



Grand Canyon University
Academic Catalog
2009-2010

Academic Programs Version Record

Edition	Version	Updated	Changes Made
Summer 2009	1.0	03/27/09	▪ Extracted academic policies from Academic Catalog and relocated them to the Academic Policy Handbook. ▪ Updated the Degrees Offered section. ▪ Updated course information within the Master of Science in Addiction Counseling. ▪ Retired the Bachelor of Science in Corporate Fitness and Wellness. ▪ Added information about additional technology requirements to the following: ▪ Bachelor of Arts in Communications; ▪ Graphic Design/Animation Concentration. ▪ Added information about additional

The University reserves the right to make changes of any nature to the calendar, admission, 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.

Table of Contents

DEGREES OFFERED	1
GRADUATE PROGRAMS	1
<i>Doctor of Education Degree in Organizational Leadership</i>	1
<i>Master of Arts in Teaching</i>	1
<i>Master of Education</i>	1
<i>Master of Business Administration</i>	1
<i>Master of Science</i>	1
UNDERGRADUATE PROGRAMS	1
<i>Bachelor of Arts</i>	1
<i>Bachelor of Science</i>	1
<i>Undergraduate Minors</i>	2
<i>Concentrations</i>	2
<i>Graduate and Undergraduate Certificates</i>	2
GRAND EXPERIENCE (GENERAL EDUCATION REQUIREMENTS)	3
OVERVIEW	3
GRAND EXPERIENCE REQUIREMENTS	3
POLICIES	3
ASSESSED PLACEMENT IN MATHEMATIC AND ENGLISH CLASSES	4
<i>Placement Time Frames</i>	4
SELF-PLACEMENT IN ENGLISH CLASSES	4
DEGREE EMPHASIS	4
THE KEN BLANCHARD COLLEGE OF BUSINESS	6
COLLEGE DESCRIPTION	6
COLLEGE MISSION	6
COLLEGE FEATURES	6
SCHOOL OF BUSINESS STUDIES	6
SCHOOL OF BUSINESS STUDIES	6
<i>Bachelor of Science in Accounting</i>	7
<i>Bachelor of Science in Business Administration</i>	7
<i>Bachelor of Science in Entrepreneurial Studies</i>	7
<i>Bachelor of Science in Finance and Economics</i>	8
<i>Bachelor of Science in Marketing</i>	8
<i>Internship Guidelines</i>	8
GRADUATE PROGRAMS	9
<i>Master of Business Administration</i>	9
<i>Master of Business Administration Degree Requirements</i>	9
<i>Areas of Emphasis</i>	9
<i>Dual-Degree Programs</i>	11
<i>Master of Business Administration/Master of Science in Leadership (Dual-Degree)</i>	11
<i>Executive Master of Business Administration</i>	11
SCHOOL OF PROFESSIONAL STUDIES	11
<i>Bachelor of Science in Applied Management</i>	12
<i>Bachelor of Science in Emergency Management</i>	12
<i>Bachelor of Science in Public Safety Administration</i>	12
<i>Master of Science in Leadership</i>	13
<i>Certificate in Emergency Management: Health Care</i>	13
<i>Certificate in Emergency Management: Public Safety</i>	14
<i>Master of Science in Executive Fire Service Leadership</i>	14
THE COLLEGE OF EDUCATION.....	15

COLLEGE DESCRIPTION	15
COLLEGE MISSION	15
COLLEGE FEATURES	15
<i>Fingerprint Clearance</i>	15
<i>Benchmarks</i>	15
<i>Practicum Experiences</i>	15
<i>Basic Skills and Content Area Exams</i>	15
<i>Student Teaching</i>	15
<i>Internships</i>	16
UNDERGRADUATE PROGRAMS	16
<i>Endorsements</i>	16
<i>Student Teaching</i>	17
<i>Required Testing for Certification</i>	17
<i>Bachelor of Science in Elementary Education/Special Education (K-12)</i>	17
<i>Bachelor of Science in Elementary Education (Grades K-8)</i>	18
<i>Bachelor of Science in Secondary Education (Grades 7-12)</i>	19
GRADUATE DEGREE REQUIREMENTS	21
GRADUATE PROGRAMS	21
<i>Master of Arts in Teaching</i>	21
<i>Master of Education in Education Administration</i>	22
<i>Master of Education in Education Administration with an Emphasis in Organizational Leadership</i>	22
<i>Master of Education in Education Administration with an Emphasis in School Leadership</i>	23
<i>Master of Education in Elementary Education</i>	23
<i>Master of Education in Elementary Education</i>	24
<i>Master of Education in Curriculum and Instruction: Reading</i>	24
<i>Master of Education in Curriculum and Instruction: Technology</i>	25
<i>Master of Education in Secondary Education</i>	25
<i>Master of Education in Special Education for Certified Special Educators</i>	26
<i>Master of Education in Special Education</i>	27
<i>Master of Education in Teaching English to Speakers of Other Languages (TESOL)</i>	28
<i>Doctor of Education (Ed.D.) in Organizational Leadership</i>	28
THE COLLEGE OF NURSING AND HEALTH SCIENCES	30
COLLEGE OF NURSING DESCRIPTION	30
COLLEGE OF NURSING MISSION	30
COLLEGE OF NURSING FEATURES	30
COLLEGE OF NURSING PHILOSOPHY	30
COLLEGE OF NURSING POLICIES	31
<i>CPR Requirements</i>	31
<i>Policy for Student Drug Screening</i>	31
<i>HIPAA Guidelines</i>	33
<i>Pre-Licensure Bachelor of Science in Nursing</i>	33
<i>Clinical Participation and Safety Guidelines for Pre-Licensure Programs</i>	35
UNDERGRADUATE PROGRAMS	39
<i>Bachelor of Science in Nursing (BSN) Pre-Licensure</i>	39
<i>Registered Nurse to Bachelor of Science in Nursing (RN to BSN)</i>	39
GRADUATE DEGREE REQUIREMENTS	41
GRADUATE PROGRAMS	42
<i>Registered Nurse to Master of Science-Nursing</i>	42
<i>Master of Science-Nursing (MS Nursing)</i>	43
<i>Post-Master of Science-Nursing Certificates</i>	43
<i>Master of Science-Nursing: Family Nurse Practitioner (FNP)</i>	43
<i>Master of Science-Nursing: Nursing Leadership in Health Care Systems (NL)</i>	44
<i>Master of Science-Nursing: Adult Clinical Nurse Specialist (CNS)</i>	44
<i>Master of Science-Nursing: Adult Clinical Nurse Specialist (CNS-NEd) (education focus)</i>	44
<i>Master of Science-Nursing: Nursing Education</i>	45

<i>Master of Business Administration and Master of Science in Nursing: Nursing Leadership in Health Care Systems (Dual-Degree)</i>	45
COLLEGE OF HEALTH SCIENCES VISION	45
COLLEGE OF HEALTH SCIENCES MISSION	46
BIOMEDICAL SCIENCES	46
<i>Bachelor of Science in Biology: Biomedical Science</i>	46
<i>Bachelor of Science in Biology: Pre-Medicine</i>	46
<i>Bachelor of Science in Biology: Pre-Pharmacy</i>	47
<i>Bachelor of Science in Biology: Pre- Physician Assistant</i>	48
<i>Bachelor of Science in Biology: Pre-Physical Therapy</i>	49
<i>Physical Therapy Assistant to Bachelor of Science in Biology: Pre-Physical Therapy (PTA to Pre-PT)</i>	49
<i>Bachelor of Science in Health Sciences: Professional Development and Advanced Patient Care</i>	50
<i>Bachelor of Science in Respiratory Care</i>	51
MEDICAL IMAGING SCIENCES	51
<i>Bachelor of Science in Medical Imaging Sciences</i>	51
NON-DEGREE CERTIFICATES OF COMPLETION IN MEDICAL IMAGING SCIENCES	52
<i>Certificate of Completion in Computed Tomography</i>	52
<i>Certificate of Completion in Magnetic Resonance Imaging</i>	53
<i>Certificate of Completion in Mammography</i>	53
ATHLETIC TRAINING AND PHYSICAL EDUCATION	53
<i>CPR Requirements</i>	58
<i>HIPAA Guidelines</i>	59
<i>Bachelor of Science in Athletic Training</i>	60
<i>Bachelor of Science in Physical Education</i>	61
PROFESSIONAL COUNSELING	61
<i>Bachelor of Science in Addiction Counseling</i>	62
<i>Master of Science in Addiction Counseling</i>	62
<i>Master of Science in Professional Counseling</i>	63
<i>Certificate of Completion in Advanced Graduate Studies in Addiction Counseling</i>	63
THE COLLEGE OF LIBERAL ARTS	64
COLLEGE DESCRIPTION	64
COLLEGE MISSION	64
COLLEGE FEATURES	64
MATHEMATICS-PLACEMENT EXAMINATION	64
DEPARTMENT OF CHRISTIAN STUDIES	64
<i>Bachelor of Arts in Christian Studies</i>	64
DEPARTMENT OF HUMANITIES	65
<i>Bachelor of Arts in Communications</i>	65
<i>Bachelor of Arts in English Literature</i>	66
<i>Bachelor of Arts in Interdisciplinary Studies</i>	66
DEPARTMENT OF SOCIAL SCIENCES	67
<i>Department Description</i>	67
<i>Bachelor of Arts in History</i>	67
<i>Bachelor of Science in Justice Studies</i>	67
<i>Bachelor of Science in Psychology</i>	67
<i>Bachelor of Science in Sociology</i>	68
UNDERGRADUATE MINORS AND CONCENTRATIONS	69
<i>Concentrations</i>	69
<i>Minors</i>	70
ACADEMIC ADMINISTRATION	72
FACULTY	73
KEN BLANCHARD COLLEGE OF BUSINESS.....	73

COLLEGE OF EDUCATION	73
COLLEGE OF LIBERAL ARTS	74
COLLEGE OF NURSING AND HEALTH SCIENCES	75
COURSE DESCRIPTIONS	77
ACCOUNTING (ACC).....	77
AEROSPACE STUDIES (AES)	78
APPLIED MANAGEMENT (AMP).....	79
ART EDUCATION (ARE).....	79
ART HISTORY (ARH).....	80
ART STUDIO (ART).....	80
BIBLE (BIB)	80
BIOLOGY (BIO).....	81
BUSINESS (BUS)	84
CHRISTIAN LEADERSHIP (CHL)	85
CHEMISTRY (CHM)	86
(CMP).....	87
COMPUTER INFORMATION SYSTEMS (CIS).....	87
COMMUNICATIONS (COM)	88
COMPUTER SCIENCE (CSC).....	89
DESIGN STUDIO (DGN).....	89
DISSERTATION (DIS).....	90
ECONOMICS (ECN)	90
EDUCATION ADMINISTRATION (EDA)	91
EDUCATION (EDU)	92
ELEMENTARY EDUCATION (EED).....	94
EXECUTIVE FIRE LEADERSHIP (EFL)	95
EMERGENCY MANAGEMENT (EMM)	97
ENGLISH (ENG)	98
ENTREPRENEURSHIP (ENT).....	99
SCHOOL COUNSELING (EPC)	100
PHYSICAL EDUCATION – ARMY (EPE).....	100
ENGLISH AS A SECOND LANGUAGE (ESL)	101
EXERCISE SCIENCE (EXS).....	102
FAMILY STUDIES (FAM).....	103
FINANCE (FIN).....	104
FOREIGN LANGUAGE (FLA).....	105
GEOGRAPHY (GEO).....	105
GEOLOGY (GLG)	105
HISTORY/SOCIAL SCIENCE (HIS)	105
HEALTH EDUCATION (HLT).....	106
HEALTH SYSTEMS MANAGEMENT (HSM)	108
HISTORY AND THEOLOGICAL STUDIES (HTH)	109
INTERCULTURAL MINISTRIES (INT).....	109
JUSTICE STUDIES (JUS).....	109
LEADERSHIP (LDR)	111
ORGANIZATIONAL LEADERSHIP (LOR).....	111
MATHEMATICS (MAT).....	112
CHURCH MUSIC (MCH).....	113
MEDICAL IMAGING (MDI)	113
MEDICAL/MUSIC EDUCATION (MED).....	114
MUSIC ENSEMBLES (MEN).....	115
MANAGEMENT (MGT).....	115
CHRISTIAN STUDIES (MIN).....	117
MILITARY SCIENCE (MIS).....	118
MARKETING (MKT).....	119

LEADERSHIP (MLE)	120
MUSIC (MUS)	121
NURSING (NRS)	121
NURSING (NUR)	123
PROFESSIONAL COUNSELING (PCN)	128
PHYSICAL EDUCATION (PED)	130
PHILOSOPHY (PHI)	131
PHYSICS (PHY)	132
POLITICAL SCIENCE (POS)	132
PUBLIC SAFETY ADMINISTRATION (PSA)	133
PSYCHOLOGY (PSY)	134
READING EDUCATION (RDG)	136
RECREATION (REC)	137
RESEARCH (RES)	137
RESIDENCY (RSD)	138
SECONDARY EDUCATION (SED)	139
SOCIOLOGY (SOC)	140
SPANISH (SPA)	141
SPECIAL EDUCATION (SPE)	142
SYSTEMS MANAGEMENT (SYM)	146
TECHNICAL CREDITS (TEC)	148
THEATER AND DRAMA (TRE)	149
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TSL)	149
UNIVERSITY STUDIES (UNV)	150
CREATIVE ARTS IN WORSHIP (WOR)	151

Degrees Offered

The University offers curricula leading to the degrees of Doctor of Education, Master of Arts in Teaching, Master of Education, Master of Business Administration, Master of Science, Bachelor of Arts, and Bachelor of Science.

Graduate Programs

Doctor of Education Degree in Organizational Leadership

The Doctor of Education Degree (EdD) in Organizational Leadership program is delivered through a combination of online courses and face-to-face residencies. The program's curriculum and instruction is shared by the College of Education and the Ken Blanchard College of Education, meeting the needs of master's-prepared professionals seeking a terminal degree in leadership.

Master of Arts in Teaching

The Master of Arts in Teaching degree is in the online format and has been designed to promote a high quality graduate education experience in the convenience of a community or school without residency requirements. This program meets the needs of the practitioner in the field who does not intend to pursue further degrees. Rather, the primary focus is upon improving the quality of instruction for the certified teacher.

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:

- Curriculum and Instruction
 - Reading[€]
 - Technology[€]
- Education Administration*
 - Emphasis in Organizational Leadership[€]
 - Emphasis in School Leadership[€]
- Elementary Education*[€]
- Secondary Education*[€]
- Special Education*[€]
- Special Education For Certified Special Educators[€]
- Teaching English to Speakers of Other Languages[€]

* Eligible for Institutional Recommendation/Credential

[€] Not Eligible for Institutional Recommendation/Non-Credential

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:

- Accounting
- Finance
- General Management
- Health Systems Management
- Leadership
- Management of Information Systems
- Marketing
- Six Sigma

Additional Degree Program

- Executive Master of Business Administration

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.

- Addiction Counseling
- Executive Fire Service Leadership
- Leadership
 - Disaster Preparedness and Crisis Management
- Nursing
 - Clinical Nurse Specialist
 - Clinical Nurse Specialist with Education Focus
 - Family Nurse Practitioner
 - Nursing Education
 - Nursing Leadership in Health Care Systems
 - Registered Nurse to Master of Science
- Professional Counseling

Undergraduate Programs

Bachelor of Arts

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

- Christian Studies
- Communications
- English Literature
- History
- Interdisciplinary Studies

Bachelor of Science

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

- Accounting
- Addiction Counseling
- Applied Management

- Athletic Training
- Biology
 - Biomedical Science
 - Pre-Medicine
 - Pre-Pharmacy
 - Pre-Physical Therapy
 - Pre-Physician Assistant
 - Physical Therapy Assistant to Pre-Physical Therapy
- Business Administration
- Elementary Education
 - Emphasis in Early Childhood Education*
 - Emphasis in English*
 - Emphasis in Mathematics*
 - Emphasis in Science*
- Elementary Education/Special Education
- Emergency Management
- Entrepreneurial Studies
- Finance and Economics
- Health Sciences: Professional Development and Advanced Patient Care
- Justice Studies[§]
- Marketing
- Medical Imaging Sciences
- Nursing
 - Pre-licensure Program
 - Registered Nurse to BSN
- Physical Education[§]
- Psychology[§]
- Public Safety Administration
- Respiratory Care
- Secondary Education
 - Biology*
 - Business Education
 - Chemistry
 - English
 - Mathematics*
 - Physical Education*
 - Social Studies*
- Sociology[§]

*Eligible for Institutional Recommendation/Credential

[§] Minor Recommended

Undergraduate Minors

See the [Undergraduate Minors and Concentrations](#) section of the Academic Catalog for more details.

- Athletic Coaching

- Behavioral Sciences
- Business
- Christian Studies
- Communications
- English Literature
- Health Education
- History
- Justice Studies
- Psychology
- Sociology

Concentrations

- Accounting
- Biblical and Theological Studies
- Christian Leadership
- Crime Scene Technology
- Digital Film Production
- Entrepreneurial Studies
- Finance and Economics
- Graphic Design and Animation
- Healthcare Management
- Management
- Management Information Systems
- Marketing
- Pastoral Ministry
- Public Relations
- Spanish
- Sports Management
- Youth Ministry

Graduate and Undergraduate Certificates

- Certificate of Completion in Advanced Graduate Studies in Addiction Counseling
- Certificate in Emergency Management: Health Care
- Certificate in Emergency Management: Public Safety
- Certificate of Completion in Computed Tomography
- Certificate of Completion in Magnetic Resonance Imaging
- Certificate of Completion in Mammography

Post Master of Science – Nursing Certificates

- Family Nurse Practitioner
- Clinical Nurse Specialist
- Clinical Nurse Specialist with Education Focus
- Nursing Education

Grand Experience (General Education Requirements)

Overview

The Grand Experience 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 Grand Experience's Learner Outcomes. Grand Experience 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 Grand Experience University Competencies. The knowledge and skills students acquire through these courses serve as a foundation for successful careers and life long journeys of growing understanding and wisdom.

