advanced journalism skills, concentrating on long-form journalism. Using the best practices of nonfiction, students adapt heavily researched stories to media platforms that integrate video, audio, photography and text. Technology requirement: Students are responsible for providing their own laptop and subscription to industry-standard software to complete assignments.. Verify required technical specifications in the University Policy Handbook available on www.gcu.edu. Prerequisite: ENG-105, ENG-106, PRW-301.

# Psychology (PSY)

# PSY-102<sup>♦</sup>: General Psychology 4 cree

This foundation course in the science of behavior includes an overview of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, social psychology, human development, learning psychopathology, and therapy.

## PSY-102XV: General Psychology 4 credits

This foundation course in the science of behavior includes an overview of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, social psychology, human development, learning psychopathology, and therapy.

# PSY-255<sup>△</sup> Personality Psychology 4 credits

This writing-intensive course examines the nature and casual determinants of human behavior, including the definition and scientific measurement of personality. Theories explored include psychodynamic, Neo-Freudian, trait, biological, humanistic, cognitive, and behavioral theories. A Christian worldview offers perspective of nature and human personality. Prerequisite: PSY-102.

# PSY- Personality Psychology 255HN<sup>∆/♠</sup>:

4 credits

This writing intensive course is a study of the nature and causal determinants of human behavior, including the definition and scientific measurement of personality. Theories studied include the psychodynamic, Neo-Freudian, trait, biological, humanistic, cognitive, and behavioral theories. The Christian perspective on the nature of human personality is also explored. Prerequisite: PSY-102.

## PSY-255XV: Personality Psychology 4 credits

This writing intensive course is a study of the nature and causal determinants of human behavior, including the definition and scientific measurement of personality. Theories studied include the psychodynamic, Neo-Freudian, trait, biological, humanistic, cognitive, and behavioral theories. The Christian perspective on the nature of human personality is also explored. Prerequisite: PSY-102.

# PSY-260\*: Introduction to Psychological 4 credits Research and Ethics

This course serves as a foundation for undergraduates in the field of psychology. Professional skill development, such as an introduction to scientific reasoning, research foundations, critical thinking, literature reviews, and scholarly writing are covered, as well as contemporary ethical issues in the field of psychology. Students have the opportunity to apply guidelines proposed by the American Psychological Association Code of Ethics when exploring topics. Prerequisite: PSY-102.

# PSY-310\*: Introduction to Forensic 4 credits Psychology

This course is an introduction to the field of forensic psychology. Forensic psychology is where the science of the mind intersects with the law. This course explores the scientific principles of psychology as applied to the legal setting. The role and practice of forensic psychology is explored.

## PSY-352<sup>♦</sup>: Health Psychology 4 credits

This course reflects psychology's growing interest in health-related issues by offering an overview of health psychology from a biopsychosocial model. Topics include theories related to health behavior, stress, pain development and management, in addition to patient adherence. Furthermore, the discussion explores cancer and chronic illness development and management. A review of complementary and alternative medicine (CAM), the hospital setting, and effects on patients are examined. Finally, the course examines health-related behaviors such as substance abuse, nutrition, and exercise. Prerequisite: PSY-102.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## PSY-355<sup>♦</sup>: Child and Adolescent Psychology 4 credits

This course examines child and adolescent psychology through stages of development related to biological, cognitive, and socioemotional processes. From conception through adolescence, the nature of child development is explored by discussing theory, research, developmental milestones, attachment, personality, language, moral development, emotions, cultural differences, typical and atypical behaviors, methods of learning, and influences of parenting and environment. An emphasis on research methodology and interpretation is used to analyze the concepts in this class.

# PSY-357♦: Lifespan Development 4 credits

This is a course in developmental psychology with emphasis on the physical, social, cognitive, personality, and moral developments within an individual. The course is designed to provide an understanding of the transitions of life from conception to death.

## PSY-358<sup>♦</sup>: Adult Development and Aging 4 credits

This theoretical and research-based course covers psychosocial, emotional, physical, and cognitive aspects of human development from emerging adulthood to death. Theories of development and applications to real-world situations provide a context for understanding how humans transition across stages of adulthood to death. Scientific approaches for studying developmental psychology stress the importance of research methodology and research interpretation. Prerequisite: PSY-102.

# PSY-362<sup>\*\*</sup>: Social Psychology and Cultural 4 credits Applications

This course provides a study of social and group factors affecting individual behavior. Attention is given to the development of attitudes, roles, norms, group processes, aggression and cooperation, persuasion, stereotypes and prejudices, and social awareness. The role of culture in social processes is emphasized.

# PSY-362HN<sup>/♦</sup>: Social Psychology and Cultural 4 credits Applications

This course provides a study of social and group factors affecting individual behavior. Attention is given to the development of attitudes, roles, norms, group processes, aggression and cooperation, persuasion, stereotypes and prejudices, and social awareness. The role of culture in social processes is emphasized. Prerequisite: PSY-102 or SOC-102.

# PSY-366\*: Introduction to Sport and Exercise 4 credits Psychology

This course provides an overview of factors influencing participation in individual or group sport and performance. Additionally, outcomes associated with performance are examined. Current theory and research are presented to develop an understanding of behaviors in sport and performance settings. Further, techniques applied to enhance sport performance are examined.

## PSY-368\*: Social Aspects of 4 credits Sport/Psychosocial Aspects of Sport

This course examines intersections of sociological environments and sport both in North America and globally, including social and cultural theories of social class, education, gender, religion, ethnicity, and sexuality in sport.

# PSY-380\*: Introduction to Probability and 4 credits Statistics

This course is a study of elementary theories of probability, distribution, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods. Prerequisite: MAT-134, MAT-144 or MAT-154.

## PSY-402<sup>♦</sup>: Cognitive Neuroscience 4 credits

This course includes an introduction to the experimental study of cognition and neurophysiology. Topics include sensation and perception, memory, learning, language, metacognition, intelligence, problem solving, decision-making, mental imagery, consciousness, attention, and the development of cognition through the life span. Major theoretical perspectives and current research within the fields of cognition and neuroscience are discussed. This course also provides students with a basic understanding of the neural underpinnings of a variety of cognitive processes. Prerequisite: PSY-102.

# PSY-410<sup>♦</sup>: Psychology of Coaching 4 credits

This course provides an introduction to current research and theories regarding coach-athlete relationships and the coaching profession, including leadership, psychosocial factors, and performance of teams and athletes. Additionally, strategies for effective coaching are presented.

## PSY-425<sup>♦</sup>: Leadership and Team Building 4 credits

This course studies principles influencing team building strategies and leadership skills. Foundations such as servant, situational, and charismatic leadership are examined, including leadership qualities, skills, and cultural contexts.

## PSY-452<sup>/♠</sup>: Experimental Psychology 4 credits

This course introduces students to the fundamental principles and methods of experimental psychology, with a focus on understanding the scientific process as it applies to psychological research. Students explore a variety of research designs, including true experiments, quasi-experiments, and correlational studies, as well as basic data collection techniques such as surveys, behavioral observations, and physiological measures. Emphasis is placed on critical thinking, ethical research practices, and the application of methodological concepts to real-world psychological questions. The course culminates in the development of an APA-style research paper in which students formulate their own research question, conduct a literature review, and write a detailed methods section outlining how they would hypothetically investigate their topic using appropriate psychological research methods. Prerequisite: PSY-380.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## PSY-452HN<sup>≠</sup> : Experimental Psychology

4 credits

This course is a laboratory course emphasizing both the theoretical and applied aspects of experimental design and research methodology. A variety of activities will be performed in such areas as learning, motivation, and perception. Prerequisite: PSY-380.

## PSY-470<sup>△/•</sup> Abnormal Psychology 4 credits

This is a writing intensive foundation course in the science of abnormal behavior that offers students the opportunity to study the origin and development of abnormal patterns and disorders. This course is designed to assist students in recognizing and understanding mental illness through increased awareness of emotional, functional, and physiological factors influencing mental health. Specific topics include symptoms, diagnoses, etiology, epidemiology, and treatment of various psychological disorders and syndromes.

# PSY- Abnormal Psychology 4 credits 470HN<sup>∆f•</sup>:

This is a writing intensive foundation course in the science of abnormal behavior that offers students the opportunity to study the origin and development of abnormal patterns and disorders. This course is designed to assist students in recognizing and understanding mental illness through increased awareness of emotional, functional, and physiological factors influencing mental health. Specific topics include symptoms, diagnoses, etiology, epidemiology, and treatment of various psychological disorders and syndromes. Prerequisite: PSY-102.

## PSY-495 $^{\Omega}$ : Professional Capstone Project 4 credits

This course provides students with the opportunity to develop and present a research proposal that demonstrates their understanding of psychological research methods and their ability to design a feasible study. Emphasis is placed on integrating feedback, strengthening methodological design, and clearly articulating the relevance of their research. In addition to the research component, students complete structured activities that support their transition beyond the undergraduate program, such as resume development, interview preparation, and exploration of graduate school and career pathways in psychology. Prerequisite: PSY-452.

## PSY-499: Independent Study 1 credits

This course involves research, seminars, or readings on a special topic to be selected by the student and the faculty advisor. This course may be taken for one, two, three or four credits, depending on the amount of time and work involved and may be repeated for up to four credits total credit per subject area unless specified otherwise in requirements for a major.

# PSY-510: Contemporary and Ethical Issues 4 credits in Psychology

This course serves as the foundation for advanced graduate study in the field of psychology. Professional skill development, such as critical thinking, scholarly writing, and literature reviewing are covered, as well as contemporary ethical issues in the field of psychology, including issues in research, writing, psychotherapy, forensic psychology, and animal research.

### **PSY-520:** Graduate Statistics

4 credits

This course provides a study of theories of probability, descriptive and inferential analyses of data, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods. This course requires the use of SPSS software via the Citrix Workspace to complete assignments, please ensure your device is compatible with this software prior to the start of your course.

### PSY-530: Social and Cultural Psychology 4 credits

This course is a study of social, group, and multicultural factors affecting individual behavior. Attention is given to the development of attitudes, leadership roles, group thinking, sources of conflict, altruism, attraction, effects of competition and cooperation, analysis and evaluation of propaganda techniques, and the influence of mass communication on social awareness and control.

## PSY-550: Research Methods 4 credits

This course emphasizes both the theoretical and applied aspects of experimental design and research methodology at the graduate level, including qualitative, quantitative, and mixed designs. Prerequisite: PSY-520.

# PSY-560: Learning, Cognition and 4 credits Motivation

This course offers advanced theory in human cognition and learning, including attention, memory, consciousness, decision making, problem solving, motivation, cognitive mapping, and schemata.

# PSY-565: Industrial/Organizational 4 credits Psychology

This course applies social and organizational methods and principles to business and industry as it applies to Industrial and Organizational Psychology.

## PSY-570: Psychopathology 4 credits

This course offers students a deeper understanding of current issues in adult psychopathology, including personality disorders, psychological disorders, and co-occurring disorders. Students gain advanced knowledge of clinical assessment and treatment planning and engage in in-depth research in the field related to the symptoms, etiology, epidemiology, and treatment of psychological disorders.

# PSY-572: Pedagogy for the Psychology 4 credits Classroom

This course emphasizes principles of pedagogy and student learning in the context of psychology. Students are encouraged to apply education frameworks to a psychology classroom. Through an emphasis on real-world organizational development, traditional theories of student comprehension, and modern pedagogy, this course prepares students to teach a diverse and broad range of psychology courses.

# PSY-575: Organizational Behavior and 4 credits Development

This course examines the theoretical foundations for organizational development and explores how organizations function and the psychology behind it.

<sup>&</sup>lt;sup>Δ</sup>Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## PSY-580: Foundations of Human Factors 4 credits

This course is an examination of the practical application of Human Factors theories and principles.

## PSY-581: Sensation and Perception 4 credits

This course is an examination of the human ability to receive and process information through visual and auditory senses.

## PSY-582: Software 4 credits

This course is a practitioner's guide to a human centered design approach to software development and evaluation.

## PSY-583: Cognition 4 credits

This course is a fundamental examination of cognitive psychology as it applies to human factors.

## PSY-610: Introduction to Coaching 4 credits

This course covers the differences and similarities between coaching and other social services fields, such as counseling, psychology, or social work. Students learn the principal theories influencing the field of coaching as well as fundamental coaching skill.

### PSY-611: Individual Coaching 4 credits

This course provides a deeper look into coaching for individuals. It covers skills, models, and techniques specific to working with individuals and competencies of coaching. Students learn the basics of developing a professional coaching plan and niche development. Prerequisite: PSY-610.

# PSY-612: Business and Organization 4 credits Coaching

This course provides an overview of executive coaching provided within the business/organization as well as the ethical considerations specific to this field. Prerequisite: PSY-610.

## PSY-613: Assessment/Facilitation 4 credits

This course provides an overview of assessments commonly used in the coaching field. Students will develop an understanding of administration and interpretation of assessments as well as how to provide professional feedback relevant for real life application. Prerequisite: PSY-610.

## **PSY-620:** Theories of Criminal Behavior 4 credits

This course explores classic and contemporary theories of crime causation, including psychological, developmental, and social causes of crime and theories of punishment.

## PSY-621: Psychology and the Legal System 4 credits

This course provides a psychological perspective for understanding legal issues, an examination of the various roles, functions, strategies, and interagency relationships of the courts, government entities, elements of the crime, and the individual as it relates to due process within the context of crime control.

## PSY-622: Psychopathology of Crime

4 credits

This course requires students to comprehensively examine various psychopathologies behind criminal behavior. Topics such as biological, genetic, neurochemical, cognitive, and sociological factors underlying criminal behavior will be examined. A focus will be placed on addiction, brain imaging, and future biopsychosocial research.

# PSY-623: Offender Rehabilitation and 4 credits Reintegration

This course examines various approaches to rehabilitative treatments in offender populations. A close look at rehabilitative methods within sex offenders, drug offenders, white collar criminals, cyber criminals, female offenders, juveniles, and mentally ill populations will be taken. Students will examine public policy and research based methods for successful prevention and community reintegration.

## PSY-630: Sociology of Aging 4 credits

This course is a critical examination of social policies and systems which affect aging and retirement. The impact of multiple social contexts such as family, employment, work, and religion are examined.

# PSY-631: Death and Dying 4 credits

This course introduces the concept of death in society. Students examine research, theories, and case studies on the sociocultural dimensions of death and dying with a focus on end of life issues and grief management.

# PSY-632: Physical Health and the Biology of 4 credit Aging

This course examines the biological principles and research that explain the causes of aging. An investigation into the human experience of biological aging, longevity, and age-related disease is made in order promote and modulate successful aging.

# PSY-633: Psychological, and Emotional, and 4 credits Spiritual Aspects of Aging

This course examines the psychological, emotional, and spiritual aspects of aging. There is a focus on promoting positive aging and increasing well-being. Prerequisite: PSY-630.

## PSY-650: Human Development 4 credits

This course in developmental psychology emphasizes the physical, social, cognitive, personality, spiritual, and moral developments within an individual. The course is designed to provide an understanding of the transitions of life from conception to death.

# PSY-655: Strategies for Effective Leadership 4 credits and Consultation

This course examines methods for achieving personal, group, and organizational goals through effective consulting and management strategies.

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 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **PSY-660:** Health Psychology

4 credits

Using the biopsychosocial model of health, this course examines how biological, psychological, and social factors interact with health-promoting and illness-preventing behaviors. Personality factors and the medical community's role in health promotion are also covered.

### PSY-661: Promotion of Health Behaviors 4 credits

This course explores the promotion of health behaviors at the individual and community level. A special focus is on prevention programs and utilization of media to impact health behaviors. Factors contributing to successful prevention programs will be analyzed and program evaluation techniques will be demonstrated. Successful survey design techniques will be introduced and the current trends in health psychology will be explored.

### PSY-662: Health and Wellness 4 credits

This course examines a variety of factors related to wellness and includes a focus on substance use and abuse, nutrition, weight control, diet, exercise and safety. An exploration of lifestyles factors related to promoting health and wellness across the lifespan is assessed as well as effective coaching for health and wellness.

## PSY-663: Future of Health Psychology 4 credits

This course examines the future of Health Psychology with an emphasis on understanding current public policy and implementing changes in this sector. Careers related to Health Psychology and issues and controversies that impact the field are investigated.

### PSY-664: Community Health 4 credits

This course examines the implementation of community-wide change through intervention, prevention, advocacy, outreach, and program evaluation, which moves beyond the individual focus. Students explore foundational competencies for addressing community problems and implementing community psychology practice. A focus is placed on current research related to topics relevant to community psychology.

# PSY-665: Principles of Personnel and Human 4 credits Resource Management

This course examines psychological principles related to personnel and human resource management in both physical and virtual work environments.

## PSY-693<sup>\Omega</sup>: Professional Capstone 2 credits

This course prepares students to enter their prospective career and/or continue their education in psychology. Students will explore occupations and leaders in the various psychological fields, formulate and compile their experiences and achievements, and construct a roadmap for success. Original research ideas will be solidified and presented. Prerequisite: PSY-550.

# PSY-802: Psychoanalysis and Psychodynamic 3 credits Theory

This course is an introduction to the nature, origins, and history of psychoanalysis and psychotherapy. Although not a clinically based course, the course does address the psychoanalytic and psychotherapeutic strategies used to assist individuals with managing personal and inter-personal issues leading to improved mental health.

### PSY-803: Behaviorism 3 credits

This course examines the historical and theoretical background of the behavioristic movement and its major works. The course also examines methods and techniques to help teach and learn new behaviors as well as the concepts and strategies to diminish or eliminate unwanted behaviors.

# PSY-804: Humanistic, Transpersonal and 3 credits Existential Psychology

This course explores the historical roots, theoretical foundations, major works, and guiding philosophy of Humanistic, Transpersonal and Existential (HTE) psychology. This course also examines the different approaches to studying HTE as it relates to human motivation, needs, will, love, and existence in a contemporary world.

# PSY-807: Theories of Cognition, Motivation, 3 credits Collaboration, and Learning

This course discusses foundational theoretical research in areas such as cognition, motivation, learning, communications, and collaboration. Applications to both learning and communications solutions are addressed as are research initiatives.

## PSY-810: History and Systems of Psychology 3 credits

This course is designed to familiarize the graduate student with the major schools of thought in psychology and their philosophical origins. The individuals and their personal experiences are examined in depth. The social, economic, and political forces that have influenced the developing discipline of psychology are also examined.

# PSY-817: Technologies for Learning and 3 credits Communication

This course enables the learner to research current and emerging technologies in learning and communications. The psychology of applying technology to individuals, organizations, and communities, and the assessment of risks and benefits associated with the use of technology are discussed.

## PSY-820: Cognitive Science 3 credits

This course examines theoretical and empirical approaches to understanding different mental processes, including perception, attention, reasoning, intelligence, creativity, concept formation, memory, mental imagery, language, emotional states, and moral reasoning. The development and underlying foundations of these processes and their instantiation in the brain are examined.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# PSY-827: Integrating for Learning and Communication

3 credits

The integration of psychology, technology, and learning is discussed as it relates to innovative research and solutions for learning and communications. The development of a rationale for integration and change including factors such as costs, benefits, and risks is addressed as learners integrate theories, such as social intelligence, to enable successful change.

# PSY-830: Principles of Industrial and Organizational Psychology

3 credits

This course applies social and organizational methods and principles to business and industry. Topics include human behavior at work; personnel selection, evaluation, and training; motivation and job satisfaction; management philosophies; employee-management relationships; work and equipment design; working conditions, accidents and human errors; and consumer psychology.

# PSY-831: Foundations of Performance Psychology

3 credits

This course is designed to apply theories of emotion, cognition, and motivation to performance and explore the variables related to performance excellence. Application of performance psychology principles to applied settings is also addressed.

### PSY-833: Psychomotor Performance 3 credits

This course introduces motor learning and control principles, constructs, laws, and theories, and their application to individual skill learning.

# PSY-834: Psychology of Consulting and 3 credits Coaching

This course explores methods for accelerating individual, group, and organizational performance through consulting, coaching, and change management.

# PSY-836: Principles of Personnel and Human 3 credits Resource Management 3

This course examines psychological principles related to personnel and human resource management in both physical and virtual work environments. Topics include personnel selection, affirmative action and equal opportunity decision making in selection, design and evaluation of training programs, training methods and management development, performance appraisal, and the work environment.

# PSY-837: Applied Psychology of Leadership 3 credits

This course provides an overview of leadership theories and models from a psychological perspective. It introduces leadership development within the individual, group, and organization, focusing on the skills and abilities of effective leaders.

# PSY-838: Testing and Assessment in the Workplace

3 credits

This course provides students with an overview of the different types of tests used in organizational settings and experience in their application. Included is a comprehensive examination of psychometric properties used to develop and evaluate these instruments. Students are presented with theoretical basis, skill sets, and examples, and learn to establish and maintain rapport in a testing situation; administer, record, and score specific measures of cognitive ability and achievement; interpret test results; and summarize results in a written report.

## PSY-839: Performance Enhancement 3 credits

The purpose of this course is to apply psychological theories and principles. The learner completes an applied project utilizing a case study.

## PSY-860: Human Learning and Cognition 3 credits

This course offers advanced theory in human cognition, learning, and motivation, including attention, memory, consciousness, decision making, problem solving, motivation, cognitive mapping, and schemata. Prerequisite: PSY-820.

## PSY-863: Cognition and Instruction 3 credits

This course is designed to apply theories of cognitive psychology to learning and instruction, and thus explores the principles of learning in the context of formal education. Educational research related to classroom practice and application is considered in four domains: information processing/memory, attitudes/motivation, intelligence, and formal learning.

### PSY-866: Social Cognition

3 credits

This course is a study of social cognition, including how people understand themselves and other people. Prerequisite: PSY-863.

## PSY-885 $\Omega$ : Developing the Research Proposal 3 credits

In this course, learners formalize their research proposal specific to their topic. Emphasis is placed on fully developing Chapter 1 and incorporating Chapters 2 and 3 (drafts) from previous research courses. This proposal becomes the first three chapters of the dissertation upon approval of the final draft by the College of Doctoral Studies. Prerequisite: RES-880.

## PSY-955 $\Omega$ : Dissertation I 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: RES-871, PSY-885, RSD-883, or RSD-884.

## PSY-960 $^{\Omega}$ : Dissertation II 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: PSY-955.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# PSY-965 $^{\Omega}$ : Dissertation III

3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: PSY-960.

### PSY-966E: Research Continuation I 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-965.

### PSY-967E: Research Continuation II 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-966 or PSY-966E.

#### PSY-968E: Research Continuation III 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-967 or PSY-967E.

## PSY-969E: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-968 or PSY-968E; RSD-951.

## PSY-970E: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-969 or PSY-969E.

## PSY-971E: Research Continuation VI 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-970 or PSY-970E.

### PSY-972E: Research Continuation VII

3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-971E.

## PSY-973E: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-972E.

## PSY-974E: Research Continuation IX 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: PSY-973E.

# PSY-975 $^{\Omega}$ : Dissertation Research Continuation 0 credits

This course emphasizes the finalization of the dissertation and provides learners guidance for finding the appropriate venues and approaches in publishing their research findings. This will include the final steps necessary in pulling together what might have been earlier versions of chapters 1, 2, and 3, as well as the proofing and dissertation editing strategies that are required and the steps scholars can take to make sure their results are, in fact, shared with other scholars. This includes an exploration of writing research articles, preparing to present scholarly papers, as well as other publication venues. Prerequisites: PSY-966E or PSY-970 and either RSD-951 or D-35 status.

# Public Health (PUB)

# PUB-200: Health Promotion and Disease 4 credits Prevention 4

This course incorporates principles of human health and disease, health education and promotion, and a consideration of how public health professionals promote a culture of health through engaging and empowering individuals and communities to choose healthy behaviors and reduce their risks for disease. Through an examination of the core functions and goals of public health, levels of prevention, social determinants of health, and the theoretical contexts of health behaviors, students begin to understand the cultural context for health promotion and the complexities involved in promoting and protecting public health.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# PUB-240: Environmental and Occupational 4 credits Health and Safety

This course examines factors in both the natural and built environment that influence human health. Along with an overview of contemporary environmental health issues, students examine elements of workplace health and safety, emergency preparedness, and the impact of organizational policies and procedures on human health in occupational settings.

# PUB-360: Community Assessment and 4 credits Planning

Course Description: This course introduces the steps of public health programming implementation with an emphasis on assessment and planning. Students examine the assessment process, frameworks for community assessment, and the utility of theoretical models in planning. Along with the fundamentals of program management, students delve into strategic approaches to planning, including goal setting, process evaluation, and change management, to effectively engage communities in public health programming. Prerequisite: PUB-200.

# PUB-380<sup>6</sup>: Epidemiological Research Design 4 credits and Methods

This course introduces basic epidemiological concepts including methods to study the distribution and determinants of disease. Students learn fundamental research methods and components of a strong research design and apply qualitative and quantitative methods to describe disease and test hypotheses. Transmission and the clinical progression of disease are evaluated through epidemiological models. Prerequisite: PSY-380.

# PUB-390<sup>4</sup>: Foundations in Global Health 4 credits Practice

This course examines global health concepts with a focus on lowand middle-income countries. Students develop a global perspective in understanding the influence of culture and the sociopolitical factors involved with health and well-being. The course considers key topics of water and sanitation, agriculture and nutrition, maternal and child health, and climate change, along with practical knowledge for working in a global healthfocused career.

# PUB-410 $^{\triangle}$ : Implementation and Evaluation of 4 credits Public Health Interventions

This writing intensive course examines the knowledge and skills needed to implement and evaluate public health interventions in various settings. Students learn the steps involved in the implementation of evidence-based interventions, allocation of resources, and marketing and promotion of programs. An overview of evaluation approaches and designs is provided and students apply data collection skills used in evaluation, including survey design and data analysis. Ethical considerations during the implementation and evaluation of interventions are also explored. Prerequisite: PUB-360.

# PUB-430<sup>4</sup>: Public Health Data Systems and 4 credits Informatics

In this course, students explore diverse data systems, such as disease registries, surveillance data, and geographic information systems, to learn about health and disease. Students learn to use technology to manage and share data appropriate for the targeted audience and apply tools of health informatics to interpret and communicate data for decision making and program or policy development. Prerequisite: PUB-380.

## PUB-450<sup>△</sup>: Public Health Policy and Financing 4 credits

In this writing-intensive course, students examine the structure, function, financing, and delivery of public health and health care services at the local, state, and federal levels. Students explore the role of policies and regulations on the delivery and quality of public health and health care services. The course also considers the relationship between private and public sector health care systems and public health in addressing population health. Strategies for advocacy, including advocating for health issues and communities, are also explored.

## PUB-480<sup>\*</sup>: Ethical Practice in Public Health 4 credits

The purpose of this course is to examine ethical approaches to working in diverse teams, across cultures, and with vulnerable populations. Students explore ethical issues related to community-based research and public health programming, along with approaches to navigate through ethical dilemmas. This course covers how professionalism and human rights guide decisions that lead to a respect for others and social justice.

## PUB-490: Public Health Capstone Project 4 credits

In this culminating course, students have the opportunity to integrate and apply the public health knowledge and skills acquired in their program either through a 30-hour volunteer service-learning opportunity in the field of public health, or through a research-based project developing a proposal to address a public health issue. This experience is designed to promote critical reflection, allow the student to develop leadership skills, and provide a practical connection to the field of public health. Prerequisites: PUB-380 and PUB-410.