Grand Experience Requirements

Area of Study	GCU Course(s)
University Success Minimum of 3 credits	UNV 101 (Note: Students who transfer 24 or more credits into their academic programs are exempt from the UNV 101 requirement.)
Christian Studies Minimum of 6 credits	- Christian Studies course - BIB 113 - INT 463 - BIB 123 - PHI 101
Communication Minimum of 3 credits	COM 101
English Composition Minimum of 6 credits	- ENG 101 ^Δ - ENG 102 ^Δ
History Minimum of 3 credits	- History course - HIS 103 - HIS 107 - HIS 104 - HIS 108
Humanities Minimum of 4 credits	- Interdisciplinary course - UNV 200
	OR
	- Two Fine Arts, Literature, and/or Philosophy courses - MUS 252 - PHI 222 - HLT 322

Area of Study	GCU Course(s)
Mathematical Inquiry Minimum of 3 credits	MAT 120 or higher-level course
Social Sciences Minimum of 3 credits	- ECN 211 - JUS 100 - PSY 101 - ECN 212 - POS 100 - SOC 101
Bachelor of Arts (Language Inquiry) Minimum of 8 credits	Foreign Language courses
Bachelor of Science (Scientific Inquiry) Minimum of 8 credits	Science courses
Minimum Total Grand Experience Credits	
39 credits	

Policies

Christian studies courses may be taken from the Christian Foundations and/or the Christian Expressions categories. Various programs of study may also specify particular courses that can be used to fulfill the Christian Studies requirement.

GCU will accept transfer credits to meet the Grand Experience Christian Studies requirements that have the following course prefixes and meet the specified guidelines:

- A course prefix that indicates Biblical, theological, and/or religious studies courses (e.g., BIB, THEO, REL)
- A course prefix that indicates Christian studies or Christian leadership or ministry courses (e.g., MIN – Ministry, CHL – Christian Leadership)
- Courses with HUM (Humanities) prefix may also be used to satisfy this requirement but will be reviewed on a case by case basis
- Courses which are deemed equivalent to any GCU course which satisfies the Christian Studies requirement.

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

Assessed Placement in Mathematic and English Classes

All students enrolling in Intermediate Algebra (MAT 120) or College Algebra (MAT 121) must take a mathematics placement test. All students enrolling in Academic Writing (ENG 101) must take a writing placement test. Being placed in the course that is appropriate for students' experience and knowledge is important for success. Students who enroll in a course that is more advanced than the course recommended by the placement exam risk earning sub-standard grades.

Students should take placement tests before the start of classes and within the appropriate time window for a given semester (see below).

Placement Time Frames

Because skills can atrophy over time, placement tests for a course must be taken reasonably close in time to the semester when the course is taken. The time window for each semester is given below.

Semester of Course	Time Window for Placement Test
Fall	the preceding Spring semester
Spring	the preceding Fall semester
Summer Session	the preceding Spring semester

Math Placement Results

- Total Correct Score less than 40 - Student is ready for placement into mathematical concepts (MAT 100).
- Total Correct Score between 40 and 62 – Student is ready for placement into intermediate algebra (MAT 120).
- Total Correct Score above 62 - Students should be considered for placement into college algebra (MAT 121) or a credit-bearing course immediately preceding calculus should they require it.

English Placement Results

- Total Correct Score less than 70 - Student is ready for placement into Writing Concepts (UNV 105).
- Total Correct Score between 70 and 90 - Student is ready for placement into Academic Writing (ENG 101).
- Total Correct Score above 90 - Students should be considered for placement into an honors composition class (ENG 103).

Self-Placement in English Classes

Freshman and transfer students have the opportunity to make an important decision that may affect their success in courses at Grand Canyon University. They have the choice of enrolling in one of two courses that have proven to be beneficial for students who need to improve writing skills in order to succeed at meeting college-level communication expectations.

Specifically, if a student's ACT scores are 1-18 and/or their SAT verbal score is 200-389, then the administration strongly recommends that students enroll in UNV 105 (Writing Experience I). If ACT scores are 19-20 and/or SAT Verbal scores are 390-469, the administration strongly recommends that these students enroll in UNV 110 (Writing Experience II).

Even if ENG 101 and 102 have already been completed at another institution, these students will likely benefit from taking either of these courses if their test scores fall within these lower ranges. Also, students who have been away from college for an extended amount of time will benefit greatly from taking these courses as a refresher of the basics. See the accompanying chart for complete placement information.

Students who have been placed in ENG 103 Honors Composition based on placement results, ACT, and/or SAT scores may satisfy the requirements of the English section the Grand Experience requirements by successfully completing this course. ENG 103 replaces ENG 101 and ENG 102 in content but not in total credit hours. Only English faculty may place students in ENG 103 based on SAT and/or ACT test scores.

ACT English Scores	SAT Verbal Scores	Recommended Placement
1 – 18	200 – 389	UNV 105
19 – 20	390 – 469	UNV 110
21 – 28	470 – 589	ENG 101 / 102
29 or above	590 or above	ENG 103 (Honors)
500 or above on TOEFL		ENG 101 / 102

Degree Emphasis

By the beginning of the junior year, undergraduate students are required to select one subject area, a major, in which they must present at least 30 semester hours of acceptable credit. In certain areas of study, the number of hours required for a major exceeds 30. At least 15 hours must be upper division. Transfer students should consult the paragraph concerning [Minimum Residence](#). Students must also have a cumulative 2.00 GPA in their major. Courses with a grade below 2.0 are not permitted to count toward the major. A candidate for a secondary teaching certificate must have a 2.50 average or above in the teaching major.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Undergraduate students may also select a different subject area, to be known as the minor, in which they must present 18+ hours of acceptable credit. Of these hours, six must be from upper division courses. Students must have a 2.00 GPA in their minor and are not permitted to count in the minor any course with a grade below 2.00.

Students who want certification to teach their minor subject area should earn 24 hours in that field. Students should consult the College of Education for details.

A student may elect to complete a second major in lieu of a minor. A student who chooses to complete two majors will earn only one baccalaureate degree. (If two baccalaureate degrees are sought, see [Double Degree](#) policies.)

No course may count toward hours required for the completion of both major and minor, or both majors if pursuing a second major in lieu of a minor.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

The Ken Blanchard College of Business

College Description

The Ken Blanchard College of Business (KBCOB) 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

Ken Blanchard 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 Ken Blanchard 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. Grand Canyon University is accredited by the Association of Collegiate Business Schools and Programs (ACBSP) to offer the following degrees: Bachelor of Science in Accounting, Bachelor of Science in Economics and Finance, Bachelor of Science in Entrepreneurship, Bachelor of Science in Management, Bachelor of Science in Marketing, and Master of Business Administration.

The School of Business Studies offers a Bachelor of Science (BS) degree with majors in Accounting, Entrepreneurship, Finance and Economics, Management, and Marketing. 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. 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 management 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 Master of Business Administration (MBA) program, designed for working professionals, provides emphases in Accounting, Finance, General Management, Health Systems Management, Leadership, Management of Information Systems, Marketing, and Six Sigma. 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. 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.

In addition to their degree offerings, the Ken Blanchard College of Business offers students the opportunity to be members of two student organizations:

- Institute of Management Accountants (IMA) Student Chapter, is open to any student interested in business, is affiliated with the Phoenix Chapter of the IMA. Primary activities include sponsoring guest speakers, visiting area businesses, performing community service projects, and participating in Phoenix Chapter IMA events.
- Delta Mu Delta, a national honor society, is open to both graduate and undergraduate students by invitation only based primarily upon scholastic achievement.

School of Business Studies

Undergraduate Program Credits

The Grand Experience	39 credits
Business Core	39 credits
Major	24 credits
Free Electives	18 credits
Total Bachelor of Science Requirements	120 credits

Business Core

ECN 211	Microeconomic Principles	3 credits
MGT 301	Principles of Management	3 credits
MKT 301	Principles of Marketing	3 credits
FIN 301	Fundamentals of Business Finance	3 credits
BUS 251	Business Statistics	3 credits
ECN 212	Macroeconomic Principles	3 credits
BUS 316	Ethical and Legal Issues in Business	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MGT 415^Δ	Organizational Behavior	3 credits
ACC 211	Financial Accounting	3 credits
ACC 212	Managerial Accounting	3 credits
SYM 301	Principles of Information Systems	3 credits
MGT 310	Production and Operations Management	3 credits
BUS 480^Δ	Strategic Management	3 credits
Total Business Core Hours		39 credits

Bachelor of Science in Accounting

Degree Requirements

The Bachelor in Science in Accounting is designed to prepare students for professional practice in corporate accounting, corporate finance, or public accounting. Completing the requirements for the accounting major qualifies students to sit for the Certified Management Accountant (CMA) examination.

The Grand Experience	39 credits
Business Core	39 credits
Accounting Major	24 credits
Free Electives	18 credits
Total Bachelor of Science in Accounting	120 credits

Accounting Major

ACC 321	Intermediate Accounting I	3 credits
ACC 322	Intermediate Accounting II	3 credits
ACC 331	Cost Accounting	3 credits
ACC 483	Advanced Accounting	3 credits
ACC 429	Corporate Taxation	3 credits
ACC 430	Accounting Information Systems	3 credits
ACC 401	Financial Statement Analysis	3 credits
ACC 490	Auditing	3 credits
Total Accounting Emphasis		24 credits

Bachelor of Science in Business Administration

Degree Requirements

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

<u>The Grand Experience</u>	39 credits
<u>Business Core</u>	39 credits
Business Administration Major	24 credits
Free Electives	18 credits
Total Bachelor of Science in Business Administration	120 credits

Business Administration Major

MGT XXX	Courses with MGT prefix	9 credits
ACC XXX	Course with ACC prefix	3 credits
ECN XXX	Course with ECN prefix	3 credits
ENT XXX	Course with ENT prefix	3 credits
FIN XXX	Course with FIN prefix	3 credits
MKT XXX	Course with MKT prefix	3 credits
		24 credits

Bachelor of Science in Entrepreneurial Studies

Degree Requirements

Grand Canyon University's Bachelor of Science in Entrepreneurial Studies program is built on the principles of personal integrity, values, and innovation. Emphasizing the philosophy of being an "Entrepreneurial School by Entrepreneurs," the program provides students with the skills to think analytically, ask the right questions, solve problems, and function as an entrepreneur in both small and large companies. Students are prepared to be self-motivated, self-managed, and self-disciplined entrepreneurs with the skill-set to manage their own careers either by starting their own business venture or working within a start-up, entrepreneurial business environment. Interaction with successful entrepreneurs, business consulting opportunities, and individual venture capital projects are highlighted in the program.

The Grand Experience	39 credits
Business Core	39 credits
Entrepreneurial Studies Major	24 credits
Free Electives	18 credits
Total Bachelor of Science in Entrepreneurial Studies	120 credits

Entrepreneurial Studies Major

ENT 100	The Entrepreneurial Economy	3 credits
ENT 250	Public Relations and Networking Skills	3 credits
ENT 350	Sales and Negotiation Skills	3 credits
ENT 351	Legal Aspects for Entrepreneurs	3 credits
ENT 353	Venture Capital	3 credits
ENT 450	Social Entrepreneurship	3 credits
BUS 418	Entrepreneurship	3 credits
ENT 453	Intrapreneurship and Innovation	3 credits
Total Entrepreneurship Emphasis		24 credits

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✦] Fulfills Grand Experience Christian Studies requirement

Bachelor of Science in Finance and Economics

Degree Requirements

The Bachelor in Science in Finance and Economics is designed to prepare students for entry level positions in banking or corporate finance through major coursework that addresses advanced issues in finance and economics.

The Grand Experience	39 credits
Business Core	39 credits
Finance and Economics Major	24 credits
Free Electives	18 credits
Total Bachelor of Science in Finance and Economics	120 credits

Finance and Economics Major

ECN 363	Money and Banking	3 credits
FIN 402	Intermediate Finance	3 credits
ECN 407	Managerial Economics	3 credits
FIN 426	Investments and Portfolio Management	3 credits
ECN 425	International Trade and Finance	3 credits
ACC 401	Financial Statement Analysis	3 credits
FIN 428	Advance Financial Strategies	3 credits
FIN 434	Ethics and Values in corporate Finance	3 credits
Total Finance and Economics Major		24 credits

Bachelor of Science in Marketing

Degree Requirements

Grand Canyon University's Bachelor of Science in Marketing program prepares students to compete for entry-level management positions in corporate marketing or brand management through major coursework that addresses marketing principles, marketing management, and technology as tool.

The Grand Experience	39 credits
Business Core	39 credits
Marketing Major	24 credits
Free Electives	18 credits
Total Bachelor of Science in Marketing	120 credits

Marketing Major

MKT 302	Buyer and Consumer Behavior	3 credits
MKT 303	Sales and Sales Management	3 credits
MKT 304	Promotion and Advertising	3 credits
MKT 306	Services Marketing	3 credits
MKT 409	Retailing and E-tailing	3 credits
MKT 425	International Marketing	3 credits

MKT 440	Marketing Research and Reporting	3 credits
MKT 480	Marketing Management	3 credits
Total Marketing Emphasis		24 credits

Internship Guidelines

Internships are strongly recommended for all academically qualified campus students and are available in Fall, Spring, and Summer semesters for any discipline taught in the Ken Blanchard College of Business. In order to make arrangements for an internship, the student should see the Director of the Internship Program.

Guidelines for a Business Internship

Internships are limited to students who have completed at least two years of college work.

A maximum of two semesters of internships may be taken. The second semester should be taken with a different organization than the first.

A maximum of six credit credits can be awarded. Normally, internships are for three credit credits per semester. Interns are expected to complete a minimum of 45 hours of documented work for each academic credit earned.

No academic credit will be granted for performing duties in the student's current job. An internship with a student's past or current employer must be for a special internship assignment and not be a part of his or her regular job assignment. In no case will academic credit be granted for work done in the past.

A faculty member within the Ken Blanchard College of Business will serve as faculty sponsor for their internship. The faculty sponsor will assist the student in developing written goals for the internship and in working with the student's employing organization.

A Reflection Paper is required of all interns. Normally, this is written at the end of the internship experience. It should include the intern's self-evaluation of whether the internship goals were met and why. It should also include a discussion of how the skills needed to succeed in the internship compare with those developed within the coursework included in the student's academic major. The faculty sponsor and the Director of the Internship Program will grade reflection papers.

At the end of the semester, interns will receive a grade of either credit (CR) or non-credit (U). The Director of the Internship Program and the faculty sponsor will make this determination based on the quality of the intern's reflection paper and the written evaluation of the intern's supervisor in the employing organization.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | ✱ Fulfills Grand Experience Christian Studies requirement

Graduate Programs

Master of Business Administration

The Ken Blanchard College of Business offers the Master of Business Administration (MBA) degree, with available emphases in Accounting, Finance, General Management, Health Systems Management, Leadership, Management of Information Systems, Marketing, and Six Sigma. The program is designed to afford students the opportunity to develop cross-functional business-management 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. The Ken Blanchard College of Business MBA Program is fully accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

Additional Graduate Business Admission Requirements

Students must have the equivalent of two years full-time professional work experience prior to entering the MBA program. GMAT scores are not required but are considered if submitted. Students with a GPA above 2.0 but below 2.8 and/or a non-business undergraduate degree may be admitted on a probationary basis but must successfully complete the four MBA Fundamentals courses with a cumulative GPA of 3.0 or higher.

Students of the Ken Blanchard Executive Master of Business Administration program must have, at least, five to seven years management experience at or above the Director level. They must also have corporate sponsorship and successfully complete a pre-admission interview with the Program Director.

Master of Business Administration Degree Requirements

The MBA program is designed for experienced business professionals. The curriculum prepares student for advanced management positions in functional or line units within business organizations.

MBA Fundamentals	12 credits
Business Administration Core	30 credits
Emphasis	9 credits
Total Master of Business Administration	39-51 credits

MBA Fundamentals Coursework

MKT 501	Economics and Marketing Principles	3 credits
ACC 501	Accounting Principles	3 credits
SYM 501	Applied Business Probability and Statistics	3 credits
FIN 501	Finance Principles	3 credits
Total MBA Fundamentals		12 credits

(Note: MBA Fundamentals Coursework has been developed by the Ken Blanchard College of Business faculty to prepare non-business students (those not holding an undergraduate degree in a business discipline) for the rigors of the MBA program and to supply the student with the basic business principles necessary to be successful at the graduate level. Successful completion of these courses will demonstrate the student's potential to successfully complete the MBA program. "Successful completion" requires a minimum 2.8 GPA with no course receiving a grade lower than B-. Courses of C+ or lower must be repeated. Students may be registered into the 600 level courses before all grades from the 500 level courses are tabulated in the student record; as a result, students may be re-registered into a 500 level course in a subsequent semester to ensure successful completion. Students with a non-business undergraduate degree who have taken courses with equivalent content at the undergraduate level may be able to waive one or more of these MBA Fundamentals courses into the program of study upon evaluation of their official transcripts. Only courses with equivalent content and grades earned of B- or better will be accepted to waive the MBA Fundamentals courses.)

Master of Business Administration Core

MGT 650	Operations Management	3 credits
ECN 607	Managerial Economics	3 credits
MGT 602	Organizational Behavior	3 credits
BUS 601	Quantitative Methods in Business	3 credits
ACC 605	Managerial Accounting	3 credits
MKT 606	Marketing Management	3 credits
BUS 604	Organizational Ethics	3 credits
FIN 608	Managerial Finance	3 credits
SYM 603	Information Systems	3 credits
MGT 609	Strategic Management	3 credits
Total Master of Business Administration Core		30 credits

Areas of Emphasis

The requirement for an emphasis is to take three courses (9 semester credits in lieu of electives) in one area as listed below:

Accounting Emphasis

The MBA accounting emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in accounting that prepares students for advanced management positions in corporate or public accounting.

ACC 612	Internal Auditing	3 credits
ACC 659	Advanced Financial Accounting	3 credits
ACC 620	Financial Statement Analysis	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

Finance Emphasis

The MBA finance emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in finance that prepares students for advanced management positions in corporate finance or investment banking.

ACC 620	Financial Statement Analysis	3 credits
FIN 624	Management of Working Capital	3 credits
FIN 626	Investments	3 credits

General Management Emphasis

The Masters of Business Administration with an Emphasis in General Management 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. As such, the program allows the student to develop custom emphasis areas that share strong foundations across accounting, economics, finance, information systems, management, marketing and quantitative methods provided in the core courses. Through flexible elective course selection, opportunities are maximized for depth of learning across a wide variety of business content areas. The degree provides a broad management perspective as well as the analytical and interpersonal skills needed to succeed in a competitive business environment.