### PUB-510: Foundations of Public Health 2 credits

This course introduces learners to the broad field of public health, professional roles, and the basic principles of disease prevention and health promotion among communities and populations. Learners examine historical trends in the field, the 10 Essential Public Health Services, and how public health services are designed and delivered within the public health infrastructure. The course introduces learners to the upstream causes of morbidity and mortality across the life span and how the public health system in the United States addresses these causes.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# PUB-520: Social and Behavioral Principles of 4 credits Public Health

Learners in this course identify social and behavioral approaches in public health to effect change at the individual, interpersonal, organizational, and community levels. Learners examine the influence of the social, political, and economic landscape of the community on perceptions of health, and assess the readiness of individuals and the community for change. Learners explore the social determinants of health and apply theoretical frameworks to address public health issues and reduce health disparities. Learners also evaluate the best methods to empower change and engage communities in public health initiatives with sensitivity to the diverse spiritual, cultural, and psychosocial needs of the populations they serve. Learners research specific issues related to health equity, applying a theoretical framework, identifying contributing factors, and proposing appropriate interventions. Prerequisite: PUB-510.

## PUB-540: Principles of Epidemiology 4 credits

This course introduces epidemiological principles and methods to study, quantify, and assess the distribution and determinants of disease among populations. Learners examine the influence of biological and social factors on population health, including epigenetics, infectious disease, and foodborne illnesses. Learners evaluate epidemiologic study designs and apply measures of association as methods for determining relationships. Prerequisite: PUB-520 or PHN-600.

# PUB-550: Application and Interpretation of 4 credits Public Health Data

This course introduces learners to the application and interpretation of data to assess, design, and justify public health programs. Learners learn the basics of data management and statistical analysis using real-life public health data sets. Learners consider the implications of crafting a clear research question, identifying available and quality data, applying appropriate data analysis methods, and effectively communicating the results. Research standards and ethics are emphasized in contributing to evidence-based public health practice. Prerequisite: PUB-540.

### PUB-560: Environmental Impacts on Health 4 credits

In this course, learners consider the interrelationship between human health and the natural and built environments. Learners examine current environmental issues and the human activity that affects public and global health, such as climate change, disease transmission (One Health), urbanization, pollution, as well as the impact of these changes over time. Learners also study the ethical implications of environmental strategies related to community design, occupational health, and policy influencing human health. Prerequisite: PUB-510.

# PUB-610: Communication for Behavior Change

This course focuses on using communication to positively influence understanding of health information, decision making, and health behavior. Students examine ways to serve as public health change agents though effective and ethical communication practices. Through an emphasis on health literacy and cultural competence, students learn to design public health communications and select appropriate communication channels for a variety of audiences, including individuals and communities. Students also consider the role of the public health professional as a trusted source of health information and examine strategies for combating misinformation within communities. Prerequisite: PUB-520.

4 credits

# PUB-620: Planning and Evaluation in Public 4 credits Health

In this course, students learn and apply competencies related to the planning, implementation, and evaluation of health promotion and disease prevention programs. Health behavior theories are considered in the development of health promotion programs, the application of evaluation findings, and prioritization of community concerns and resources. Focus is placed on needs assessment, selecting interventions, measuring program outcomes, and collaborating with stakeholders. Students identify methods for data collection, tools for program and resource management, and strategies for assessing effectiveness of programs, including cost-benefit analysis. Prerequisites: PUB-520, PUB-550, and PUB-610.

## PUB-650: Public Health Advocacy and Policy 4 credits

In this course, students examine the intricacies of public health policy development and examine the role of federal, state, and local government in the provision of public health programs and services through health policy and law. Emphasis is placed on the role of the public health professional in advocating for public and community health, health equity, and social justice. Students learn advocacy strategies for mobilizing communities, coalitions, and organizations to support and implement policy. Through careful analysis of public health policy and consideration of the implications of Health in All Policies approaches, students learn how local, national, global, social, and economic policies have broad implications for human health. Students also have the opportunity to learn how to structure and write a health policy analysis, including economic and budgetary impacts of policy options. Prerequisite: PUB-610.

# PUB-655: International Perspectives in Community Health 4 credits

In this course, learners synthesize the impact of globalization on community health and the complexities of partnering with communities for development among resource-constrained populations. Learners review the history of international public health efforts and theories underpinning current global health initiatives. There is an emphasis on the role of faith and ministry-based organizations in global health advocacy and initiatives. Learners examine the challenges of building real collaboration across public, private, and local entities, and explore best practices for the integration of faith-based and professional public health principles to establish sustainable local development. Prerequisite: PUB-540.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

This course applies principles of strategic leadership and management of public health services within different sectors. Cultural differences in leadership and management are explored to build partnerships leveraging community and organizational strengths. Learners explore how to align public health programs with organizational mission, vision, and objectives for sustainability and growth. There is particular emphasis on the collaborative nature of public health, developing cross-cultural competence, and the unique aspects of leadership within various types of agencies, including faith-based organizations. Learners hone their communication, negotiation, and servant leadership skills to empower and influence others working together to improve the health of populations. Prerequisites: PUB-620 and PUB-650.

## PUB-680 $^{\Omega}$ : Public Health Practicum 4 credits

This practicum course is designed to provide learners an opportunity to transition from theory to practice in public health. The learner reinforces, integrates, and applies concepts, principles, and skills gained during coursework that are essential to professional competency. Learners are required to complete a minimum of 150 hours of applied practice experience in an approved public health setting under close supervision of a qualified preceptor approved by the college. Learners reflect on their applied practice experience, discuss the application of theory and concepts in practice, identify personal strengths, describe professional development opportunities, and develop a professional portfolio. Practicum/field experience hours: 150. Prerequisites: All previous coursework and a release by the Office of Field Experience.

## PUB- $690^{\Omega}$ : Public Health Capstone 4 credits

This capstone course is an integrated learning experience that provides students the opportunity to apply public health skills based on their professional interests and goals. Students demonstrate competency through the development of a written, professionally prepared project that can be included as part of a professional portfolio. Students tailor a project based on their professional interests and goals, with the option to write a grant proposal for a public health initiative, develop a comprehensive policy analysis, conduct a secondary data analysis, or complete a program evaluation plan. Prerequisite: PUB-680.

# Reading Program (REA)

## REA-305♦: Children's Literature 4 credits

Teacher candidates survey types and purposes of literature based on the developmental literacy needs of elementary-aged children. Particular emphasis is dedicated to the various genres that exist within the literature spectrum and how to utilize the different genres, including digital text, to meet specific instructional needs and literacy goals of elementary-aged children. Practicum/field experience hours: None. Fingerprint clearance not required.

# REA-325: Literacy Interventions and Remediation for Elementary Education

required. Prerequisite: ELM-315.

Teacher candidates develop strategies for literacy intervention and remediation to foster and support student autonomy in the classroom. Teacher candidates build knowledge and skills to plan literacy supports in all content areas, promote self-directed learning, and empower students to take control and set goals for their own learning outcomes. Language and literacy development is examined to inform intervention and remediation strategies and practices to support readers of varying ages and ability levels, including students with dyslexia and other reading disabilities. Practicum/field experience hours: 10. Fingerprint clearance

4 credits

# REA-326: Literacy Intervention and 4 credits Remediation for Elementary Education

Teacher candidates develop strategies for literacy intervention and remediation to foster and support student autonomy in the classroom. Teacher candidates build knowledge and skills to analyze and use assessment data when planning literacy supports in all content areas, communicating student progress, promoting self-directed learning, and empowering students to set goals for their own learning outcomes. Language and literacy development is examined to inform intervention and remediation strategies and practices that support readers of varying ages and ability levels, including students with dyslexia and other reading disabilities. Emphasis is placed on identifying the strengths and needs of individuals when planning instruction and providing descriptive and timely feedback on student progress. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: ELM-211.

# REA-350: Reading Remediation and 4 credits Intervention in Early Childhood

Teacher candidates study the early stages of reading disabilities, including dyslexia. Emphasis is on assessment procedures in early childhood settings and methods of early intervention and remediation. Candidates will explore the collaboration with stakeholders in the use of formal and informal assessment data to support the diagnosis and remediation process in literacy. Candidates will examine research-based strategies to support literacy development. Prerequisite: ECS-430 or ELM-316.

# REA-365: Methods and Strategies for 4 credits Reading Instruction

Teacher candidates survey a variety of reading instruction and phonemic practices. Emphasis is placed on the five elements of reading: phonics, phonemic awareness, fluency, vocabulary, and comprehension. This survey prepares the teacher candidate to plan and evaluate effective reading instruction that optimizes student learning. Effective communication techniques are reviewed and practiced with a variety of audiences teacher candidates may encounter in a classroom. Practicum/field experience hours: 10. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **REA-366:** Methods for Reading Instruction 4 credits

Teacher candidates survey a variety of literacy instruction and phonemic practices. Emphasis is placed on the five elements of reading: phonics, phonemic awareness, fluency, vocabulary, and comprehension. This survey prepares the teacher candidate to plan and evaluate effective reading instruction that optimizes student literacy, including writing development. Effective communication techniques are reviewed and practiced with a variety of audiences teacher candidates may encounter in a classroom. Prerequisite: ELM-211 or enrollment in the BS Educational Studies program.

## REA-370: Children's Literature 4 credits

Teacher candidates survey types and purposes of literature based on the developmental literacy needs of elementary-aged children including student choice, engagement, and motivation. Particular emphasis is dedicated to the various genres that exist within the literature spectrum and how to utilize the different genres, including digital text, to meet specific instructional needs and literacy goals of elementary-aged children. Practicum/field experience hours: None. Fingerprint clearance not required.

# REA-410: Assessment and Remediation of 4 credits Reading Proficiency

Teacher candidates participate in introductory studies of assessment systems for students in the classroom, identifying reading difficulty and remediation options. Candidates will employ the assessment process to identify reading needs in the five essential components of literacy, and implement remediation strategies. Candidates will review assessment tools and communicate assessment results to a variety of audiences. Practicum/field experience hours: 10. Fingerprint clearance required.

# REA-411: Assessment and Remediation of 4 credits Reading Proficiencies

Teacher candidates participate in introductory studies of assessment systems for students in the classroom, identifying reading difficulty and remediation options. Candidates will evaluate assessments to identify reading needs in the five essential components of literacy, and plan remediation strategies. Candidates will review assessment tools and communicate assessment results to a variety of audiences. Focus will be placed on collaboration strategies with colleagues about instructional practices and interventions. Practicum/field experience hours: None. Fingerprint clearance not required.

# REA-420: Research-Based Reading 4 credits Development and Interventions

Teacher candidates develop deeper understanding of assessment strategies and instructional procedures, curriculum, and instructional alternatives, and program planning for the literacy development of students with reading and/or writing disabilities, including dyslexia. This course will address specific reading development issues, and strategies that support struggling readers. The course will focus on how, as a teacher, to participate in tiered support systems and facilitate/provide appropriately focused and intensive literacy instruction. Practicum/field experience hours: 10. Fingerprint clearance required.

# REA-421: Reading Development and Interventions

4 credits

Teacher candidates develop deeper understanding of evidence-based assessment strategies and instructional procedures, curriculum, instructional alternatives, and program planning for the literacy development of students with reading and/or writing disabilities, including dyslexia. This course will address specific reading development issues, and advocacy for strategies that support struggling readers in literacy rich learning environments. This course will focus on how, as a teacher, to plan tiered support systems and facilitate appropriately focused and intensive literacy instruction. Practicum/field experience hours: 20. Fingerprint clearance required.

# REA-460: Diagnosis and Remediation of 4 credits Reading Proficiencies

Teacher candidates study the implications of reading disabilities, assessment procedures, and methods for correction. Formal and informal assessment procedures will be examined and applied in practice. Candidates will explore the use of performance data as a part of the assessment cycle to support the diagnosis and remediation process. Teacher candidates build on this foundational knowledge in the evaluation of abilities and achievement in the area of literacy. Practicum/field experience hours: 10. Fingerprint clearance required. Practicum/field experience hours: 10. Fingerprint clearance required.

## REA-461: Diagnosis and Remediation of 4 credits Reading Proficiencies 4

Teacher candidates study the implications of reading disabilities, assessment procedures, and methods for correction. Formal and informal assessment procedures will be examined and applied in practice. Candidates will collaboratively explore the use of performance data as a part of the assessment cycle to support the diagnosis and remediation process. Teacher candidates build on this foundational knowledge in the evaluation of abilities and achievement in the area of literacy. Practicum/field experience hours: None. Fingerprint clearance required. Practicum/field experience hours: None. Fingerprint clearance not required.

# REA-500: Foundations in Language and 3 credits Literacy

Candidates survey the theoretical and evidence-based foundations of reading and writing processes and instruction. This survey includes an exploration of historical through current reading and writing development, processes, and components. Candidates are introduced to ethical and professional roles. Practicum/field experience hours: None. Fingerprint clearance not required.

### REA-510: Survey of Reading Assessments 3 credits

Reading/Literacy specialist candidates survey a variety of assessment tools and related practices. This survey prepares the reading/literacy specialist to use assessment results to plan and evaluate effective reading and writing instruction that optimizes student learning. In addition, the reading/literacy specialist candidates develop effective communication techniques. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-500.

552

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# REA-512: Introduction to K-12 Reading Instructional Methods

3 credits

Reading/Literacy specialist candidates survey instructional approaches and materials that support student learning in reading and writing. This survey prepares the reading/literacy specialist candidates to design an integrated, comprehensive, and balanced curriculum to meet the literacy needs of whole class and groups of students including students identified as English Language Learners or demonstrating characteristics of dyslexia. Placement of field experience will be in a K-8 environment. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-500.

# REA-515: Advanced Studies in Reading 3 credits Assessment Systems

Reading/literacy specialist candidates engage in advanced studies of assessment systems to develop, select, and interpret data at the building and district level. This advanced study of assessment information is used to plan and evaluate curriculum and instruction at the building and district level. In addition, the reading/literacy specialist candidates communicate assessment results to a variety of audiences. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-510. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-510.

# REA-520: Introductory Instructional Methods 3 credits for Elementary Reading and Writing

Reading/Literacy specialist candidates survey instructional approaches and materials that support student learning in reading and writing. This survey prepares the reading/literacy specialist candidates to design an integrated, comprehensive, and balanced curriculum. Practicum/field experience hours: 10. Fingerprint clearance required. Practicum/field experience hours: 10. Fingerprint clearance required.

# REA-522: Advanced K-12 Reading 3 credits Assessment and Diagnostics

Reading/literacy specialist candidates engage in advanced studies of assessment and diagnostics to develop, select, and interpret data. This advanced study of assessment information is used to plan and evaluate curriculum and instruction at the building and district level with an awareness of students identified as needing additional reading support, including students identified as English language learners or demonstrating signs of dyslexia. In addition, the reading/literacy specialist candidates communicate assessment results to a variety of audiences. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-510.

# REA-525: Introductory Instructional Methods 3 credits for Secondary Reading and Writing

Reading specialist/literacy coach candidates survey instructional approaches and materials that support student learning in reading and writing. This survey prepares the reading specialist/literacy coach candidates to design an integrated, comprehensive, and balanced curriculum. Practicum/field experience hours: 10. Fingerprint clearance required.

## REA-532: Advanced Methods for K-12 Reading and Writing Instruction and Remediation

Reading/Literacy specialist candidates engage in advanced studies of instructional approaches and materials to support reading and writing instruction and remediation across content areas. From this advanced study, the reading/literacy specialist candidates design an integrated, comprehensive, and balanced curriculum to meet the diverse literacy needs of individuals and groups of students including students identified as English language learners or demonstrating signs of dyslexia. Placement of field experience will be in a 6-12 environment. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-512.

3 credits

# REA-540: Advanced Studies in Methods for Elementary Content Reading and Writing

Reading specialist/literacy coach candidates engage in advanced studies of instructional approaches and materials at the building and district level that support student learning in reading and writing across content areas. From this advanced study, the reading specialist/literacy coach candidates design an integrated, comprehensive, and balanced curriculum. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-520.

# REA-545: Advanced Studies in Methods for Secondary Content Reading and Writing

Reading specialist/literacy coach candidates engage in advanced studies of instructional approaches and materials at the building and district level that support secondary students' learning in reading and writing across content areas. From this advanced study, the reading specialist/literacy coach candidates design an integrated, comprehensive, and balanced curriculum. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-525.

## REA-550: Literate Environments 3 credits

Reading/Literacy specialist candidates create a literate environment that fosters reading and writing by integrating foundational knowledge, instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments. Students will examine schoolwide collaboration as well as advocate for establishing a literate classroom to meet diverse learning needs . Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-515 or REA-522.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# REA-552: Leadership in Literacy Intervention 3 credits and Remediation

Reading/Literacy specialist candidates survey professional learning and leadership models for promoting literacy with emphasis on positive dispositions, individual and collaborative learning, design and evaluation of professional learning experiences, the importance of advocacy, and a need for knowledge about adult learning and school leadership. From this survey, reading/literacy specialist candidates demonstrate and facilitate professional learning and leadership as a career-long effort and responsibility. Practicum/field experience hours: 10. Fingerprint clearance required.

# REA-560: Professional Learning and 3 credits Leadership in Literacy

Reading specialist/literacy coach candidates survey professional learning and leadership models for promoting literacy. emphasizing positive dispositions, individual and collaborative learning, the ability to design and evaluate professional learning experiences, the importance of advocacy, and a need for knowledge about adult learning and school leadership. From this survey, reading specialist/literacy coach candidates demonstrate and facilitate professional learning and leadership as a careerlong effort and responsibility. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: REA-550.

## **REA-570** $^{\Omega}$ : Elementary Practicum in Reading 3 credits

The practicum experience requires reading specialist/literacy coach candidates to implement literacy intervention instruction that is designed to meet the specific needs of students and engage in research and analysis to support compilation and creation of a Literacy Work Sample (LWS). In addition, the candidates coach and provide support to other teachers to think reflectively about improving student learning and implementing various instructional practices. Practicum/field experience hours: 75. Fingerprint clearance required. Prerequisite: REA-540.

## **REA-580** $^{\Omega}$ : Secondary Practicum in Reading 3 credits

The practicum experience requires reading/literacy specialist candidates to implement literacy intervention instruction at the secondary level that is designed to meet the specific needs of students and engage in research and analysis to support compilation and creation of a Literacy Work Sample (LWS). In addition, the candidates provide support to other teachers to think reflectively about improving student learning and implementing various instructional practices. Practicum/field experience hours: 75. Fingerprint clearance required. Prerequisite: REA-545.

## REA-582: Practicum in K-12 Reading 3 credits

The practicum experience requires reading/literacy specialist candidates to implement literacy instruction, intervention and remediation that is designed to meet the specific needs of students and engage in research and analysis to support compilation and creation of a Literacy Work Sample (LWS). In addition, the candidates provide support to other teachers to think reflectively about improving student learning and implementing various instructional practices. Practicum/field experience hours: 90. Fingerprint clearance required. Prerequisites: REA-512 and REA-532.

# Research (RES)

# RES-811 $^{\Omega}$ : Introduction to Advanced 3 credits Graduate Studies and Scholarship

This course introduces students to the principal elements of research and scholarly writing. Learners explore approaches to synthesizing literature and the application of the major components of APA form and style, and learn to coordinate literature searches. Furthermore, they learn how to discern principal arguments, analyze research questions, and clearly identify the key scholarly attributes to journal articles and other sources of scholarly data. This course also introduces learners to the University's overarching values and beliefs regarding research and the responsibility scholars have in continuing a tradition of contributing to an ever-growing body of knowledge.

### RES-815: Introduction to Research 3 credits

This course introduces doctoral learners to the principle elements of research, scholarly writing, and effective argumentation. Learners are made aware of the dispositions and expectations of doctoral researchers as well as the University's overarching values and beliefs regarding research and the responsibility of scholars to contribute new knowledge to their respective fields of study. Learners begin the process of identifying a researchable dissertation topic and are acquainted with appropriate scholarly resources that support the development of the dissertation.

# RES-820A: The Literature Landscape: 3 credits Organizational Leadership

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

# RES-820B: The Literature Landscape: 3 credits Teaching and Learning

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

# RES-820C: The Literature Landscape: 3 credits Psychology

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\rlap{/}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## RES-820D: The Literature Landscape: Counselor Education and Supervision

3 credits

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

# RES-820E: The Literature Landscape: 3 credits Business

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

# RES-820G: The Literature Landscape: Health 3 credits Administration

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

# RES-820H: The Literature Landscape: 3 credits Education Specialist

In this course, learners are introduced to the critical reading of scholarly qualitative and quantitative literature at the doctoral level. Learners also explore the concept of synthesizing the scholarly literature to identify problems and problem spaces that emerge to form a researchable topic of study. The application of scholarly argumentation from the extant literature to defend the need for a research study is discussed.

## **RES-825** $^{\Omega}$ : Theories of Inquiry 3 credits

The course provides an overview of the approaches to inquiry and the methods applied to gain knowledge of the human condition including epistemology and hermeneutic interpretation. These approaches and methods are contrasted with those applied to inquiry in the natural sciences. Consideration is given to the broader social and cultural components that contribute to the refinement of existing knowledge and the creation of new knowledge in the social and human sciences.

## **RES-831:** Foundations of Research Design 1 3 credits

In this course, learners are introduced to key components of qualitative and quantitative research designs and the means to critically appraise the application of research designs as observed in the scholarly literature. The University's core research designs are presented. Consideration is given to the initial selection and defense of a research design to address a problem that emerged from the extant literature.

## RES-832: Foundations of Research Design 2 3 credits

This course provides an introduction to the sampling, data collection, and data analysis methods employed in qualitative and quantitative research designs. Learners explore the alignment of sampling, data collection, and data analysis methods to the research topic, research questions, and research design. The course positions learners to select qualitative or quantitative designs for their dissertation studies. Prerequisite: RES-831.

## RES-841: Designing a Qualitative Study 1 3 credits

In this course, learners explore the basic components of GCU qualitative core research designs including descriptive, case study, and phenomenology. The nature of epistemological foundations and the structure of problem statements, purpose statements, research questions, data sources, collection and analysis approaches are discussed in the context of each design.

## RES-842: Designing a Quantitative Study 1 3 credits

In this course, learners explore the basic components of quantitative research design. Attention is given to variables, instrumentation, and sources of data. Reliability and validity of instrumentation is discussed in the context of GCU core quantitative research designs.

## **RES-843:** Designing a Qualitative Study 2 3 credits

In this course, learners differentiate the epistemological foundations and explore the data trustworthiness, research ethics, and potential for bias in descriptive, case study, and phenomenology research designs. The process of building a rationale for design choice and aligning the research questions, interview questions, problem statement, and purpose statement is addressed. Sources of qualitative data are introduced for each design, and ethical aspects of research are discussed. Prerequisite: RES-841.

### RES-844: Designing a Quantitative Study 2 3 credits

In this course, learners interact with statistical tests and statistical analysis software in the context of designing a quantitative research study. Alignment of statistical tests to research questions, hypotheses and design is stressed as is determining the feasibility of a quantitative research study. Ethical aspects of research are discussed. Prerequisite: RES-842.

## **RES-845** $\Omega$ : Statistics 3 credits

This course provides a study of theories of probability, descriptive and inferential analyses of data, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods.

### **RES-850** $^{\Omega}$ : Foundations for Research 3 credits

This course provides a broad overview of foundational elements for conducting independent, original research. Qualitative, quantitative, and mixed research methods are introduced and applied. The template for developing a research prospectus is also introduced, with emphasis on identifying a researchable topic related to the learners' degree specialization. Prerequisite: RES-811.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## **RES-855** $\Omega$ : Qualitative Research Methods

This course provides students with an overview of qualitative methods and offers students the opportunity to apply and interpret qualitative research. Topics include data collection, data analysis, appropriate qualitative inquiry, and theories of qualitative methods.

3 credits

## **RES-861** $^{\Omega}$ : Analysis of Existing Research 3 credits

This course is designed to train learners in the conduct of a systematic literature review related to their research topic. Emphasis is placed on creating structure for reading, analyzing, synthesizing, and organizing prior research necessary for drafting the first iteration (draft) of Chapter 2 of the dissertation. Learners use the research prospectus template to guide the development of their Chapter 2. Prerequisite: RES-850 or MGT-810 or RES-825.

# RES-866 $^{\Omega}$ : Approaches to Research Design 3 credits and Data Analysis

This course provides learners with an overview of qualitative, quantitative, and mixed methods approaches with emphasis on conceptual and practical aspects of data collection, management, and analysis. Learners use their research prospectus to align the research question(s) and variables of interest with the appropriate data collection and analytical techniques. Prerequisite: RES-861.

# RES-873: Qualitative Data Collection and 3 credits Management

In this course, learners explore qualitative data collection techniques and sources of qualitative data in the context of answering the research questions posed by a study. Consideration is given to the recognition of data saturation and the management of data. Learners continue to work with their respective dissertation chairs to prepare a written statement of data collection, and management activities. Prerequisites: RES-843 and one of the following: DBA-955 or DIS-955 or DHA-955 or PSY-955 or PCE-955 or TLC-955.

# RES-874: Quantitative Data Collection and 3 credits Statistical Mechanics

In this course, learners focus on data collection, data preparation and management, and the analysis of quantitative data to produce written research findings, results, and implications. Learners continue to work with their respective dissertation chairs and apply information from this course to move ahead in the dissertation process. Prerequisites: RES-844 and one of the following: DBA-955 or DIS-955 or DHA-955 or PSY-955 or PCE-955 or TLC-955.

# RES-880 $^{\Omega}$ : Formalizing the Research 3 credits Prospectus

Learners complete a cogent research prospectus as the foundation for their dissertation research proposal. Emphasis is placed on fully articulating a study design and methodology that is aligned with the research questions and developing the first iteration (draft) of Chapter 3 of the dissertation. Prerequisite: RES-855 or RES-866.

# RES-883: Qualitative Data Analysis, Results 3 credits and Findings

In this course, learners focus on the interpretation of qualitative data to produce written research findings, results, and implications. Learners continue to work with their respective dissertation chairs and apply information from this course to move ahead in the dissertation process. Prerequisites: RES-873 and one of the following: DBA-960 or DIS-960 or DHA-960 or PSY-960 or PCE-960 or TLC-960.

# RES-884: Quantitative Data Analysis, 3 credits Results, and Findings

In this course, learners focus on the interpretation of quantitative data to produce written research findings, results, and implications. Learners continue to work with their respective dissertation chairs and apply information from this course to move ahead in the dissertation process. Prerequisites: RES-874 and one of the following: DBA-960 or DIS-960 or DHA-960 or PSY-960 or PCE-960 or TLC-960.

## **RES-885** $\Omega$ : Developing the Research Proposal 3 credits

In this course, learners formalize their research proposal specific to their topic. Emphasis is placed on fully developing Chapter 1 and incorporating Chapters 2 and 3 (drafts) from previous research courses. This proposal becomes the first three chapters of the dissertation upon approval of the final draft by the College of Doctoral Studies. Prerequisite: RES-880.

# Real Estate (RLS)

# Residency (RSD)

### RSD-851 $^{\Omega}$ : Residency: Dissertation 3 cro

This residency allows learners to continue developing their skills as academic researchers. Learners will have hands-on experience applying quantitative and qualitative design principals to develop the foundational elements for their potential dissertation studies. Prerequisite: RES-850, RES-825, RES-831, or RCS-831.

# RSD-881 $^{\Omega}$ : Residency: Presentation of 3 credits Progress or Results

This residency prepares students to present their scholarly work and to thoughtfully critique the work of others. Students orally present papers developed in their own classes and respond to questions from colleagues. Students are further prepared to become active members in academic communities by learning how to review papers and provide comments.

# RSD-883: Residency: The Qualitative 3 credits Dissertation 3 credits

In this residency, learners orally present and defend an expanded design of their preliminary dissertation research from RSD-851. Emphasis is placed on developing the qualitative dissertation. Prerequisite: RES-843.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# RSD-884: Residency: The Quantitative Dissertation

3 credits

In this residency, learners orally present and defend an expanded design of their preliminary dissertation research from RSD-851. Emphasis is placed on developing the quantitative dissertation. Practicum/field experience hours: None. RES-844.