Select any Tier I course.	3 credits
Select any Tier II course.	3 credits
Select any Tier III course.	3 credits

Tier I Courses

ACC 612	Internal Auditing	3 credits
ACC 620	Financial Statement Analysis	3 credits
HSM 620	Health Systems Management	3 credits
MGT 623	Organizational Development and Change	3 credits
MKT 624	Services Marketing	3 credits
SYM 653	Business Programming Management	3 credits
SYM 633	Fundamentals of Six Sigma	3 credits

Tier II Courses

ACC 619	Accounting Theory	3 credits
FIN 624	Management of Working Capital	3 credits
HSM 621	Health Care Finance	3 credits
MGT 625	Leadership Styles and Development	3 credits
MKT 625	Seminar in Marketing	3 credits
SYM 654	Database Management Systems	3 credits
SYM 634	Advanced Six Sigma	3 credits

Note: Students may not take SYM 634 unless they selected SYM 633 in Tier I.

Tier III Courses

ACC 620	Financial Statement Analysis	3 credits
FIN 626	Investments	3 credits
HSM 622	Ethical Concerns in Health Care	3 credits
MGT 626	Organizational Systems and Cultures	3 credits
MKT 628	International Marketing	3 credits
SYM 655	Data Communications and Network Management	3 credits

Health Systems Management Emphasis

The MBA health systems management emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in health systems management that prepares students for advanced management or senior administration positions in the health care industry.

HSM 620	Health Care Systems Management	3 credits
HSM 621	Health Care Finance	3 credits
HSM 622	Ethical Concerns in Health Care	3 credits

Leadership Emphasis

The MBA leadership emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in leadership theory and application.

MGT 623	Organizational Development and Change	3 credits
MGT 625	Leadership Styles and Development	3 credits
MGT 626	Organizational Systems and Cultures	3 credits

Management of Information Systems Emphasis

The Master of Business Administration with an Emphasis in Management of Information Systems program is designed for experienced business professionals. The curriculum prepares students for advanced management positions in functional or line units within business organizations.

SYM 653	Business Programming Management	3 credits
SYM 654	Database Management Systems	3 credits
SYM 655	Data Communications and Network Management	3 credits

Marketing Emphasis

The MBA marketing emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in marketing that prepares students for advanced management positions in corporate marketing or brand management.

MKT 624	Services Marketing	3 credits
MKT 625	Seminar in Marketing	3 credits
MKT 628	International Marketing	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Six Sigma Emphasis

The MBA Six Sigma emphasis combines the broad-based, general management curriculum of the MBA program with specialized study in Six Sigma theory, methodology, and project management skills.

SYM 633	Fundamentals of Six Sigma	3 credits
SYM 634	Advanced Six Sigma	3 credits
SYM 635	Applied Six Sigma	3 credits

Dual-Degree Programs

The Ken Blanchard 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: Nursing Leadership in Health-Care Systems.

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

Master of Business Administration/Master of Science in Leadership (Dual-Degree)

The Master of Business in Administration and Master of Science in Leadership (MBA/MSL) dual-degree program is designed to afford students the opportunity to develop cross-functional business management skills as well as cognitive and behavioral skills necessary to be an effective leader.

MBA Fundamentals	12 credits
Business Administration Core	30 credits
Master of Science in Leadership Core	27 credits
Total Master of Business Administration and Master of Science in Leadership	57-69 credits

Master of Science in Leadership Core

MGT623	Organizational Development and Change	3 credits
MGT625	Leadership Styles and Development	3 credits
MGT626	Organizational Systems and Cultures	3 credits
MLE 605	Leading High-Performance Teams	3 credits
MLE 619	Power, Politics, and Influence	3 credits
MLE 617	Leadership and Innovation	3 credits
LDR 657	Leading Global Organizations	3 credits
LDR 650	Diversity Management and Leadership	3 credits
MLE 621	Contemporary Issues in Leadership	3 credits
Total Master of Science in Leadership		27 credits

Executive Master of Business Administration

The Ken Blanchard Executive Master of Business Administration is designed to equip competent executives and high potential senior managers with the skills needed to lead organizations to performance excellence by creating dynamic organizations, passionate employees, devoted customers, satisfied investors, and grateful communities.

MGT 630	Leading Self	3 credits
MKT 631	Customer Value and Service Excellence	3 credits
MKT 632	Solutions-Based Relationship Management and Branding	3 credits
ACC 633	Financial Intelligence and Decision Making	3 credits
FIN 634	Balancing Conflicting Financial Interests	3 credits
MGT 635	Leveraging Human Capital	3 credits
MGT 636	Leading Others	3 credits
BUS 637	Serving Communities	3 credits
ECN 638	Growth Strategies	3 credits
MGT 639	Strategic Advantage within the Global Economy	3 credits
BUS 640	Building Efficient Organizations	3 credits
BUS 641	Building Innovative Organizations	3 credits
MGT 642	Leading Organizations	3 credits

Total Executive Master of Business Administration 39 credits

School of Professional Studies

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

- Bachelor of Science in Applied Management;
- Bachelor of Science in Public Safety Administration; and
- Bachelor of Science in Emergency Management.

All undergraduate-level Professional Studies programs are open to students that have satisfied the basic standards for admission, regardless of credit level. Students that begin a Professional Studies program at a Freshman or Sophomore level must complete the General Education and/or elective requirements before they will be permitted to begin the core coursework. Students at a Junior level or above can go directly into the core coursework.

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

- Master of Science in Leadership;
 - Disaster Preparedness and Crisis Management;
- Master of Science in Executive Fire Service Leadership;
- Certificate in Emergency Management: Health Care; and
- Certificate in Emergency Management: Public Safety.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

Bachelor of Science in Applied Management

The Applied Management Program is an undergraduate degree program that emphasizes organizational behavior, real-world management, leadership and supervision, marketing concepts, managerial accounting, and effective oral and written business communications required of business managers.

The Grand Experience	39 credits
Professional Studies Core Requirements	45 credits
Elective Requirements	36 credits
Total Degree Credits	120 credits

Applied Management Core

AMP 370	Systems Concepts	3 credits
AMP 330	Group Dynamics	3 credits
AMP 340	Management Principles	3 credits
AMP 410 ^{Δ†}	Ethical Decision-Making	3 credits
AMP 350 ^Δ	Managerial Communications	3 credits
AMP 360	Informational Technology and Systems	3 credits
AMP 420	Marketing Environment	3 credits
AMP 430	Human Resources	3 credits
AMP 440	Financial Decision-Making	3 credits
AMP 450	Leadership and Vocation	3 credits
AMP 460	Project Management	3 credits
AMP 470	Global Management	3 credits
AMP 480	Small Business Entrepreneurship	3 credits
AMP 490	Organizational Development and Change	3 credits
AMP495	Capstone- Action Research Project	3 credits
Total Bachelor of Science in Applied Management		45 credits

Bachelor of Science in Emergency Management

The Emergency Management program is an undergraduate degree program that emphasizes the fundamentals of emergency management while providing an interdisciplinary course of study in the skills and practices of emergency planning and management. The primary purpose of the program is to serve the needs of emergency management professionals to address all aspects of natural and human-caused disasters. Graduates of the program will possess a knowledge and experience-based approach to strategic planning for disaster prevention, reduction, response, and recovery. Candidates for the degree include those working in or desirous of working in emergency management and who have completed academic work in one of several fields including fire protection, emergency medical response, law enforcement, environmental health and safety, and other related fields.

Degree Requirements

The Grand Experience	42 credits
Emergency Management Major	39 credits
Electives	39 credits
Total Bachelor of Science in Emergency Management	120 credits

Emergency Management Requirements

EMM 320	Emergency Management Organization	3 credits
EMM 330 ^Δ	All Hazards Emergency Planning	3 credits
EMM 335	Emergency Management Operations and Techniques	3 credits
EMM 340 ^Δ	Communications for Emergency Management	3 credits
EMM 380	Mitigation Planning in Emergency Management	3 credits
EMM 410 [†]	Ethical Leadership in Emergency Management	3 credits
EMM 425	Disaster Recovery and Business Continuation	3 credits
EMM 433	Research Methodology	3 credits
EMM 435	Health, Shelter, and Evacuation Issues in Emergency Management	3 credits
EMM 440	Terrorism's Impact on Emergency Management	3 credits
EMM 445	Case Studies of Critical Incidents	3 credits
EMM490	Organizational Development and Change	3 credits
EMM 495	Senior Capstone	3 credits
Total Bachelor of Science in Emergency Management		39 credits

Bachelor of Science in Public Safety Administration

Grand Canyon University's Bachelor of Science in Public Safety Administration program is an undergraduate degree program that provides a theoretical and applied approach to the professional education of students, while ensuring relevance to the homeland security and protection industry. The program highlights the application of research methodology; the utilization of communication skills at the personal, professional, and public level; and the development of professional skills and knowledge in the field of public safety.

Degree Requirements

The Grand Experience	39 credits
Public Safety Administration Major	36 credits
Electives	45 credits
Total Bachelor of Science in Public Safety Administration	120 credits

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [†] Fulfills Grand Experience Christian Studies requirement

Public Safety Administration Major

PSA 350	Managerial Communication	3 credits
PSA 351	Public Safety and the Community	3 credits
PSA 332	Political and Legal Systems	3 credits
PSA 433 ^A	Research Methodology	3 credits
PSA 435	Strategic Planning	3 credits
PSA 438	Human Resource Management	3 credits
PSA 439	Leadership in Public Safety	3 credits
PSA 440 [†]	Ethics in Public Safety	3 credits
PSA 360	Information Technology and Systems	3 credits
PSA460	Project Management	3 credits
PSA 490	Organizational Development and Change	3 credits
PSA 495	Public Safety Capstone	3 credits
Total Bachelor of Science in Public Safety Administration Major		36 credits

Master of Science in Leadership

The Masters of Science in Leadership (MSL) degree program is designed to provide applied cognitive and behavioral skill sets necessary to be an effective leader. The MSL program curriculum explores values, content knowledge, and skills required to understand and apply effective leadership within corporate and social contexts.

MLE 601	Introduction to Organizational Leadership	3 credits
MGT 625	Leadership Styles and Development	3 credits
BUS 604	Organizational Ethics	3 credits
MLE 605	Leading High-Performance Teams	3 credits
MLE 619	Power, Politics, and Influence	3 credits
MGT 626	Organizational Systems and Cultures	3 credits
MLE 613	Strategic Planning and Decision-Making	3 credits
MGT 623	Organizational Development and Change	3 credits
MLE 617	Leadership and Innovation	3 credits
LDR 657	Leading Global Organizations	3 credits
LDR 650	Diversity Management and Leadership	3 credits
MLE 621	Contemporary Issues in Leadership	3 credits
Total Master of Science in Leadership		36 credits

Disaster Preparedness and Crisis Management Emphasis

The Disaster Preparedness and Crisis Management emphasis will provide courses in the areas of occupational health and safety, disaster preparation and crisis management, and environmental issues directly related to leadership skills development and content required of leaders in the area of emergency public safety and response.

Degree Requirements

MLE 601	Introduction to Organizational Leadership	3 credits
MGT 625	Leadership Styles and Development	3 credits
BUS 604	Organizational Ethics	3 credits
MLE 605	Leading High-Performance Teams	3 credits
MLE 619	Power, Politics, and Influence	3 credits
MGT 626	Organizational Systems and Cultures	3 credits
MLE 613	Strategic Planning and Decision-Making	3 credits
MGT 623	Organizational Development and Change	3 credits
MLE 617	Leadership and Innovation	3 credits
EFL 627	Disaster Preparation and Crisis Management	3 credits
EFL 628	Environmental Issues and Hazard Management	3 credits
EFL 670	Contemporary Issues in Disaster Preparedness and Crisis Management	3 credits
Total Master of Science in Leadership		36 credits

Certificate in Emergency Management: Health Care

The primary purpose of the Emergency Management Certificate: Health Care is to serve the needs of workers in the health care industry by addressing key aspects of natural and human-caused disasters. Recipients of the Certificate will possess a knowledge and experience-based approach to strategic planning for disaster prevention, reduction, response, and recovery. Interested candidates for the certificate program include those working in the Health Care field and who have completed programs in emergency medical response, nursing, or other related fields under the general umbrella of Health Care and Health Care administration. While a Bachelor's degree or higher is required to receive transcript credit, the certificate program is open to all others as well.

EMM 645	Disaster Medical Management I	3 credits
EMM 655	Disaster Medical Management II	3 credits
EMM 665	Crisis and Continuity Management for Healthcare Personnel	3 credits
Total Certificate in Emergency Management: Health Care		9 credits

*Campus/Off-site only | ^A Writing-intensive course | [†] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

Certificate in Emergency Management: Public Safety

The primary purpose of the Emergency Management Certificate: Public Safety is to serve the needs of emergency management professionals by addressing key aspects of natural and human-caused disasters. Recipients of the Certificate will possess a knowledge and experience-based approach to strategic planning for disaster prevention, reduction, response, and recovery. Interested candidates for the certificate program include those working in Police, Fire, and other Public Safety Agencies and who have completed academic work in one of several fields including fire protection, emergency medical response, law enforcement, environmental health and safety, and other related fields. While a Bachelor's degree or higher is required to receive transcript credit, the certificate program is open to all others as well.

EMM 640	Emergency Planning and Management	3 credits
EMM 650	Economic and Human Issues in Emergency Management	3 credits
EMM 660	Law and Legal Issues in Emergency Management	3 credits
Total Certificate in Emergency Management: Public Safety		9 credits

Master of Science in Executive Fire Service Leadership

Degree Requirements

The Master of Science in Executive Fire Service Leadership Program (MSEFSL) offers an opportunity for graduates of the National Fire Academy's Executive Fire Officer Program (NFA-EEOP) to complete a graduate degree. It also offers an opportunity for fire professionals who have not participated in or completed the NFA-EEOP to complete a graduate degree.

A graduate of EFOP, or a current EFOP student, can transfer American Council on Education (ACE) approved graduate credits, earned through the NFA-EFOP, to Grand Canyon University and take additional credits in the MSEFSL program, to complete a rigorous, pertinent, and fully accredited master's degree in Executive Fire Science Leadership.

The program is offered entirely online and can be completed in as quickly as 18 months, depending on the amount of credit transferred into the program. MSEFSL courses are facilitated by professors who possess first-hand knowledge and experience in the fire service/emergency management fields. These professors are familiar with current fire service issues and bring a wealth of theoretical and applicable information and insight to the online learning environment.

EFL 623	Community and Human Service Delivery	3 credits
EFL 620	Organizational Theory and Behavior	3 credits
EFL 625	Public Sector Ethics	3 credits
EFL 621	Information Systems	3 credits
EFL 622	Public Policy	3 credits
EFL 624	Public Sector Finance	3 credits
EFL 626	Advanced Strategic Planning	3 credits
EFL 630	Applied Fire Service Research	3 credits
EFL 629	Occupational Health and Safety	3 credits
EFL 627	Disaster Preparation and Crisis Management	3 credits
EFL 631	Legal Aspects of Fire Service	3 credits
EFL 628	Environmental Issues and Hazard Management	3 credits
Total Master of Science in Leadership		36 credits

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

The College of Education

College Description

The preparation of teachers for the public and private schools of our 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://my.gcu.edu/education>.

College Mission

The College of Education prepares leaders who possess foundational knowledge, encourage student-focused learning, implement quality instructional design, use effective classroom procedures, and engage in reflective practice.

College Features

The College of Education provides students with special program features. Practical classroom experience begins as early as the freshman year with a minimum of 100+ hours in the K-12 classroom prior to student teaching. Student teaching is offered in semester-long courses.

Faculty have 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 certification of elementary teachers, secondary teachers, special education teachers, and educational administrators. The student is strongly advised to contact the College of Education and/or the Arizona State Department of Education regarding certification information.

Fingerprint Clearance

In accordance with Arizona State Statute A.R.S. § 15-106, Grand Canyon University requires that any student enrolled in a College of Education teacher preparation program must provide verification of a valid State of Arizona Fingerprint Clearance Card or valid fingerprint clearance card from the state in which they reside and teach. Students will not be permitted to enroll in any course that requires field experience until the appropriate documentation has been received and verified by the Office of Academic Records.

Benchmarks

Based upon requirements established by the Arizona State Board of Education, all teacher candidates, (i.e., COE students who are in teacher-education programs), will have to demonstrate competency with essential knowledge, skills, and dispositions that are based upon the Arizona Professional Teaching Standards (APTS). Consequently, certain critical assignments in each course will be developed as benchmarks that serve as check points of student competencies. Some of the benchmarks will be practicum-based, and others will not. Benchmark rubrics inform students and instructors of the pre-established levels of competency performance for benchmark assignments.

Practicum Experiences

Practicum experiences are field-based learning opportunities that focus on observation, application, and reflection. Practicum experiences require the COE student to spend a prescribed amount of time in real-life classroom settings in order to demonstrate competency with predetermined activities that are aligned to professional standards in the field of education.

Basic Skills and Content Area Exams

College of Education students enrolled in Teacher Education Programs (with institutional recommendation [IR]) beginning with the 2009-2010 Academic Catalog must pass their state-mandated basic skills and content area exams or Praxis I® (Basic Skills) and Praxis II® (Content Area) prior to student teaching. Arizona residents will be required to take the Arizona Educator Proficiency Assessments (AEPAs).

Teacher candidates residing in states that do not have state-specific mandated basic and/or content exams will be required to take the AEPA exams or the Praxis series®.

Teacher candidates requiring Arizona certification in application for their local state licensure will need to complete the appropriate AEPA exams prior to receiving an Arizona IR. For content areas outside the approved AEPA areas, teacher candidates seeking Arizona certification will be required to hold 24 units in the certification content area.

Student Teaching

Taken at the conclusion of all course work; 16 consecutive weeks; an unpaid, full time placement with a COE approved cooperating teacher; the cooperating teacher must be certified in the area in which the student teacher is teaching; cannot be done over the summer months; required for an IR.

Deadlines for applying for student teaching are as follows:

- To teach during Fall semester – February 1
- To teach during Spring semester – September 1

No exceptions will be made to these deadlines, as placing students in appropriate settings is a lengthy process. Please consult Academic Advising to determine academic eligibility for student teaching.

Student teaching may only be repeated once.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Internships

Internships are taken at the conclusion of all course work for eight consecutive weeks. They are unpaid, require half-time placement with an approved COE mentor administrator, cannot be done over the summer months, and are required for an institutional recommendation (IR).

All College of Education students seeking an Arizona teaching or administrative credential or an Institutional Recommendation “IR” must complete program requirements for their degree program which include verification of fingerprint clearance and a supervised student teaching or internship component after all course work has been completed.

Prospective Arizona teachers may be required to take and pass the appropriate Arizona Educator Proficiency Assessments (AEPA) for Arizona licensure. Students can access information on the AEPA at <http://www.aepa.nesinc.com>. It is the student’s responsibility to determine what, if any, testing is necessary for their individual state.

For information on program requirements contact an [academic advisor](#). For information on field experience requirements including: practicum, student teaching, and internships please contact the [College of Education Field Experience Directors](#).

Undergraduate Programs

Students are given the choice of study in the areas of elementary education (grades K-8), secondary education (grades 7-12) with a second major in an academic area, and special education in cross-categorical.

Additional Undergraduate College of Education Admission Requirements

Application procedures and policies, specific to the College of Education, are available through the College of Education. It is the student’s responsibility to enroll in the proper courses and to follow the policies and procedures of the University and the College of Education, regardless of the year of the Academic Catalog under which the student is enrolled. Admission to and continuance in the College of Education Teacher Education Program includes an evaluative component based upon the professional view of the College of Education faculty and their collective opinion of one’s potential for success in the K-12 classroom.

Students are responsible for any follow-up necessary for completing their College of Education files. Any College of Education student file not completed prior to enrolling in EDU 303 will be put in hold status. Students will be notified in writing of the action taken on their applications by the dean representing the College of Education faculty, subject to grievance to the College of Education Dean and the Vice President for Academic Affairs.

All candidates must submit a copy of their Fingerprint Clearance Card from their state Department of Public Safety or comparable agency prior to enrolling in any practicum course, generally the third course of the declared program. Copies of the Fingerprint Clearance Card should be sent to:

Office of Academic Records
3300 West Camelback Road
Phoenix, AZ 85017
(602) 926-8437 (Fax)

The teacher education program of Grand Canyon University is approved by the Arizona State Board of Education. All Elementary Education, Special Education, and Secondary Certification majors must meet the requirements for the Grand Canyon University state-approved certification program prior to graduation. If state certification requirements change, students must meet the new requirements regardless of the Academic Catalog under which they will be graduating.

Additional COE Graduation Requirements

COE students are required to complete an assessment e-Portfolio. The e-Portfolio is the final assessment of students in each program, and is contributed to throughout the Program of Study. Final submission of the e-Portfolio is required to be eligible for graduation and must use the e-Portfolio product supported/used by GCU.

Endorsements

Grand Canyon University does not issue endorsements.

Several different types of endorsements are made available through the various State Departments of Education. Students should contact their respective state agency to determine the range and requirements of endorsements that are offered.

For students seeking certification in Arizona, the College of Education offers the following courses for teacher candidates to obtain a full Arizona SEI Endorsement:

- Provisional Structured English Immersion – ESL 423N-SEI English Language Teaching: Foundations and Methodologies
- Full Structured English Immersion – ESL 433N-Advanced Methodologies and Assessments of Structured English Immersion

College of Education offers the following courses for practicing teachers to obtain a full Arizona SEI Endorsement:

- Provisional Structured English Immersion – ESL 523N- SEI English Language Teaching: Foundations and Methodologies
- Full Structured English Immersion – ESL 533N- Advanced Methodologies and Assessments of Structured English Immersion

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Student Teaching

Student teaching is 16 consecutive weeks and is a 40-hour a week commitment. Deadlines for applying for student teaching are as follows:

To teach during Fall semester – February 1

To teach during Spring semester – September 1

Required Testing for Certification

Prior to certification, the Arizona Department of Education requires a passing score on the professional knowledge portion of the Arizona Educator Proficiency Assessment (AEPA) and a passing score on the elementary education subject knowledge portion of the AEPA. The College of Education faculty recommends that both portions of the AEPA be taken during student teaching. To receive Institutional Recommendation a student must take and pass the AEPA for Arizona certification. Students should check with their state department of education for their own state teacher certification guidelines.

Bachelor of Science in Elementary Education/Special Education (K-12)

(Eligible for Institutional Recommendation/Credential)

The Grand Experience	39 credits
Elementary Education Requirements	50 credits
Special Education Requirements	29 credits
Free Electives	2 credits
Total Bachelor of Science in Elementary Education/Special Education Requirements	120 credits

Elementary Education Requirements

POS 300	Arizona/Federal Government	3 credits
EDU 303N ^Δ	Foundations of Education	3 credits
EDU 313N	Educational Psychology	3 credits
EDU 363N	Instructional Technology	3 credits
SPE 325N	Educating Learners with Diverse Needs	3 credits
ESL 423N	SEI English Language Teaching: Foundations and Methodologies	3 credits
ESL 433N	Advanced Methodologies of Structured English Instruction	3 credits
EDU 430N	Classroom Management	3 credits
EED 323N	Curriculum and Methods: Science	3 credits
EED 403N	Curriculum and Methods: Mathematics	3 credits
EED 443N	Curriculum and Methods: Literacy: Reading/Language Arts GR K-3	3 credits
EED 463N	Curriculum and Methods: Social Studies	3 credits

EED 473N	Curriculum and Methods: Literacy: Reading/Language Arts GR 4-8	3 credits
EDU 460N	Dynamics of Data-Driven Pedagogy	3 credits
EED 480N	Student Teaching: Elementary School	8 credits

Total Elementary Education Credits	50 credits
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Special Education: Cross Categorical

SPE 329N	Special Education Foundations and Framework	3 credits
SPE 340N	Special Education Litigation and Law	3 credits
SPE 352N	Characteristics of Mental Retardation and Strategies to Teach Individuals with MR	3 credits
SPE 354N	Characteristics of Learning Disabilities and Strategies to Teach Individuals with LD	3 credits
SPE 356N	Characteristics of Emotional/Behavioral Disabilities and Strategies to Teach Individuals with EBD	3 credits
SPE 371N	Characteristics of Students with Physical and Health Impairments and Strategies to Teach Individuals with PHI	3 credits
SPE 435N	Diagnosis and Assessment in Special Ed	3 credits
SPE 448N	Student Teaching: Cross Categorical	8 credits

Total Special Education Credits	29 credits
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*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

Bachelor of Science in Elementary Education (Grades K-8)

(Eligible for Credential) (Content Area Required)

The Bachelor of Science in Elementary Education (Eligible for Credential) program is designed for any individual interested in the education of children in Grades K-8, and who is seeking teacher certification. The format and courses of the state and regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the student will possess upon graduation. Courses are taught by experts in their respective fields who share knowledge and experiences in the areas of educational psychology, reading strategies, teaching methods, assessment, classroom management, and curriculum development. All courses are directly aligned with the Arizona Professional Teacher Standards, National Board for Professional Teaching Standards, and Interstate New Teacher Support and Assessment Consortium Standards. Opportunities are provided to apply concepts, theories, and research throughout the teacher preparation program. Assignments within many of the courses guide students through observational practicum experiences, and the final semester of the program includes a full-time, 16-week student teaching component. Graduates of the Bachelor of Science in Elementary Education program are prepared to become informed educators in public and private schools and other settings requiring a teaching credential.

Degree Requirements

The Grand Experience	39 credits
Elementary Education Major	57 credits
Content Area	24 credits

Total Bachelor of Science in Elementary Education	120 credits
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Elementary Education Major

EDU 303N ^Δ	Foundations of Education	3 credits
EDU 313N	Educational Psychology	3 credits
EDU 363N	Instructional Technology	3 credits
SPE 325N	Educating Learners with Diverse Needs	3 credits
ESL 423N	SEI English Language Teaching: Foundations and Methodologies	3 credits
ESL 433N	Advanced Methodologies of Structured English Instruction	3 credits
EDU 430N	Classroom Management	3 credits
EED 323N	Curriculum and Methods: Science	3 credits
EED 403N	Curriculum and Methods: Mathematics	3 credits
EED 443N	Curriculum and Methods: Literacy: Reading/Language Arts GR K-3	3 credits
EED 463N	Curriculum and Methods: Social Studies	3 credits

EED 473N	Curriculum and Methods: Literacy: Reading/Language Arts GR	3 credits
EDU 460N	Dynamics of Data-Driven Pedagogy	3 credits
EDU 273N	Children's Literature	3 credits
POS 300	Arizona/Federal Government	3 credits
EED 480N	Student Teaching: Elementary School	12 credits
Total Elementary Education Major Credits		57 credits

Early Childhood Education Content Area

The 24 credits of the Early Childhood Education content area must be fulfilled by the transfer of Early Childhood Education credits from an accredited, GCU-approved institution. Grand Canyon University does not offer Early Childhood Education coursework. All students who meet the 24 credit hours for a content major will need to check with their state department to determine specific requirements for additional ECE credentialing.

Total Early Childhood Education Content Area	24 credits
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Elementary English Content Area

ENG 200	Analysis of World Literature	3 credits
ENG 201	Intermediate Grammar	3 credits
ENG 221	English Literature I	3 credits
ENG 301 ^Δ	Advanced Composition	3 credits
ENG 341	American Literature I	3 credits
ENG 413	The Novel	3 credits
ENG 421	Shakespeare	3 credits
ENG 352	The Short Story	3 credits

Total Elementary English Content Area	24 credits
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Elementary Mathematics Content Area

MAT 135	Numerical Systems, Operations, Properties, and Theories	3 credits
PSY 363	Probability and Statistics for Mathematics and Science	3 credits
MAT 220	Finite Mathematics	3 credits
MAT 310	College Geometry	3 credits
MAT 320	Technology in the Mathematics Curriculum	3 credits
MAT 410	Math PRAXIS Preparation	3 credits
MAT 484	Mathematics in the Elementary School	3 credits
MAT 495	Mathematics Capstone	3 credits

Total Elementary Mathematics Content Area	24 credits
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Elementary Science Content Area

GLG 101 ♦	General Geology	3 credits
GLG 101L ♦	General Geology: Lab	1 credit
PHY 101 ♦	Introduction to Physical Science	3 credits
PHY 101L ♦	Introduction to Physical Science Lab	1 credit

*Campus/Off-site only | ^Δ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

PHY 107	Astronomy	3 credits
PHY 107L	Astronomy Lab	1 credits
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 credits
BIO 205	Microbiology	3 credits
BIO 205L	Microbiology Lab	1 credit
CHM 101	Introduction to General, Organic, and Biochemistry	3 credits
CHM 101L	Introduction to General, Organic, and Biochemistry Lab	1 credit
	Science Electives	4 credits
Total Non-GE Elementary Science Content		24 credits
Total GE-Related Elementary Science Content		8 credits
Total Elementary Science Content Area		32 credits

Bachelor of Science in Secondary Education (Grades 7-12)

(Eligible for Credential) (Content Area Required)

The Bachelor of Science in Secondary Education is a degree offered by the College of Education in conjunction with the College of Liberal Arts for students desiring to prepare for a career in teaching in grades 7 - 12. The Secondary Education program is designed to prepare students for careers in middle schools and high schools. Students/applicants are responsible for contacting their state department of education for certification requirements and program approval. The student/applicant should consult the Grand Canyon University Academic Catalog and academic advisor to obtain information regarding current policies and procedures inherent in a teacher credentialing program. Courses are taught by experts in their respective fields who share knowledge and experiences in the areas of educational psychology, reading strategies, teaching methods, assessment, classroom management, and curriculum development. All courses are directly aligned with the Arizona Professional Teacher Standards, National Board for Professional Teaching Standards, and Interstate New Teacher Support and Assessment Consortium Standards. Opportunities are provided to apply concepts, theories, and research throughout the teacher preparation program. Assignments within many of the courses guide students through observational practicum experiences, and the final semester of the program includes a full-time, 16-week student teaching component.

Degree Requirements

Grand Experience (GE)	39 credits
Secondary Education Core	54 credits
Content Area (Non-GE Courses)	27-36 credits
Total Bachelor of Science in Secondary Education	120-129 credits

Secondary Education Core

POS 300	Arizona/Federal Government	3 credits
EDU 303N	Foundations of Education (Fingerprint Clearance required)	3 credits
EDU 313N	Educational Psychology	3 credits
EDU 363N	Instructional Technology	3 credits
SPE 325N^Δ	Educating Learners w/ Diverse Needs	3 credits
ESL 423N	SEI English Language Teaching: Foundations and Methodologies	3 credits
ESL 433N	Advanced Methodologies of Structured English Instruction	3 credits
EDU 430N	Classroom Management	3 credits
SED 442N	Secondary Methods	3 credits
SED 443N	Secondary Curriculum Development and Assessment	3 credits
SED 452N	Reading and Learning Strategies for Middle and Secondary Schools	3 credits
SED 420N	Adolescent Literacy	3 credits
SED 430N	Critical Issues in Secondary Education	3 credits
EDU 460N	Dynamics of Data-Driven Pedagogy	3 credits
SED 480N	Student Teaching: Secondary School	12 credits

Total Secondary Education Core	54 credits
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Biology Content Area

CHM 101 ♦	Introduction to General, Organic, and Biochemistry	3 credits
CHM 101L ♦	Introduction to General, Organic, and Biochemistry Lab	1 credit
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
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
BIO 317	Science Communication	3 credits
BIO 340	Genetics	3 credits
BIO 480	Methods of Teaching Science in Secondary Schools	3 credits
BIO 205	Microbiology	3 credits

*Campus/Off-site only | ^Δ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

BIO 363	Biostatistics	3 credits
Total Non-GE Biology Content		27 credits
Total GE-Related Biology Content		8 credits
Total Biology Content Area		35 credits

Business Education Content Area

ACC 211	Financial Accounting	3 credits
ACC 212	Managerial Accounting	3 credits
BUS 251	Business Statistics	3 credits
ECN 211	Microeconomic Principles	3 credits
ECN 212	Macroeconomic Principles	3 credits
FIN 301	Fundamentals of Business Finance	3 credits
MGT 301	Principles of Management	3 credits
MKT 301	Principles of Marketing	3 credits
SYM 301	Principles of Information Systems	3 credits
Total Business Education Content Area		27 credits

Chemistry Content Area

CHM 105	Introductory Studies to the History of Chemistry	3 credits
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
BIO 100	Biology Concepts	3 credits
BIO 317 ^Δ	Science Communication	3 credits
CHM 331	Organic Chemistry I	3 credits
CHM 332	Organic Chemistry II	3 credits
CHM 103	Chemistry Lab Safety	3 credits
BIO 363	Biostatistics	3 credits
CHM 360	Principles of Biochemistry	3 credits
CHM 480	Methods of Teaching Science in Secondary Schools	3 credits
Total Non-GE Chemistry Content		27 credits
Total GE-Related Chemistry Content		8 credits
Total Chemistry Content Area		35 credits

English Content Area

ENG 200	Analysis of World Literature	3 credits
ENG 201	Intermediate Grammar	3 credits
ENG 221	English Literature I	3 credits
ENG 301	Advanced Composition	3 credits
ENG 341	American Literature I	3 credits
ENG 413	The Novel	3 credits
ENG 421	Shakespeare	3 credits
ENG 222	English Literature II	3 credits
ENG 342	American Literature II	3 credits

Total English Content Area	27 credits
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Mathematics Content Area

MAT 122	College Trigonometry	3 credits
MAT 270	Analytical Geometry and Calculus I	3 credits
MAT 271	Analytical Geometry and Calculus II	3 credits
MAT 272	Analytical Geometry and Calculus III	3 credits
MAT 300	Introduction to Mathematical Thought	3 credits
MAT 310	College Geometry	3 credits
MAT 342	Linear Algebra	3 credits
MAT 363	Probability and Statistics	3 credits
MAT 373	Differential Equations	3 credits

Total Mathematics Content Area	27 credits
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Physical Education Content Area

BIO 160 ♦	Anatomy & Physiology	3 credits
BIO 160L ♦	Anatomy & Physiology Lab	1 credits
EXS 335 ^Δ ♦	Kinesiology	3 credits
EXS 335L ♦	Kinesiology Lab	1 credit
EXS 340	Physiology of Exercise	3 credits
EXS 340L	Physiology of Exercise Lab	1 credit
EXS 383	Measurement in Physical Education	3 credits
PED246 ^Δ	Instructional Strategies in Physical Education	3 credits
PED 252	Teaching of Team Sports I	2 credits
PED 262	Teaching of Team Sports II	2 credits
PED 282	Teaching of Individual Activities I	2 credits
PED 292	Teaching of Individual Activities II	2 credits
PED 363	Physical Education for the Exceptional Child	3credits
PED 413	Physical Education for the Secondary School	3 credits
PED 423	Organization and Administration of Physical Education and Athletics	2 credits

Total Non-GE Physical Education Content	27 credits
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Total GE-Related Physical Education Content	8 credits
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Total Physical Education Content Area	35 credits
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(Note: In order to graduate with a K-12 Endorsement, 16 credits of student teaching (EED 480 - grades K-6, and SED 480 - grades 7-12) must be completed.)

*Campus/Off-site only | ^Δ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Social Studies Content Area

ECN 211	Microeconomic Principles	3 credits
ECN 212	Macroeconomic Principles	3 credits
GEO 121	World Geography	3 credits
HIS 103	Early American History	3 credits
HIS 104	Recent American History	3 credits
HIS 108	World History after 1500	3 credits
HIS 317	Studies in the Non-Western World	3 credits
HIS 333	Early Modern Europe	3 credits
HIS 343	Colonial and Revolutionary America	3 credits
POS 100	Introduction to Political Science	3 credits
POS 344	Political Thought	3 credits
POS 417	Constitutional History of the United States	3 credits

Total Social Studies Content Area 36 credits

Graduate Degree Requirements

The graduate program is based upon a framework that provides for the professional growth of the teacher practitioner. This framework includes a cyclical process of inquiry, reflection, application, evaluation, and additional reflection. These five elements are incorporated into activities and assignments in each course of the 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.

Graduate Programs

Once the student is accepted into the graduate program, the candidate has five years to complete the Program of Study. Upon acceptance into the graduate program, the student will receive an Official Program of Study. In order for the Program of Study to remain valid, the student must be continuously enrolled in the program. All graduate students must maintain a 3.0 GPA.