# RSD-951 $^{\Omega}$ : Residency: Dissertation Intensive 3 credits Seminar

This intensive seminar focuses on development of the dissertation proposal and the creation of forward momentum toward completion of the dissertation. Learners will receive specific personal guidance in these endeavors.

# RSD-952 $^{\Omega}$ : Residency: Dissertation Intensive 0 credits Seminar

This intensive seminar focuses on development of the dissertation proposal and the creation of forward momentum toward completion of the dissertation. Learners will receive specific personal guidance in these endeavors.

# Risk Management (RSM)

# RSM-435: Property and Casualty Insurance 4 credits

This course introduces students to homeowners, renters, and auto insurance. Students identify and measure direct and indirect property loss exposures and the insurance coverages used to transfer such exposures. Commercial liability and property protection coverages are also explored. Prerequisite: FIN-350.

## RSM-445: Life and Health Insurance 4 credits

This course explores life and health insurance. The principles of life and health insurance and their applications are discussed. Students learn how insurance products protect in the event of a death or medical issue. Prerequisite: FIN-350.

### RSM-465: Global Risk Management Practices 4 credits

This course applies risk management concepts to identify and analyze internal and external risks that affect businesses. The course includes in-depth analysis and quantification of an organization's risk profile and explores numerous risk control methodologies as well as methods to finance an organization's risk through various techniques. Prerequisite: FIN-431.

# RSM-485: Implementing Risk Management 4 credits Strategies

This capstone course is the culmination of study into the risk management discipline and provides students with an opportunity to develop and apply the risk management process to an organization. The course includes enterprise risk management (ERM) and organizational risk management (ORM) concepts. The ERM strategies are used to mitigate risks to support company objectives and pursue profitable growth. Prerequisite: RSM-465.

# Space Science (SCE)

## **SCE-300**<sup>\*</sup>: Space Foundations

2 credits

This course provides foundational knowledge of space systems and the science, engineering, economics, history, and policy that underpins contemporary space utilization. Students are exposed to the basic vocabulary and concepts associated with space operations and are prepared to explore the many facets of the space industry. Contemporary issues and opportunities in commercial and military space operations are addressed.

# Science (SCI)

## SCI-150♦: Critical Analyses in Science

4 credits

This course provides an introduction to the analysis skills required for scientific problems. Students will study approaches on inquiry, reasoning, and logic as applied to science, the systematic use of data to make critical decisions, and the expectations of science careers in healthcare or research.

# SCI-210\*: Historical Landmarks in the 2 credits Natural Sciences

This course provides a chronological overview of the most impactful discoveries in the history of the various Natural Science disciplines. Contemporary scientific practice is analyzed in light of this historic framework.

# SCI-211\*: Paradigm Shifts in the Natural 2 credits Sciences

This course provides students with a thorough understanding of the revolutionary theories and paradigm shifts in the Natural Sciences. Historical, societal and philosophical contexts of these revolutionary ideas are analyzed in depth. Prerequisite: SCI-210.

## SCI-220\*: Forensic Photography & 4 credits Reconstruction

This course is designed to introduce students to the use of digital cameras in crime scene documentation and reconstructing the events of a crime based on the evidence recovered from the scene. In the first half of the course, students will learn how to manually operate digital cameras and how to photograph different types of crime scenes and evidence under various conditions. In the second half, students will reconstruct the events of a crime using the scene evidence, basic evidence processing, and deductive logic.

### SCI-255♦: Crime Scene Processing 3 credit

This course focuses on the logic and critical analysis of assessing and reconstructing crime scenes. Topics covered include the use of techniques such as photography, rough sketch, refined sketch, CAD programs, evidence-based crime scene reconstruction, and thorough report writing. Topics such as evidence processing, maintaining chain of custody, court testimony, and the ethical considerations in forensic work are also covered. Prerequisite: SCI-220. Co-Requisite: SCI-255L.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SCI-255L<sup>♦</sup>: Crime Scene Processing Lab

1 credits

Students use critical/ logical thinking skills to reconstruct a variety of crime scenes and then record the crime scene using a variety of methods. Accurate presentations of crime scenes are evaluated as a measure of quality assurance and are required for successful completion of the course. Students must refine a crime scene rough sketch to a detailed (refined) sketch and produce a written report of the crime scene processing that occurred. Prerequisite: SCI-220. Co-Requisite: SCI-255.

## SCI-300L: Laboratory Safety and Supervision 1 credits

This course surveys accepted safety principles in classroom laboratories and their impact on the learning environment. Students design a capstone lab learning unit in a science discipline that incorporates proper lab safety protocols. Prerequisites: CHM-115 and CHM-115L.

## SCI-318<sup>♦</sup>: Research Methods & Design 2 credits

This course reviews and reinforces the fundamental components of the scientific method. Emphasis will be placed on analysis of scientific literature, with discussion of hypotheses, experimental design, results, and possible alternative explanations and experiments. Students will learn to critically review current scientific literature and apply these examples to the proper design of novel experiments. Prerequisites: BIO-181 and BIO-181L.

# SCI-328<sup>Δi</sup>: Science Methods and 4 credits

This writing intensive course requires students to analyze and apply the scientific method in the context of the scientific literature and other science communications. Students will read and understand primary literature and will apply the fundamentals of scientific writing and presentation. Prerequisites: BIO-182 and BIO-182L.

# SCI-328HN<sup>Δ/s</sup>: Science Methods and 4 credits Communication

This writing intensive course requires students to analyze and apply the scientific method in the context of the scientific literature and other science communications. Students will read and understand primary literature and will apply the fundamentals of scientific writing and presentation. Prerequisites: BIO-182 and BIO-182L.

## SCI-330\*: Physical Evidence Analysis 3 credits

Students explore the fundamentals of evidentiary recovery of materials at crime scenes, methods for analysis of evidence at the scene and in the crime laboratory, maintaining a chain of custody, and quality assurance. Emphasis is placed on analytical and comparative analyses conducted at the crime laboratory.

Prerequisite: SCI-255 & SCI-255L. Co-Requisite: SCI-330L.

## SCI-330L\*: Physical Evidence Analysis Lab 1 credits

The laboratory section of SCI-330 reinforces and expands learning of principles introduced in the lecture course. The laboratory focuses on the collection and laboratory analysis of various types of forensic evidence that are commonly encountered at crime scenes. Prerequisite: SCI-255 & SCI-255L. Co-Requisite: SCI-330.

## SCI-480: Methods of Teaching Science in Secondary Schools

This course is designed to acquaint the secondary teacher with the curriculum and effective pedagogical techniques for the teaching of science. Learners demonstrate understanding of key science concepts and apply research-based strategies and approaches to unit design and lesson planning, utilizing instructional models discussed in the course. This course includes laboratory experiences through field experiences. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SCI-211.

4 credits

# SCI-495 $^{\Omega \bullet}$ : Capstone Project in the Sciences 4 credits

The capstone project is a culmination of the learning experiences while a student in the science programs at Grand Canyon University. Students discuss and write on current topics in their field and prepare an extensive written scientific report or proposal on select topics on the sciences, relevant to their program of study. The capstone project needs to reflect synthesis and integration of course content and good scientific practice. This is a writing intensive course. Prerequisite: Senior status.

# SCI-498 $^{\Lambda\Omega}$ : Senior Capstone in Forensic 4 credits Science

The writing intensive, capstone course provides an opportunity for students to make contact with practitioners, investigate special topics or specific areas of interest in forensic science, and potentially participate in hands-on application through research or internship experiences. Students are expected to address a critical issue in evidence and forensic science. Skills in critical thinking, analysis, and application of learned material are key to success in this course. As part of the final process, students must prepare a written report and orally present their findings in an end-of-course seminar that is open to the public. Prerequisites: SCI-330 and SCI-330L.

# Supply Chain Management (SCM)

## SCM-400: Global Supply Chain Operations 4 credits

This course provides an introduction to the theories and practices of global supply chain and operations management, as well as an understanding of basic tools and methods of managing operations and supply chains. Students apply critical thinking skills to solve business problems using industry-accepted operations management techniques. Prerequisite: BUS-352 or ESG-374.

### SCM-410: Lean and Quality Management 4 credits

This course examines quantitative and qualitative continuous process improvement techniques, including statistical process control (SPC), Six Sigma, and lean, and managing change with improvement initiatives. Students identify a project, apply the correct tools, and manage a process improvement project. Prerequisite: BUS-352 or ESG-374.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# SCM-450: Procurement and Global Supply 4 credits Chain Management

This course covers the concepts of purchasing, inventory management, and logistics in a supply chain. Students focus on both upstream and downstream activities related to the full supply chain cycle, including contracting and negotiating activities. Prerequisite: SCM-400.

# SCM-452: Global Logistics and 4 credits Transportation Management

This course focuses on managing both inbound and outbound transportation of materials and finished goods domestically and internationally. Students learn and apply logistics models and tools to solve distribution problems in the supply chain. Prerequisites: BUS-352, MAT-154, and SCM-400.

# SCM-454: Manufacturing Planning and 4 credits Control Systems 4

This course focuses on the tactical use of planning and control tools and systems to effectively manage resources in a manufacturing operation as part of a supply chain. Students examine the overall function of planning and control systems with detailed application of management tools within the production life cycle. Prerequisite: SCM-400.

# SCM-460: Supply Chain Modeling and 4 credits Analysis

This course exposes students to the basic requirements of designing and operating supply chains using a variety of quantitative models for analysis. This course emphasizes application, development, and analysis of mathematical models in different supply chain scenarios to solve business problems. Prerequisite: BUS-352, SCM-400, SCM-452.

## SCM-650: The Global Supply Chain 4 credits

This course demonstrates the global picture of supply chain, but also the impact of supply chain globally. Students use models, tools, and continuous improvement techniques to identify and recommend improvement opportunities to strengthen supply chain performance.

# SCM-660: Strategic Supply Chain 4 credits Management

This course focuses on the application of theories and practices in global supply chain and operations management. Students explore methods and strategies that drive the creation of value and competitive advantage within the supply chain. Prerequisite: SCM-650.

# School Counseling (SCN)

# $SCN-501^{\Omega}$ : Introduction to Graduate Studies 3 credits and Foundations of School Counseling

This course begins by acquainting counselors in training with the GCU learning management system, while preparing them to be successful graduate-level counselors in training and future school counselors. Beginning with the history of school counselors, counselors in training then explore and self-reflect on the needed traits to be effective school counselors in a PK-12 setting. An introductory discussion on ethics, credentialing and licensure, and professional organizations, particularly the American School Counseling Association (ASCA), rounds out the course. Practicum/field experience hours: None. Fingerprint clearance not required.

# SCN-505<sup>\Omega</sup>: Organization and Administration of a School Counseling Program

This course presents an overview for developing, implementing, and maintaining a school counseling program in the PK-12 setting. Theoretical frameworks of comprehensive school counseling programs are introduced, including a specific focus on the American School Counseling Association (ASCA) National Model for developing a comprehensive school counseling program. Topics include multicultural organizational development, school-based consultation, working in multidisciplinary teams, ethical and legal issues, and advocacy leadership. Practicum/field experience hours: None. Fingerprint clearance required.

## SCN-510 $^{\Omega}$ : Counseling for College and Career 3 credits

This course emphasizes the vital role school counselors play in helping students envision their postsecondary school careers. Theoretical models of career counseling are presented, as well as the development of comprehensive, holistic career development programs; career exploration strategies for PK-12 students; and the utilization of career selection tools and materials. Ethical and legal considerations are also explored, including special considerations for meeting the needs of specific populations within the PK-12 school settings. Practicum/field experience hours: None. Fingerprint clearance required.

## SCN- $600^{\Omega}$ : School Counseling Practicum 3 credits

This course is a supervised field experience that takes place in either an elementary, middle, or high school setting. During this experience, school counselors in training (SCITs) engage in dayto-day counseling routines and apply listening skills, helping theories, and techniques. The practicum is performed under the supervision of a faculty member and a clinical site supervisor approved by the college or university. Documentation of 100 hours (40 of the 100 hours must be direct service) of school counseling related activities is submitted electronically for verification and tracking. State licensure requirements may mandate additional hours. SCITs must review and adhere to their state board's additional requirements. Practicum/field experience hours: 100. Fingerprint clearance required. Prerequisites: CNL-500, CNL-505, CNL-509, CNL-515, SCN-501, and SCN-505; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

SCN-620 $^{\Omega}$ :

In this internship course, school counselors in training (SCITs) engage in comprehensive work through direct service contact with students, families, and school personnel. The internship is performed under the supervision of a faculty member and a clinical site supervisor approved by the college or university. Documentation of 200 hours (80 of the 200 hours must be direct service) of school-counseling-related activities is submitted electronically for verification and tracking. State licensure requirements may mandate additional hours. SCITs must review and adhere to their state board's additional requirements. SCITs may not progress to the SCN-615 School Counseling Internship II course without the required field experience hours submitted and successful completion of all course requirements in the SCN-605 School Counseling Internship I course. No practicum or internship courses may overlap or be taken concurrently. Practicum/field experience hours: 200. Fingerprint clearance required. Prerequisites: CNL-518, CNL-520, and SCN-600; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

# SCN-610<sup>\Omega</sup>: Contemporary Issues in School 3 credits Counseling

This course provides an overview of current issues facing school counselors in the PK-12 setting. Strategies for addressing various problems are explored. Topics include bullying and violence prevention, supporting impoverished and marginalized students, and the increasing role of data and accountability in schools, among others. Candidates explore these present and pressing issues and determine their roles as responsive and flexible professionals in addressing issues as they occur. Practicum/field experience hours: None. Fingerprint clearance required.

## SCN-615 $^{\Omega}$ : School Counseling Internship II 3 credits

In this internship course, school counselors in training (SCITs) engage in comprehensive work through direct service contact with students, families, and school personnel. The internship is performed under the supervision of a faculty member and a clinical site supervisor approved by the college or university. Documentation of 200 hours (80 of the 200 hours must be direct service) of school-counseling-related activities is submitted electronically for verification and tracking. State licensure requirements may mandate additional hours. SCITs must review and adhere to their state board's additional requirements. SCITs may not progress to the SCN-615 School Counseling Internship II course without the required field experience hours submitted and successful completion of all course requirements in the SCN-605 School Counseling Internship I course. No practicum or internship courses may overlap or be taken concurrently. Practicum/field experience hours: 200. Fingerprint clearance required. Prerequisites: Prerequisites: SCN-605 and SCN-610; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

This course provides an overview of various tests and measurements commonly used in education. Beginning with basic statistical concepts, counseling interns explore how assessments can inform education and counseling practices. Topics cover aspects of creation, administration, and interpretation of various assessments in PK-12 setting, including discussions of standardized tests, intelligence and aptitude tests, and college and career assessments. Practicum/field experience hours: None. Fingerprint clearance required.

## SCN-625<sup>Ω</sup>: School Counseling Internship III 3 credits

In this final internship course, school counselors in training (SCITs) engage in comprehensive work in which they have the opportunity to be in direct service contact with students, families, and school personnel. The internship is performed under the supervision of a faculty member and a clinical site supervisor approved by the college or university. Documentation of 200 hours (80 of the 200 hours must be direct service) of schoolcounseling-related activities is submitted electronically for verification and tracking. State licensure requirements may mandate additional hours. SCITs must review and adhere to their state board's additional requirements. The SCN-625 School Counseling Internship III course may not be taken until the completion of all didactic coursework in the program of study including SCN-600, SCN-605, and SCN-615. SCITs may not complete the school counseling program without the required field experience hours submitted and successful completion of all course requirements in the School Counseling Internship III course. No practicum or internship courses may overlap or be taken concurrently. SCITs must pass their state's credentialing exam(s) and are required to submit official attempts/successful exam score reports before enrolling in the SCN-625 School Counseling Internship III course. Refer to the University Policy Handbook for further details. Practicum/field experience hours: 200. Fingerprint clearance required. Prerequisites: Enrollment in SCN-625 is contingent upon the successful completion of all didactic and field experience coursework in the School Counseling program of study. This course must be scheduled as the final course.; a GPA of 3.0 or better; maintenance of student professional liability insurance in the amount of \$1 million, \$3 million; and college approval.

# Software Design and Architecture (SDD)

### SDD-610: Software Design and Architecture 4 credits

This course involves the study of UML, design patterns, software design principles, and system architecture. Also covered are the study and concepts related to architecture frameworks, technical communication, making informed ethical decisions during the software design phase, and future trends in software design. Prerequisite: SWE-520.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# Software Design and Development (SDD)

# SDD-620: Advanced Database Design and 4 credits Administration

This course involves the study of concepts, principles and scope of advanced database design and administration. This course includes conceptual, logical, and physical database design, database analysis and selection during the software design phase, and typical administrative database duties that include but are not limited to user administration, performance tuning, and backup/restore. Also covered are the study of how to make informed ethical decisions during the software design phase and the future trends in database design. Prerequisite: Prerequisite: SWE-540.

## SDD-630: Mobile Software Development 4 credits

This course involves the study of the design and development of mobile applications. Students will learn how to build a user interface and connect it to programmable events, integration of various mobile phone services, working with data in local databases and remote servers, and the best practices of software design in the mobile environment. Prerequisite: SWE-520.

## SDD-640: Secure Coding 4 credits

This course involves the study of concepts, principles, and best secure coding practices for software developers. The course studies the most common vulnerabilities found in application code along with the tools and techniques for identifying and resolving those vulnerabilities. Prerequisite: SDD-630.

# SDD-680: Software Maintenance and Testing 4 credits

This course involves the study of concepts, processes, tools, and best practices when maintaining and testing existing software. Prerequisite: SDD-640.

# Secondary Education (SEC)

# SEC-201\*: Early Adolescent and Adolescent 4 credits Psychology

This course is designed to assist teacher candidates in understanding theories and principles of psychology that describe the growth and development of early adolescents and adolescents, including cognitive, linguistic, social, emotional, and physical areas. This course enables teacher candidates to build foundational knowledge for constructing learning opportunities and environments that support individual students' development, acquisition of knowledge and skills, and motivation. Practicum/field experience hours: 5. Fingerprint clearance not required.

# SEC-202: Psychology for Secondary Educators

4 credits

This course is designed to assist teacher candidates in understanding theories and principles of psychology that describe the growth and development of early adolescents and adolescents, including cognitive, linguistic, social, emotional, and physical areas. Candidates build foundational knowledge for constructing learning opportunities and environments that support individual students' development, acquisition of knowledge and skills, and motivation. Practicum/field experience hours: 15. Fingerprint clearance required.

# SEC-345: Content Area Literacy for Middle 4 credits and Secondary Teachers

In this course, teacher candidates evaluate and utilize methods and materials for reading and writing in order to teach literacy skills in the middle and secondary grades. Emphasis is placed on making meaning from a variety of text sources including young adult literature, technical, informational, environmental, and media. Candidates design content-based reading and writing experiences using diverse works for adolescents, focused text selection, and electronic database media resources for middle-and secondary-grade classrooms. A focus on language and cultural diversity is included. Practicum/field experience hours: 15. Fingerprint Clearance required.

# SEC-350: Differentiated Literacy Instruction: 4 credits Assessment, Remediation & Intervention

Teacher candidates explore instructional strategies for delivering differentiated instruction to promote reading and writing proficiency. Language and literacy development is examined to inform assessment, intervention, and remediation practices to support middle to high school readers of diverse ability levels, including students with dyslexia and other reading disabilities. Using this foundational knowledge, teacher candidates will select, adapt, and use research-based instructional strategies and interventions with attention focused on literacy in academic curricula to advance learning for adolescent students. Practicum/field experience hours: 15. Fingerprint clearance required.

# SEC-351: Lit Instruction: Assessment, 4 credits Remediation & Intervention for Secondary Ed

Teacher candidates explore research-based instructional strategies for delivering differentiated instruction to promote reading and writing proficiency during content area instruction. Language and literacy development is examined to inform instruction, assessment, intervention, and remediation practices to support readers of varying ages and ability levels, including students with dyslexia and other reading disabilities. Using this foundational knowledge, candidates will select, adapt, and use research-based instructional strategies and interventions with attention focused on literacy in academic curricula to advance learning for adolescent students. Practicum/field experience hours: 20. Fingerprint clearance required. Fingerprint clearance required. Prerequisite: SEC-202.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# SEC-355: Middle and Secondary Curriculum 4 credits and Assessment

In this course, teacher candidates differentiate instruction based on knowledge of students, learning theory, and curricular goals. Major emphasis is given to planning instructional objectives and lessons, sequencing, and assessing objectives, utilizing formal and informal assessment strategies that address individual students' needs. Practicum/field experience hours: 5. Fingerprint clearance required. Prerequisite: SEC-201.

# SEC-356: Curriculum and Assessment for 4 credits Secondary Educators

In this course, teacher candidates differentiate instruction based on knowledge of students, learning theory, and curricular goals. Major emphasis is given to planning standards-based instructional objectives and lessons, sequencing, and assessing learning, utilizing formal and informal assessment strategies that address individual students' needs. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: SEC-202.

# SEC-450: Data-Driven Instructional Methods 4 credits for Middle and Secondary Teachers

In this course, teacher candidates study methods and materials related to teaching middle- and secondary-grade students. Emphasis is placed on using data to evaluate and modify instruction. Teaching methodologies encourage problem solving, active participation, meeting diverse students' needs, and professional collaboration. Practicum/field experience hours: 15. Fingerprint Clearance required. Prerequisite: SEC-355.

# SEC-451: Data-Driven Instructional Methods 4 credits for Secondary Educators

In this course, teacher candidates study methods and materials related to teaching secondary-grade 6-12 students. Emphasis is placed on analyzing data to evaluate and modify instruction. Candidates look at methodologies that encourage problemsolving, active participation, meeting diverse students' needs, and professional collaboration. Focus is also placed on the practical applications of using all available data, including behavioral data, to drive instructional decisions. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: SEC-356.

# SEC-455: Classroom Engagement and A credits Management for Middle and Secondary Teachers

This course prepares teacher candidates to create and manage positive, productive middle- and secondary-grade classroom environments with diverse students. Candidates develop a comprehensive understanding of the learning and behavior principles that underlie effective classroom management and student engagement in order to design and promote an effective classroom management program. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SEC-201.

## SEC-456: Classroom Engagement and Management for Secondary Educators

4 credits

This course prepares teacher candidates to create and manage positive, productive secondary-grade 6-12 classroom environments with diverse students. Candidates develop a comprehensive understanding of the learning and behavior principles that underlie effective classroom management and student engagement in order to design and promote an effective classroom management program. Focus is placed on building a trusting relationship and creating a safe and equitable learning environment. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: SEC-356.

# SEC-490<sup>\Omega</sup>: Student Teaching for Secondary 8 credits Education

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

# SEC-502: Foundations in Secondary 3 credits Education for Graduate Students

Teacher candidates will survey the philosophical, historical, and sociological influences upon which secondary educational theories and practices are constructed and explore a variety of the common issues, trends, and opportunities that professional educators encounter in the field. Emphasis is placed on deepening understanding of personal biases and accessing resources to promote ethical practice, build strong relationships, and uphold the expectations of the profession. Candidates will prepare for the graduate learning experience at Grand Canyon University by developing and strengthening the skills necessary to succeed as graduate students in the College of Education. Practicum/field experience hours: None. Fingerprint clearance not required.

# SEC-505: Adolescent Development and 3 credits Psychology

Teacher candidates will survey how adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, social/emotional, and physical areas. This survey of the seminal concepts, principles, theories, and research related to development of adolescents will allow candidates to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge, and motivation. Practicum/field experience hours: 15. Fingerprint clearance not required. Prerequisite: SEC-501.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Teacher candidates will survey how early adolescents and adolescents grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, social-emotional, and physical areas. This survey of the seminal concepts, principles, theories, and research related to the development of adolescents will allow candidates to build foundational knowledge for constructing learning opportunities that support individual students' development, acquisition of knowledge, and motivation. Emphasis is placed on creating a collaborative environment to enhance student learning and wellbeing. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: SEC-502.

## SEC-510: Creating and Managing Engaging 3 credits Learning Environments

This course is designed to allow the teacher candidate the opportunity to learn techniques involved in the successful engagement and management of a learning environment. Major emphasis is placed to the establishment of a realistic discipline plan to manage student behavior, as well as engagement and management techniques and strategies to maximize instructional time, classroom procedures, and physical space. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SEC-501 or SEC-502 or approved enrollment in the Graduate Certificate of Completion Canyon L.E.A.P. to Teach, Secondary Education.

# SEC-511: Creating & Managing Engaging 3 credits Learning Environments for Secondary Educators

Teacher candidates will have the opportunity to explore techniques involved in the successful engagement and management of a learning environment. Major emphasis is placed on the establishment of a realistic plan to actively and equitably engage learners, as well as management techniques and strategies to maximize instructional time, the effectiveness of classroom procedures, and the physical and virtual environment. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: SEC-502.

# SEC-515: Assessment and Evaluation for 3 credits Middle and High School Teachers

Teacher candidates will investigate multiple methods of assessment that support student engagement, monitoring student progress, and guiding decision-making. Candidates will build foundational knowledge regarding formal and informal assessment strategies for planning, evaluating, and strengthening instruction to promote continuous intellectual, social, emotional, and physical development of each student. Practicum/field experience hours: 15. Fingerprint clearance required.

# SEC-516: Assessment and Evaluation for Humanities Teachers

Teacher candidates will investigate multiple methods of assessment that support student engagement, monitor student progress, and guide decision-making, specifically to Humanities classrooms. Candidates will build foundational knowledge regarding formal and informal assessment strategies for planning, evaluating, and strengthening instruction to promote continuous intellectual, social, emotional, and physical development of each student. Practicum/field experience hours: 10. Fingerprint clearance required.

3 credits

# SEC-517: Assessment and Evaluation for 3 credits STEM Teachers

Teacher candidates will investigate multiple methods of assessment that support student engagement, monitor student progress, and guide decision-making, specifically to STEM classrooms. Candidates will build foundational knowledge regarding formal and informal assessment strategies for planning, evaluating, and strengthening instruction to promote continuous intellectual, social, emotional, and physical development of each student. Practicum/field experience hours: 10. Fingerprint clearance required.

# SEC-518: Assessment and Evaluation for 3 credits Secondary Educators

Teacher candidates will investigate multiple methods of assessment that support student engagement, monitor student progress, and guide instructional decision-making. Candidates will build foundational knowledge regarding various assessment strategies for planning, evaluating, and strengthening instruction to promote the continuous cognitive, social, emotional, and physical development of each student. Focus will be placed on differentiating assessments to meet diverse student needs. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: SEC-583.

# SEC-520: Integrating STEM Methods for 3 credits Middle and High School Instruction

Teacher candidates examine fundamental concepts of science, technology, engineering, and mathematics. Candidates also build foundational content knowledge in core academic areas and utilize student-centered and inquiry-based instructional strategies to apply the engineering process and scientific methods across disciplines. Candidates explore and implement various ways to problem solve with analysis and critical thinking. Additionally, teacher candidates develop skills for integrating engineering and technology concepts into math and science curriculum for middle and high school students. Practicum/field experience hours: 12. Fingerprint clearance required. Practicum/field experience hours: 12. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# SEC-525: Methods and Strategies for Middle 3 credits and High School Teachers

This course is designed to foster application of proven teaching and learning methodologies for both instructor and student in order to make appropriate and data-driven decisions about all aspects of teaching. Major emphasis is focused on planning instructional objectives and lessons, assessing objectives, and developing teaching methodology that encourages problem solving, active participation, and assessment. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SEC-515 or SEC-516 or SEC-517.

# SEC-526: Instructional Methods and 3 credits Strategies for Secondary Educators

Teacher candidates explore and apply research-based teaching and learning methodologies to make appropriate and data-driven decisions about all aspects of teaching, including how to integrate cross-disciplinary skills and technology. Major emphasis is placed on planning instruction and assessment that encourages problem-solving, active participation, and collaboration. Candidates focus on developing life-long learners who are self-directed and motivated. Practicum/field experience hours: 20. Fingerprint clearance required. Prerequisite: SEC-518.