Additional Graduate Education Admission Requirements

In addition to the general Graduate Admission Requirements listed in the [Admission Policy and Procedure](#) section, all candidates for graduate programs at GCU must submit the following information:

All candidates must submit a copy of their Fingerprint Clearance Card from their state Department of Public Safety or comparable agency and/or a copy of the state issued teaching certificate prior to enrolling in any practicum courses, generally the third course of the declared program. Copies of the Fingerprint Clearance Card should be sent to:

Office of Academic Records
3300 West Camelback Road
Phoenix, AZ 85017
(602) 926-8437 (Fax)

Graduate Transfer Restrictions

The first course of the graduate Programs of Study cannot be satisfied by transferred credits.

Eligibility for Teaching Certification

Additional information is required for the following degrees:

- Master of Arts in Teaching: A copy of current teaching certificate
- Master of Education in Special Education for Currently Certified Teachers: A copy of current teaching certificate
- Master of Education in Secondary Education: A certifiable major in secondary education content area. This major is any course of study commonly taught in grades 7-12 in public schools.

Additional Graduate Graduation Requirements

COE students are required to complete an assessment e-Portfolio. The e-Portfolio is the final assessment of students in each program, and is contributed to throughout the Program of Study. Final submission of the e-Portfolio is required to be eligible for graduation and must use the e-Portfolio product supported/used by GCU. If state certification requirements change, students must meet the new requirements regardless of the Academic Catalog under which they will be graduating.

Master of Arts in Teaching

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Arts in Teaching (MAT) (Not Eligible for Credential) program is designed for certified elementary and secondary teachers interested in advanced studies in education. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of instructional leadership, technology enhanced instruction design, curriculum and assessment for school improvement and legal issues. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guides students through observational and practice based experiences. Students must have access to a K-12 classroom to complete the program assignments. Graduates of this program are prepared to become informed educators who meet the needs of schools and student populations. The following courses are required courses and must be taken in the sequence given below:

EDU 529	Foundation and Framework	3 credits
EDU 519	The Engaged Mind	3 credits
EDU 520	Classroom Management	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

EDU 521	Current Classroom Methods and Strategies	3 credits
EDU 590^Δ	Educational Action Research	3 credits
EDU 530	Educational Leadership	3 credits
EDU 550	Technology Enhanced Instructional Design	3 credits
EDU 583	Teaching Reading in the Content Area	3 credits
EDU 532	Legal Issues in Education	3 credits
EDU 560	Curriculum Assessment for School Improvement	3 credits
Total Master of Arts in Teaching		30 credits

Master of Education in Education Administration

Degree Requirements

Education Administration Core	27 credits
Emphasis	9 credits
Total Master of Education Administration	36 credits

Master of Education (M.Ed.) in Educational Administration Core

The following courses are required courses and must be taken in the sequence given below:

EDA 529	Education Administration Foundation and Framework	3 credits
EDA 531	Survey of Organizational Theory	3 credits
EDA 530	Educational Leadership	3 credits
EDA 532	Legal Issues in Education	3 credits
EDA 533	Public School Finance	3 credits
EDA 550	Supervision and Instructional Leadership	3 credits
EDA 560	Curriculum Development for School Improvement	3 credits
EDA 570	Action Research in Education Administration	3 credits
EDA 590	Educational Leadership in Technology	3 credits
Total Master of Education in Education Administration Areas of Emphasis		27 credits

The requirement for an emphasis is to take three courses (9 credits in lieu of electives) in one area as listed below.

Master of Education in Education Administration

(Eligible for Institutional Recommendation/Credential)

The Master of Education in Education Administration (Eligible for Institutional Recommendation/Credential) is a program designed for any individual interested in Educational Administration in the K-12 setting and is seeking an administrative certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of school leadership, administrative foundations, organizational theory, K-12 legal issues, public school finance, curriculum development, and instructional leadership. 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 be prepared to complete a part-time, eight-week administrative internship component at the end of the program. Graduates of the program are prepared to become informed educational administrators in public and private schools and other settings requiring an administrative credential. Students must have a teaching certificate or be eligible for certification to be admitted into this program. The student should consult the Grand Canyon University Academic Catalog and academic advisor on current policies and procedures inherent in an administrative credentialing program. In some circumstances, students may have opportunities to assist in key events with an administrator before their Internship begins. Due to the fact that many of the assignments given for EDA 580 either occur at the beginning or end of school, students may begin logging Internship hours up to 8 weeks preceding EDA 580 with the approval of Director of Field Experiences. Students need to request this in writing and be approved before they can begin logging Internship hours. Enrollment in this program requires documentation of 3 years of certified teaching experience.

EDA 540	The Principalship	3 credits
ESL 523	SEI English Language Teaching: Foundations and Methodologies	3 credits
EDA 580	Internship in Educational Administration	3 credits

Master of Education in Education Administration with an Emphasis in Organizational Leadership

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

The Master of Education in Educational Administration Organizational Leadership Emphasis (Not Eligible for Institutional Recommendation/Non-Credential) is a program designed for any individual interested in the administration of educational and social services settings for children in the Grade K-12 setting, but who must postpone a school site-based administrative internship, or who does not choose to seek a K-12 administrative certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational leadership, organizational theory, and strategic management. 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 a school or children's social services setting to complete the program assignments. Graduates of the program are prepared to become educational leaders in the home, church, private schools, and other settings not requiring an administrative credential. The students are also prepared to move into an administrative internship/credentialing component with Grand Canyon University at a later date. Students must have a current K-12 teaching certificate.

MGT 625	Leadership Styles and Development	3 credits
MGT 626	Organizational Systems and Cultures	3 credits
MGT 609	Strategic Management	3 credits

Master of Education in Education Administration with an Emphasis in School Leadership

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Education in Educational Administration with an Emphasis in School Leadership (Not Eligible for Institutional Recommendation/Non-Credential) is a program designed for any individual interested in School Leadership in the K-12 setting but does not need to seek an administrative certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of school leadership, administrative foundations, organizational theory, K-12 legal issues, public school finance, curriculum development, and instructional leadership. 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 a K-12 school to complete the program assignments. Graduates of the program are prepared to become informed educational administrators in the home, church, private schools, and other settings not requiring an administrative credential. The students are also prepared to move into an administrative internship component with Grand Canyon University at a later date.

EDA 540	The Principalship	3 credits
ESL 523N	SEI English Language Teaching: Foundations and Methodologies	3 credits
EDA 541	The Assistant Principalship	3 credits

Master of Education in Elementary Education

Master of Education in Elementary Education Degree Core

The following courses are required courses and must be taken in the sequence given below:

EDU 570N	Philosophical/Social Issues	3 credits
EDU 520N	Classroom Management	3 credits
SPE 525N	Educating Learners w/ Diverse Needs	3 credits
ESL 523N	SEI English Language Teaching: Foundations and Methodologies	3 credits
EED 543N	Prescriptive Reading and Practicum	3 credits
EED 573N	Curriculum and Methods: Literacy	3 credits
ESL 533N	Advanced Methodologies of Structured English Instruction	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

EED 563N	Curriculum and Methods: Social Studies	3 credits
EED 523N	Curriculum and Methods: Science	3 credits
EED 503N	Curriculum and Methods: Mathematics	3 credits
EDU 549N	Dynamics of Data-Driven Pedagogy	3 credits

Total Master of Education in Elementary Education Core 33 credits

(ESL 523 Note: Provisional ESL Endorsement requires 6 credits of ESL coursework. Six credits in a foreign language or a foreign language proficiency is required prior to receiving the full ESL Endorsement.)

Master of Education in Elementary Education

Degree Requirements (Eligible for Institutional Recommendation/Credential)

The Master of Education in Elementary Education (Eligible for Institutional Recommendation/Credential) is a program designed for any individual interested in the education of children in the Grade K-8 setting, but who seeks a teaching certificate. The format and courses of the state and regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, reading strategies, teaching methods, and curriculum development. 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 a Gr. K-8 classroom to complete the program assignments. Students must be prepared to complete a full-time 16 week student teaching component at the end of the program. Graduates of the program are prepared to become informed educators in public and private schools and other settings requiring a teaching credential. The student should consult the Grand Canyon University Academic Catalog and academic advisor on current policies and procedures inherent in a teacher credentialing program.

Elementary Education Core	33 credits
Eligible Student Teaching Requirement	12 credits
Total Master of Education in Elementary Education (Eligible for Institutional Recommendation)	45 credits

Eligible Student Teaching Requirement

EED 580N	Student Teaching	12 credits
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Master of Education in Elementary Education

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Education in Elementary Education (Not Eligible for Institutional Recommendation/Non-Credential) is a program designed for any individual interested in the education of children in the K-8 setting, but who must postpone student teaching, or who does not choose to seek a teaching certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, prescriptive reading, teaching methods, and curriculum development. 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 a K-8 classroom to complete the program assignments. Graduates of the program are prepared to become informed educators in the home, church, private schools, and other settings not requiring a teaching credential. The students are also prepared to move into a student teaching/credentialing component with Grand Canyon University should they wish to change to the Eligible version of the program prior to the posting of their degree.

Elementary Education Core	33 credits
Total Master of Education in Elementary Education (Not Eligible for Institutional Recommendation)	33 credits

Master of Education in Curriculum and Instruction: Reading

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The following courses are required courses and must be taken in the sequence given below:

RDG 509	Reading: Foundation and Framework	3 credits
RDG 510	Curriculum and Instruction	3 credits
RDG 545	Foundation, Cognition and Emergent Literature	3 credits
RDG 535	Descriptive Linguistics and Phonics	3 credits
RDG 540	Research Techniques and Procedures	3 credits
RDG 521	Developmental and Corrective Reading Process	3 credits
RDG 525	Literacy in a Multicultural Society	3 credits
RDG 515	Children, Adolescents, and Learning	3 credits
RDG 583	Teaching Reading in the Content Areas	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

RDG 580	Practicum in Reading	3 credits
Total Master of Education in Curriculum and Instruction: Reading		30 credits

Master of Education in Curriculum and Instruction: Technology

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The following courses are required courses and must be taken in the sequence given below:

TEC 509	Instructional Technology: Foundation and Framework	3 credits
TEC 510	Curriculum and Instruction	3 credits
TEC 525	Schools in a Multicultural Society	3 credits
TEC 535	Educational Applications of Technology	3 credits
TEC 540	Research Techniques and Procedures	3 credits
TEC 545	Multimedia Instructional Strategies	3 credits
TEC 555	Design of Print-Based Media	3 credits
TEC 560	Interactive Design for the Classroom	3 credits
TEC 565	Distance Learning	3 credits
TEC 580	Practicum in Technology	3 credits
Total Master of Education in Curriculum and Instruction: Technology		30 credits

Master of Education in Secondary Education

Master of Education in Secondary Education Degree Core

The following courses are required courses and must be taken in the sequence given below:

EDU 570N	Philosophical/Social Issues in Education	3 credits
EDU 520N	Classroom Management	3 credits
SPE 525N	Educating Learners w/ Diverse Needs	3 credits
ESL 523N	SEI English Language Teaching: Foundations and Methodologies	3 credits
ESL 533N	Advanced Methodologies of Structured English Instruction	3 credits
SED 523N	Adolescent Literacy	3 credits
SED 552N	Reading and Learning Strategies for Middle and Secondary School	3 credits
SED 542N	Secondary Methods	3 credits

SED 543N	Secondary Curriculum Development and Assessment	3 credits
SED 570N	Critical Issues in Secondary Education	3 credits
EDU 549N	Dynamics of Data-Driven Pedagogy	3 credits

Total Master of Education in Secondary Education Core	33 credits
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(ESL 523/SED 552 Note: A minimum of 24 content credits must be completed in an area commonly taught in Arizona secondary schools prior to admission to the Master of Education in Secondary Education program, e.g., math, English, biology. Undergraduate coursework may be used to meet this requirement.)

Master of Education in Secondary Education

Degree Requirements (Eligible for Institutional Recommendation/Credential)

The Master of Education in Secondary Education (Eligible for Institutional Recommendation/Credential) is a program designed for any individual interested in the education of children in the Grade 7-12 setting who is seeking a teaching certificate. The format and courses of the state and regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, reading strategies, teaching methods, and curriculum development. 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 a Gr. 7-12 classroom to complete the program assignments. Students must be prepared to complete a full-time 16 week student teaching component at the end of the program. Graduates of the program are prepared to become informed educators in public and private schools and other settings requiring a teaching credential. Students must have a minimum of 24 units in a content area commonly taught in public Gr. 7-12 schools to be admitted to the program. The student should consult the Grand Canyon University Academic Catalog and academic advisor on current policies and procedures inherent in a teacher credentialing program.

Secondary Education Core	33 credits
Eligible Student Teaching Requirements	12 credits

Total Master of Education in Secondary Education (Eligible for Institutional Recommendation)	45 credits
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Eligible Student Teaching Requirements

SED 580N Student Teaching	12 credits
Total Eligible for Credential Emphasis	12 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Master of Education in Secondary Education

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Education in Secondary Education (Not Eligible for Institutional Recommendation/Non-Credential) is a program designed for any individual interested in the education of children in the Grade 7-12 setting, but who must postpone student teaching or who does not choose to seek a teaching certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize the content knowledge that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of educational psychology, reading strategies, teaching methods and curriculum development. Opportunities are provided to apply concepts, theories, and research throughout the program. Assignments within each course guides students through observational and practice based experiences. Students must have access to a Gr. 7-12 classroom to complete the program assignments. Graduates of the program are prepared to become informed educators in the home, church, private schools and other settings not requiring a teaching credential. The students are also prepared to move into a student teaching/credentialing component with Grand Canyon University should they wish to change to the Eligible version of the program prior to the posting of their degree.

Students must have a minimum of 24 units in a content area commonly taught in public Gr. 7-12 schools to be admitted to the program.

Secondary Education Core	33 credits
Total Master of Education in Secondary Education (Not Eligible for Institutional Recommendation)	33 credits

Master of Education in Special Education for Certified Special Educators

Degree Requirements

The Master of Education in Special Education for Certified Special Educators (Not Eligible for Credential) is a program designed for any individual interested in advanced studies in special education and who is currently certified to teach special education. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. Courses are taught by experts in their respective fields who share knowledge and experience in areas of learning disabilities, mental retardation, emotional and physical disabilities, and other physical and cognitive impairments. 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 a K-12 special education classroom to complete the program assignments. Graduates of the program will be prepared to work with special needs populations and implement individualized educational plans to accommodate various learning needs of students with special needs.

The following courses are required courses and must be taken in the sequence given below:

SPE 529N	Special Education Foundations and Framework	3 credits
SPE 540N	Special Education Litigation and Law	3 credits
SPE 525N	Educating Learners with Diverse Needs	3 credits

Select one area of disability:

Mental Retardation (MR)

SPE 552N	Characteristics of Mental Retardation (MR) and Strategies to Teach Individuals with MR	3 credits
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Learning Disabilities (LD)

SPE 554N	Characteristics of Learning Disabilities (LD) and Strategies to Teach Individuals with LD	3 credits
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Emotional/Behavioral Disabilities (EBD)

SPE 556N	Characteristics of Emotional/Behavioral Disabilities (EBD) and Strategies to Teach Individuals with EBD	3 credits
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The following courses are required:

SPE 571N	Educational Implications for Students with Physical and Health Impairments	3 credits
SPE 570N	Action Research in Special Education	3 credits
SPE 535N	Diagnosis and Assessment in Special Education	3 credits
SPE 550N	Special Education Finance	3 credits
SPE 560N	Special Ed. Program Development	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SPE 590N	Assistive Technology in Special Ed.	3 credits
SPE 595N	Global Issues in Special Education	3 credits
Total Master of Education in Special Education for Certified Special Educators		36 credits

Master of Education in Special Education

Master of Education (M.Ed.) in Special Education Core

SPE 529N	Special Education Foundations and Framework	3 credits
EDU 520N	Classroom Management	3 credits
SPE 525N	Educating Learners with Diverse Needs	3 credits
ESL 523N	SEI English Language Teaching: Foundations and Methodologies	3 credits
ESL 533N	Advanced Methodologies of Structured English Instruction	3 credits
SPE 540N	Special Education Litigation and Law	3 credits
SPE 552N	Characteristics of Mental Retardation (MR) and Strategies to Teach Individuals with MR	3 credits
SPE 554N	Characteristics of Learning Disabilities (LD) and Strategies to Teach Individuals with LD	3 credits
SPE 556N	Characteristics of Emotional/Behavioral Disabilities (EBD) and Strategies to Teach Individuals with EBD	3 credits
SPE 571N	Educational Implications for Students with Physical and Health Impairments	3 credits
SPE 535N	Diagnosis and Assessment in Special Education	3 credits
Total Master of Education in Special Education		33 credits

Master of Education in Special Education

Degree Requirements (Eligible for Institutional Recommendation/Credential)

The Master of Education in Special Education (Eligible for Credential) is a cross-categorical program. It is designed for any individual interested in the education of children with special needs in the K-12 setting who wishes to seek a teaching certificate. The format and courses of the state and regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the teacher candidate already possesses. 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. 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 at least 3 of the 5 following disability categories represented: emotional disability, learning disability, mental retardation, 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 the teacher candidates' various learning needs. Teacher candidates must be prepared to complete a full-time 16 week student teaching component at the end of the program. This student teaching experience must be completed with a certified special education teacher. Teacher candidates/applicants are responsible for contacting their state department of education for certification requirements and program approval. The teacher candidate/applicant should consult the Grand Canyon University Academic Catalog and their academic advisor to obtain information regarding current policies and procedures inherent in a teacher credentialing program.

Special Education Core	33 credits
Eligible Student Teaching Requirement	12 credits
Total Master of Special Education	45 credits

Eligible Student Teaching Requirement

SPE 548N	Student Teaching: Cross Categorical	12 credits
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*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Master of Education in Special Education

Degree Requirements (Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Education in Special Education, (Not Eligible for Institutional Recommendation/Non-Credential) is a cross-categorical program designed for any individual interested in the education of special needs children in the K-12 setting, but who must postpone student teaching, or who does not choose to seek a teaching certificate. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner and to maximize strengths that the student already possesses. 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. 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 a K-12 special 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 needs. The students are also prepared to move into a student teaching/credentialing component with Grand Canyon University should they wish to change to the Eligible version of the program prior to the posting of their degree.