# SEC-530: Integrating Humanities Methods 3 credits for Middle and High School Instruction

Teacher candidates examine a variety of instructional strategies to encourage students to develop a deeper understanding of the major concepts contained within Social Studies, English Language Arts, and the Arts through modes of inquiry from the integrated study of history, geography, the social sciences, reading, writing, oral language, and their influences that build skills to apply knowledge in meaningful ways. Teacher candidates integrate instructional content, academic functions, formative and summative assessments, media and technology to engage learning. Teacher candidates apply their foundational knowledge of reading, language, and child development to teach reading, writing, speaking, viewing, listening, and comprehension skills to middle and high school students. Candidates also help these students successfully apply their developing skills to different situations, materials, and ideas. Practicum/field experience hours: 11. Fingerprint clearance required.

## SEC-540: Adolescent Literacy 3 credits

This course is designed to develop a broad range of research-based reading methodologies to enhance the learning strategies of middle and secondary school students. Major emphasis is placed on the use of reading strategies for culturally and socially diverse classrooms, including the use of literacy-based instruction in all content areas and understanding, evaluating, and promoting effective pedagogy in adolescent literacy. The development and use of integrated and thematic approaches of instruction are addressed. Teacher candidates are expected to observe and assist in a grade 5-12 classroom while taking this course. Practicum/field experience hours: 15. Fingerprint clearance required.

## SEC-545: Differentiated Literacy Instruction: 3 credits Assessment, Remediation & Intervention

Teacher candidates explore research-based strategies for delivering differentiated reading instruction to promote reading proficiency. Language and literacy development is examined to inform assessment, remediation and intervention practices to support middle to high school readers and ability levels, including students with dyslexia and other reading disabilities. Using this foundational knowledge, teacher candidates will select, adapt, and use research-based instructional strategies and interventions with attention focused on reading in academic curricula to advance learning for adolescent students. Practicum/field experience hours: 15. Fingerprint clearance required.

# SEC-546: Secondary Literacy Instruction: 3 credits Assessment, Remediation, Intervention

Teacher candidates explore research-based strategies for delivering differentiated reading instruction to promote reading proficiency. Language and literacy development is examined to inform assessment, remediation, and intervention practices to support secondary readers and ability levels, including students with dyslexia and other reading disabilities. Using this foundational knowledge, candidates will select, adapt, and use research-based instructional strategies and interventions with attention focused on reading in academic curricula to advance learning in all content areas for adolescent students. Practicum/field experience hours: None. Fingerprint clearance not required.

# SEC-570: Preparing Secondary Educators for 3 credits Professional Growth and Advocacy

Teacher candidates examine their role in the classroom, school, and community as leaders and advocates for all stakeholders. Candidates research and engage in professional organizations, demonstrate leadership, and promote system change. Emphasis is placed on actively participating in collaborative communities and developing a growth mindset. Practicum/field experience hours: 25. Fingerprint clearance required.

# SEC-580: Curriculum and Instructional 3 credits Planning for Middle and High School Teachers

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined. Emphasis is placed on understanding current structures and trends in high schools, as well as critical issues, as these relate to curriculum and assessment. Course content is strategically planned to enable participants to make informed curriculum decisions to meet the needs of a diverse student population. Also emphasized is the alignment of educational objectives to standards and building both formative and summative assessments, including rubrics to analyze student learning. This course focuses on the principles and practices involved in curriculum design. Teacher candidates develop their own curriculum unit. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SEC-540 or SEC-545.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

# SEC-581: Middle and Secondary Curriculum 3 credits and Instruction for Humanities Teachers

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined specific to the areas of Humanities. Emphasis is placed on understanding current structures and trends in middle and high schools, as well as critical issues, as these relate to curriculum and assessment. Course content is strategically planned to enable participants to make informed curriculum decisions in Humanities classrooms to meet the needs of a diverse student population. Also emphasized is the alignment of educational objectives to standards and building both formative and summative assessments, including rubrics to analyze student learning. This course focuses on the principles and practices involved in curriculum design for Humanities classrooms. Teacher candidates develop their own curriculum unit. Practicum/field experience hours: 10. Fingerprint clearance required.

# SEC-582: Middle and Secondary Curriculum 3 credits and Instruction for STEM Teachers

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined specific to the areas of STEM. Emphasis is placed on understanding current structures and trends in middle and high schools, as well as critical issues, as these relate to curriculum and assessment. Course content is strategically planned to enable participants to make informed curriculum decisions in STEM classrooms to meet the needs of a diverse student population. Also emphasized is the alignment of educational objectives to standards and building both formative and summative assessments, including rubrics to analyze student learning. This course focuses on the principles and practices involved in curriculum design for STEM classrooms. Teacher candidates develop their own curriculum unit. Practicum/field experience hours: 10. Fingerprint clearance required.

# SEC-583: Curriculum and Instruction for 3 credits Secondary Educators

Teacher candidates investigate the principles and practices involved in curriculum design for secondary classrooms. Emphasis is placed on understanding alignment between standards, learning objectives, instructional strategies, and assessments. Course content is strategically planned to enable participants to make informed curriculum decisions to meet the needs of a diverse student population. Practicum/field experience hours: 20. Fingerprint clearance required.

# SEC-590 $^{\Omega}$ : Student Teaching: Secondary 8 credits Education

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

# Secondary Education (SED)

## SED-480NA<sup>\Omega</sup>: Student Teaching: Secondary 6 credits Session A

Session A is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

# SED-480NB $^{\Omega\Omega}$ : Student Teaching: Secondary 6 credits Session B

Session B is one of two 8-week sessions of the student teaching experience. Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

# Speech-Language Pathology (SLP)

# SLP-500: Clinical and Research Methods 4 credits

This course introduces learners to the clinical process, including cyclical elements of identification, assessment, and intervention applied to disabilities, delays, and disorders across the life span. Legislative, advocacy, ethics, and reimbursement issues that affect the practice of speech-language pathology are discussed. The course examines the use of research to support evidence-based practices and introduce consumer skills. Prerequisite: Admission to the MS SLP graduate program.

### SLP-510: Articulation and Phonology 4 credits

This course includes an advanced study of the nature, assessment, and treatment of speech disorders in children. Topics include normal aspects of articulation and phonological development, the causes of speech-sound disorders, and phonological assessment practices and intervention strategies that are developmentally appropriate for children. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisite: Admission to the MS SLP graduate program. Prerequisite: Admission to the MS SLP graduate program.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SLP-520: Dysphagia Across the Life Span 4 credits

In this course, learners explore normal and disordered swallowing in adults and children. The course provides learners with the foundational understanding of the anatomy, physiology, and pathophysiology of all stages of swallowing. Learners acquire knowledge in assessment and intervention methods across the life span. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisite: Admission to the MS SLP graduate program.

## SLP-530: Developmental Language 4 credits Disorders: School Age

In this course, learners explore the variety of delays and disorders seen in the school-age population, including an understanding of language, learning, and literacy. Theoretical perspectives and evidence-based approaches to assessment and intervention are examined. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. This course includes a required 3-day, on-campus experience. Prerequisite: Admission to the MS SLP graduate program. Co-Requisite: SLP-530CE.

### SLP-530CE: On-Campus Experience I 0 credits

In this course, learners participate in simulations and hands-on experiences related to the variety of delays and disorders seen in the pediatric population. Theoretical perspectives and hands-on experiences related to evidence-based practice approaches to assessment and intervention are conducted in a safe environment. This course highlights professionalism and service delivery in preparation for practicum placement. The on-campus experience includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisite: Admission to the MS-SLP graduate program. Co-Requisite: SLP-530.

# SLP-540: Cognitive-Communication 4 credits Disorders

In this course learners examine cognitive-communication disorders, including right hemisphere damage, traumatic brain injuries, and degenerative conditions and dementias across the life span. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisites: SLP-530 and SLP-530CE.

# SLP-550: Aphasia and Adult Neurogenic 4 credits Disorders 4

In this course, learners examine the etiology, symptomatology, diagnosis, and treatment of aphasia and related neurogenic disorders as related to community and vocational participation. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisites: SLP-530 and SLP-530CE.

## SLP-560: Motor Speech Disorders 4 credits

This course focuses on the etiology and neuropathology of dysarthria and apraxia of speech in adults and children with corresponding diagnostic and management options. Learners also explore the characteristics, evaluation, and treatment of children with cleft lip, cleft palate, and other craniofacial disorders, highlighting the interdependence of speech, language, hearing, and swallowing. Prerequisites: SLP-530 and SLP-530CE.

## SLP-570: Developmental Language Disorders: Birth – 5 Years

This course focuses on the nature, assessment, and treatment of language disorders in infants and children from birth through 5 years of age. Learners explore evaluation techniques and treatment strategies for improving the receptive and expressive language abilities for infants, toddlers, and preschool-age children. Learners examine family-focused service delivery models within interdisciplinary treatment. Learners build affective counseling skills as fundamental to relationship-based therapy. This course includes a required 3-day, on-campus experience. Prerequisites: SLP-530 and SLP-530CE. Co-Requisite: SLP-570CE.

4 credits

## SLP-570CE: On-Campus Experience II 0 credits

In this course, learners participate in simulations and hands-on experiences related to the variety of delays and disorders seen in the infant population. Theoretical perspectives and hands-on experiences related to evidence-based practice approaches to assessment and intervention are conducted in a safe environment. This course highlights professionalism and service delivery in preparation for practicum placement. The on-campus experience includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisites: SLP-530 and SLP-530CE. Co-Requisite: SLP-570.

### SLP-600: Autism and Neurodiversity 3 credits

In this course, learners explore the etiology and attributes of autism and autism-related disorders and neurodiversity. Theoretical and evidence-based assessment and intervention approaches are examined. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisites: SLP-570 and SLP-570CE.

## SLP-610: Special Populations in Speech-Language Pathology and Clinical Practicum I

In this course, learners explore advanced theory and techniques for the diagnosis and remediation of voice and resonance disorders across the life span. Learners examine advanced theories and techniques of diagnosis and treatment of fluency and stuttering across the life span. This course includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Learners develop skills in clinical assessment and intervention and critical thinking and decision-making. Learners acquire skills in determining goals and objectives, planning for clinical sessions, and utilizing evidence-based practice. In addition, learners develop communication skills with interprofessional team members, patients, and families along with providing counseling and managing behavior with consideration for diversity, equity, and inclusion in all aspects of care. This course includes the first clinical practicum experience. Practicum/field experience hours: 65. Prerequisites: SLP-570 and 570CE. Co-Requisite: SLP-610CE.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## **SLP-610CE:** On-Campus Experience III

0 credits

In this course, learners participate in simulations and hands-on experiences related to the variety of delays and disorders seen in the adult and geriatric populations. Theoretical perspectives and hands-on experiences related to evidence-based practice approaches to assessment and intervention are conducted in a safe environment. This course highlights professionalism and service delivery in preparation for practicum placement. The oncampus experience includes integration of multicultural and multilingual aspects of evaluation, intervention, and counseling. Prerequisites: SLP-570 and SLP-570CE. Co-Requisite: SLP-610.

# SLP-620: Augmentative and Alternative 3 credits Communication

In this course, learners examine the types and uses of augmentative and alternative communication (AAC). Evaluation for AAC device selection and the evaluation of communication using AAC are explored. The principles of AAC intervention for individuals across the life span are covered. Societal perceptions of AAC are addressed. Prerequisites: SLP-610 and SLP-610CE.

## SLP-630: Professional Issues, Cultural 3 credits Considerations, and Ethics

In this course, learners examine issues related to employment settings, vocational exploration and preparation, credentialing, and trends in service delivery. Professional advocacy techniques in the profession of speech-language pathology are included. Prerequisites: SLP-610 and SLP-610CE.

## SLP-650: Clinical Practicum II 7 credits

The purpose of the second clinical practicum is to provide learners with the opportunity to synthesize and apply knowledge and skills from academic coursework into their clinical practice. Learners develop skills in clinical assessment and intervention and critical thinking and decision-making. Learners acquire skills in determining goals and objectives, planning for clinical sessions, and utilizing evidence-based practice. In addition, learners develop communication skills with interprofessional team members, patients, and families along with providing counseling and managing behavior with consideration for diversity, equity, and inclusion in all aspects of care. Practicum/field experience hours: 140. Prerequisites: SLP-610 and SLP-610CE.

## SLP-660: Clinical Practicum III 7 credits

The purpose of this third and final clinical practicum is to provide learners with the opportunity to synthesize and apply knowledge and skills from cumulative academic coursework into their clinical practice. Learners develop skills in clinical assessment and intervention and critical thinking and decision-making. Learners acquire skills in determining goals and objectives, planning for clinical sessions, and utilizing evidence-based practice. In addition, learners develop communication skills with interprofessional team members, patients, and families along with providing counseling and managing behavior with consideration for diversity, equity, and inclusion in all aspects of care. Practicum/field experience hours: 140. Prerequisite: SLP-650.

# Sociology (SOC)

## SOC-100♦: Everyday Sociology

4 credits

This course surveys concepts, theories, and methods of applied sociology in everyday life. Emphasis is placed on demonstrating the impact of sociological concepts on human behaviors and interactions in society.

## SOC-102<sup>♦</sup>: Principles of Sociology 4 credits

This course presents a survey of the concepts, theories, and methods used by sociologists to describe and explain the effects of social structure on human behavior. It emphasizes the understanding and use of the sociological perspective in everyday life.

## SOC-102XV: Principles of Sociology 4 credits

This course presents a survey of the concepts, theories, and methods used by sociologists to describe and explain the effects of social structure on human behavior. It emphasizes the understanding and use of the sociological perspective in everyday life.

### SOC-220<sup>♦</sup>: Social Problems 4 credits

This course provides a survey of the various issues and problems faced by contemporary American society, including crime, drug abuse, sexual variance, poverty, overpopulation, and family relations. Emphasis is placed upon how these problems arise from and are perpetuated by modern social structure.

## SOC-320<sup>/♠</sup>: Marriage and Family 4 credits

This course is designed as a practical look at marriage and family life with emphasis on understanding social science research on marriage and family life and its present and future applications to the lives of students.

# SOC-320HN<sup>\*</sup> •: Marriage and Family 4 credit

This course is designed as a practical look at marriage and family life with emphasis on understanding social science research on marriage and family life and its present and future applications to the lives of students.

## SOC-330<sup>♦</sup>: Globalization 4 credits

This course integrates globalization concepts and theory with the social reality of the global world. The course leads the students to understand globalization's economic, cultural, political, environmental, and social inequality characteristics. Upon completion of the course students gain a definitional and conceptual framework of globalization and its mechanisms. The course places emphasis on the student as a global citizen. Students develop a beginning framework of analysis to engage their global world.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

This course provides the foundation for students to understand the profession of social work, the social welfare system, and social service programs. Students examine the theoretical perspectives of social work and social welfare. They evaluate how historical and theoretical perspectives influence social service systems, practice, and programs. In a broad overview, students examine social work ethics, generalist practice, policy analysis and practice, social service programs, and advocacy.

## SOC-386<sup>△/♦</sup>: Human Behavior and the Social 4 credits Environment

This writing intensive course provides the foundation for the generalist practice of social work. It connects theories from a sociological, psychological, and social work perspective with an emphasis on social systems theory. Students examine personenvironment interactions through a theoretical framework of critical assessment based on systems and roles. In this course, students apply a variety of theories to current social issues. Through the integration and application of social systems theory, students engage in competency-based skill development for generalist social work practice.

# SOC- Human Behavior and the Social 4 credits 386HN<sup>∆/♠</sup>: Environment

This writing intensive course provides the foundation for the generalist practice of social work. It connects theories from a sociological, psychological, and social work perspective with an emphasis on social systems theory. Students examine personenvironment interactions through a theoretical framework of critical assessment based on systems and roles. In this course, students apply a variety of theories to current social issues. Through the integration and application of social systems theory, students engage in competency-based skill development for generalist social work practice.

# SOC- $400^{\Omega \bullet}$ : Social Research and Statistics 4 credits

This course provides an explanation of the various methods used by social scientists to find answers to the questions posed by their subject matter, including basic terminology and concepts and practice using methods such as surveys, experiments, field research, and evaluation research, as well as some unobtrusive methods. An introduction to analysis of data obtained from research is also included.

## SOC-412<sup>♦</sup>: Sociology of Religion 4 credits

This course provides students with a framework to examine religious organizations as a part of a larger social order. It introduces basic concepts in the sociology of religion and briefly surveys the historical and social landscape of religion. The goal of the course is to analyze religious beliefs, practices, and organizations from a sociological perspective, with a primary focus on religion in the contemporary United States.

## SOC-415<sup>♦</sup>: American Minority Peoples 4 credits

This course provides a study of the various minority groups in the United States and their sociological significance in the history of the nation and current culture. The history and status of American immigration policy are also considered.

# This writing-intensive course is a survey of major sociological theories and theorists influencing the discipline of sociology. Immersion in both classical as well as contemporary theoretical perspectives provides a solid foundation to analyze and apply social patterns and forces that influence and shape society.

# SOC- Sociological Theory 4 credits $417\text{HN}^{\Delta f igoplus}$ :

This writing intensive course is a survey of the major theorists whose works and thoughts have influenced and guided the academic discipline of sociology. The emphasis is placed on the founders of sociological theory from the 19th century but attention is also given to those who followed in their footsteps in the 20th and 21st centuries.

# SOC-436<sup>A/•</sup>: Stratification and Inequality in a Diverse Society 4 credits

This writing intensive course examines the theoretical, historical, and conceptual frameworks of social stratification and social inequality within the context of class, race and ethnicity, and gender. Students analyze the effect of historical events upon social inequality and the impact of those events on current trends within social institutions. Students examine strategies for change relative to social inequality and marginalization of diverse groups. Upon course completion, students are able to explain and evaluate the effects of social stratification and inequality on class, race and ethnicity, and gender in the United States. Prerequisite: SOC-400.

# SOC- Stratification and Inequality in a 4 credits 436HN<sup>A/\*</sup>: Diverse Society

This writing intensive course examines the theoretical, historical, and conceptual frameworks of social stratification and social inequality within the context of class, race and ethnicity, and gender. Students analyze the effect of historical events upon social inequality and the impact of those events on current trends within social institutions. Students examine strategies for change relative to social inequality and marginalization of diverse groups. Upon course completion, students are able to explain and evaluate the effects of social stratification and inequality on class, race and ethnicity, and gender in the United States.

## SOC-445\*: Case Management 4 credits

This course introduces the student to entry-level case management skills. Students identify the various roles and functions of a case manager. A primary focus of this course is the case management process, including how to track and manage a client case load. Through case study analysis, students determine appropriate client assessment techniques and problem-solving strategies. Students explore case manager roles and case management styles in a variety of client populations and nonprofit human service agencies. Students learn to differentiate roles, functions, and styles based on their assessment of the client's needs and a clear understanding of the agency's mission, policies, and programs. Prerequisite: SOC-372.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

# **SOC-449\*:** Direct Practice

4 credits

This course introduces the student to the fundamental social work skill of direct practice. The course covers the social work "helping process" as the foundational framework for social work practice. The course teaches basic direct practice skills including—intake, assessment, treatment, evaluation, and termination. The course also exposes students to theory-directed social work practice and cultural competency in interviewing. Prerequisite: SOC-372.

# SOC-480 $^{\Omega \Phi}$ : Sociology and Social Work 4 credits Capstone

This course integrates social work knowledge, skills, theory, evidence-based practice, values, and ethics with sociological concepts of society and culture through the examination of the social work client (individual, family, community, society) experience. The course compares and contrasts social work and sociological concepts with knowledge required for graduate school and careers in the field of social work. The course culminates with a student portfolio that demonstrates acquired skills and knowledge. This capstone course needs to be completed at the end of program. Prerequisites: SOC-372, SOC-400, and SOC-436.

# SOC-481 $^{\Omega \Phi}$ : Sociology Capstone 4 credits

This course culminates in the application of program knowledge and skill acquisition of sociological perspectives and analysis as they relate to the various content areas. Students apply theory and practical application strategies as they complete a research project that demonstrates critical thinking, using both Christian worldview, the scientific method, and sociological theory/perspectives about the effects of society upon human social behavior and human social behavior's impact upon society. Upon course completion, students possess basic skills to engage the social world through a well-developed sociological toolkit. This capstone course needs to be completed at the end of program. Prerequisite: SOC-400.

## SOC-500: Social Theory 4 credits

In this course, students analyze the works of the great thinkers within the field of sociology. The three major schools of thought are examined in depth, including classical and modern theories of sociology. Students select sociological topics and engage in comparative analysis of the theories.

## SOC-502: Sociology Today 4 credits

This course is designed to provide an overview of the field of sociology, especially for those whose previous exposure to sociology was some time ago. The course examines several major areas of interest to sociologists as well as the theories and types of research that sociologists often use to gain new knowledge in this academic discipline.

# SOC-505: Sociology of the Family 4 credits

This course takes a sociocultural perspective on the institution of the family. The role of the family within the functioning of society is examined. The course also compares the institution of the family around the world.

# SOC-510: Stratification from Global Perspectives

4 credits

This course examines social stratification within specific countries and around the globe. The course focuses on world poverty, world political order, and social justice on the world stage.

## SOC-515: Social Change and Development 4 credits

The course takes a sociohistorical perspective on societal change. An in-depth look at how social movements create or resist social change is provided.

# SOC-520: Sociology and Pedagogy in the University 4 credits

This course explores the intersection of sociology and pedagogy in the university setting. Pedagogical theory and elements of sociology are examined. Through pedagogical analysis, students look at the discipline of sociology and build a pedagogy for sociology in the university setting. The course uses an Introduction to Sociology textbook to analyze and scaffold an Introduction to Sociology course.

# Spanish (SPA)

# SPA-104<sup>♦</sup>: Elementary Spanish I 4 credits

This course builds a foundation in the language development skills of listening, speaking, reading, and writing. The course textbook is supported by an extensive workbook and online lab which allows students to hear Spanish spoken by native speakers. Students practice their spoken Spanish through face-to-face activities or by recorded wave files. Additionally students are prompted to growth in global awareness through participation in cultural events in their communities, reviewing movies set in Hispanic cultural settings, and reading books in English by Hispanic authors about Hispanic culture.

## SPA-105<sup>♦</sup>: Elementary Spanish II 4 credits

This course is a continuation of SPA-104. Prerequisite: SPA-104.

### SPA-214<sup>♦</sup>: Intermediate Spanish I 4 credits

This course further builds Spanish vocabulary and language structure. Oral practice, short compositions, textbook readings, and cultural activities are stressed. Will include some study of Spanish-language cultures. Prerequisite: SPA-105.

### SPA-224<sup>♦</sup>: Intermediate Spanish II 4 credits

This course continues to build on vocabulary, language structure, oration and composition skills. Will include some study of Spanish-language cultures. Prerequisite: SPA-214.

## SPA-309<sup>♦</sup>: Spanish Conversation 4 credits

This course helps students speak with fluency and standard pronunciation, to develop facility in the language, and to become conversant with culture, common expressions, and everyday usage. This course includes some study of Spanish-language cultures. Prerequisite: SPA-224.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **SPA-310**<sup>≠</sup>**+**: **Spanish Composition and** Grammar

4 credits

This course helps the student express a wide range of style in writing: description, narration, persuasion, comparison/contrast, and dialogue through careful drafting and editing of content, grammar, and orthography. It also includes some study of Spanish-language cultures. Prerequisite: SPA-224.

## SPA-310HN<sup>≠</sup> : Spanish Composition and Grammar

4 credits

This course helps the student express a wide range of style in writing: description, narration, persuasion, comparison/contrast, and dialogue through careful drafting and editing of content, grammar, and orthography. Will include some study of Spanishlanguage cultures. Prerequisite: SPA-224.

### **Contemporary Issues**

This course is designed to discuss and analyze contemporary events and issues in the Spanish-speaking world. Prerequisite: SPA-309.

## SPA-320HN<sup>≠</sup>•: Contemporary Issues

4 credits

This course is designed to discuss and analyze contemporary events and issues in the Spanish-speaking world. Prerequisite: SPA-309.

#### **SPA-341**<sup>△</sup>**+**: **Introduction to Literature in** Spanish

4 credits

This writing-intensive course provides an introduction to literary concepts, terminology, and theory with application to poetic, dramatic, and prose texts. This course includes some study of Spanish-language cultures. Prerequisite: SPA-310.

#### SPA-410<sup>ℓΩ</sup>♦: Theory and Methodology for 4 credits **Translation and Interpretation**

This course provides an overview of the historical evolution of translation and interpretation across cultures. It offers important information on the function and feasibility in both fields. Prerequisite: SPA-310.

#### SPA-410HN<sup>≠</sup>•: Theory and Methodology for 4 credits **Translation and Interpretation**

This course provides an overview of the historical evolution of translation and interpretation across cultures. It offers important information on the function and feasibility in both fields.

## SPA-420 $^{\Omega \bullet}$ : Spanish for Professions I

This course introduces practical terminology and professional language in everyday, on-the-job situations from a cross-cultural perspective. Prerequisite: SPA-310.

#### SPA-430 $^{\Omega \bullet}$ : Spanish for Professions II 4 credits

This course further explores practical terminology and professional language in everyday, on-the-job situations from a cross-cultural perspective in various professional fields.

#### SPA-440<sup>†Ω</sup>♦: **Web-Based Resources and Technology for Translation and** Interpretation

This course explores various software used to aid translators and interpreters to work faster and more accurately. Prerequisite: SPA-310.

#### SPA-440HN<sup>≠</sup> •: Web-Based Resources and 4 credits **Technology for Translation and** Interpretation

This course explores software such as SDL Trados and Atril to aid translators to work faster and more accurately.

# SPA-450<sup>ΔΩ</sup>•: Spani<u>sh Capstone</u>

4 credits

4 credits

This writing-intensive course provides an opportunity to produce multiple major works of translation in the areas of: Medical, Legal, Business, and Educational Spanish in both Peninsular and Latin American dialects. This capstone course needs to be completed at the end of program. Prerequisites: SPA-410 and SPA-420.

# Special Education (SPD)

#### SPD-200#: **Survey of Special Education: Mild** 4 credits to Moderate Disabilities

Teacher candidates are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Teacher candidates will identify cognitive, linguistic, social and emotional patterns of learning and development for students with mild to moderate disabilities. Teacher candidates also survey the special education process involving the application of various laws and regulations. Practicum/field experience hours: 5. Fingerprint clearance not required.

#### SPD-200HN<sup>‡</sup>: Survey of Special Education: Mild 4 credits to Moderate Disabilities

Teacher candidates are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Teacher candidates will identify cognitive, linguistic, social and emotional patterns of learning and development for students with mild to moderate disabilities. Teacher candidates also survey the special education process involving the application of various laws and regulations. Practicum/field experience hours: 5. Fingerprint clearance required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## SPD-208\*: Survey of Special Education: Teaching Children with Exceptionalities

4 credits

Teacher candidates are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders.

Teacher candidates will identify preventative and responsive practices related to cognitive, linguistic, social, and emotional patterns of learning and development for students with mild to moderate disabilities. Emphasis is placed on identifying appropriate times to differentiate, modify, or accommodate to support student learning. Teacher candidates also survey the special education process involving the application of various laws and regulations. Practicum/field experience hours: None. Fingerprint clearance not required.

# SPD-300: Professional, Ethical and Legal 4 credits Practices and Policies in Special Education 4

Teacher candidates survey professional ethical principles, professional practice standards, law and regulations that guide special educators. Teacher candidates build upon the foundational knowledge to understand the multiple roles and complex situations of professional practice that require attention to a variety of legal, professional and ethical issues. Practicum/field experience hours: 5. Fingerprint clearance required. Prerequisite: SPD-200.