Special Education Core	33 credits
Total Master of Education in Special Education (Not Eligible for Institutional Recommendation)	33 credits

Master of Education in Teaching English to Speakers of Other Languages (TESOL)

(Not Eligible for Institutional Recommendation/Non-Credential)

The Master of Education in Teaching English to Speakers of Other Languages (TESOL) is a program designed for already certified teachers or administrators with an interest in teaching ESL students in the classroom or serving as a district ESL coordinator. The format and courses of the regionally accredited program are tailored to meet the needs of the adult learner, who is a certified teacher or administrator, 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. Opportunities are provided to apply concepts, theories, and research throughout the program, but particularly in an unsupervised internship which guides students through observational and practice based experiences. Graduates of the program are prepared to become leaders in the ESL/TESOL initiatives districts must undertake in an ever increasing school climate of diversity.

TSL 529	Foundation of Instruction for English Language Learners	3 credits
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TSL 530	Methods of Teaching English to Speakers of Other Languages	3 credits
TSL 533	English Linguistics	3 credits
TSL 535	Teaching a Second Language in the Content Areas	3 credits
TSL 542	Second Language Acquisition and Education	3 credits
TSL 544	Teaching in a Pluralistic Society	3 credits
TSL 570	Modern English Grammar	3 credits
TSL 580	Reading Theories and Research	3 credits
TSL 539	Curriculum Development and Assessment	3 credits
TSL 575	Child Language Acquisition	3 credits
TSL 555	Practicum in TESOL	3 credits
Total Master of Education Teaching English to Speakers of Other Languages		33 credits

Doctor of Education (Ed.D.) in Organizational Leadership

The Doctor of Education in Organizational Leadership program develops leaders capable of generating new knowledge and responsibly applying knowledge to achieve organizational outcomes. Students will study the major bodies of literature in leadership, will reflect critically on existing theory, and will identify appropriate applications of theory in educational, business, and other organizational environments. Students will develop academic and organizational research expertise through the study of statistics and research methodology. The program of study is consistent with the Grand Canyon University's mission to develop students who are global citizens, critical thinkers, effective communicators, and responsible leaders.

RES 811	Introduction to Advanced Graduate Studies and Scholarship	1 credits
RSD 801	Residency I	2 credits
LDR 800	Ethical Dilemmas and Stewardship	3 credits
LDR 802	Progressions in Leadership Thought	3 credits
LOR 810	Servant Leadership	3 credits
LDR 808	The Nature and Dynamics of Organizations	3 credits
LDR 804	Leading Across Cultures	3 credits
LOR 805	Innovation: The Last Frontier of Competitive Advantage	3 credits
RES 855	Understanding and Interpreting Data	3 credits
RSD 851	Residency II	2 credits
LOR 815	Organizational Governance and Accountability	3 credits
LDR 806	Understanding Toxic Leadership	3 credits
LOR 820	Leading Values Driven Organizations	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

RES 861	Research I	3 credits	CMP 951	Comprehensive Exam	0 credits
RES 862	Research II	3 credits	DIS 955	Dissertation I	3 credits
LOR 825	Strategic Planning and Change	3 credits	DIS 960	Dissertation II	3 credits
RES 871	Research Design	3 credits	DIS 965	Dissertation III	3 credits
LDR 810	Leading the New Organization	3 credits	Total Doctor of Education in Organizational Leadership		61 credit
RSD 881	Residency III	2 credits			

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

The College of Nursing and Health Sciences

College of Nursing Description

A quarter of a century after the College of Nursing was founded, the college 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 through three programs: pre-licensure (traditional and fast track) and degree completion for already licensed and registered nurses. The pre-licensure curriculum is designed to help students assess the individual, the family, and communities; utilize functional health patterns within a variety of clinical settings; formulate nursing diagnoses; plan and evaluate nursing interventions; and function as professionals within the health care team. The fast-track BSN program allows students who have fulfilled all prerequisites and co-requisites to complete a degree in approximately 20 months. Building on the baccalaureate degree, the College offers a bridge degree for already licensed and registered nurses (RN-MSN) as well as the Master of Science with a major in Nursing (MS Nursing) featuring five concentrations and a dual major: Family Nurse Practitioner, Nursing Leadership in the Health Care System, Clinical Nurse Specialist, Nursing Education, Clinical Nurse Specialist with Education Focus, and Master of Business Administration/Master of Science-Nursing: Nurse Leadership.

College of Nursing Mission

The mission of the College of Nursing is to provide an academically challenging professional nursing education based on a liberal arts foundation to students from diverse backgrounds within an environment of Christian values and with a commitment to the enhancement of health and wellness in society.

College of Nursing Features

The College of Nursing (CON) offers both quality undergraduate and graduate degree programs that meet specific students' career and academic needs. The College of Nursing faculty hold a master's or doctoral degree. Recognition of the spiritual needs of all persons is an integral part of caring for one's self and others. The spiritual dimension is integrated into each nursing course throughout the undergraduate and graduate curriculum.

Pre-licensure students begin their supervised clinical experiences during the first semester of the nursing curriculum. Students spend up to 18 hours per week in an assigned clinical practice area learning to apply theory in direct patient care situations. Pre-licensure students complete a practicum in nursing as their last course in the curriculum. This course is designed to assist students in role transition and in gaining confidence in their practice.

Graduates of the College of Nursing have a record of success on the National Council Licensure Examination – RN. Development of a resume and interview skills are part of the senior studies. In today's rapidly changing health care environment, the student will value the opportunity to explore the trends in an individual capstone project.

College of Nursing Philosophy

In concert with the mission of the University, the College of Nursing faculty affirms belief in educating nurses within a dedicated and supportive community of Christian values. The nursing programs prepare graduates to provide excellent, holistic care while encouraging a passion for achievement, a lifelong curiosity for knowledge, and pursuit of advanced professional degrees.

The American Association of Colleges of Nursing (AACN) Essentials of Baccalaureate Education for Professional Nursing Practice guides the curriculum for the baccalaureate program. The AACN The Essentials of Master's Education for Advanced Nursing Practice, Advanced Nursing Practice: Curriculum Guidelines and Program Standards for Nurse Practitioner Education, National Organization of Nurse Practitioner Faculties (NONPF) and AACN Nursing Practitioner Primary Care Competencies in Specialty Areas, NONPF Domains and Competencies of Nurse Practitioner Practice, NACNS Statement on Clinical Nurse Specialist Practice and Education, and the National League for Nursing Competencies for Nurse Educators provide structure for the curriculum content of the graduate-level programs

The College of Nursing 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. Professionalism, ethical decision-making, accountability, critical thinking, and effective communication are emphasized. This is achieved through the application of liberal arts constructs, science, health and nursing theories, and the values of the Christian faith within the scope of nursing knowledge and evidence-based practice. Nursing practice promotes human dignity through compassionate caring for all human beings, without consideration of their gender, age, color, creed, lifestyle, cultural background, and other visible or invisible boundaries between students, faculty, and clients.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

The faculty of the College of Nursing is accountable for the quality of the educational programs and for the promotion of safe and effective nursing through teaching, service, and collaboration with other professionals and consumers of care. The following statements reflect the philosophical beliefs of the faculty in relation to the concepts of health, environment, person, and nursing.

HEALTH

Health is the central focus of nursing. Health is a dynamic aspect of being which incorporates physical, emotional, intellectual, spiritual, and social dimensions.

ENVIRONMENT

All humans interact with the physical, emotional, intellectual, spiritual, and social environments in which they work, play, and live. The nursing role is to help provide healthy and safe environments so that persons may live in optimal health.

PERSON

We believe that all people are accepted and loved unconditionally, as children of God. Clients are considered to be individuals, families, groups, communities, and populations. Human diversity is cherished. Spirituality is conceived as vertical and horizontal relationships with God and with humanity. These relationships give hope and meaning in life now and in the future.

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.

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 environment is created and arranged to meet individual learning outcomes that are consistent with CON program outcomes. CON supports life-long learning endeavors and fosters an appreciation of diversity among traditional and non-traditional learners. Students are educated to provide, direct and evaluate client-centered care while focusing on the person as an integrated whole.

College of Nursing Policies

CPR Requirements

Students must be certified in CPR for Health Care Providers through the American Heart Association or American Red Cross and are required to maintain certification throughout the program. Graduate students may also obtain CPR certification for the Professional Rescuer from American Red Cross. Information as to the availability of courses may be obtained by calling either the American Heart Association, or American Red Cross. CPR for Bystanders or the community will not fulfill this requirement. CPR instruction teaches skill of airway management and external cardiac compression for the adult and pediatric victim.

Students who do not have a current CPR certification card will not be permitted to participate in clinical experiences. In addition, Graduate students need to meet the certification requirements of the respective agency in which they perform clinical.

Policy for Student Drug Screening

The practice of professional nursing demands that the clinician be free from the influence of any substance that would impair judgment and thinking ability. As a result, health care agencies are requiring new employees to undergo drug screening. Nursing students must also be free from impairing substances. Health care agencies and CON require drug screening of nursing students prior to their first clinical experience. In addition, CON students are subject to screening if either the faculty or preceptor suspects that the student is impaired at anytime on campus, or during any health care experience or any other university or work related activity. Any student whose test is deemed positive may not be able to enroll or continue in nursing course for a minimum period of one year.

The policy is designed to identify the procedures to be followed for both types of testing as well as to outline the appeal and readmission to the program.

Initial Randomly Scheduled Drug Screening

1. First level and new transfer students will be randomly given a drug screen authorization form and time frame to submit to a urine drug screen at one of the SonoraQuest lab location options provided, where the drug screening will be performed for the initial screening.
2. Students will be required to show picture identification. A driver's license, student ID, or passport are acceptable forms of identification.
3. The cost for all screening and medical review (if deemed necessary) are the students' responsibility.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

4. A screen with questionable results will be sent by the lab for a medical review. Costs for review and retest will be the responsibility of the student.
5. A negative report is necessary to continue in the program of study in the College of Nursing.
6. This screen need not be repeated as long as the student maintains continuous enrollment, except under the circumstances described below. Continuous enrollment is defined as enrollment in nursing classes during all consecutive semesters until graduation.

Drug Screening – Suspicion of Drug Use

CON students are subject to screening if either the faculty or preceptor suspects that the student is impaired at any time on campus, or during any health care experience or any other university or clinical related activity.

If impairment is suspected, the student may be removed from clinical assignment or classroom activity pending the results of the screening and medical review, if necessary.

Documentation of all aspects of the testing incident will be treated as confidential, consistent with the interests of safety and reasonableness.

Follow-up Action

Negative Screen

1. Students whose drug screens are negative will meet with the Associate Dean to discuss the perceptions of impaired behavior, the implications and steps to avoid similar situations in the future.
2. A medical referral for documentation of any medical condition or treatment may be requested.
3. Students will not be counted as absent from clinical during this evaluation process. However, students will be expected to meet the clinical objectives.
4. A reasonable suspicion/cause drug screen that is positive; however, is deemed negative by a medical review officer will follow these guidelines:
 - a. The student will meet with the Dean.
 - b. The Dean may require the student to undergo, at the student's expense, an evaluation for drug use/prescription drug use/impairment by a neuropsychiatrist recommended by the Arizona State Board of Nursing.
 - c. The student will follow other recommendations deemed necessary by the Dean.
 - d. The student will be required to provide a negative drug screen prior to returning to clinicals and be subject to periodic drug screens at the student's expense.

- e. More than one incident of a reasonable suspicion/cause drug screen that is positive; however, deemed negative by a medical review officer may result in withdrawal from the nursing program for a minimum of 12 months. The student will follow the positive drug screening guidelines.

Positive Screen

1. Positive drug screens (including medical review) may result in withdrawal from the nursing program for a minimum of 12 months. After this 12-month period, the student may apply for re-admission under general guidelines stated in the Academic Policy Handbook, provided there is submission of evidence of satisfactory participation in a rehabilitation program for alcohol/substance abuse.
2. Sources of evidence include:
 - a. Documentation of completed program of rehabilitation
 - b. Acknowledgement of continuance in a twelve step or after-care program.
 - c. Letter from therapist or program director stating the student is now able to function safely in a clinical facility.
 - d. The student must have a negative screen prior to being readmitted to the nursing program. The screen will be done at the direction of CON and may be periodic while the student is in a CON program.
 - e. The student is responsible for all costs of screening.
3. The decision to readmit will be made by the CON faculty after review of submitted materials. As with other applications for readmission, space availability may be a determining factor for that particular semester.
4. A report will be filed with the Arizona State Board of Nursing upon withdrawal from the program consistent with the rules and regulations of the State Board of Nursing.
5. Any student who screens positive after one readmission may be permanently dismissed from the nursing program.

Students who refuse Drug Screening

1. Students who refuse to participate in screening will be required to leave the clinical area and make an appointment with the Dean of Nursing or his/her designee. The student will be transported home and remain out of the clinical area until an investigation has been done and a recommendation has been made by the Dean or his/her designee. Students who refuse screening may be subject to dismissal from the College of Nursing.
2. The student who refuses to participate in the aforementioned rehabilitation program will not be allowed into clinical courses; therefore he/she cannot complete the nursing program.

Drugs Included in Screens

Using Sonora Lab, this would be referred to as the "Standard Plus II" screen, which is the screen commonly used for health care facilities and professionals in the medical field.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

Amphetamines	Opiates
Barbiturates	Phencyclidine (PCP)
Benzodiazepines	Propoxyphene
Cocaine	Percodan
Cannaboids	Demerol
Methadone	Fentanyl

HIPAA Guidelines

As health care providers, one of the covered entities, nurses must be knowledgeable about the various aspects of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). CON offers this guidance below for those persons to ensure compliance with those requirements and asks that all students sign the HIPAA confidentiality Agreement.

Students are required to do the following:

- Sign the CON Faculty/Staff/Student Confidentiality Agreement before any involvement in a clinical agency.
- Attend CON training or in-classroom clinical instruction on requirements relating to patient privacy.
- Know and adhere to a clinical site's privacy and procedures before undertaking any activities at the site.
- Maintain at all times the confidentiality of any patient information, regardless of whether the identifiers listed in the "Do not" section of these guidelines have been removed.
- Promptly report any violation of those procedures, applicable law, or CON's confidentiality agreement by , a CON student, faculty or staff member to the appropriate CON clinical instructor or faculty member.
- Understand that a violation of the clinical site's policies and procedures, of applicable law, or CON's confidentiality agreement will subject the student to disciplinary action.

Students are not to do the following:

- Discuss, use or disclose any patient information while in the clinical setting unless it is part of the clinical setting.
- Remove any record from the clinical site without the prior written authorization of that site.
- Disclose any information about a patient during the clinical assignment to anyone other than the health-care staff of the clinical site.
- Use patient information in the context of a learning experience, classroom case presentation, class assignment, or research without attempting to exclude as much of the following information as possible:
 - Names
 - Geographical subdivisions smaller than a state
 - Dates of birth, admission, discharge, death
 - Telephone and fax numbers

- E-mail addresses
- Social security numbers
- Medical records or account numbers
- Certificate/license numbers
- Vehicle or device numbers
- Web locators/Internet protocols
- Biometric identifiers
- Full face identifiers
- Any other unique identifying number, characteristic, or code
- All ages over 89

Pre-Licensure Bachelor of Science in Nursing

Additional Admissions Requirements for the Pre-Licensure BSN Degree

In addition to the general Undergraduate Admission Requirements listed in the Admission Policies and Application Procedures section, the following admission requirements must be met:

1. Freshman students who declare nursing as a major must maintain a cumulative GPA of 3.0, successfully complete all prerequisite course work in order to progress to the nursing courses, and submit a letter of intent for the nursing major.
2. Transfer students may apply to the College of Nursing during the semester in which all prerequisite course work will be completed (semester prior to nursing coursework). Students must maintain a cumulative prerequisite GPA of 3.0.
3. Fast-track students must have all pre-requisites and co-requisites complete prior to beginning the fast-track program.
4. A maximum of two different prerequisite courses may be repeated only once to earn a grade of C or above.
5. All applicants are required to take the Nurse Entrance Test (NET).
6. Applications for Fall admission are considered the previous Spring semester. Applications for Spring admission are reviewed during the previous Fall semester. Applications for Summer admission are reviewed during the previous Spring semester.
7. Acceptance into the College is determined by the College of Nursing criteria and availability of clinical spaces.
8. A completed Background check and Fingerprint Clearance card through Arizona Department of Public Safety are required prior to admission to the College of Nursing.
9. Upon admission to the College of Nursing, students must provide health information to the CON, including but not limited to:
 - Health history

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Physical examination
- Proof of immunization or immunity for Measles, Mumps, Rubella, Varicella, Td (Tetanus/Diphtheria) Booster, TB (Tuberculosis) Screen. Hepatitis B vaccine and Influenza vaccine are recommended. Refer to the “Requirements for Admission” chart in the “Health and Immunization Requirements for Pre-Licensure Students” section below.
- Drug screen (to be scheduled by the College of Nursing)
- Current CPR certification for professional rescuer or healthcare provider is required
- Current health insurance coverage

Retention and Progression

Students who have been accepted into the nursing program may remain as nursing students if they adhere to the following criteria:

1. Maintain continuous registration for nursing courses in the major. Traditional students: continuous registration is from Fall/Spring only, while fast-track BSN students must also maintain registration in the summer.
2. Meet the standards of Grand Canyon University as outlined in the Grand Canyon University Academic Policy Handbook.
3. Pass all portions (test, theory, and clinical) of each nursing course with a 76% or greater average. Students must attain 76% or greater overall to complete the course successfully.
4. Maintain a 2.5 cumulative GPA on 4.0 scale in all nursing major courses. GPA will be calculated after the completion of each semester.
5. Maintain a cumulative GPA of 2.5 to graduate.

Health and Immunization Requirements for Pre-Licensure Students

Nursing students are expected to take measures to maintain their personal health so as not to jeopardize themselves or any patient with which they come in contact. Therefore, students who are accepted into the nursing program must show evidence of the College of Nursing required immunizations and diagnostic procedures as required by the clinical agencies utilized. At anytime, a student may be required to receive a medical examination if deemed necessary by the faculty for the wellbeing of the student and/or the patients/clients.