# SPD-310: Collaborations and 4 credits Communications in Special Education

Teacher candidates survey theories and models for effective collaborations and communications with students with exceptionalities, colleagues, other school professionals, families and community members. In addition, teacher candidates apply collaboration and communication theories and models, incorporating technology, across a wide range of contexts to ensure active involvement in the education process for students with exceptionalities. Practicum/field experience hours: 5. Fingerprint clearance required. Prerequisite: SPD-200.

# SPD-320: Assessment and Eligibility in Special Education: MMD 4 credits

Teacher candidates will investigate diagnostic and assessment tools. Teacher candidates will build foundational knowledge regarding the use of multiple methods of assessment and data-sources for diagnostic and educational decisions for individuals with mild to moderate disabilities. Practicum/field experience hours: 10. Fingerprint Clearance required. Prerequisite: SPD-200.

# SPD-330: Language Development with Mild 4 credits to Moderate Disabilities and Disorders

Teacher candidates examine typical and atypical language development, and associated disabilities and disorders. Teacher candidates investigate the use of augmentative and alternative assistive technology, modifications and accommodations to enhance the communication skills of students with mild to moderate disabilities. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-200.

# SPD-400: Creating and Managing Mild to 4 credits Moderate Learning Environments

Teacher candidates examine how to create safe, inclusive, culturally responsive learning environments through collaboration with colleagues so that individuals with exceptionalities become active and effective learners and develop emotional well-being, positive social interactions, and self-determination. Teacher candidates focus on behavior management, functional behavior assessments, adaptive behaviors, positive behavior interventions and supports, and behavior improvement plans. Practicum/field experience hours: 10. Fingerprint Clearance required. Prerequisite: SPD-320.

# SPD-470: Research-Based Methods for 4 credits Teaching Math to Students with Exceptionalities

Teacher candidates will examine a variety of instructional strategies to encourage individuals with mild to moderate disabilities to develop understandings and connections within the major concepts and procedures that define number and operations, algebra, geometry, measurement, and data analysis and probability and to build skills to apply knowledge in meaningful ways. From this foundational knowledge, teacher candidates select, adapt and use research-based methodologies and interventions in academic and specialized curricula to advance the learning of students with mild to moderate disabilities with focused attention upon mathematics.

Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ELM-210.

# SPD-485<sup>4</sup>: Research Based Instruction, 4 credits Remediation and Intervention in ELA

Teacher candidates explore the language processing requirements of proficient reading and writing, including explicit, systematic, cumulative, and multisensory instruction that integrates listening, speaking, reading, and writing. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. Teacher candidates select, adapt, and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning for all students, including those with mild to moderate disabilities, with attention focused on reading. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: ELM-305 or ELM-315.

# SPD-490B: Student Teaching - K-Grade 12 6 credits Special Education Mild to Moderate Setting 6

This course includes an 8-week full-time student teaching experience in a K-12 special education mild to moderate classroom where teacher candidates engage in experiences that include practical classroom experiences, research, analysis, and teaching to develop an Individualized Education Program (IEP) Performance Ttemplate related to special education services. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SPD-491B: Student Teaching - K-Grade 12 Special Education Mild to

Moderate Setting

This course includes an 8-week full-time student teaching experience in a K-12 special education mild to moderate classroom where teacher candidates engage in experiences that include practical classroom experiences, research, analysis, and teaching to develop an Individualized Education Program (IEP) Performance Template related to special education services. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

6 credits

# SPD-500: Survey of Special Education: Mild 3 credits to Moderate Disabilities

Teacher candidates are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Teacher candidates will identify cognitive, linguistic, social and emotional patterns of learning and development for students with mild to moderate disabilities. Teacher candidates also survey the special education process involving the application of various laws and regulations. Practicum/field experience hours: 6. Fingerprint clearance not required.

# SPD-501: Foundations in Special Education 3 credits Graduate Studies

Teacher candidates will survey the philosophical, historical, and sociological influences upon which special educational theories and practices are constructed, and explore a variety of the common issues, trends, and opportunities that professional special educators face in the field. Special Education Teacher candidates will prepare for the graduate learning experience at Grand Canyon University by developing and strengthening the skills necessary to succeed as graduate students in the College of Education. Practicum/field experience hours: 6. Fingerprint clearance not required.

# SPD-504: Survey of Special Education: 3 credits Autism Spectrum Disorder

This course orients professional educators to the theoretical foundations of autism spectrum disorders (ASD). Educators will focus on the exceptional needs of students with ASD and teacher's responsibilities in determining eligibility and assessment. This course also examines diagnoses and evidence-based practices in the school environment. An emphasis is placed on ethical behaviors and looking at different perspectives within ASD. Practicum/field experience hours: 10. Fingerprint clearance required.

# SPD-505: Foundations in Autism Spectrum 3 credits Disorders

This course orients autism spectrum disorder specialist candidates to the theoretical foundations of autism spectrum disorders (ASD). ASD specialist candidates will focus on the exceptional needs of students with ASD and teacher's responsibilities to determining eligibility and assessment. This course also examines diagnoses and implications in the school environment. Practicum/field experience hours: 10. Fingerprint clearance required.

## SPD-506: Survey of Moderate to Severe 3 credits Special Education 3

Teacher candidates are introduced to the educational needs of students with moderate to severe exceptionalities including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Candidates define low-incidence disabilities and identify cognitive, linguistic, social, emotional and behavioral patterns of learning and development for individuals with moderate to severe exceptionalities. Practicum/field experience hours: 3. Fingerprint clearance not required. Prerequisite: SPD-501.

## SPD-507: Inclusive Practices for Autism 3 credits Spectrum Disorder 3

In this course, professional educators will look at how individuals with autism spectrum disorders (ASD) experience difficulties in the areas of social acceptance and social communication. Emphasis is placed on how interactions with their typically developing peers can allow for opportunities to learn social skills and increase communication skills. Educators will determine the definition of inclusion and research how it impacts students with disabilities. Specific focus is placed on how to support students with ASD in an inclusive environment, including supports in the areas of environmental, social/emotional, behavioral and communication. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-504.

# SPD-508: Survey of Special Education: 3 credits Teaching Children with Exceptionalities

Teacher candidates are introduced to the educational needs of students with mild to moderate disabilities and their families, including the definitions, characteristics, prevalence, causes and educational approaches to these disabilities and disorders. Teacher candidates will identify cognitive, linguistic, social and emotional patterns of learning and development for students with mild to moderate disabilities. Teacher candidates also survey the special education process involving the application of various laws and regulations. Practicum/field experience hours: None. Fingerprint clearance not required.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### SPD-510: Professional, Ethical and Legal **Practices and Policies in Special** Education

3 credits

Teacher candidates survey professional ethical principles. professional practice standards, law and regulations that guide special educators. Teacher candidates build upon the foundational knowledge to understand the multiple roles and complex situations of professional practice that require attention to a variety of legal, professional, and ethical issues. Practicum/field experience hours: 6. Fingerprint clearance not required. Prerequisite: SPD-500 or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate.

#### SPD-511: **Instructional Strategies and** 3 credits **Interventions for Autism Spectrum** Disorder

Professional educators will determine strategies to align with the different ways individuals with autism spectrum disorder (ASD) think, learn, and behave in the classroom. Educators will use differentiated instruction and Universal Design for Learning (UDL) strategies to design interventions based on process, content and product, including specific strategies for engagement and speech and language support. Educators will support an inclusive environment with all instructional strategies. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-507.

#### SPD-512: **Characteristics of Exceptional** 3 credits **Students: Mild to Moderate**

This course explores key characteristics of K-12 students with exceptionalities ranging from mild to moderate. Educators will examine specific learning disabilities, emotional and intellectual disabilities, other health impairments, disorders, traumatic brain injuries, multiple disabilities, and all IDEA classifications they may experience when working as a professional in the field. The course will focus on definitions, causes, prevalence of, and effects that exceptionalities can have on students' development and learning. Research-based instructional and behavior management strategies will be introduced and explored to support working with students with these exceptionalities. Practicum/field experience hours: None. Fingerprint clearance not required.

#### SPD-514: **Foundations in Special Education** 3 credits **Graduate Studies**

Teacher candidates will survey the philosophical, historical, and sociological influences upon which special educational theories and practices are constructed, and explore a variety of the common issues, trends, and opportunities that professional special educators face in the field. Special Education Teacher candidates will prepare for the graduate learning experience at Grand Canyon University by developing and strengthening the skills necessary to succeed as graduate students in the College of Education. Practicum/field experience hours: None. Fingerprint clearance not required.

#### SPD-515: Methods and Assessment for **Autism Spectrum Disorders**

3 credits

The focus of this course is to provide methods for improvement of instruction, based on assessment for students with autism spectrum disorders (ASD). ASD specialist candidates will center on instructional planning, adaptive practices, and intervention strategies established through assessment analysis. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SPD-505.

#### SPD-517: Data-Driven Assessment for Autism 3 credits **Spectrum Disorder**

This course provides professional educators the opportunity to explore how behavioral, academic, and social assessments are used when determining effective instructional strategies and interventions for students with autism spectrum disorders (ASD). A focus is placed on synthesizing data to make instructional decisions that support students in a variety of settings. Educators will look at how to gather data during instruction and monitor progress of students' IEP goals. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-511.

#### Collaborations and SPD-521: 3 credits **Communications in Special** Education

Teacher candidates survey theories and models for effective collaboration and communication with students with exceptionalities, colleagues, other school professionals, families and community members. In addition, teacher candidates apply collaboration and communication theories and models, incorporating technology, across a wide range of contexts to ensure active involvement in the education process for students with exceptionalities. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisite: SPD-510.

#### SPD-525: **Applied Behavior Analysis and** 3 credits **Autism Spectrum Disorders**

The focus of this course is to provide autism spectrum disorders (ASD) specialist candidates with advanced knowledge of applied behavior analysis in regards to accommodations for students with ASD. ASD specialist candidates will focus on assessing individual needs, tools for intervention, and evaluating strategies and student progress. Practicum/field experience hours: 15. Fingerprint clearance required. Prerequisite: SPD-505.

#### SPD-527: **Positive Behavior Support for** 3 credits **Autism Spectrum Disorder**

This course explores how individuals with autism spectrum disorders (ASD) may require specific sensory and behavior supports in order to be successful in the classroom. Professional educators look at Positive Behaviors Interventions and Supports (PBIS), including strategies that encourage and support desired behaviors. Educators will review the principles of PBIS and research interventions and supports for students with ASD in all school environments. Additionally, they will determine how to assess a student and best support their needs when creating behavior accommodations for the inclusion classroom. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-567.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SPD-531: Assessment and Eligibility in Special Educ: Mild to Moderate Disability

3 credits

Teacher candidates will investigate diagnostic and assessment tools. Teacher candidates will build foundational knowledge regarding the use of multiple methods of assessment and datasources for diagnostic and educational decisions for individuals with mild to moderate disabilities. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisite: SPD-500 or SPD-502 or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate or approved enrollment in the Graduate Certificate in Learning Behavior Specialist 1 (LBS 1).

# SPD-535: Policy and Ethics in Autism Spectrum Disorders

3 credits

Autism spectrum disorders (ASD) specialist candidates acquire knowledge of legal policy and ethical practices associated with students with ASD. This course focuses on rights and responsibilities, trends, and advocacy for students with ASD. ASD specialist candidates will also focus on creation and delivery of individualized education plans. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-505.

# SPD-537: Advocacy, Policy and Ethics for Autism Spectrum Disorder 3 credits

Professional educators acquire knowledge of legal policy and ethical practices associated with students with autism spectrum disorder (ASD). This course focuses on rights and responsibilities, trends, and advocacy for students with ASD. Educators will also review creation and delivery of individualized education plans for students with ASD. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-557.

# SPD-540: Learning Environments for 3 credits Students with Mild to Moderate Disabilities

Teacher candidates examine how to create safe, inclusive, culturally responsive learning environments through collaboration with colleagues so that individuals with disabilities become active and effective learners and develop emotional wellbeing, positive social interactions, and self-determination. Teacher candidates focus on behavior management, functional behavior assessments, adaptive behaviors, positive behavior interventions and supports, and behavior improvement plans. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-500 or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate.

# SPD-545: Leadership and Collaboration in Autism Spectrum Disorders 3 credits

Autism spectrum disorders (ASD) specialist candidates acquire a repertoire of skills that enable them to lead and collaborate in an environment focused on students with ASD. ASD specialist candidates develop techniques for professional learning and evidence-based practices centered on learner growth for students with ASD. This course also focuses on mentoring opportunities and community collaboration. Practicum/field experience hours: 5. Fingerprint clearance required. Prerequisite: SPD-535.

# SPD-547: Collaboration and Leadership in 3 credits Autism Spectrum Disorder

This course addresses leadership and advocacy opportunities for professionals working with the many stakeholders involved in the delivery of services for students with autism spectrum disorders. Professional educators describe strategies to promote the advancement of the profession. Collaborative practices with stakeholders, conflict resolution strategies, and creating and sustaining productive work environments will be emphasized. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-537.

# SPD-550: Instructional and Transitional 3 credits Planning for Students with Mild to Moderate Disabilities

Teacher candidates will examine how instructional planning advances the learning of students with mild to moderate disabilities by drawing upon knowledge of central concepts, structures of the discipline, and tools of inquiry of the academic subject-matter content areas and a variety of specialized curricula. Teacher candidates build foundational knowledge about individualized education plans and transition plans for a wide range of settings and different learning experiences. Teacher candidates engage in organizing knowledge, integrating cross-disciplinary skills, and developing meaningful individualized learning progressions through drafting an IEP. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-510 or approved enrollment in the Graduate Certificate in Learning Behavior Specialist 1 (LBS 1).

## SPD-551: Moderate to Severe: Professional, 3 credits Ethical, and Legal Practices

Teacher candidates survey professional ethical principles, professional practice standards, laws, and regulations that guide special educators. Candidates build upon this foundational knowledge to examine the multiple roles and complex situations of professional practice related to individuals with moderate to severe exceptionalities. Practicum/field experience hours: 3. Fingerprint clearance required. Prerequisite: SPD-506 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

# SPD-555: Life Skills and Transitions for Autism Spectrum Disorders 3 credits

This course focuses autism spectrum disorders (ASD) specialist candidates on life skills and transitions for students with ASD. ASD specialist candidates will focus on development of individualized education plans and planning for independent living. Practicum/field experience hours: None. Fingerprint clearance required. Prerequisite: SPD-535.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## SPD-556: Assessment and Eligibility in Moderate to Severe Special Education

3 credits

Teacher candidates investigate diagnostic and assessment tools for determining student eligibility and monitoring for progress. Foundational knowledge is built regarding the use of multiple methods of assessment and data sources for diagnostic and educational decisions for individuals with moderate to severe exceptionalities. Candidates analyze assessment data and develop an individualized education plan (IEP) for a student. Ongoing collaboration with IEP team members and external stakeholders is emphasized. Practicum/field experience hours: 10. Fingerprint clearance required.

# SPD-557: Transitions and Life Skills for Autism Spectrum Disorder 3 credits

This course addresses key requirements of the postsecondary transition plan and collaboration with stakeholders in school and the community. Professionals will learn about age appropriate assessments, aligned activities, and preparation for adult life. In addition, professionals explore postsecondary options, adult services, and living options for adults with autism spectrum disorder. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-527.

# SPD-558: Moderate to Severe: Care, 3 credits Collaboration, and Communication

Teacher candidates explore effective collaboration and communication techniques and strategies used in moderate to severe special education settings. Collaboration among teachers, other school professionals, families, and outside service agencies is analyzed to meet the individual needs of this special population. In addition, evaluation of the techniques and strategies used to meet the unique medical and educational needs of students within the moderate to severe classroom setting is addressed. Practicum/field experience hours: 6. Fingerprint clearance required. Prerequisite: SPD-556.

## SPD-560: Language Development with Mild 3 credits to Moderate Disabilities and Disorders

Teacher candidates examine typical and atypical language development, and associated disabilities and disorders. Teacher candidates investigate the use of augmentative and alternative assistive technology, modifications and accommodations to enhance the communication skills of students with mild to moderate disabilities. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-510.

## SPD-562: Moderate to Severe: Instructional 3 credits Planning, Strategies, and Assessment

Teacher candidates examine how instructional planning advances the learning of students with moderate to severe disabilities by creating a variety of specialized curricula aligned to content standards. Candidates are guided in designing engaging instruction that meets the needs documented in a student's individualized education plan. Plans for accommodations, differentiated instruction, and strategies are identified in the lesson planning process. Formative and summative assessments are created to evaluate student progress and identify if instructional adjustments are necessary. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-558.

# SPD-564: Moderate to Severe: Classroom 3 credits Management and Behavior Analysis

Teacher candidates examine how to create safe, inclusive, culturally responsive learning environments through collaboration with colleagues and other professionals so individuals with disabilities become active and effective learners. Strategies to develop students' emotional well-being, positive social interactions, and self-determination are emphasized. Candidates focus on functional behavior assessments, behavior improvement plans, activities of daily living, and positive behavior interventions and supports. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-562 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

# SPD-565: Communication Strategies and Assistive Tech for Autism Spectrum Disorders

This course explores functional communication training and specific strategies to promote effective communication behaviors or skills of students with ASD. In addition, ASD specialist candidates survey assistive technology in relation to enhancing communication of students with autism spectrum disorders. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-525.

# SPD-566: Postsecondary Transitional 3 credits Planning for Moderate to Severe Exceptionalities

Teacher candidates examine curriculum needs of individuals with moderate to severe disabilities to develop and integrate the skills needed to transition students from the educational environment into successful postsecondary opportunities. Candidates focus on writing measurable postsecondary goals, creating aligned activities, and identifying the importance of family and interagency involvement. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-564.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

## SPD-567: Assistive Tech and Communication 3 credits Strategies for Autism Spectrum Disorder

This course explores functional communication training and specific strategies to promote effective communication behaviors or skills of students with autism spectrum disorder (ASD). In addition, professional educators will survey assistive technology in relation to enhancing communication of students with autism spectrum disorders. Consideration of how to manage challenging expectations, show respect and improve ethical practice to promote advocacy and collaboration will extend to the home environment for life-skill application. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-517.

# SPD-569: Applying Phonics and the Science of Reading in Adaptive Communication 3 credits

Teacher candidates examine typical and atypical language development, and associated disabilities and disorders. Coursework emphasizes research-based phonics development and the science of reading, including phonics, phonemic awareness, vocabulary, fluency, and comprehension. Candidates investigate how speech-language pathologists, special education teachers and others assist individuals with moderate to severe exceptionalities in the use of augmentative and alternative assistive technology, modifications, and accommodations to enhance their communication skills and literacy development. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-566 or approved enrollment in the Graduate Certificate of Completion: Special Education, Moderate to Severe.

# SPD-570: Methods of Teaching Math to Students with Mild to Moderate Disabilities 3 credits

Teacher candidates build foundational knowledge on a variety of research-based instructional strategies to encourage individuals with mild to moderate disabilities to develop understandings and connections within content areas, and to build skills to apply knowledge in meaningful ways. From this foundational knowledge, teacher candidates select, adapt and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning of students with mild to moderate disabilities with focused attention upon mathematics. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: SPD-550 or ESD-530 or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate.

# SPD-572: Moderate to Severe: Methods of Teaching Functional Mathematics and Science

Teacher candidates build foundational knowledge on a variety of research-based instructional strategies to provide individuals with moderate to severe exceptionalities access to content areas. From this foundational knowledge, teacher candidates select and adapt research-based instructional strategies to plan lessons with a focused attention on functional mathematics and sciences. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-568 or SPD-569.

## SPD-575<sup>\Omega</sup>: Capstone in Autism Spectrum 3 credits Disorders

The capstone course provides ASD specialist candidates the opportunity to create a portfolio project that synthesizes major elements of the professional studies program. Practicum/field experience hours: None. Fingerprint clearance not required. Prerequisite: Completion of all other courses required for the Master of Arts in Autism Spectrum Disorders program.

# SPD-577: Capstone and Action Research in Autism Spectrum Disorder 3 credits

This course is the culminating course in the Master of Arts in Autism Spectrum Disorders that emphasizes leadership and advocacy opportunities for professional educators working with the many stakeholders involved in the delivery of services for students with autism spectrum disorders. Educators will develop future professional goals and apply knowledge of professional literature and research to promote professional development opportunities. Collaborative practices with stakeholders, conflict resolution strategies, and creating and sustaining productive work environments will be investigated. Experience will culminate in a completed electronic portfolio. Practicum/field experience hours: 30. Fingerprint clearance required. Prerequisite: Completion of all other courses required for the Master of Arts in Autism Spectrum Disorders program.

# SPD-578: Language Development Through 3 credits Phonics and the Science of Reading

Teacher candidates explore components of typical and atypical literacy development for students with exceptionalities. Coursework emphasizes research-based phonics development and the science of reading, including phonics, phonemic awareness, vocabulary, fluency and comprehension. Teacher candidates focus on assessing developmental and other literacy concerns, including dyslexia, and differentiation strategies to support literacy development in students with exceptionalities. Practicum/field experience hours: 9. Fingerprint clearance required. Prerequisite: SPD-510 or ESD-530.

# SPD-580: Methods of Teaching Lang Arts to 3 credits Students with Mild/Moderate Disabilities 3

Teacher candidates select, adapt and use research-based instructional strategies and interventions in academic and specialized curricula to individualize meaningful and challenging learning for students with mild to moderate disabilities, with an emphasis on literacy. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisite: SPD-550 or ESD-530 or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### SPD-581: Research Based Instruction, Remediation, and Intervention in ELA

tion, 3 credits vention in

Teacher candidates explore the language processing requirements of proficient reading and writing, including explicit, systematic, cumulative, and multisensory instruction that integrates listening, speaking, reading, and writing. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. Teacher candidates select, adapt, and use research-based instructional strategies and interventions in academic and specialized curricula to advance the learning for all students, including those with mild to moderate disabilities, with attention focused on literacy and reading. Practicum/field experience hours: 12. Fingerprint clearance required. Prerequisites: (SPD-550 and SPD-578) or approved enrollment in the Graduate Certificate of Completion: Special Education, Mild to Moderate.

### SPD-585: Educational Psychology for Special 3 credits Education

This course provides a thematically arranged study of the theories and principles of psychology that have influenced instructional practices. Behavioral and cognitive approaches to learning, motivation, and instruction are explored. Practicum/field experience hours: None. Fingerprint clearance not required.

#### SPD-587∆: Research Based Instruction, 3 credits Remediation, and Intervention in Functional ELA

Teacher candidates select and adapt research-based instructional strategies to provide individuals with moderate to severe exceptionalities access to language arts content. With this foundational knowledge, teacher candidates plan a functional approach to literacy instruction. In addition, disabilities, such as dyslexia, are reviewed to understand how they affect the acquisition of reading skills and how they vary in presentation and degree. Teacher candidates select, adapt, and use research-based instructional strategies and interventions in language arts to advance the learning for all students, including those with moderate to severe disabilities, with attention focused on reading. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: SPD-569.

### SPD-590<sup>Ω</sup>: Student Teaching for Special 8 credits Education Teacher Candidates

Teacher candidates are engaged in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop a Student Teaching Evaluation of Performance (STEP). The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Fingerprint clearance required.

### SPD-592: Student Teaching for Special Education: Moderate to Severe

8 credits

This course supports the special education clinical field experience through a full-time student teaching experience. Candidates select a K-Grade 12 special education moderate to severe classroom setting to engage in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to support the creation of a Student Teaching Performance of Evaluation (STEP) and an Individualized Education Program (IEP) Performance Template related to special education services. Fingerprint clearance required.

### SPD-593 $^{\Omega}$ : Capstone in Gifted Education 3 credits

This course provides a reflective, experience-based integration of theory and practice as the culminating experience in the gifted education program. Candidates apply the knowledge and skills they have acquired through their coursework to develop a useful, meaningful, and practical project. Practicum/Field Experience hours: 30. Fingerprint clearance required. Prerequisite: SPD-583.

### SPD-593B: Student Teaching for K-12 Special 6 credits Education: Session B

Session B is one of two 8-week sessions of the student teaching experience. Teacher candidates engage in the student teaching experience that includes practical classroom experiences, research, analysis, and teaching to develop an Individualized Education Program (IEP) Performance Template related to special education services. The teacher candidate will have a GCU course instructor, a GCU faculty supervisor, and be placed in an approved school with a certified cooperating teacher/mentor. Practicum/field experience hours: None. Fingerprint clearance required.

### SPD-595: Methods of Educating Learners 3 credits with Diverse Needs

This course examines methods of educating learners with diverse needs. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, and transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the general classroom. Practicum/field experience hours: 15. Fingerprint clearance required.

### Special Education (SPE)

### SPE-807: Foundations of Special Education 3 credits

This course provides a broad overview of the history and theories of special education. A brief overview of human development, educational standards, and instructional tools is also presented. Prerequisite: RES-811 or RES-850.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### **SPE-812:** Special Education Law

3 credits

This course examines special education law and regulations as a framework for the provision of appropriate educational opportunities for all students. Law as a foundation of best practice is discussed.

### SPE-817: Supervision and Administration of 3 credits Special Education

The course emphasizes analysis of the leadership practices necessary to guide construction of appropriate internal and external frameworks for K-12 educators and students. Within these boundaries, the course addresses student assessment, internal collaboration, and professional development.

### SPE-822: Fiscal Management in Special 3 credits Education

This course examines budgeting, fiscal planning, and grant writing and management in the special education setting. Leadership skills for fiscal management and fiscal integrity are addressed.

#### SPE-827: Perspectives in Special Education 3 credits

This course examines the current and emerging trends and issues in special education within the K-12 setting. Topics are placed in the context of legal compliance and the provision of appropriate educational opportunities for all students. Learners connect these ideas to their research interests to continue developing components of their research prospectus.

### Sports and Entertainment (SPT)

### SPT-230: Introduction to Sports and 4 credits Entertainment Management

This course provides an overview of the business of sports and entertainment, including career opportunities, and a study of the value of professional management to sports and entertainment organizations.

### SPT-350: Sports and Entertainment 4 credits Analytics

This course emphasizes the use of data analytics with a focus on teaching students how to obtain the data, insights, and intelligence needed in every area of sports and entertainment marketing, media, viewership, talent impact, scouting, and sponsorship to most effectively maximize value for brands, rights holders, agencies, and media.

#### SPT-360: Sports and Entertainment Law 4 credits

This course provides an in-depth overview of the legal side of the sports and entertainment industry, including contracts, endorsement deals, riders, unions, ASCAP, BMI, SPAC (standard player agent contract), agent agreements, and league collective bargaining agreements.

### SPT-370: Sports and Entertainment Marketing

4 credits

This course is a study of basic marketing concepts with applications to sports and entertainment organizations. Topics include advertising promotions and public relations, consumer behavior, market segmentation, fan loyalty, strategic market planning, brand communications, branding vs. marketing, and sponsorship. Prerequisites: SPT-230 and MKT-315.

### SPT-375: Sports and Entertainment Event 4 credits Planning

This course provides an introduction to event planning for athletic, live entertainment, and special events. An emphasis is placed on budgeting, site selection, sponsorship, and facility/venue management. Prerequisites: SPT-230 and MKT-315

### SPT-460 $^{\triangle}$ : Sports and Entertainment Revenue 4 credits Generation

This course serves as a culmination of experience in the business and management of sports and entertainment, which includes the gradual development of strategic and forward thinking business plans, as well as focusing on your personal brand. The course is designed to assist students in their career development in the global world of sports and entertainment and to gain a better understanding of business operations and various departments involved in managing and maintaining sports and entertainment entities which lead to revenue generation. Prerequisite: SPT-230.

### Science and Technology (STG)

### STG-110 $^{\Omega}$ : Team Innovation Experience 3 credit

This course will enhance student skills in working with others, communication, project management, self-discipline, and creativity. The TIE is an inquiry-based learning course and lab that integrates multiple academic disciplines to develop and demonstrate a student's critical thinking and problem-solving skills. Students will have the opportunity to examine and work on real world problems. The team project selected will be managed like a business and/or research project; objectives will be set and teams will develop strategies and action plans. Training modules will be conducted for understanding of hypothesis-based research, business and work processes, team effectiveness skills, team diversity, learning style differences, and effective oral and written communications. Co-requisite: STG-110L

### STG-110 $L^{\Omega}$ : Team Innovation Experience Lab 1 credits

This lab course is designed to reinforce principles learned in STG-110. The laboratory reinforces and expands learning of principles introduced in the lecture. Hands-on activities focus on teamwork and cross-disciplinary problem solving. Co-requisite: STG-110.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

This course provides a general background on the field of materials science. The course builds upon prior study of general chemistry and develops the concepts of bonding and the structure of solids. Building on prior study of physics, the course introduces topics in solid state physics and devices. Additional topics may include electronic properties of materials as well as their thermal, mechanical, acoustic, and optical properties. Prerequisites: PHY-122, PHY-122L, CHM-115, and CHM-115L. Co-Requisite: STG-242L.

### STG-242L<sup>\*\*</sup>: Science of Solid Materials Lab 1 credits

The laboratory section of STG-242 reinforces and expands learning of principles introduced in the lecture course. Hands-on activities include applying numerical solutions for properties and characteristics of given materials using data on their properties, and characterization of materials properties for given engineering applications. Prerequisites: PHY-122, PHY-122L, CHM-115, and CHM-115L. Co-Requisite: STG-242.

### STG-330<sup>/♠</sup>: Thermodynamics & Lab 4 credits

This course covers the principles of thermodynamics, including properties of ideal gases and water vapors, and the first and second laws of thermodynamics. Additional topics include closed systems and control volume, basic gas and vapor cycles, basic refrigeration, entropy, and an introduction to thermodynamics of reacting mixtures. Students will analyze simple to complex thermodynamic problems. Prerequisites: MAT-264, PHY-121 and PHY-121L.

#### STG-330HN<sup>\*</sup> •: Thermodynamics & Lab 4 credits

This course covers the principles of thermodynamics, including properties of ideal gases and water vapors, and the first and second laws of thermodynamics. Additional topics include closed systems and control volume, basic gas and vapor cycles, basic refrigeration, entropy, and an introduction to thermodynamics of reacting mixtures. Students will analyze simple to complex thermodynamic problems. Prerequisites: MAT-264, PHY-121 and PHY-121L.

#### STG-345<sup>♦</sup>: Transport Phenomena & Lab 4 credits

This course is a study of fluid mechanics and heat and mass transfer. Topics include principles of momentum, energy, and mass transport, stress and strain rate descriptions, diffusion, calculation of transport coefficients, problems in viscous flow, dimensional analysis, and turbulence. Similarities and differences of the various phenomena are also examined. Prerequisites: PHY-122, PHY-122L, STG-330, and MAT-364.

### STG-350<sup>\*•</sup>: Electromagnetic Fields & Optics 3 credits

This course develops the fundamentals of static electric and magnetic fields, physical optics, and describes the properties of light in terms of electromagnetic waves. Prerequisites: MAT-364, PHY-122 and PHY-122L. Co-Requisite: STG-350L.

### STG-350HN<sup>/♠</sup>:Electromagnetic Fields & Optics 3 credits

This course develops the fundamentals of static electric and magnetic fields, physical optics, and describes the properties of light in terms of electromagnetic waves. Prerequisites: MAT-364, PHY-122 and PHY-122L. Co-Requisite: STG-350L.

### STG-350L<sup>\*†</sup>: Electromagnetic Fields & Optics 1 credits

The laboratory section of STG-350 reinforces and expands learning of principles introduced in the lecture course. Hands-on activities focus on the use of analytical techniques to solve problems and interpret results physically, Smith Chart and its applications to transmission lines, and general solutions of Faraday's Law and Maxwell's equations. Prerequisites: MAT-364, PHY-122 and PHY-122L. Co-Requisite: STG-350.

### STG-380<sup>△/♦</sup>: Ethics and Professionalism in Science and Technology 4 credits

This course surveys key ethics issues in science and technology. Students have the opportunity to explore theoretical concepts in professional ethics. Using case studies, students discuss and evaluate issues in cyber-ethics, network security, privacy and identity theft, intellectual property and ownership rights, digital rights management, professional ethics, and codes of conduct. Students integrate information from multiple sources, loop through feedback and revision cycles to write, and present a code of ethical conduct for science and technology. This is a writing intensive course.

### STG- Ethics and Professionalism in 4 credits 380HN<sup>∆/♠</sup>: Science and Technology

This course surveys key ethics issues in science and technology. Students have the opportunity to explore theoretical concepts in professional ethics. Using case studies, students discuss and evaluate issues in cyber-ethics, network security, privacy and identity theft, intellectual property and ownership rights, digital rights management, professional ethics, and codes of conduct. Students integrate information from multiple sources, loop through feedback and revision cycles to write, and present a code of ethical conduct for science and technology. This is a writing intensive course.

# STG-390<sup>A/\*</sup>: Professionalism in Science & 4 credits Technology-Communications, Conduct and Ethics

This writing intensive course provides an insight into professional communications and conduct associated with careers in science, engineering and technology. Students learn about the changing modes of communication in these disciplines recognizing the advances in digital communications. They gain practical experience developing and supporting a thesis or position through written, oral, and visual presentations prepared and delivered individually and in groups. Students will explore concepts and issues in professional ethics and conduct such as privacy, discrimination, workplace etiquette, cyber-ethics, network and data security, identity theft, ownership rights and intellectual property.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### STG-390HN<sup>Δ/•</sup>: Professionalism in Science & Technology-Communications, Conduct and Ethics

4 credits

This writing intensive course provides an insight into professional communications and conduct associated with careers in science, engineering and technology. Students learn about the changing modes of communication in these disciplines recognizing the advances in digital communications. They gain practical experience developing and supporting a thesis or position through written, oral, and visual presentations prepared and delivered individually and in groups. Students will explore concepts and issues in professional ethics and conduct such as privacy, discrimination, workplace etiquette, cyber-ethics, network and data security, identity theft, ownership rights and intellectual property.

### STG-430: Engineering Project Management 4 credits

This course covers aspects of project management including principles, best practices, and tools and techniques across major methodologies. Prerequisites: STG-110 and STG-110L,

### STG-451 $^{\Delta\Omega}$ : Capstone Project I 2 credits

The first capstone course provides students the opportunity to work in teams to tackle real world applied research and design projects in their chosen area of interest. Students develop a project proposal, conduct a feasibility study, learn to protect intellectual property, develop teamwork skills, budgets, and a schedule for completing the project. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revisions. Students use this course to further develop technical writing and business presentation skills. This is a writing intensive course. Prerequisites: CST-307, CST-315 and department approval.

### STG-452 $^{\Delta\Omega}$ : Capstone Project II 2 credits

The second capstone course provides students the opportunity to implement and present the applied research project designed, planned, and started in the first capstone course. The capstone project is a culmination of the learning experiences while a student in the Computer Science program. Students conduct extensive research, integrate information from multiple sources, and work with a mentor through multiple cycles of feedback and revision. This is a writing intensive course. Prerequisite: Successful completion of STG-451 with a grade of C or better.

### STG-460: Survey of Manufacturing 4 credits Techniques

This course is an overview of manufacturing techniques. Processes may include casting and molding, forming, machining, metrology, welding, joining, and computer-aided manufacturing. Additional topics include product design, material selection, process planning, and manufacturing automation. Process capabilities, limitations, and design for manufacturability will be examined.

### STG-460L\*: Survey of Manufacturing 2 credits Techniques Lab

This course is the lab component of STG-460. In this lab, the topics discussed in the lecture will be applied including casting, welding, machining, brazing, forming, and computer-aided manufacturing. Prerequisite: MET-275. Co-Requisite: STG-460.

### Sustainability (SUS)

#### SUS-501: Sustainability Science and Systems 4 credits

This course delves into the scientific foundations of sustainability, covering topics such as ecology, environmental science, and systems thinking. The course explores the impact of human activities on ecosystems and provides an understanding of biodiversity, conservation, and natural resource management.

#### SUS-502: Foundations of Sustainability 4 credit

This course provides an overview of key sustainability principles, theories, and historical perspectives. Topics include the evolution of sustainability concepts; the interconnectedness of social, economic, and environmental systems; ecological footprinting; and future challenges of sustainability.

#### SUS-510: Climate Change and Resilience 4 credits

This course focuses on the critical issue of climate change and explores climate science, modeling, and the impact of climate change on communities and ecosystems. Strategies for climate change adaptation and mitigation, as well as building resilience, are also covered in the course.

### SUS-520: Sustainable Development and 4 credits Policy

This course focuses on the intersection of sustainability and policy, and it examines principles of sustainable development and analyzes policies and regulations related to sustainability. This course also explores the socio-economic implications of sustainable practices and how to assess and shape sustainability policies.

### SUS-530: Environmental Ethics and Social 4 credits Justice 4

This course explores the ethical dimensions of sustainability and addresses issues of social justice, equity, and environmental ethics. This course also critically examines ethical considerations in sustainability decision-making.

### SUS-540: Sustainable Business Practices and 4 credits Economics

This course explores the economic aspects of sustainability, including environmental economics and sustainable business models. This course also analyzes the economic implications of sustainability practices, exploring models for balancing economic and environmental goals.

### SUS-550: Global Perspectives in 4 credits Sustainability Leadership

This course focuses on developing leadership skills for global sustainability initiatives. This course examines successful sustainability leadership, global challenges, and strategies for leading transformative change.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### SUS-560: Renewable Energy and Sustainable 4 credits Technology

This course covers renewable energy sources and sustainable technologies through the examination of the latest advancements in clean energy, energy efficiency, and sustainable infrastructure. Knowledge of policy, ethics, and business is used to evaluate the real-world application of the various technologies.

#### SUS-590: Capstone Project in Sustainability 4 credits

This course focuses on the evaluation and development of real-world sustainability projects, applying knowledge and skills acquired throughout the program. Emphasis is placed on interdisciplinary collaboration, critical thinking, and presenting sustainable solutions.

### Service Learning (SVL)

### SVL-401: Service Learning 1 credits

The service-learning course is designed specifically for social science students seeking to integrate their academic knowledge with hands-on community engagement. Through a combination of service activities, reflective exercises, and academic discussions, students will gain a deeper understanding of the social issues and challenges faced by their discipline specific communities while developing essential skills for effective civic participation.

### Software Engineering (SWE)

### SWE-310<sup>\*</sup>: Software Engineering I 4 credits

Overview of ethical values for engineering requirements analysis and design of large multifaceted software systems. Introductory discussions on software process models, approaches of project planning, documentation, tracing, quality assurance, and communication. A focused emphasis on project initiation and requirements analysis is taken. Group projects, technical oral and written presentations will be completed throughout the duration of this course. Prerequisite: CST-201.

### SWE-350: Embedded Systems I 4 credits

An introduction to embedded systems, including fundamentals of embedded system hardware and firmware design will be explored. Students will also be introduced to the C programming language in the context of embedded systems software development. A popular microcontroller will be leveraged in the course. The course will culminate with a significant final project which will extend a base microcontroller board that provides a complete practical hardware and software based embedded system. Prerequisite: CST-307.

#### **SWE-410:** Software Engineering II

4 credits

Continuation of the development process, protocols and devices for the implementation, integration, testing and maintenance of large multifaceted software systems. Familiarity with various software development and test environments. Group projects, technical oral and written presentations will be completed throughout the duration of this course. Prerequisite: SWE-310 & CST-215.

#### SWE-450: Embedded Systems II 4 credits

This course is a continuation of embedded system hardware and firmware design. A popular microcontroller is leveraged in the course. Students are also introduced to an assembly language in the context of embedded systems software development. Peripherals, I/O, real time processing, and real-time operating systems are discussed. The architecture and instruction set of the microcontroller are also discussed. This course culminates in a significant final project that extends a base microcontroller board, providing a complete practical hardware- and software-based embedded system. Prerequisite: SWE-350.

### SWE-451: Software Development Life Cycle 2 credits (SDLC) I

An introduction to the Software Development Life Cycle (SDLC), including the various tools, artifacts, and delivery practices will be explored. An overview of team process infrastructure and resource estimation to support appropriate levels of quality is discussed. Traditional system and software delivery methodologies as well as agile and lean delivery methodologies will be discoursed. This course will be comprised of several individual, in-class, and group projects that implement the practices reviewed. Prerequisite: SWE-310.

### SWE-452: Software Development Life Cycle 2 credits (SDLC) II

Continuation of the SDLC process and delivery methodologies, including the various tools, artifacts, and delivery methodologies is explored. Traditional system and software delivery methodologies as well as agile and lean delivery methodologies will be discussed. An understanding of selecting the correct development life cycle (methodology), creating realistic plans, and managing a project team through each project phase is examined. Students must complete a programming project of mid-level complexity and delivery of a sizeable software product by a student team. Prerequisites: SWE-451, SWE-410, CST-307, and CST-315.

### SWE-520: Advanced Software Engineering 4 credits Fundamentals

This course covers leading the Software Development Life Cycle (SDLC) processes: planning considerations for product definition, development, test, implementation, and maintenance. The course also covers software requirements elicitation and architecture synthesis.

### SWE-530: Advanced Software Architectures 4 credits

This course involves the study of concepts, principles, and scope of software system architecture, including architectural styles, languages, leadership in driving architectures, connectors, middleware, dynamism, analysis, testing and domain-specific approaches. Prerequisite: SWE-520.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>f</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### SWE-540: Advanced Software Management & 4 credits Concepts

This course covers theories of management, methodologies, and their application to software projects. It also covers leadership in driving successful teams in SDLC projects, economic analysis of software products and processes, software cost and schedule estimation, planning and control. Prerequisite: SWE-530.

### SWE-550: Software Engineering & Security 4 credits Principles

This course explores the implementation of security best practices from a software engineering perspective. The course also comprehensively explores current initiatives in the industry, such as defensive programming and proper security planning, and focuses on security throughout the entire SDLC process. Prerequisite: SWE-540.

# SWE-560: Research & Review of Emerging 4 credits Technologies in Software Engineering

This course covers the manner and methods software engineers use to research an review current and emerging technologies. Topics explain how the various technologies and implementations could be used. Prerequisite: SWE-550.

### SWE-570: Software Engineering IOT & 4 credits Embedded Systems

This course covers embedded systems and IOT device development. Students will complete activities in which embedded system development is used. Prerequisite: SWE-560.

#### SWE-590: Software Engineering Capstone 4 credits

Students conceptualize, design, and present an innovative idea, process, or a product in the field of software engineering. Projects synthesize and apply knowledge from previous courses and include a scientific report anchored in current theory and research. Prerequisite: SWE-570.

### Social Work (SWK)

### SWK-170: Introduction to Social Welfare 4 credits

This course provides the foundation for students to explain the profession of social work within the social context of the United States. The course explores how society influenced the development of social work as a profession in the United States. Students examine cultural values, social work values, history of social work, and selected theoretical models of social work to demonstrate how these factors influenced the adoption of the general practice framework. In a broad overview, students examine the process to help individuals, families, groups, organizations, and communities evaluate and solve problems, using the micro, mezzo, and macro system levels to assess the problem and make recommendations for interventions.

#### SWK-280: Social Service Delivery Systems 4 credits

This course provides an overview of the purpose, structure, and professional roles of human service agencies, including federal, state, and social service delivery systems. Students explore the delivery of services with special populations. This course requires 25 hours of service-learning experience with course material. Prerequisite: SWK-170.

### SWK-285: Foundations of Social Work 4 credits Practice

This course provides the theoretical and practical foundation for conducting social work with cultural competency. Focus areas include understanding yourself and others from a variety of diverse backgrounds, the importance of ethics and professional behavior, development of effective communication techniques, and beginning case management and helping skills for working with individuals, families, groups, and larger systems. Prerequisite: SWK-280.

### SWK-290: Human Biology and Social Work 4 credits Practice

This course provides the foundation for students to learn and examine the impact of human biology on social work practice. The course explores how the human body's response to differing variables plays a major role in a social worker's approach and ideology to practice. Students examine mental health, varying human biological determinants, faith, and environmental factors that influence both the individual and the practitioner. Understanding how these biological factors influence mental and physical health is vital to a social worker's role in assisting others as they navigate from birth to adulthood and inevitably work through the end-of-life stages. This course looks at the impact of human biology from a micro, mezzo, and macro system level. Prerequisite: SWK-280.

### SWK-330: Diversity, Advocacy, and Social 4 credits Justice in Social Work

This course explores the foundation of knowledge needed to successfully engage diverse populations and advance social justice in social work practice. Emphasis is placed on systems of power and oppression and the cultural aspects of race/ethnicity, gender, sexual orientation, and socioeconomic status. Prerequisite: SWK-280.

### SWK-350 $^{\Delta\Omega}$ : Social Work Ethics and Decision-Making 4 credits

This writing-intensive course explores the history, evolution, and application of values and ethics in social work, reviewing theoretical approaches and decision-making models. Students explore components of professional values, personal values, and self-awareness in their application and demonstration of ethical professional behavior as it relates to the NASW Code of Ethics. Students examine the legal or jurisdictional requirements of licensing boards and the intersectionality with professional ethical behavior. Students develop a method for decision making for ethical dilemmas that occur in social work practice at all levels of practice, including micro, mezzo, and macro levels. Prerequisite: SWK-280.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### SWK-355<sup>△</sup>: Social Welfare Policy and Services 4 credits

This writing-intensive course explores the history and progression of the social welfare system, services, and policies and their effects on the social work profession. Emphasis is placed on an analysis of how these systems impact vulnerable populations, specifically relating to poverty, age, race, sex, and mental health. Students learn to identify strengths and weaknesses of social welfare policies while considering diversity and social justice. Prerequisites: SWK-290, SWK-330, and SWK-350.

#### SWK-360<sup>\*</sup>: Human Behavior in the Social 4 credits Environment I

This course examines human behavior in the social environment by critically analyzing biopsychosocial development. Using an integrative, multidimensional perspective, students examine multiple theories of human behavior. The course emphasizes a social work perspective and key frameworks for social work with an emphasis on person-in-environment and systems theory as they describe diverse human behavior. Prerequisites: SWK-290, SWK-330, and SWK-350.

#### SWK-370<sup>4</sup>: Human Behavior in the Social 4 credits Environment II

This course examines human behavior in the social environment by critically analyzing biopsychosocial development from conception through late adulthood and death. This includes a focus on groups, communities, and organizations and their effect on human behavior. The course emphasizes a social work perspective and key frameworks for social work with an emphasis on person-in-environment and systems theory as they describe diverse human behavior. Prerequisites: SWK-290, SWK-330, and SWK-350.

#### SWK-420: Trauma-Informed Care 4 credits

This course provides an introductory knowledge of trauma-informed care from foundational principles and historical context to practice implementation. The context of trauma is discussed including types of trauma and adverse outcomes related to various systems. It offers an overview of trauma-informed screening, assessment, and treatment. Information is provided on the risk of vicarious trauma and compassion fatigue for providers. Prerequisites: SWK-355, SWK-360, and SWK-430.

### SWK-430: Methods of Research in Social 4 credits Work

This course introduces students to scientific inquiry and the research process used to evaluate and inform the social work profession. Methods of both quantitative and qualitative data collection methods and analysis are explored. Prerequisites: SWK-290, SWK-330, and SWK-350.

### SWK-450: Program Management and Leadership in Social Work

SWK-430.

This course explores the complexities of leadership and management in the profession of social work, reviewing theoretical approaches and practices. Students examine various components of leadership including leadership styles, self-awareness, motivational methods, financial management, accountability in management, and vulnerability. Students learn to consider the power differential, courage, exploration of the self, life experience, and the impact of these components on the

4 credits

# SWK-455': Generalist Social Work Practice I: 4 credits Working with Individuals and Systems

supervisory relationship. Prerequisites: SWK-355, SWK-360, and

This course introduces students to the fundamental skills of social work direct practice for individuals and family systems within the general practice framework. Students demonstrate a mastery of the social work "helping process." Students learn, practice, and reflect on their interaction skills within the intake, assessment, treatment, evaluation, and termination process with individuals and families. Students develop skills that are culturally responsive and ethical. Special attention is given to human diversity and populations at risk. Prerequisites: SWK-370, SWK-420, and SWK-450. Co-Requisite: SWK-470.

### SWK-460\*: Generalist Social Work Practice II: 4 credits Groups, Communities, and Organizations

This course introduces students to the fundamental skills of social work direct practice for groups, communities, and organizations within the general practice framework. Students demonstrate a mastery of the social work "helping process." Students learn, practice, and reflect on their interaction skills within the intake, assessment, treatment, evaluation, and termination processes with groups and organizations. The course reinforces a variety of organizing, builds a variety of social work practice theories, and broadens the concept of cultural humility and reflective attentiveness. Prerequisites: SWK-455 and SWK-465 and SWK-470. Co-Requisite: SWK-480.

### SWK-465: Case Management 4 credits

This course introduces students to case management skills. Students identify the various roles and functions of a case manager. A primary focus of this course is the case management process, including how to track and manage a client case load. Through case study analysis, students determine appropriate client assessment techniques and problem-solving strategies. Students explore case manager roles and case management styles in a variety of client populations and nonprofit human service agencies. Students learn to differentiate roles, functions, and styles based on their assessment of the client's needs and a clear understanding of the agency's mission, policies, and programs. Prerequisites: SWK-370, SWK-420, and SWK-450.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### SWK-470: Field Instruction I

4 credits

This course exposes students to the foundations of social work practice in approved community agencies with professional supervision. The course consists of both online classroom course work and field experience hours. The course provides experiential integration and application of concepts, cognitive and affective processes, and professional social work skills. Practicum/field experience hours: 200. Prerequisites: SWK-370, SWK-420, and SWK-450. Co-Requisite: SWK-455.

#### SWK-480: Field Instruction II 4 credits

This course provides a continuation of foundations of social work practice in approved community agencies with professional supervision. Experiential integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses are practiced. Practicum/field experience hours: 200. Prerequisites: SWK-455, SWK-465, and SWK-470. Co-Requisite: SWK-460.

### SWK-490: Social Work Capstone 4 credits

This capstone course in the Bachelor of Social Work program allows students the opportunity to integrate and apply previous learning through the creation of a project to reflect their knowledge and skills. The students take insights from their academic and field experiences to create a final project and poster presentation highlighting their knowledge of assessment, application of theory, practice skills, ethics, and cultural sensitivity. Prerequisites: SWK-455, SWK-465, and SWK-470.

#### SWK-516: Human Behavior in the Social 3 credits Environment I

This course examines human behavior in the social environment by critically analyzing biopsychosocial development. Using an integrative, multidimensional perspective students examine multiple theories of human behavior. The course emphasizes a social work perspective and key frameworks for social work with an emphasis on person-in-environment and systems theory as they describe diverse human behavior. Prerequisite: UNV-510.

### SWK- $520^{\Omega}$ : Social Welfare Policy and Services 3 credits

This course explores the history and progression of the social welfare system, services, and policies and their effects on the social work profession. Emphasis is placed on an analysis of how these systems impact vulnerable populations, specifically relating to poverty, age, race, sex, and mental health. Students learn to identify strengths and weaknesses of social welfare policies while considering diversity and social justice. Prerequisite: SWK-516.

### SWK-525<sup>\Omega</sup>: Generalist Social Work Practice I: 3 credits Working With Individuals and Systems

This course is based on a generalist social work perspective and prepares students for beginning practice with individuals and systems. This course focuses on conceptualizing social work practice, integrating knowledge and theory with practice. Students will develop beginning level practice skills that are culturally responsive and ethical. Special attention is given to human diversity and populations at risk. Prerequisite: SWK-520.

### SWK-530 $^{\Omega}$ : Diversity and Social Justice in Social Work

3 credits

4 credits

This course explores the foundation of knowledge needed to successfully engage diverse populations and advance social justice in social work practice. Emphasis is placed on systems of power and oppression and the cultural aspects of race/ethnicity, gender, sexual orientation, and socioeconomic status. Prerequisite: SWK-525.

#### SWK-535<sup>Ω</sup>: Field Instruction I

This course exposes students to the foundations of social work practice in approved community agencies with professional supervision. The course consists of both online classroom course work and field experience hours. The course provides experiential integration and application of concepts, cognitive and affective processes, and professional social work skills. Practicum/field experience hours: 240. Co-Requisites: SWK-525 and SWK-530.

#### SWK-541: Human Behavior in the Social 3 credits Environment II

This course examines human behavior in the social environment by critically analyzing biopsychosocial development from conception through late adulthood and death. This includes a focus on groups, communities, and organizations and their effect on human behavior. The course emphasizes a social work perspective and key frameworks for social work with an emphasis on person-in-environment and systems theory as they describe diverse human behavior. Prerequisite: SWK-535.

### SWK-545<sup>\Omega</sup>: Generalist Social Work Practice II: 3 credits Groups, Communities, and Organizations

This course is based on a generalist social work perspective and provides students with fundamental social work competencies to influence change at the group, community, and organizational levels. Emphasis is given to facilitative and constraining effects of the social context surrounding macro practice. Special attention is given to human diversity and populations-at-risk. Prerequisite: SWK-541.

#### SWK-550 $^{\Omega}$ : Field Instruction II 4 credits

This course provides a continuation of foundations of social work practice in approved community agencies with professional supervision. Experiential integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses are practiced. Practicum/field experience hours: 240. Prerequisite: SWK-535. Co-Requisites: SWK-541 and SWK-545.

#### SWK-555<sup>\Omega</sup>: Methods of Research in Social 3 credits Work I

This course introduces students to the scientific method and research design process used to evaluate and inform the social work profession. Methods of both quantitative and qualitative data analysis are explored. Prerequisite: SWK-550.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### SWK-600 $^{\Omega}$ : Psychopathology and the Role of 3 credits the Social Worker

This course prepares students with the practical skills essential for identifying and understanding various mental health conditions. The course utilizes the Diagnostic and Statistical Manual of Mental Disorders (DSM) criteria, enabling students to identify and determine the nature of the disorders by their signs and symptoms, recognizing how cultural factors influence interpretation of symptoms. Prerequisite: SWK-555 or BSW degree from a CSWE-accredited program.

### SWK-601: Social Work Advocacy 3 credits

This course is based on client advocacy as an ethical responsibility in the field of social work. This course explores the individual, family, group, community, organizational, and political advocacy efforts and processes that are necessary in influencing social problems and achieving social justice. Prerequisite: SWK-600.

### SWK-610<sup>\Omega</sup>: Advanced Social Work Practice Skills I: Individuals and Families 3 credits

This advanced practice course builds on students' foundational knowledge in working with individuals and families. The course focuses on specific theories and models for individual and family treatment planning, and interventions fostering an inclusive and equitable approach that promotes effective and culturally competent mental health care. Prerequisite: SWK-601.

### SWK- $620^{\Omega}$ : Field Instruction III 4 credits

This course covers advanced social work practice with individuals, families, groups, communities and organizations in approved community agencies with professional supervision. Continued integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses is practiced. Practicum/field experience hours: 240. Prerequisite: SWK-550. Co-Requisites: SWK-610 and SWK-625.

### SWK-621: Advanced Standing Field 4 credits Instruction I

This course covers advanced social work practice with individuals, families, groups, communities and organizations in approved community agencies with professional supervision. Continued integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses is practiced. Practicum/field experience hours: 250. Co-Requisites: SWK-610 and SWK-625.

### SWK-625<sup>\Omega</sup>: Evidence Based Practice in Social 3 credits Work

This course prepares students to understand and utilize evidenced-based practices at the micro, mezzo and macro levels. Students engage in process, tools and intervention of evidence-based models. Students practice ethical and culturally informed delivery of evidence-based programs, policies, and services at all levels of social work practice. Prerequisite: SWK-620 or SWK-621.