Students are responsible for updating CPR, TB screening, and Tetanus booster when needed. Students will not be allowed to participate in clinical experiences without all agency requirements being current. Missing clinical may jeopardize a student being successful in the program. As nursing students are in contact with clients in a variety of health situations, it is imperative that students maintain protection against communicable illnesses. In addition, students must meet agency health requirements to enter clinical course work.

The charts below indicate the specific health requirements for undergraduate admission and continuing enrollment. Guidelines are based on the Center for Disease Control guidelines, Morbidity Mortality Weekly Report.

Test	Requirements for Admission
Tuberculosis (TB)	TB skin testing is required. Initially, two-step testing will be required for all incoming students. Two-step testing is useful for the initial skin testing of adults who are going to be retested periodically, such as health care workers or nursing home residents. This two-step approach can reduce the likelihood that a boosted reaction to a subsequent Tuberculin Skin Test (TST) will be misinterpreted as a recent infection. Two-step testing is a strategy used in TB screening programs to distinguish a boosted reaction (caused by TB infection that occurred many years before the skin test) from a reaction caused by recent infection. If a person has a negative reaction to an initial skin test, a second test is given 1 to 3 weeks later; a positive reaction to the second test probably represents a boosted reaction, not recent infection. An exemption from two-step testing may be granted by the CON if the student submits documentation showing a history of annual TB testing For positive skin tests, a health department clearance is required. Evaluation will be made on an individual basis for the student who has been out of the major for at least one rotation.
MMR (rubeola, measles, mumps, rubella)	Students must show one of the following: Lab evidence (titer) of immunity MMR (two doses) Physician documented evidence of disease (not accepted for Rubella)
Varicella Zoster (VZV)	Students must show one of the following: Proof of immunity Documented evidence of disease 2 vaccines, at least 8 weeks apart
Tetanus-Diphtheria (TD)	Evidence of current status is needed every 10 years.
Hepatitis A	Hepatitis A vaccine is strongly recommended.
Hepatitis B	Hepatitis B vaccine is strongly recommended. A signed waiver available from the CON is required if the vaccination series is not complete or declined by the student

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Drug Screen A negative drug screen is required prior to beginning first clinical experience.

Influenza Strongly recommended. A signed waiver available from the CON is required if the vaccine is not complete or declined by the student.

Influenza Recommended yearly; documentation to be on file

Test	Requirements for Continued Enrollment
	TB skin testing will be done annually. For students testing positive on any TB screen, an initial chest x-ray and health department clearance is required.
Tuberculosis (TB)	Then, yearly, medical clearance is required. Repeat chest x-ray are required for: - Known exposure to TB (Refer to the Tuberculosis Exposure Plan for additional information.) - Signs and symptoms of active TB
MMR (rubeola/measles, mumps, rubella)	Students who remain non-immune are at possible risk from exposure throughout clinical course work, especially female students of child-bearing years.
	Students that are non-immune and are exposed to varicella during clinical course work will be permitted to continue clinical activities for the first 10 days. Then, they will not be allowed in the clinical area for the next 12 days.
Varicella Zoster (VZV)	An asymptomatic student may return to the clinical area after 12 days of exposure. Symptomatic students must have clearance from health care provider. A vaccinated person exposed to VZV needs serologic evidence of immunity immediately.
Tetanus-Diphtheria (TD)	TD must be repeated every 10 years or after any possible exposure.
Hepatitis A	Hepatitis A vaccine is strongly recommended.
Hepatitis B	Hepatitis B vaccine is strongly recommended: documentation to be on file.
Drug Screen	Students may be tested. See Drug Testing Policy.

Clinical Participation and Safety Guidelines for Pre-Licensure Programs

- Participation in clinical experience is essential to meet the objectives for all clinical nursing major courses. Students are responsible for all materials covered while student is absent.
- Clinical absences may result in clinical probation. Students who are too ill to perform safely in clinical should seek medical attention and contact nursing faculty prior to missing clinical lab.
- Any student who has experienced an Emergency Department visit or hospitalization or an acute illness, trauma, surgery or pregnancy/delivery will need a health care provider's release to return to clinical. Such a release should provide information that attests to the fact that the student is physically and emotionally able to provide direct patient care..
- Students who must miss clinical due to pregnancy or extended illness may not be able to complete clinical objectives. Students must contact the course instructor to discuss options. The College of Nursing is not obligated to provide makeup clinical opportunities for students unable to complete clinical during the normal academic calendar. Any make-up clinical opportunity will be at the student's expense and subject to faculty availability, clinical site availability, and approval of the Dean of the College of Nursing.

Standard Precautions

Student nurses are not to care for patients with active TB unless ultrafiltration masks or individually fitted masks are available. Student nurses will adhere to all guidelines for Standard Precautions within the clinical agencies.

Protocol for Puncture Wounds and Exposure to Blood or Bodily Fluids

Incidents involving any type of needle stick or body-fluid exposure must be reported to the Preceptor/Clinical Facility immediately!

All faculty and student should observe the protocol for safe needle usage when practicing or performing parental injections, IV starts, blood draws or using syringes as part of a skills check off. The faculty/student should follow the protocol for needle usage at the agency where clinicals are being held.

Uncontaminated Needle Stick

If a student accidentally punctures him/herself with an uncontaminated needle or is exposed to blood or bodily fluid that is an intact skin exposure should:

- Wash the area immediately and thoroughly with soap and water

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Follow-up with the Cooke Health and Wellness Center or own Primary Care Provider who will make a determination of Tetanus immunization status and give appropriate prophylaxis or referral for appropriate prophylaxis.
- Complete a student nurse puncture wound incident report (Available from the CON) to be filled out by the student and the supervising faculty or instructor who was present during incident. A copy of this report will be given to the Associate Dean and placed in the student's file.
- Counseling referral and other referrals can be arranged through the health center.

Contaminated Needle Stick

If the exposure is via a contaminated needle or if a bodily fluid exposure to non-intact skin, the student should continue with the following:

- Follow-up in an Emergency Department within two hours
- Student nurse puncture wound incident report will be filled out by the student and the faculty or instructor who was present during incident. A copy of this report will be given to the Associate Dean to be placed in the student's folder.

Financial responsibility for testing and recommended care following an exposure rests solely with the student nurse. This could include testing, evaluation, treatment, and counseling.

Tuberculosis Exposure Plan

Tuberculosis (TB) exposure potential is defined as any exposure to the exhaled or expired air of a person with suspected or confirmed TB disease. A high hazard procedure involving an individual with suspected or confirmed TB disease are those that have the potential to generate potentially infectious airborne respiratory secretions such as aerosolized medication treatment, bronchoscopy, sputum induction, endotracheal intubation, and suctioning.

Workplaces with inherent exposure potential to TB disease:

- Health care facilities
- Corrections facilities
- Homeless shelters/clinics for homeless
- Long term health facilities
- Drug treatment centers

Post-exposure Procedure

- When a Tuberculosis (TB) exposure occurs, the involved student will report the incident to the clinical instructor and the appropriate administrative staff at the involved institution or agency.
- The student will be counseled immediately and referred to his or her personal health care provider, the Maricopa County Health Department, or the Cooke Health Center. A baseline Tuberculosis Skin Test (TST) should be administered as soon as possible after the exposure.
- Frequency of follow-up TSTs will be performed per provider protocol. A TST performed 12 weeks after the last exposure will indicate whether infection has occurred.

- A student with evidence of new infection, (TST conversions) needs to be evaluated for active TB. Even if active TB is not diagnosed, prophylactic therapy for latent TB is recommended.
- A student with a previously documented reactive TST need not be retested but should have a baseline symptom screen performed following the exposure and repeated 12 weeks after the exposure. If the symptom screen is positive a chest x-ray is required.
- Any active case of TB must be reported to Maricopa County Health Department.

Class Attendance

- A student diagnosed with active pulmonary or laryngeal TB may be highly infectious; and will not be able to attend class or clinical experiences until he/she is noninfectious.
- In order to return to school the student will need to provide documentation from the health care provider that he/she is noninfectious. The documentation needs to include evidence that:
 - the student has received adequate therapy for a minimum of 2 weeks.
 - the cough has resolved, and the student is not experiencing chest pain, hemoptysis, fever or chills.
 - the results of three consecutive sputum acid-fast bacilli (AFB) smears collected on different days are negative

Note: The Cooke Health Center can perform TST, but will refer the student to Maricopa County Health Dept for treatment and AFB testing if indicated.

Documentation and Financial Responsibility

- After the student returns to school and remains on anti-TB therapy, periodic documentation from their health care provider is needed to show that effective drug therapy is being maintained for the recommended period and that the sputum AFB smear results remain negative.
- The student is responsible for all costs related to the exposure incident.
- The student's health records will be maintained in a confidential file within the College of Nursing.

(Source: [Centers for Disease Control](#). (1998). Excerpts from *Tuberculosis Infection Control in Healthcare Personnel*.)

Mandatory Advisement

Faculty members may request mandatory advisement sessions when students are in clinical or academic jeopardy, and/or when student behavior appears below professional standards. Satisfactory academics and/or behavioral changes must be accomplished by the end of the course in order to progress in the nursing program. It is important to maintain continuous progress and a sound knowledge base to be successful throughout the program.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Academic Probation

1. A student is placed on academic probation if the student falls below the cumulative GPA of 2.5 in nursing major courses.
2. The student may be denied continued registration in the nursing program if unable to raise nursing major cumulative GPA 2.5 during the subsequent semester.
3. The student is removed from academic probation when the GPA is 2.5 or above in nursing major courses.

Clinical Probation

Clinical probation means the student is not meeting the stated clinical objectives. Faculty may remove a student from the clinical area and the Associate Dean may confirm clinical probation action for any unsafe or unprofessional behaviors. Being placed on clinical probation can affect the clinical grade and may result in the student being withdrawn from the course.

1. Clinical probation usually will not extend beyond any given course.
2. Students must satisfactorily complete course clinical objectives as stated in the syllabus and determined by the faculty before progressing to the next course.
3. Students must successfully complete the syllabus stated objectives at or above 76% before proceeding to the next level.

Examples of probationary actions:

- Unsafe practice in the clinical area
- Insufficient preparation for clinical experience
- Failure to follow faculty/staff guidance in clinical
- Failure to notify faculty/staff of tardiness or absences in clinical
- Causing patient to experience unnecessary suffering
- Inappropriate performance specific to level expectations
- Unprofessional communication to faculty, staff, or patient
- Non-adherence to student uniform attire

Re-Entry to Nursing Major Courses

Students who fail a course in the Fast Track and apply for re-entry will be considered for the traditional BSN program. Exceptions are made on an individual basis.

Students who have failed courses in the nursing major must submit a re-entry application to the CON to be considered for re-entry into the program. Students must apply for re-entry to the nursing major under the following conditions

1. Student has been out of the nursing major (for at least one clinical course).
 - a. Student receives a failure in nursing course. Failure of a course occurs when the student receives below a 76% in the final grade calculation of theory and clinical. Failure removes the student from the nursing major and the student must reapply to the nursing program to be considered for reinstatement into the program.

- b. Student has been administratively withdrawn from the nursing major course.
2. The student must complete an "Application to Re-enter the Nursing Major" form and submit it to the Associate Dean. The student must meet the designated application deadline. The student who wishes to be readmitted following a failure or administrative withdrawal from a course in the nursing major must submit a request to CON to do one of the following:
 - a. Repeat the failed or uncompleted course.
 - b. Continue to the next nursing major course if the failed course is not a prerequisite.
 - c. Withdraw from the next rotation and reapply for readmission to the following semester.
 3. Re-entry to the major is not assured simply because the student was previously enrolled in nursing courses or was previously accepted. The decision will be based on the evidence showing that the student is ready to continue, has potential to complete the program, and is in compliance with University regulations and standards of behavior. All decisions to readmit are also contingent upon clinical space availability. The student must meet all admission requirements to be considered for re-entry into the program
 4. Only one failed nursing course may be repeated once based on acceptance of the student by the reapplication process to the major. Subsequent course failures constitute administrative withdrawal from the nursing college.

Student Uniform Attire

The student uniform should be worn only for specific scheduled clinical or classroom activities.

The uniform consists of:

1. Purple scrub pants or a skirt below the knees that is purple or white
2. Purple scrub tops with modest neckline
3. White lab jacket
 - a. A white lab jacket must be worn if appropriate street clothes are worn in place of the uniform for patient selection. Shorts, very short skirts, jeans, tank tops, tube tops, see-through clothing, exercise clothes (sweats), and open-toed shoes are not acceptable attire in any clinical agency.
 - b. A white lab jacket is now optional for Level 4. Uniform will be as required by clinical agency.
 - c. Scrubs and white lab jackets may be purchased through the CON Student Nurses Association (SNA).
4. Optional, white cotton tee shirts, crew neck or turtleneck, may be worn under uniforms for warmth or modesty. A scrub jacket may be worn in the clinical setting for warmth.

*Campus/Off-site only | [^]Writing-intensive course | [♦]Fulfills Grand Experience requirement | [✱]Fulfills Grand Experience Christian Studies requirement

5. Name pin, available at the University Bookstore. The name pin (first name, SN) must be worn while attending any clinical activity. Name pins will not be worn outside of the clinical agency. The name pin should show your first name, SN ("SN" stands for Student Nurse.)
6. White or neutral socks or hose are to be worn with the uniform.
7. Shoes are to be predominantly white duty, leather shoes with predominantly white soles and closed heels or predominantly white, clean athletic shoes. Shoelaces must also be white.
8. Undergarments will not be visible through the uniform.
9. Additional items to be part of the uniform are:
 - a. Stethoscope with a bell and diaphragm head
 - b. Penlight
 - c. Bandages scissors
 - d. Black and Red pens
 - e. Goggles/ Protective eye wear
 - f. If a belt organizer is used, it must be white or purple.
 - g. Watch with a second hand.

Professional Appearance

1. When applicable, the clinical facility's ID must be worn whenever in that facility. Students who do not wear this ID may be asked to leave the facility.
2. Hair should be short, pulled back and styled neatly. Beards or mustaches, if worn, should be neatly trimmed.
3. Fingernails should be neatly trimmed and free of cracked nail polish. Only clear or neutral nail polish may be used if desired. Acrylic nails or any other nail enhancements are not permitted.
4. Permitted jewelry is: one pair of studded earrings, a watch, a plain ring band. No other visible jewelry is acceptable including tongue rings or other facial jewelry. Tattoos and any other body art should be covered where possible. (Students are directed to follow the agency guidelines when in specified areas such as nursery, labor and delivery, and operating room).
5. Perfume, after-shave lotion, and heavy makeup are not acceptable in the clinical area.
6. Gum chewing is not acceptable.
7. Clothing worn in course activities not requiring student uniform should adhere to professional standards.
8. Cell phone use is not permitted in the classroom or clinical setting.

Please remember that students also represent Grand Canyon University. Look clean, neat, and professional.

Professional Attire for Formal Presentations (Applies to Prelicensure, RN-BSN, RN-MS-N and MS-N)

Business casual is acceptable which can be interpreted as:

1. Women: slacks (dress pants), skirts (mid-calf to about two inches above the knee), blouses, shells, cardigans, blazers, dresses.
2. Men: dress pants, button down shirts, polo shirts (short sleeved shirts with a collar), blazers.

Do not wear:

3. Denim material
4. Anything that is see-through, short, tight, or shows too much skin.
5. Flip-flops, tennis shoes

Student Achievement Tests

Students are required to complete a minimum of one Assessment Technologies Institute, LLC (ATI) exam in each of the five levels of nursing courses. For the courses in which an ATI exam is assigned, a score at or above the Level 2 proficiency on the first attempt will result in earning 2 points. If the Level 2 proficiency is not met, ATI recommended remediation based on areas of weakness will need to be completed. Following remediation, a second attempt will be given to meet the level 2 proficiency. If this proficiency is met, 1 point will be earned. If a level 2 proficiency is not met on the second attempt, remediation will again need to be completed, using the ATI suggested remediation from the second exam and no points will be earned. Failure to complete the assigned ATI exams and remediation as needed will result in a grade of incomplete for the course, pending completion of all criteria and in accordance with the GCU Incomplete policy. Incomplete grades may prevent students from progressing to the next course if that course is a prerequisite for other curriculum.

Licensure Examination

In order to be eligible to take the National Council of State Boards of Nursing Examination for Professional Licensure after graduation, students must have completed the BSN program of study and hold a diploma. No exceptions are made to this policy. Students are responsible for applying to take the National Council License Examination – Registered Nurse (NCLEX-RN) exam for professional licensure through the State Board of Nursing.

Graduation Requirements for the Pre-Licensure Bachelor of Science in Nursing Degree

The registered nurse licensing requirements are the exclusive responsibility of the State Board of Nursing (Nurse Practice Act, A.R.S. Sections 36-1601 et. seq.) and must be satisfied independently of any requirements for graduation from the University. Historically, College of Nursing graduates have been successful on the licensure examination. Satisfactory performance on the licensure examination is the responsibility of the graduate and not guaranteed by the College of Nursing.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Professional Nurse Qualifications

Section 32-1632 of the Arizona State Board of Nursing Statutes, Chapter 15, Article 2 – Licensing states, “An applicant for a license to practice as a graduate, professional or registered nurse shall file with the board a verified written application accompanied by the prescribed fee and shall submit satisfactory proof that the applicant:

1. Has completed the basic professional curriculum in approved professional nursing program and holds a diploma or degree from that program.
2. If convicted of one or more felonies, has received an absolute discharge from the sentences for all felony convictions five or more years prior to the date filing an application pursuant to this chapter.”

Nursing students are expected to be clear of any felony convictions at the time of admission into the College of Nursing and to remain free of felony convictions for the duration of the program. If the prospective student or student is charged with a felony either before admission or during the program, he/she must speak with the Associate Dean immediately.

Undergraduate Programs

Bachelor of Science in Nursing (BSN)

Pre-Licensure

Degree Requirements

The Grand Experience	39 credits
Nursing Prerequisites (41 Credits Total)	18 credits
23 of the 41 credits will satisfy the requirements of the Grand Experience.	
Nursing Major (64 Credits Total)	64 credits
Total Pre-Licensure Bachelor of Science in Nursing	121 credits

Specific suggestions related to the Grand Experience can be found within the Program of Study that is posted on <http://my.gcu.edu>.

Bachelor of Science in Nursing Prerequisites

Pre-licensure students without a recent and strong biology background must complete [BIO 181](#), General Biology, or pass the Biology pre-assessment prior to registering for [BIO 201](#).