#### SWK- $635^{\Omega}$ : Field Instruction IV

4 credits

This course covers advanced social work practice with individuals, families, groups, communities and organizations in approved community agencies with professional supervision. Continued integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses is practiced. Practicum/field experience hours: 240. Prerequisite: SWK-620.

### SWK-636: Advanced Standing Field 4 credits Instruction II

This course covers advanced social work practice with individuals, families, groups, communities and organizations in approved community agencies with professional supervision. Continued integration and application of concepts, cognitive and affective processes, and professional social work skills from concurrent social work courses is practiced. Practicum/field experience hours: 250. Co-Requisites: SWK-640 and SWK-641.

### SWK-640<sup>\Omega</sup>: Advanced Social Work Practice 3 credits Skills II: Groups

The purpose of this advanced practice course is to build on foundational learning and develop skills in working with groups. This course explores theory and practice of group dynamics with an emphasis on the development of effective group work skills, analysis of processes and interactions, and values and ethics with a multi-social-cultural perspective. Prerequisite: SWK-625.

# SWK-641: Advanced Social Work Practice Skills III: Organizations and Communities 3 credits

The purpose of this advanced practice course is to build on foundational learning and develop skills when working with organizations and communities. The course focuses on using micro and macro skills to impact both organizations and communities while highlighting the importance of evaluation and ethics. Prerequisite: SWK-640.

### SWK-645 $^{\Omega}$ : Methods of Research in Social 3 credits Work II

This course introduces students to the theory and practice of agency- or community-based evaluation and evaluation capacity building. Topics to be explored include standards and guiding principles for evaluation work, evaluation approaches and models, and evaluation methodology. as Political and ethical influences of conducting, using, and communicating research and evaluation findings in applied settings are discussed. Prerequisite: SWK-635 or SWK-636.

#### SWK-690 $^{\Omega}$ : Social Work Capstone 2 credit

This is the final course in the Master of Social Work and Master of Social Work Advanced Standing programs. It requires students to integrate their learning from prior courses and apply their knowledge and skills in a final Capstone project. Knowledge demonstrated includes assessment, application of theory, practice skills, ethics, and cultural sensitivity. Prerequisite: SWK-645.

### Systems Management (SYM)

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

TCH-506:

This course examines the design, development, implementation, and maintenance of relational database structures. Emphasis is on appropriate application and implementation. Prerequisite: BIT-200 or BIT-205 or CST-110, or CST-111 or CST-105 or ITT-111.

### SYM-408: Relational Databases for Business 4 credits Applications

This course covers the characteristics of object-relational and NoSQL databases and their application in business. The course also focuses on the main principles of object-oriented, object-relational, and NoSQL databases, and their relative advantages. Students gain working knowledge of object-relational features as implemented in standard SQL database management systems. Students also learn to manage unstructured and semi-structured data with XML. Prerequisite: SYM-400.

### SYM-506: Applied Business Probability and 4 credits Statistics

The purpose of this course is to prepare students in mathematical, probability, and statistical concepts for their upcoming studies in quantitative methods. The course is intended for those students who have not had any prior statistical education, although students who have had statistics should also consider taking the course as a refresher.

### Teacher Leadership (TCH)

### TCH-505: Introduction to Teaching Strategies 2 credits and Professionalism Expectations

Candidates will identify effective classroom management techniques that foster a sense of community and promote student growth. Candidates will reflect on the importance of building a strong connection between home and school. All candidates will examine research-based strategies that engage learners in collaborative and self-directed learning. Throughout this course candidates will evaluate the logical progression of effective lessons, leveraging critical thinking skills and preferred learning styles. Candidates will engage in reflective practices, including a variety of self-assessments, to reflect on their practices and plan for necessary adjustments. Practicum/field experience hours: 1. Fingerprint clearance required.

# The goal of this culminating experience is to allow candidates to refine their skills in the identified InTASC standards. Teacher candidates will move to higher levels on the InTASC progressions through in-class discussions, video reflection, inclass progression of essential skills, and peer and coach mentoring. Candidates will create and evaluate appropriate learning experiences to move learners toward their next levels of development. They will dive deeper into the analysis of data to identify patterns and gaps in learning to guide instruction and provide meaningful feedback. Candidates will reevaluate plans in relation to short- and long-range goals and systematically adjust plans to meet each student's learning needs and enhance learning. Practicum/field experience hours: 1. Fingerprint clearance required.

### TCH-520: Brain-Based Learning 3 credits

This course focuses on brain research (from neuroscience to the behavioral and cognitive sciences) that relates to teaching and learning and suggests ways that brain research can be translated into instructional practices within organizational settings. Candidates will examine the inner workings of the brain and the effect on learning, memory, and transfer. Specifically, the course explores the body of knowledge that represents the application of brain research to instructional practice, and how knowledge about the human brain can affect the curricular, instructional, and assessment decisions that the candidates make every day. Practicum/field experience hours: None. Fingerprint clearance not required.

### TCH-539: Introduction to Educational 3 credits Research

This course provides an introduction to applied research in education across the major quantitative, qualitative, and action research traditions. Coursework focuses on understanding the research process and its integrated components to foster knowledge in navigating research reports and projects. Research designs and data analysis options are also explored.

### Technology (TEC)

### TEC-516: Instructional Theories and Models 3 credits in Technology Education

This course introduces students to technology standards for students and teachers; digital citizenship and responsibility; legal and ethical use guidelines; and transitioning instruction to integrate technology. Technology dispositions, expectations, and guidelines are emphasized. Candidates apply an understanding of design principles in visual communication theory. They incorporate multiple intelligences and constructivist theories into an interactive environment. Attention is given to instructional technology tools and resources.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### TEC-521: Digital Literacies, Virtual Tools, 3 credits and New Media

This course focuses on the organization and integration of media in school curricula. Candidates identify instructional purposes and define roles for technology and media in learning and teaching. An emphasis is placed on the processes for selecting and implementing meaningful technologies, virtual tools and other electronic learning resources, and the development of digital literacies in teaching and learning. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TEC-516.

### TEC-530: Ethics, Culture, and Equity with 3 credits Technology

This course provides candidates with current educational practices and policies related to technology integration in schools so they may determine what level of support these policies provide regardless of student population. Candidates will also examine legal standards for fair use of materials, digital citizenship, and authenticating sources. Emphasis is placed on the critical examination of social and cultural implications of information technologies and media, issues of cultural bias, equity, and international applications and implications of information technologies. Practicum/Field experience hours: 10. Fingerprint clearance required.

### TEC-536: Assessment and Instructional 3 credits Technology

This course focuses on various technology-based assessment tools used for formative and summative assessments. Candidates use tools to make data-driven decisions to drive curriculum and differentiate instruction. The content of this course includes use of digital media for progress monitoring or as assessment tools and creating and using alternative assessments. An emphasis is placed on understanding assistive technology and application in instructional programs and assessment for individuals with exceptionalities. Practicum/Field experience hours: 10. Fingerprint clearance required.

### TEC-541: Distance Learning 3 credits

This course expands candidates' knowledge of lesson preparation and activities, as well as basic curriculum development and design principles for distance education. The course explores distance education and online instruction, including history, theories, and practical applications. A variety of online facilitation techniques are explored in this course. An emphasis is placed on understanding distance education development and delivery, exploring the complexities of designing instruction in various distance contexts and applying these concepts in a real-world context through online facilitation. Practicum/Field experience hours: 10. Fingerprint clearance required.

### TEC-544: Leadership and Technology Coaching

3 credits

This course examines the role of leadership as it relates to the implementation of educational technologies and media. An emphasis is placed on knowledge, and skills necessary to use, evaluate, plan, manage, and implement technologies effectively. Candidates will learn and apply professional development techniques to include andragogy, coaching, improving teacher practices, school culture, and effective communication. Practicum/field experience hours: 10. Fingerprint clearance required.

### TEC-561: Multimedia Instructional Strategies 3 credits and Methods

This course provides candidates with instructional strategies using learning theories. Focus is on developing knowledge and skills to create multiple types of web-based assignments and units for K-12 students using web authoring software. Candidates learn to select and evaluate appropriate multimedia resources, and examine steps for planning, creating, and managing curriculum using software and tools for a variety of platforms. Emphasis is placed on project-based learning. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TEC-536.

### **TEC-595**<sup>Ω</sup>: Instructional Technology Capstone 3 credits

This course is the culminating course in the Masters of Science in Instructional Technology program. Candidates will conduct a professional development needs assessment and create a yearlong professional development plan to integrate technology in their school. Candidates will deliver, evaluate, and revise a professional development presentation, and incorporate peer and faculty feedback to ensure timeliness and relevance. Experience will culminate in an electronic portfolio. Practicum/field experience hours: 60. Fingerprint clearance required. Prerequisite: TEC-544.

### TEC-596: Distance Learning Capstone 1 credits

This is the culminating course in the Graduate Certificate of Completion in Distance Learning. Students formalize a technology coaching website and reflect on the application of theories and models in technology education, assessment and instructional technology, and multimedia instructional strategies and methods in preparation for distance learning opportunities. Prerequisite: TEC-541.

### Adult Learning (TLA)

### TLA-830: Adult Learning Theory 3 credits

The course presents theories and models of adult learning for consideration. Potential applications of the theories and models are discussed as are current trends in adult learning.

### TLA-832: Worldview and Adult Learning 3 credits

This course connects key concepts in worldview to adult learning. Learners are encouraged to synthesize worldview and adult learning concepts as they move toward the development or refinement of a personal worldview.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### **TLA-834:** Cognitive Coaching

3 credits

The course explores the connections between cognitive coaching, critical inquiry, and reflective practice. Tools for cognitive coaching and their applications are also discussed.

#### TLA-836: Transformational Learning 3 credits

The course outlines the process of transformational learning and discusses its application to adult learning. The notions of practitioners as transformational catalysts and the influence of transformation learning on adult learning design are also addressed.

#### TLA-838: Applications of Adult Learning 3 credits

The course considers the application of adult learning theory and philosophy of adult learning as they lead to solutions for enhanced teaching and learning. Connections between theory and practice are highlighted.

### Teaching and Learning (TLC)

### TLC-801: History and Philosophy of Teaching 3 credits and Learning

The course presents a foundation of historic and philosophic ideas in teaching and learning. Learners are encouraged to consider the connections between history, philosophy, teaching, and learning as well as the influence of these concepts on the development of a personal philosophy of teaching and learning.

#### TLC-802: Learning Theories 3 credits

The course provides a chronological overview of learning theories and their common applications. Connections between theory and philosophy of teaching and learning are explored.

### TLC-803: Coaching, Mentoring, and 3 credits Collaboration

This course addresses the current mindset surrounding the notion of collaboration and proposes a paradigm shift to a mindset that redefines collaboration and integrates it with coaching and mentoring. The course includes a discussion of strategies employed by coaches/mentors to support leadership and ensure a positive organizational culture.

### TLC-804: Globalization, Innovation, and 3 credits Change

The course addresses the challenges to teaching and learning inherent in a global environment of perpetual change and frequent innovation. Connections to philosophy of teaching and learning are explored.

### TLC-885: Developing the Research Proposal 3 credits

In this course, learners formalize their research proposal specific to their topic. Emphasis is placed on fully developing Chapter 1 and incorporating Chapters 2 and 3 (drafts) from previous research courses. This proposal becomes the first three chapters of the dissertation upon approval of the final draft by the College of Doctoral Studies. Prerequisite: RES-880.

#### TLC-955: Dissertation I

3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design independent research under the guidance of the dissertation committee. Prerequisite: RES-871, TLC-885, RSD-883, or RSD-884.

#### TLC-960: Dissertation II

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: TLC-955.

### TLC-965: Dissertation III 3 credits

In this course, learners apply the skills of the practitioner-scholar. They are self-motivated and committed to reflective practice. They actively seek input from other scholars while continuing to design and/or conduct independent research under the guidance of the dissertation committee. Prerequisite: TLC-960.

### TLC-966: Research Continuation I 3 credit

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-965.

#### TLC-967: Research Continuation II 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-966.

### TLC-968: Research Continuation III 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-967.

#### TLC-969: Research Continuation IV 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-968.

#### TLC-970: Research Continuation V 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-969.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### TLC-971: Research Continuation VI

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-970.

3 credits

#### TLC-972: Research Continuation VII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: Prerequisite: TLC-971.

#### TLC-973: Research Continuation VIII 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-972.

### TLC-974: Research Continuation IX 3 credits

This course emphasizes the finalization of the dissertation and provides learners with individualized support for completing their dissertation journey. Learners continue to work directly with their dissertation chair and committee members based on their individual progress plan for completing their dissertation. Prerequisite: TLC-973.

#### TLC-975: Research Continuation Course 0 credits

This course emphasizes the finalization of the dissertation and provides learners guidance for finding the appropriate venues and approaches in publishing their research findings. This will include the final steps necessary in pulling together what might have been earlier versions of chapters 1, 2, and 3, as well as the proofing and dissertation editing strategies that are required and the steps scholars can take to make sure their results are, in fact, shared with other scholars. This includes an exploration of writing research articles, preparing to present scholarly papers, as well as other publication venues. Prerequisite: TLC-970.

### Theater and Drama (TRE)

### TRE-101♦: Theatre Participation I 1 credits

In this course students select and participate in one of the following areas of theatre production and management including: technical theatre, front of house, performance, and stage/production management. Students are required to choose at least three different disciplines within their four years of study. The course requires 40 lab hours that can be used toward fulfilling scholarship requirements.

#### **TRE-125** •: Introduction to the Theatre

This course introduces the study of theatre history, dramatic structure, dramatic literature, period styles, production elements, design aspects, and a chronological survey of plays. It includes the study of theory of theatre and drama as well as appreciation and analysis of live theatrical performance.

#### TRE-130<sup>\(\phi\)</sup>: Stagecraft

4 credits

This course is the study of set and prop construction. Practical application of construction techniques is gained through theatre productions.

### TRE-145\*: Acting I

4 credit

This course identifies principles of pantomime and dramatic action designed to establish the proper relationship of the voice to the body and its functions in the interpretation of character. It is designed to help develop physical presence and facility in the actor, vocalist, teacher, athlete, and other persons involved in public performance.

### TRE-155\*: Voice and Movement for the Stage 4 credits

This is an introductory course for vocal production and body manipulation. Students learn techniques for the healthy production, manipulation, and utilization of sound and movement. The student's voice and body are developed through conditioning exercises. Vocal production and movement are linked to a character's intention and given circumstances in order to facilitate a compelling, understandable performance.

### TRE-201\*: Theatre Participation II 1 credits

In this course students select and participate in one of the following areas of theatre production and management including: technical theatre, front of house, performance, and stage/production management. Students are required to choose at least three different disciplines within their four years of study. The course requires 40 lab hours that can be used toward fulfilling scholarship requirements.

### TRE-225: Theatre Technology 4 credits

This course examines the application of computer technology to the production of live theatre using CAD and graphic software.

#### TRE-245\*: Fundamentals of Theatrical Design 4 credits

This course is an introduction to scenography. Topics include scenic, lighting, costume, and makeup design, with an emphasis on drafting, modeling, and rendering. Students will have the opportunity to assist designers for the University's Ethington Theatre Series.

#### TRE-251\*: Improvisation

4 credits

Students learn and utilize the techniques of theatrical improvisation. Skills necessary to create an improv team and produce an improv show are developed through improvisational games and exercises.

### TRE-253♦: Acting II

4 credit

This is an advanced acting course emphasizing scene study and textual analysis, allowing students to concentrate on the method and technique of building a character. Prerequisite: TRE-145.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### TRE-280<sup>\(\Delta\)</sup>: Playwriting

4 credits

In this course students use the theoretical aspects of dramatic literature, acting, and scenography to create a play. Prerequisite: ENG-106.

#### **TRE-301**♦: Theatre Participation III 1 credits

In this course students select and participate in one of the following areas of theatre production and management including: technical theatre, front of house, performance, and stage/production management. Students are required to choose at least three different disciplines within their four years of study. The course requires 40 lab hours that can be used toward fulfilling scholarship requirements.

#### TRE-320: Technology for Theatre Educators 2 credits

Students study and utilize a variety of theatre technologies such as computer software, hardware, networking, multimedia, interactive media, and the Internet in order to foster inquiry, collaboration, and interaction in the classroom in order to meet the needs of a diverse student population.

### TRE-325<sup>△/♦</sup>: Theatre History I: Greek to 4 credits Restoration

This writing intensive course is an in-depth study of the history and development of theatre from early Greece to the English Restoration.

### TRE- Theatre History I: Greek to 4 credits 325HN<sup>∆i</sup>+: Restoration

This writing intensive course is an in-depth study of the history and development of theatre from early Greece to the English Restoration.

#### TRE-327: Theatre Pedagogy 2 credits

This course educates the student in methods of teaching theatre in elementary school, secondary school, community college, and the university. It encompasses the basic objectives of theatre education and the components of excellence in teaching and art. Practicum/field experience hours: 10. Fingerprint clearance required.

### TRE-330<sup>△/♦</sup>: Theatre History II: 18th Century to 4 credits Present

This writing intensive course is an in-depth study of the history and development of theatre from the 18th century through modern times.

### TRE- Theatre History II: 18th Century to 4 credits 330HN<sup>Δ/•</sup>: Present

This writing intensive course is an in-depth study of the history and development of theatre from the 18th century through modern times.

### TRE-335♦: Dramatic Literature I 4 credits

This course is a comprehensive study of the major periods and forms of dramatic literature dating from early Greece to the Restoration.

### TRE-337\*: Theatre Methods and Assessment 4 credits in the Elementary School

This course is a study and demonstration of methods and materials for the first six grades. Students make a study of activities implemented with each grade level, prepare lesson plans, and visit classrooms to observe teaching situations. Practicum/field experience hours: 30. Fingerprint clearance required.

#### TRE-339\*: Dramatic Literature II 4 credits

This course is a comprehensive study of the major periods and forms of dramatic literature dating from the Restoration to the present.

### TRE-347\*: Theatre Methods and Assessment 4 credits in the Secondary School

This course is a study of methods for developing and conducting the theatre program in junior and senior high schools. Methods, materials, topics, and issues in theatre education are used to prepare theatre education majors to enter the teaching profession. Practicum/field experience hours: 30. Fingerprint clearance required.

#### TRE-350<sup>∆</sup>: Theatre History 4 credits

This writing intensive course is a broad study of the history and development of theatre.

#### TRE-372\*: Costume Design and Construction 4 credits

This course concerns the art of designing costumes for the theatre. Students construct a costume of their own design.

### TRE-377<sup>♦</sup>: Scenic Design 4 credits

Students learn to develop design concepts through research and the creative process that reinforce and illuminate a director's vision to communicate these concepts visually and in written form. Students learn to use technology specific to design that may include CAD and other digital design programs. Students learn graphic design standards based on industry guidelines including hand drawing, drafting, and model making culminating in a complete design presentation. Prerequisites: TRE-130 and TRE-245 or permission of instructor.

#### TRE-380: Musical Theatre Literature 4 credits

This course is study of the historical development of American Musical Theatre and analysis of its unique dramatic forms.

#### TRE-401\*: Theatre Participation IV 1 credits

In this course students select and participate in one of the following areas of theatre production and management including: technical theatre, front of house, performance, and stage/production management. Students are required to choose at least three different disciplines within their four years of study. The course requires 40 lab hours that can be used toward fulfilling scholarship requirements.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### TRE-421\*: Foundations of Theatre and Culture for Diverse Learners

4 credits

Students study the historical, philosophical, and sociological influences that have shaped theatre and theatre education and the issues faced by educators today, as well as the challenges of the future that await persons now entering the teaching profession. The course also examines the unique learning needs of exceptional students. Emphasis is placed on definitions, etiology, characteristics, and prevalence of various exceptionalities; laws, and litigation protecting the rights of students with special needs and their families; current issues affecting persons with special needs; social perceptions, assessment, inclusion, and transition; and basic curriculum accommodations and supportive services for teaching students with special needs in the theatre classroom. Practicum/field experience hours: 15. Fingerprint clearance required.

#### TRE-439<sup>≠</sup> •: Stage Direction

4 credits

This course is a study of theories and techniques for interpreting and directing plays through lectures and demonstrations. Students are required to participate in laboratory projects in directing oneacts or scenes from full-length plays. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisites: TRE-145 and TRE-335 or TRE-339.

#### TRE-439HN<sup>≠</sup>♦:Stage Direction

4 credits

This course is a study of theories and techniques for interpreting and directing plays through lectures and demonstrations. Students are required to participate in laboratory projects in directing oneacts or scenes from full-length plays. Prerequisites: TRE-253 and TRE-335 or TRE-339.

#### TRE-441\*: Stage Direction II

credi

This course continues the study of theories and techniques for interpreting and directing plays, musicals, and operas through lectures and demonstrations. Students focus on major directing and research projects, story clarity, collaboration, and advanced rehearsal processes. Prerequisite: TRE-439.

### TRE-475<sup>‡</sup>♦: Stage Lighting and Design 4 credits

This course concerns the art of designing lighting and scenery for the theatre. Students will actively participate in designing Grand Canyon University Theatre productions and classroom projects. Prerequisites: TRE-130 and TRE-245.

### TRE-475HN<sup>\*</sup> ◆:Stage Lighting and Design 4 credits

This course concerns the art of designing lighting and scenery for the theatre. Students will actively participate in designing Grand Canyon University Theatre productions and classroom projects. Prerequisites: TRE-130 and TRE-245.

#### TRE-490♦: The Business of Theatre 4 credits

This course is designed for the preparation of theatre students for professional life and graduate school interviews. Students set professional goals, plan achievable steps to meet those goals, and gather the tools required to complete each step. Students also learn key networking and marketing skills to find, obtain, execute successful interviews, and manage tax and finances. Students study the literature of professional theatrical organizations to plan candidacy and learn professional deportment. Prerequisite: Senior Standing.

# Teaching English to Speakers of Other Languages (TSL)

### TSL-532: Foundations of Instruction for English Language Learners

3 credits

This course provides foundational knowledge of policies and instructional programs for English language learners (ELLs) in the United States. Emphasis will be placed on understanding, comparing, and evaluating current language models. Educators will be introduced to instructional strategies and professional development opportunities. Focus will be placed on advocating for bilingual education (BLE), ELLs, and families.

#### TSL-541: Linguistics

3 credits

In this course, educators become familiar with the fundamentals of linguistics. Emphasis will be placed on psycholinguistics, sociolinguistics, and first and second language acquisition. Educators will synthesize research-based methods of incorporating linguistic principles into their teaching practice. Prerequisite: TSL-550.

### TSL-550: School, Community, and Family 3 credits Culture

In this course, educators will explore school, community, and family culture. Emphasis will be placed on the major goals, principles, and concepts of multicultural education, including understanding individual needs and learning differences. Research is utilized to investigate the social, community, cultural, and familial contexts that influence learning and development. Focus will be placed on creating a positive classroom environment through culturally inclusive teaching. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TSL-532.

### TSL-552: Literacy in Bilingual Settings 3 credits

In this course, educators will examine approaches to develop literacy in a second and native languages in Pre-K-12 schools. Emphasis will be placed on techniques for developing listening, speaking, reading, and writing skills; developing language and literacy through the content areas; using children's and young adult multicultural literature; and assessing students' literacy development in the second and native languages. Strategies to develop biliteracy in dual language programs will also be discussed. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TSL-550.

### TSL-558: ELL and Bilingual Curriculum and 3 credits Methods of Instruction

In this course, educators will review curriculum and methods appropriate to the teaching of subject areas in bilingual and English language learner instructional settings. Emphasis is placed on linguistic, cognitive, developmental, and sociocultural considerations when exploring methods and materials to design multicultural curricula for use in language arts and content area classrooms. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TSL-550.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### TSL-565: ELL and Bilingual Assessment

3 credits

In this course, educators will explore the principles of (or for) evaluating and structuring assessments. Educators will examine assessment for the purposes of identification, placement, and instructional delivery. Emphasis will be placed on learning ways to integrate assessment procedures into any curriculum and designing assessment tasks that allow for improved learning of all students. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TSL-558.

### TSL-567: Methods of Teaching and Evaluating ELLs with Special Needs

3 credits

In this course, educators will be introduced to the field of bilingual and English language learners (ELLs) with exceptionalities, including language differences, giftedness, and special education needs. Emphasis will be placed on researching the complexity of the over- and under-representation of students with exceptionalities in bilingual and ELL education. Educators will explore issues in relation to differentiating cultural and linguistic-related learning variations from exceptionalities and their instructional implications. Practicum/field experience hours: 10. Fingerprint clearance required.

### TSL-568: Methods of Teaching and Evaluating ELLs with Exceptionalities

3 credits

In this course, educators will be introduced to the teaching and evaluation of English language learners (ELLs) with exceptionalities, including students with special education needs and gifted students, who receive bilingual/native language and/or English language instruction and support. Emphasis will be placed on researching the complexity of disproportional representation of ELLs in gifted and special education programs or services. Educators will explore cultural and linguistic considerations in identifying bilingual/ELL students with exceptional needs and examine appropriate instructional support. Practicum/field experience hours: 10. Fingerprint clearance required. Prerequisite: TSL-558.

#### TSL-590 $^{\Omega}$ : BLE or TESOL Practicum 3 credits

In this course, educators have direct participation and experience with bilingual or ELL students at their chosen level of instruction in a Pre-K-12 setting. Educators will practice teaching and management skills, conduct assessments, and learn to communicate effectively with students, parents, colleagues, administrators, and the larger community. Practicum/field experience hours: 60. Fingerprint clearance required. Prerequisite: Completion of all other courses required for the Master of Arts in Teaching English to Speakers of Other Languages (TESOL) program.

### University Studies (UNV)

### **UNV-100**♦: Developmental Writing Skills

4 credits

This course is for students who need to improve their foundational English writing skills and strategies. The class reviews fundamentals such as grammar, punctuation, sentence structure, and effective paragraph development. It also focuses on the basics of prewriting and revision strategies, style, and development. Students begin with simple writing tasks, but progressively increase to more complex multiparagraph essay assignments in preparation for academic writing at the college level.

### **UNV-103**<sup>Ω</sup>**♦**: University Success

4 credits

This course is designed to provide students opportunities to develop and strengthen skills necessary to enhance the undergraduate experience. It provides positive reinforcement of successful learning strategies and assistance with adaptation to the GCU academic environment.

### UNV-104<sup>4</sup>: 21st Century Skills: 4 credits Communication and Information Literacy

This course provides an introduction to information and communication literacy. Students examine available resources and research methods that help them understand how to use library and Internet resources. Topics include how to formulate a research strategy, develop search skills, and evaluate sources. Students build effective communication skills, develop learning strategies, and improve writing skills.

### UNV-106<sup>†</sup>: University On-Campus Success 4 credits

This course helps students develop and improve their on-campus skills to enhance the undergraduate experience. It provides support for successful learning strategies and helps students adapt to the GCU academic environment.

### UNV- A Ripple in the Pond: From Idea to 4 credits $106\text{HN}^{\text{s}\Omega\Phi}$ : Impact

This honors course introduces students to Grand Canyon University, the honors program, and the student success skills necessary to prepare them for their academic career. The course focuses on ethics and critical thinking while challenging students to further their knowledge and application of these concepts. This course lays a foundation for students to examine their own thinking and encourages them to become expansive thinkers. Prerequisite: Acceptance into the honors program.

### UNV-107\*: University Success for Student 4 credits Athletes

The goal of this comprehensive skill-development course is to assist student-athletes in their transition to Grand Canyon University. The course is designed to provide students with opportunities to develop the self-management, leadership, and other skills needed to be successful students and athletes. This course also provides student-athletes with the opportunity to learn the foundations of making good decisions and being a successful part of the entire campus community.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### UNV-108 $^{\Omega \Phi}$ : University Success in the College of 4 credits Education

This course is designed to provide education students opportunities to develop and strengthen skills necessary to enhance their undergraduate experience. It provides positive reinforcement of successful learning strategies, assistance with adaption to the GCU academic environment, and the foundation for success in the education area of study.

### UNV- Introduction to Honors Education 4 credits $109 H N^{\#\Phi}$ : and Academic Literacies

This introductory honors course explores how knowledge—including scientific, medical, mathematical, and cosmological—depend on understandings of the humanities—including history, philosophy, religion, law, and language. Quantitative and qualitative assignments complement readings from the history of science and science fiction, focusing on how paradigms and worldviews frame our understandings of data, how science and society influence each other, and how data-based arguments can be communicated effectively to broad audiences. Prerequisite: Acceptance into the honors program.

### UNV-115 $^{\Omega}$ : University Chapel Service 0.5 credits

This corporate worship experience unites students, faculty, and staff in the worship of the triune God through music and the exposition of God's Word. Students receive credit for this repeatable course on the basis of consistent participation in chapel services each semester.

### UNV-150<sup>♦</sup>: Origins of Western Consciousness 4 credits and Community

This is a survey course focusing on the origins of Western thought from an interdisciplinary perspective. Students cover topics related to myth, logic, rhetoric, symbol, aesthetics, politics, citizenship, ethics, and the philosophy of the good life.

### UNV- $300^{\Omega}$ : Study Abroad 0 credits

On demand. This program enables students to be enrolled at Grand Canyon University while undertaking studies in another country or with CCCU. Credits for this program vary depending on the number of credits involved and the chosen course of study. Prerequisite: Approval of Director of Center for International Education or appropriate college dean.

#### UNV- $303^{\Omega \bullet}$ : University Success 4 credit

This course is designed to address four major areas of a student's development: life management skills, academic skills, campus and community awareness, and personal and spiritual growth. This course is designed to provide opportunities to develop and strengthen skills necessary to enhance the college experience. Topics in this course are meant to enhance the learner's experience upon transferring into the university from other academic institutions.

#### UNV-380: Global Studies Experience 2 credits

This course is designed to demonstrate the student's educational, spiritual, cultural, and personal development as a result of participating in a global studies experience. Prerequisite: Students will need to complete a global studies experience of 45 hours or greater prior to enrolling in this course. Approval from Global Studies office is required prior to enrolling.

### UNV-385: Global Studies Experience

4 credits

This course is designed to demonstrate the student's educational, spiritual, cultural, and personal development as a result of participating in a global studies experience. Prerequisite: Students will need to complete a global studies experience of 105 hours or greater prior to enrolling in this course. Approval from Global Studies office is required prior to enrolling.

### UNV-401<sup>fΩ</sup>: University Internship 1 credit

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. This course requires students to complete internship hours. Practicum/field experience hours: 45. Prerequisite: Must complete formal application through Student Services Counselor.

#### UNV-409: Mentorship

0 credits

The mentorship program connects students with industry professionals who are eager to provide their time, knowledge, and experience to support students as they begin making career choices. This program serves as a bridge between GCU students and industry professionals—building mutually beneficial relationships and supporting the transition between education and career stages.

### UNV-410 $^{A}$ : University Internship 2 credits

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. This course requires students to complete internship hours. Practicum/field experience hours: 90. Prerequisite: Must complete formal application through Student Service Counselor.

### UNV-430 $^{\text{t}\Omega}$ : University Internship 4 credits

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. This course requires students to complete internship hours and be accepted to an internship that runs concurrent to this course. Practicum/field experience hours: 180. Prerequisites: Permission from both the Director of Career Services and the College of Humanities and Social Sciences leadership, and acceptance to an internship that runs concurrent with this course.

#### UNV-440<sup>fΩ</sup>: University Internship 8 cre

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. This course requires students to complete internship hours and be accepted to an internship that runs concurrent to this course. Practicum/field experience hours: 360. Prerequisites: Permission from both the Director of Career Services and the College of Humanities and Social Sciences leadership, and acceptance to an internship that runs concurrent with this course.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### UNV-450<sup>fΩ</sup>: University Internship

12 credits

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. This course requires students to complete internship hours and be accepted to an internship that runs concurrent to this course. Practicum/field experience hours: 540. Prerequisite: Permission of the Director of Career Services or Program/Faculty Chair.

### $UNV-501^{\Omega}$ : Introduction to Graduate Studies in 2 credits the College of Education

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the College of Education. Emphasis is placed on utilizing the tools for graduate success.

### $UNV-502^{\Omega}$ : Introduction to Graduate Studies in 2 credits the Health Sciences

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the health sciences. Emphasis is placed on utilizing the tools for graduate success.

### UNV-503 $^{\Omega}$ : Introduction to Graduate Studies in 2 credits the Liberal Arts

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the liberal arts. Emphasis is placed on utilizing the tools for graduate success.

### UNV- $504^{\Omega}$ : Introduction to Graduate Studies in 2 credits the College of Business

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the College of Business. Emphasis is placed on utilizing the tools for graduate success.

### UNV- $505^{\Omega}$ : Introduction to Graduate Studies in 2 credits Ministry and Theology

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in ministry and theology. Emphasis is placed on utilizing the tools for graduate success.

### UNV- Introduction to Graduate Studies in 2 credits 505GAR: Ministry and Theology

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in ministry and theology. Emphasis is placed on utilizing the tools for graduate success.

### UNV-506 $^{\Omega}$ : Introduction to Graduate Studies in 2 credits the Health Care Professions

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the health care professions. Emphasis is placed on utilizing the tools for graduate success.

# UNV-507 $^{\Omega}$ : Introduction to Graduate Studies in 2 credits Science, Engineering and Technology

This course is designed to prepare students for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in the College of Engineering and Technology and the College of Natural Sciences. Emphasis is placed on utilizing the tools for graduate success.

### UNV-508: Introduction to Graduate Studies in 2 credits Counseling

This course is designed as an orientation for the graduate learning experience at Grand Canyon University. Students have opportunities to develop and strengthen the skills necessary to succeed as graduate students in counseling. Emphasis is placed on utilizing the tools for graduate success.

### UNV-509 $^{\Omega}$ : Introduction to Graduate Studies in 2 credits Mathematics

This course prepares students for the graduate learning experience at Grand Canyon University. It provides students with opportunities to develop and strengthen the skills necessary to succeed as graduate students. Emphasis is placed on utilizing the tools for graduate success in mathematics. Mathematics concepts, such as logic, mathematical notation and definitions, methods of proof, and mathematics software, are covered.

### $\begin{array}{ll} UNV\text{-}510^{\Omega}\text{:} & Introduction to Graduate Studies in} & 2 \text{ credits} \\ & Social Work \\ \end{array}$

This course is designed as an orientation for the graduate learning experience at Grand Canyon University. There is an emphasis on developing and strengthening skills for success as a graduate student of social work. Students are provided an overview of the social work profession while exploring career interests and utilization of the tools for graduate success.

### UNV- $601^{\Omega}$ : University Internship 1 credits

The internship is the culminating course in an academic program of study. The internship provides students the opportunity to work as independent practitioners within their field and to practice principles learned in their major area of study by working in an outside organization under the supervision of a professional. Practicum/field experience hours: 45.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

### UNV-605: Introduction to Graduate Studies in 2 credits Advanced Standing Social Work

This course is designed as an orientation for the graduate learning experience at Grand Canyon University for the Advanced Standing Master of Social Work students. There is an emphasis on developing and strengthening skills for success as a graduate student of social work. Students explore career interests, internship goals, necessary steps for licensure following graduation, and utilization of the tools for graduate success.

### Worship Arts: Drum Set (WDA)

### WDA-111: Private Drum Set Study I 1 credits

This course in private applied drum set study concentrates on percussion technique and repertoire for the contemporary Christian musician.

#### WDA-112: Private Drum Set Study II 1 credits

This course in private applied drum set study concentrates on percussion technique and repertoire for the contemporary Christian musician.

#### WDA-211: Private Drum Set Study III 1 credits

This course in private applied drum set study concentrates on percussion technique and repertoire for the contemporary Christian musician.

#### WDA-212: Private Drum Set Study IV 1 credits

This course in private applied drum set study concentrates on percussion technique and repertoire for the contemporary Christian musician.

### Worship Arts: Guitar (WGA)

### WGA-111<sup>♦</sup>: Private Guitar Study I 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

### WGA-112<sup>♦</sup>: Private Guitar Study II 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

#### WGA-211<sup>♦</sup>: Private Guitar Study III 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

#### WGA-212♦: Private Guitar Study IV 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician

#### WGA-310♦: Private Guitar Study IV

1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

### WGA-311<sup>♦</sup>: Private Guitar Study V 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

#### WGA-312<sup>♦</sup>: Private Guitar Study VI 1 credits

This course in private applied guitar study concentrates on guitar technique and repertoire for the contemporary Christian musician.

### Worship Arts: Keyboard (WKA)

### WKA-111<sup>♦</sup>: Private Keyboard Study I 1 credit

This course in private applied keyboard study concentrates on keyboard technique and repertoire for the contemporary Christian musician.

#### WKA-112<sup>♦</sup>: Private Keyboard Study II 1 credit

This course in private applied keyboard study concentrates on keyboard technique and repertoire for the contemporary Christian musician.

#### WKA-211<sup>♦</sup>: Private Keyboard Study III 1 credits

This course in private applied keyboard study concentrates on keyboard technique and repertoire for the contemporary Christian musician.

### WKA-212<sup>♦</sup>: Private Keyboard Study IV 1 credits

This course in private applied keyboard study concentrates on keyboard technique and repertoire for the contemporary Christian musician.

# Worship Applied Percussion (WPA)

#### WPA-211<sup>♦</sup>: Private Percussion Study III 1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

#### WPA-212<sup>♦</sup>: Private Percussion Study IV 1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

### **WPA-310**♦: Private Percussion Study IV 1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### **WPA-311**♦: Private Percussion Study V

1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

#### WPA-312<sup>♦</sup>: Private Percussion Study VI 1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

### WPA-411<sup>♦</sup>: Private Percussion Study VII 1 credits

This course in private applied percussion study concentrates on percussion technique and repertoire for the contemporary Christian musician.

### Worship Arts (WSA)

#### WSA-114<sup>♦</sup>: Class Keyboard

This course provides class instruction for students with limited or no previous piano training. Instruction includes the study of piano technique and is designed to prepare worship leaders to perform with basic piano skill and to understand strategies of keyboard playing in worship ensembles. Various keyboard techniques and performance styles are explored, with an emphasis on popular music genres.

#### WSA-116: Worship Leader Lab 1 credits

This lab course examines the call of God on the life of a worship leader, equipping students to rest and identify completely with Christ. This lab is designed to be an interactive, community experience which is not available via independent study.

### WSA-123: Church Audio 4 credits

This course introduces students to fundamental concepts in sound theory, acoustic principles, microphone types and techniques, sound equipment, signal flow, cable management, stage arrangement, and documentation through lecture and hands-on activities.

#### WSA-206: Worship Formation Lab 1 credits

This lab course continues the formational process for worship leadership, especially as it relates to the importance of relational skills, such as collaboration, motivation, and conflict resolution for life and ministry. This lab is designed to be an interactive, community experience which is not available via independent study.

### WSA-213<sup>♦</sup>: Class Guitar 1 credits

This course provides class instruction for students with limited or no previous guitar training. Instruction includes the study of guitar technique and is designed to prepare worship leaders to perform with basic guitar skill and to understand strategies of guitar playing in worship ensembles. Various guitar techniques and performance styles are explored, with an emphasis on popular music genres.

#### WSA-214<sup>♦</sup>: Class Percussion

1 credits

This course provides class instruction for students with limited or no previous percussion training. Instruction includes the study of percussion technique and is designed to prepare worship leaders to perform with basic percussion skill and to understand strategies of percussion playing in worship ensembles. Various percussion techniques and performance styles are explored, with an emphasis on popular music genres.

### WSA-225: Worship Workshop I 0 credits

In this course, students collaborate in small contemporary musical ensembles to develop skills in performing, arranging, rehearsing, and critiquing a worship band for a contemporary worship set for a church's main worship service.

### WSA-227: Worship Workshop III 0 credits

In this course, students collaborate in small musical ensembles to develop skills in performing, arranging, and rehearsing a worship band for contemporary worship settings in a variety of traditional and contemporary styles. Special attention is given to preparing and critiquing worship sets for seasonal worship events (e.g., Advent, Christmas, Lent, and Easter), weddings, funerals, and other special services of the church.

#### WSA-228: Worship Workshop IV 0 credits

In this course, students collaborate in musical ensembles of various sizes from duets to choirs to develop skills in performing, arranging, and rehearsing a vocal ensemble and accompaniment for worship settings that incorporate traditional hymns and choral styles of worship. Special attention is given to preparing and critiquing worship sets containing choral pieces, traditional hymns, metrical psalms, and Taizé.

### WSA-300: Musical Structures I 4 credits

This course introduces popular and commercial music theory. Topics include music notation, key signatures, scales, the Nashville Number System, intervals, modes, diatonic relationships and functions, and chords. Ear-training skills are also included in this course.

#### WSA-301: Musical Structures II 4 credits

This popular and commercial music theory course includes the following topics: chord structures, functions, and substitutions in major and minor keys; analysis of key centers in songwriting, scales and their applications, chord tones, and harmonic extensions; and voice leading, melody harmonization, and their application in contemporary worship music. Ear-training skills are also included in this course. Prerequisite: WSA-300.

#### WSA-302<sup>4</sup>: Songwriting and Arranging 4 credits

This course covers principles of songwriting and arranging for a variety of worship ensembles in the context of contemporary worship music. Contemporary styles, popular song forms, chord progressions, and formation of melodic ideas are further explored. Lyric writing includes developing song ideas, the hook, rhyme scheme, and the use of literary devices. Students compose and arrange songs using DAW, MIDI, and notation software.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>∮</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

#### WSA-320: Digital Audio Workstation

4 credits

This course introduces DAW software and challenges students to begin the process of recording multi-track sessions. Students practice tracking, editing, mixing, and producing recordings according to assigned projects. Students practice creating and implementing backing tracks for a worship service. Students are required to provide their own computer and software according to university-outlined program requirements.

### WSA-321<sup>/♠</sup>: Psalms, Hymns, and Spiritual 4 credits Songs

In the spirit of Colossians 3:16, this course explores the relationship between the gospel of Christ, the life in Christ, and worship in the Christian community. Students are encouraged to reflect on biblical patterns of worship and praise as well as contemporary expressions as they develop understanding and habits related to personal and corporate worship.

### WSA- Psalms, Hymns, and Spiritual 4 credits 321HN<sup>/♦</sup>: Songs

In the spirit of Colossians 3:16, this course explores the relationship between the gospel of Christ, the life in Christ, and worship in the Christian community. Students are encouraged to reflect on biblical patterns of worship and praise as well as contemporary expressions as they develop understandings and habits related to personal and corporate worship.

### WSA-322<sup>△</sup> Theology of Worship 4 credits

This writing-intensive course is a systematic study of the biblical, historical, and theological dimensions of Christian worship. Emphasis is placed on the development of a thoroughly biblical theology of worship, analysis of historical developments that influenced current worship practices, and the ways that worship forms community and shapes individual worshipers.

### WSA- Theology of Worship 4 credits $322HN^{\Delta/\Phi}$ :

This writing intensive course is a systematic study of the biblical, historical, and theological dimensions of Christian worship. Emphasis is placed on the development of a thoroughly biblical theology of worship, analysis of historical developments that influenced current worship practices, and the ways that worship forms community and shapes individual worshipers.

### WSA-330★: Philosophy of Music in Christian 4 credits Worship

This course addresses worship philosophy, modes, methods, and other issues concerning the role of music in worship. The course explores the historical and contemporary use of music in worship, and its various roles in discipleship, witness, inspiration, and exaltation across the continuum of history and cultures.

### WSA-331: Introduction to Worship Arts 4 credits Software

This course introduces students to worship media software. Students gain skill through practice using the software to arrange musical compositions and utilize visual presentation software to create content for designing a worship service.

### WSA-334\*: Stagecraft and Lighting for Contemporary Worship

4 credits

This course examines the elements of designing scenery and lighting for a worship service and explores best practices of proper stagecraft.

### WSA-345<sup>♦</sup>: Digital Film Production 4 credit

This course explores concepts in digital film production. Students gain understanding in preproduction, production, and postproduction. Students demonstrate their proficiency by producing a video that simulates working with a church or faithbased ministry to support their mission.

### WSA-408<sup>♦</sup>: Sound Recording 2 credits

This course explores concepts in sound recording. Students gain understanding in sound theory, modern recording techniques, non-linear editing, acoustic principles, studio etiquette, and home recording. Students demonstrate proficiency for using digital audio workstations to make their own recordings. Prerequisite: WSA-125. Co-Requisite: WSA-418.

### WSA-416<sup>♦</sup>: Music Direction for Contemporary 2 credits Worship

This course covers the principles and skills necessary to lead worship. Topics include auditioning a worship team, selecting worship sets, working with a vocal and instrumental team, as well as stage presence, and worship leadership. Students work on a final worship presentation demonstrating practical knowledge of planning worship and/or concert experiences. Prerequisites: WSA-330 and WSA-423.

#### WSA-418<sup>♦</sup>: Sound Reinforcement 2 credits

This course explores concepts in live sound reinforcement, including assembling sound systems, setting stages for music production, and managing assets vital to the discipline of sound reinforcement. Students gain understanding for industry best practices in a live production environment and demonstrate skill in operating a live sound system. Prerequisite: WSA-125. Co-Requisite: WSA-408.

#### WSA-420<sup>\*</sup>: Audio Recording 4 credits

This course explores concepts in sound recording for the church. Students gain understanding in sound theory, modern recording techniques, nonlinear editing, acoustic principles, and studio etiquette. Students demonstrate proficiency for using digital audio workstations and explore mixing techniques for purpose of producing a recording. Prerequisite: WSA-320.

### WSA-423<sup>‡</sup>: Worship Leadership 4 credits

This course equips students to be effective worship leaders who integrate worship within a community of faith and lead God's people in faithful worship. This course develops skills for effective leadership, administration, and pastoral care within the local church and other worship gatherings.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\frac{1}{2}}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

#### WSA-423HN<sup>‡</sup>: Worship Leadership

4 credits

This course equips students to be effective worship leaders who integrate worship throughout a community of faith and lead God's people in faithful worship. This course is designed to develop understandings, skills, and character for effective leadership, administration, and pastoral care within the local church and other worship gatherings.

### WSA-424<sup>△</sup> : Christian Worldview and Media 4 credits

This writing-intensive course examines the ways in which various media affect, challenge, and enhance the expression of Christian worldview. Special attention is devoted to developing technologies, the Christian life, corporate worship, and the communication of the Christian worldview through multiple modalities.

### WSA- Christian Worldview and Media 4 credits $424HN^{\Delta/\Phi}$ :

This writing-intensive course examines the ways in which various media affect, challenge, and enhance the expression of Christian worldview. Special attention is devoted to developing technologies, the Christian life, corporate worship, and the communication of the Christian worldview through multiple modalities.

#### WSA-425: Audio Reinforcement 4 credits

This course develops students' skills in live sound reinforcement for the church, including assembling sound systems, setting stages for music production, and managing assets vital to the discipline of sound reinforcement. Emphasis is given to sound system design and industry best practices in a live worship production environment and the demonstration of skill in operating a live sound system. Prerequisite: WSA-123.

#### WSA-429<sup>♦</sup>: Worship Arts Internship 4 credits

This course consists of an internship experience in an approved professional setting. The course includes reinforcement of all program competencies, practical experiences, academic journaling, as well as a field experience log, and culminating reflection assignment. Students should begin the internship application process after completion of 80 credit hours in the program. Practicum/field experience hours: 180. Prerequisite: WSA-423.

### WSA-445\*: Production Leadership for Worship 4 credits Arts

This course explores concepts in management and communication when working with creative teams and church leadership. This course focuses on bringing leadership to all production disciplines found in church worship services. Students learn how to coordinate and communicate with leaders in order to create weekly worship services. Prerequisite: WSA-323, WSA-423.

### WSA-451<sup>♦</sup>: Worship Arts Capstone Project 2 credits

This course offers students experience in planning and producing all aspects of a worship event. Throughout this course, students work collaboratively to complete a worship arts project and to prepare to seek employment in ministry. Prerequisite: 90 credit hours.

### Worship Arts: Voice (WVA)

### WVA-111\*: Private Voice Study I

1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

### WVA-112\*: Private Voice Study II 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

#### WVA-211\*: Private Voice Study III 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

#### WVA-212♦: Private Voice Study IV 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

#### WVA-310<sup>♦</sup>: Private Voice Study IV 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

#### WVA-311<sup>♦</sup>: Private Voice Study V 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

### WVA-312<sup>♦</sup>: Private Voice Study VI 1 credits

This course in private applied vocal study concentrates on vocal technique and repertoire for the contemporary Christian musician.

### Youth Ministry (YMN)

### YMN-305\*: Philosophy and Theology of Youth 4 credits Ministry

This course explores the biblical, educational, theological, and philosophical foundations of youth ministry. Students assess their personal gifts and personalities in relation to ministry.

### YMN-350\*: Leadership and Administration in 4 credits Youth Ministry

This course is an intensive examination of the philosophy and principles for youth ministry programming, including ministry purpose and goals, leadership development, teaching strategies, outreach strategies, budgeting, and evaluation. Prerequisite: YMN-305.

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

### YMN-355\*: Adolescent Development and Faith 4 credits Formation

This course examines the developmental life stage of adolescence and the formation of faith. An emphasis is placed on the adolescent's family in its cultural setting and the developmental and spiritual needs of family members. Prerequisite: YMN-305.

### YMN-455<sup>♦</sup>: Adolescent Issues and Intervention 4 credits

This course examines skills and practices of ministry to adolescents at risk. Students explore a philosophy of pastoral care from a practical theology and biblical perspective. The course addresses issues and problems that grow out of the developmental process, disorders that begin during or are unique to adolescence, as well as intervention, prevention, and referral strategies. The course serves as "pastoral first aid" where students will learn basic helping skills. Prerequisite: YMN-305.

<sup>&</sup>lt;sup>Δ</sup> Writing intensive course | <sup>♦</sup> Fulfills General Education requirement | <sup>‡</sup> Honors Major Course | <sup>Ω</sup> Non-Transferable

## Appendix

# Nevada Commission on Postsecondary Education Grand Canyon University - VA SAA Submission Addendum

Institutional Changes – Henderson, NV Location (2023-2025)

Faculty Name	Educational Credentials	Position Title	Start Date
Dana Pionk	MSN, RN	Adjunct Faculty	Jun-23
Carol Johnson	MSN, RN	Instructor	Jun-23
Deborah Ackman	DNP, MSN, RN	Assistant Professor	Jun-23
Autum Sparlin	MSN, RN	Adjunct Faculty	Jun-23
Misty Wrght Genous	DNP, MSN, APRN	Adjunct Faculty	Jun-23
JoAnn Nardoni	MSN, RN	Adjunct Faculty	Jun-23
Courtney Farese	MSN, RN	Adjunct Faculty	Jun-23
Gregory Walker	MSN, RN	Adjunct Faculty	Jun-23
Sherri Lindsey	DNP, MSA, RN	Instructor	Jun-23
Michelle Vaughn	MBA-MSN, RN	Instructor	Jun-23
Dextrer Abraham	MSN, RN	Adjunct Faculty	Dec-23
Clearist Bethea	MSN, RN	Adjunct Faculty	Dec-23
Deborah Bevington	MSN-Ed, RN	Instructor	Dec-23
David Brems	DNP, MHA, RN	Adjunct Faculty	Dec-23
Karina Gedgaudas	MSN, RN	Adjunct Faculty	Dec-23
Kam-Lin Gregory	MSN, APRN, RN	Adjunct Faculty	Dec-23
Mary Howell	MSN, RN	Adjunct Faculty	Dec-23
Stephanie Mello	MSN, RN	Adjunct Faculty	Dec-23
Beth Mueller	PhD, MSN-Ed, RN	Instructor	Dec-23
Christine Patrick	MSN-Ed, RN	Adjunct Faculty	Dec-23
Amber Peters	MSN-Ed, RN	Adjunct Faculty	Dec-23
Brittany Raines	MSN, RN	Adjunct Faculty	Dec-23
Lisa Richards	MSN-Ed, RN	Adjunct Faculty	Dec-23
Christina Rivera	MSN, RN	Adjunct Faculty	Dec-23
Tamara Shelton	MSN, RN	Adjunct Faculty	Dec-23
Paula Sy	MSN, RN	Adjunct Faculty	Dec-23
Sheree Thornton	MSN, RN	Adjunct Faculty	Dec-23
Traci Vazquez	MSN-Ed, RN	Instructor	Dec-23
Violeta Aguirre	MSN, RN	Adjunct Faculty	Jun-24
Antonette Bell	DNP, MSN, RN	Immersive Simulation Facilitator	Jun-24
Lara Cabatingan	MSN, RN	Adjunct Faculty	Jun-24
Irish Jane Ilano	MSN-Ed, RN	Adjunct Faculty	Jun-24

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{\bullet}$  Fulfills General Education requirement |  $^{f}$  Honors Major Course |  $^{\Omega}$  Non-Transferable

Angela Jimenez	DNP, APRN, RN	Instructor	Jun-24
Lenah Karimi	MSN, RN	Adjunct Faculty	Jun-24
Yuliya Malishkin	MSN, RN	Instructor	Jun-24
Zyla Maliwanag	MSN, RN	Immersive Simulation Facilitator	Jun-24
Angela Mike	DNP, CNM, RN	Adjunct Faculty	Jun-24
Lourdes Pineda	DNP, MSN, RN	Adjunct Faculty	Jun-24
Kimberly Presto	DNP, MSN-Ed, RN	Instructor	Jun-24
Danielle Pringle	MSN, RN	Adjunct Faculty	Jun-24
Rosario Rondael	DNP, MSN, RN	Adjunct Faculty	Jun-24
Tashua Schirmeister	MSN, APRN, RN	Adjunct Faculty	Jun-24
Roxanne Telford	MSN, RN	Adjunct Faculty	Jun-24
Jaizee-Robin Duron	MSN, RN	Adjunct Faculty	Dec-24
Shirley Fraser- Webster	DNP, MSN, RN	Instructor	Dec-24
Christina Gentile	MSN, APRN, RN	Adjunct Faculty	Dec-24
Candi Long	MSN, APRN, MPH, RN	Adjunct Faculty	Dec-24
Ivy Mae Marzo	MSN, APRN, RN	Adjunct Faculty	Dec-24
Jayison McCorkle	MSN, APRN, RN	Adjunct Faculty	Dec-24
Sharon Moritz	PhD-Ed, MSN, RN	Director of Instruction-Prelicensure Program-Main Campus and ABSN Sites	Dec-24
Benjamin Pike	MSN, APRN, RN	Adjunct Faculty	Dec-24
Mary Joy Santos	MSN, RN	Adjunct Faculty	Dec-24
Joanna Shedd	PhD, MSN, RN	Instructor	Dec-24
Dana Smith	MSN-Ed, RN	Adjunct Faculty	Dec-24
Stephanie Sumalinog	MSN, RN	Adjunct Faculty	Dec-24
Maria Carolnina Tu	MSN-Ed, RN	Adjunct Faculty	Dec-24
Siboney Zelaya	PhD, MPH, MSN- Ed, RN	Immersive Simulation Facilitator	Dec-24

### **Curriculum Changes**

- There were no curriculum changes to the Bachelor of Science in Nursing, Pre-Licensure, Accelerated program. This is the only program offered at this location.

### **New Start Dates**

- There are no new start dates for this program. GCU continues to enroll new students three times per year at the site (January, May, and September).

 $<sup>^{\</sup>Delta}$  Writing intensive course |  $^{ullet}$  Fulfills General Education requirement |  $^{\sharp}$  Honors Major Course |  $^{\Omega}$  Non-Transferable