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
BIO 205	Microbiology	3 credits
BIO 205L	Microbiology Lab	1 credit
BIO 304	Applied Nutrition	3 credits
BIO 368A	Pathophysiology I	2 credits

BIO 368B	Pathophysiology II	2 credits
MAT 120 ♦	Intermediate Algebra	3 credits
CHM 101	Introduction to Chemistry	3 credits
CHM 101L	Introduction to Chemistry Lab	1 credit
ENG 101 ▲♦	Academic Writing	3 credits
ENG 102 ▲♦	Research Writing	3 credits
PSY 101 ♦	General Psychology	3 credits
BIO 363	Biostatistics	3 credits
NUR 207 ♦	Therapeutic and Professional Communication	3 credits

Total Pre-Licensure Prerequisites	41 credits
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Nursing Major

NUR 206A	Introduction to Nursing and Gerontology I	3 credits
NUR 206B	Introduction to Nursing and Gerontology II	3 credits
NUR 203	Introduction to Pharmacology	3 credits
NUR 209	Health Assessment	3 credits
NUR 311	Adult Health Nursing I	6 credits
NUR 312	Adult Health Nursing II	6 credits
NUR 313	Nursing Care of the Childbearing Family	6 credits
NUR 314	Family Centered Child Health Nursing	6 credits
NUR 398 ▲	Introduction to Nursing Research	3 credits
NUR 411	Community Health Nursing	5 credits
NUR 412	Home Health Care Nursing	3 credits
NUR 413	Community Mental Health Nursing	5 credits
NUR 443	Management/Leadership and Management of Health Care System and Policy	2 credits
NUR 456	Complex Care	6 credits
NUR 498A ▲	Capstone	1 credit
NUR 498B	Practicum in Nursing	3 credits

Total Nursing Major Credits	64 credits
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Registered Nurse to Bachelor of Science in Nursing (RN to BSN)

Additional Admission Requirements for the RN to BSN

In addition to the general Undergraduate Admission Requirements listed in the [Admission Policy and Procedure](#) section, the following admission requirements must be met.

1. Degree-bearing Candidates
 - a. Possess a GCU-approved Associates degree in nursing from an accredited, GCU-approved college, university, or program.

*Campus/Off-site only | ▲ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- b. Submit official transcripts bearing evidence of a cumulative GPA of 2.8. No transferable credits may have a grade below a "C" (2.00).
 - c. Possess a current unencumbered, unrestricted license as a registered nurse in the state where they are employed as an RN.
2. Non-degree-bearing Candidates
- a. Submit proof of successful completion of an approved nursing program.
 - b. Tender official transcripts bearing evidence of a cumulative GPA of 2.80. No transferable credits may have a grade below a "C" (2.00).
 - c. Possess a current unencumbered, unrestricted license as a registered nurse in the state where they are employed as an RN.
 - d. Be prepared to transfer or complete the following general education competencies that are not integrated into the program core with a minimum grade of "C" (2.00)
 - 6 credits of English Composition
 - 5 credits of Scientific Inquiry
 - 3 credits of History
 - 4 credits of Humanities

Retention and Progression

Students who have been accepted into the nursing program may remain in the program if they adhere to the following criteria:

1. Maintain continuous registration for nursing courses in the major: Summer, Fall, and Spring.
2. Meet the standards of Grand Canyon University as outlined in the Grand Canyon University Academic Policy Handbook.
3. Maintain a 2.5 cumulative GPA on 4.0 scale in all nursing major courses. GPA will be calculated after the completion of each semester.
4. Maintain a cumulative GPA of 2.5 to graduate.

Attendance

The courses offered in the RN to BSN program are concentrated seminars. Attendance is a prerequisite for student learning in the courses and the personal and small group relationships facilitated in class sessions. For these reasons, no "free" or "automatic" absences exist.

Sometimes unavoidable absences may occur. These absences must be discussed with the instructor of the course, preferably before the class session meets. If the absence is completely unavoidable and the professor is informed, the following guidelines apply:

1. One absence, for whatever reason, requires a make-up assignment. Even with the make-up assignment, some grade reduction will occur. An "I" (incomplete) grade may be requested by the student within the guidelines of the grading system. (See Grading Information.)

Make-up assignments may consist of two options:

- a. Attendance in an identical session of the course, albeit held on another class night that week, if class is available that week. This attendance must be coordinated with instructor to be recorded effective.
 - b. A written assignment, covering the content missed in the class, as approved by the instructor.
2. Absences for two consecutives or non-consecutive classes in a course results in a grade of "F." Furthermore, a conference may be arranged with the student, the instructor, and the Director of the RN to BSN program to determine continuance in the program. If the student is allowed to remain in the program after failing one course, the course must be repeated and other stipulations for continuation may be delineated.
 3. A student repeating a course is charged the tuition rate for the semester that the student repeats the course.
 4. A student who fails two courses in the program will be administratively withdrawn from the program.

Class Scheduling

Upon enrolling in the College of Nursing RN to BSN program, students are assigned to specific evening or cohort group. Because of the synergistic, developmental, cooperative learning nature of the classes, it is recommended that learners remain with the group of students with whom they began and that they complete the courses in the sequence delineated on the course schedule. If extenuating circumstances exist, the student may discuss options for changing cohorts with the Director of the RN to BSN program or the Dean of the College of Nursing.

Registered Nurse to Bachelor of Science in Nursing (RN to 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.

RN to BSN students must take statistics as a requirement of graduation. The course may be included in the maximum number of transfer credits or taken as an upper-division elective at Grand Canyon University.

RN to BSN Degree Requirements

Maximum Transferable Course Work	84 credits
RN to BSN Core	36 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Total Registered Nurse to Bachelor of Science in Nursing	120 credits
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RN to BSN Core

NRS 430	Professional Dynamics	3 credits
NRS 429	Family Centered Health Promotion	3 credits
NRS 434	Health Assessment	3 credits
NRS 431	Community Health Systems and Concepts I	3 credits
NRS 438	Community Health Systems and Concepts II	3 credits
NRS 433 ^Δ	Introduction to Nursing Research	3 credits
NRS 437 [†]	Ethical Decision Making in Health Care	3 credits
NRS 349 [†]	Spirituality in Health Care	3 credits
NRS 410	Pathophysiology and Nursing Management of Clients' Health	3 credits
NRS 451	Nursing Leadership and Management	3 credits
NRS 440	Trends and Issues in Health Care	3 credits
NRS 441 ^Δ	Professional Capstone Project	3 credits
Total RN to BSN Core Credits		36 credits

Requirement for Graduation

BIO 363	Biostatistics	3 credits
-----or-----		
PSY 363	Introduction to Probability and Statistics	3 credits
-----or-----		
HLT 362 [♦]	Applied Statistics for Health Care Professionals	3 credits

(Note: The statistics requirement may be satisfied as a lower-division course.)

Graduate Degree Requirements

Additional Graduate Nursing Admission Requirements

In addition to the general Graduate Admission Requirements listed in the [Admission Policy and Procedure](#) section, all College of Nursing graduate program candidates must hold a bachelor's degree in nursing from a NLNAC/CCNE accredited program, reflecting a cumulative grade point average of 3.0 or above (on a 4.0 scale). Graduate students must have had courses in statistics and research (FNP, CNS, NEd, and MS-NL), health assessment (FNP, CNS, NEd), and pathophysiology (FNP, CNS, NEd) (courses must be shown on official transcripts). Students must also present a valid unrestricted and unencumbered U.S. RN license with no history of discipline in the state of practice.

Upon admission, the following will be required to:

- Contact the State Board of Nursing Variance in state of residence to determine the requirements for certification of nurse practitioner/advanced practice

RN Licensure Requirement

The graduate nursing student is required to have a current unencumbered license in their state of residence upon admission to the program and for the duration of study. A current license must also be maintained in any state the student is completing clinical requirements. A copy of the current license must be on file at the College of Nursing upon admission to the program and updated as necessary. The student is responsible for notifying the Associate Dean of the College of Nursing immediately in the event the RN license becomes encumbered or is under investigation during their course of study. Resulting consequences will be determined on a case-by-case basis based on the threat to public safety after review by the College of Nursing Graduate Committee.

Malpractice Coverage

Student-Self Coverage:

Students carry their own professional liability insurance. The coverage is a minimum of \$1 million per event/\$3 million total coverage. Proof of insurance must be submitted upon request by the College of Nursing.

University Coverage:

College of Nursing carries Medical Professional Liability Insurance on all students in the Masters/FNP/CNS/NEd program programs. The coverage is \$2,000,000 each incident or occurrence and \$4,000,000 in the aggregate through the following company:

Marsh Affinity Group Services as service of Seabury & Smith
1440 Renaissance Dr.
Park Ridge, IL 60068
800-621-3008
Certificate number AHC-1182090

Graduate Clinical Requirements

- Upon admission, the following will be required for the FNP, CNS, and CNS-NEd programs:
 - State Board of Nursing Variance
 - Clinical Placement
 - All FNP, CNS, and CNS-NEd students are required to submit the appropriate immunization, health insurance, and other documentation to the college prior to registering for the first clinical course. Students are required to maintain current records at the college in order to continue in the clinical setting each semester.

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [†] Fulfills Grand Experience Christian Studies requirement

- FNP students are required to submit a Student Clinical Placement Application for each semester when clinical credits are being taken, regardless of whether the college or the student determines the clinical assignment. CNS students may submit the Student Clinical Placement Application for clinical placement assistance; they should be communicating with the CNS Faculty Lead for further direction regarding clinical placement. The College of Nursing will give priority to assigning clinical placements to those students who have submitted the application and all required documentation by the appropriate deadline.

<i>Semester</i>	<i>Application Deadline</i>
▪ Spring 2009	▪ October 1, 2008
▪ Summer 2009	▪ February 1, 2009
▪ Fall 2009	▪ February 1, 2009

- Prior to registration for NUR 643 or NUR 655, the following will be required for the FNP, CNS, and CNS-NED programs:
 - Required Liability Insurance
Evidence of Professional Nursing Liability Insurance \$1 million per event and \$3 million total coverage
 - Evidence of Health Insurance
 - Health/Safety Requirements
 - Health History/Note from PCP stating that student is healthy to participate in clinical activities
 - Current immunization record – Tetanus (Td) booster within past 10 years, Hepatitis B series, Measles, Mumps and Rubella, Varicella immunization or evidence of immunity, and TB screen
 - CPR certification current for the Health Care Provider from American Heart Association or CPR for the Professional Rescuer from American Red Cross
 - Drug Screen – negative
 - HIPAA Confidentiality Agreement
Sign the HIPAA Confidentiality Agreement form.

Graduate Progression and Re-entry Requirements

Students who have failed courses must submit an official academic appeal to be considered for re-entry into the program. Students must apply for re-entry to the Master of Nursing program under the following conditions:

- Interrupted Enrollment – Students have not been enrolled in the courses of the graduate program for more than one year.

- Course Failure – Students have received a failing grade in a graduate nursing course.
 - Failure of a course occurs when students receive below a 76% in the final grade calculation of theory and/or a clinical segment.
 - Failure of one or both theory and clinical co-requisites predicates the retaking of the composite course, (i.e., theory and clinical components).
 - Failure removes students from the graduate nursing program and requires reapplication to the graduate nursing program for progression consideration.

Only ONE failed graduate nursing course may be repeated once. Subsequent course failures constitute administrative withdrawal from the nursing college.

Graduate Programs

Registered Nurse to Master of Science-Nursing

This program is a blend of the existing RN to BSN and MS-N programs. The RN to BSN curriculum will be truncated by several courses whose content will be covered in the master's materials. After completing the third semester of the RN to MS-N undergraduate core, students will move directly into the graduate Nursing programs that they declared upon admission to the RN to MS-N program.

Admission Requirements

In addition to the general Undergraduate Admission Requirements listed in the Admission Policy and Procedure section of the Grand Canyon University Academic Policy Handbook, the following admission requirements must be met. Applicants for the RN to MS-N program must have a current, unencumbered, and unrestricted license as a registered nurse in the state where they are employed as an RN. Cumulative GPA of 3.0 or greater is required for admittance to the program. Applicants must have completed at least 83 undergraduate credits, either in residency with or in transfer to Grand Canyon University, before beginning the Program of Study listed below.

Program Prerequisites (see course descriptions)

Choose one of the following statistics courses:

BIO 363	Biostatistics	3 credits
PSY 363	Introduction to Probability and Statistics	3 credits
HLT 362 ♦	Applied Statistics for Health Care Professionals	3 credits

Take 4 credits of Pathophysiology

BIO 368A	Pathophysiology I	2 credits
BIO 368B	Pathophysiology II	2 credits

RN/MS-N Undergraduate Core

NRS 430	Professional Dynamics	3 credits
NRS 429	Family Centered Health Promotion	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

NRS 433^A	Introduction to Nursing Research	3 credits
NRS 434	Health Assessment	3 credits
NRS 431	Community Health Systems and Concepts I	3 credits
NRS 438	Community Health Systems and Concepts II	3 credits
NRS 437	Ethical Decision Making in Health Care	3 credits
NRS 349[†]	Spirituality in Health Care	3 credits
NRS 451	Nursing Leadership and Management	3 credits

Total RN/MS-N Undergraduate Core Credits 27 credits

Master of Science-Nursing (MS Nursing)

The five concentrations offered for the Master of Science-Nursing are the following:

- Family Nurse Practitioner (FNP)
- Nursing Leadership in Health Care Systems (NL)
- Clinical Nurse Specialist (CNS)
- Nursing Education (NEd)
- Clinical Nurse Specialist with Education Focus (CNS-Ed)
- The following dual degree is also offered:
- Master of Business Administration and Master of Science – Nursing: Nursing Leadership in Health Care Systems

Nursing Core

NUR 501	Advanced Nursing Issues and Role	3 credits
NUR 503	Health Care Policy and Finance Issues	3 credits
NUR 505	Advanced Nursing Theory	3 credits
NUR 507	Health Care Research, Analysis, and Utilization	3 credits
NUR 698	Evidence-based Practice Project	3 credits

Total Core Credits 15 credits

Advanced Nursing Core (FNP, CNS, and CNS-Ed)

NUR 642	Adv Physiology and Pathophysiology*	3 credits
NUR 644	Adv Pharmacology*	3 credits
NUR 640	Advanced Health Assessment and Diagnostic Reasoning with Skills Lab	3 credits
	(Requirement for students in FNP, CNS, and CNS-Ed programs)	

Total Advanced Nursing Core (FNP, CNS, and CNS-Ed) 9 credits

Advanced Nursing Education Core (NEd)

NUR 642E	Adv Physiology and Pathophysiology for Nurse Educators*	3 credits
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NUR 644E	Adv Pharmacology for Nurse Educators*	3 credits
NUR 640E	Advanced Health Assessment for Nurse Educators for Nurse Educators	3 credits
	(Requirement for students in the NEd program)	

Total Advanced Nursing Core (NEd) 9 credits

Post-Master of Science-Nursing Certificates

Post-Master of Science-Nursing Certificates are available in each of the following areas:

- Family Nurse Practitioner (FNP)
- Clinical Nurse Specialist (CNS)
- Clinical Nurse Specialist (CNS) with Education focus
- Nursing Education (NEd)

* Certificate requirements, including the possession of a graduate nursing degree, are noted within the degree programs.

Master of Science-Nursing: Family Nurse Practitioner (FNP)

The MS-FNP concentration prepares the professional nurse for advance practice as a primary care provider. The Family Nurse Practitioner (FNP) makes independent judgments in all levels of prevention including health promotion, health screening, illness prevention and restoration, and rehabilitation for individuals, families, communities, and populations. The FNP performs comprehensive health assessments, diagnoses, prescribes pharmacologic and non-pharmacologic treatments to manage common, 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, collaborating, using research to make practice decisions, and influencing professional and public policies. Within various practice settings, the FNP provides health care throughout the life cycle. This role may also include case management, marketing, business management, reimbursement, quality improvement, teaching of professionals, and broad based consultation.

Family Nurse Practitioner Degree Requirements

Nursing Core	15 credits
Advanced Nursing Core (FNP, CNS, and CNS-Ed)	9 credits
Major Requirements	28 credits

Total Family Nurse Practitioner 52 credits

Family Nurse Practitioner Major

NUR 646	Health Promotion in Advanced Practice Nursing*	3 credits
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Campus/Off-site only | ^A Writing-intensive course | [†] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

NUR 643	Advance Practice Management of Adult Healthcare Problems in Primary Care*	6 credits
NUR 651	Advance Practice Management of Pediatric and Adolescent Healthcare Problems in Primary Care*	6 credits
NUR 662	Advance Practice Management of Geriatric and Women's Healthcare Issues in Primary Care	6 credits
NUR 654	Diverse Applications of Advanced Practice Concepts*	3 credits
NUR 661	Advanced Practice Clinical Practicum (4 clinical credits)*	4 credits

Family Nurse Practitioner Credits 28 credits

* Required for Post Masters FNP Certificate

Master of Science-Nursing: Nursing Leadership in Health Care Systems (NL)

The Nursing Leadership in Health Care Systems, the MS-NL concentration, prepares the professional nurse for distinction in a leadership role for today's rapidly changing health care delivery systems. This program is designed to apply both the cognitive and behavioral skill sets necessary to be an effective leader. The entire curriculum of the MS-NL program explores values, content knowledge, and skills required to understand and apply effective leadership requirements in the health care environment.

MS-NL Degree Requirements

Nursing Core	15 credits
Major Requirements	21 credits
Total Nursing Leadership in Health Care Systems	36 credits

Nursing Leadership in Health Care Systems

MLE 601	Introduction to Organizational Leadership	3 credits
MGT 625	Leadership Styles and Development	3 credits
BUS 604	Organizational Ethics	3 credits
MLE 605	Leading High Performance Teams	3 credits
MGT 626	Organizational Systems and Cultures	3 credits
MGT 623	Organizational Development and Change	3 credits
LDR 650	Diversity Management and Leadership	3 credits
Nursing Leadership in Health Care Systems		21 credits

Master of Science-Nursing: Adult Clinical Nurse Specialist (CNS)

The MS-CNS concentration prepares the professional nurse as an advance practice nurse. The CNS addresses health care needs in the three CNS spheres of influence – the patient/client, nurses and nursing practice, and systems and organizations. The dimensions of the CNS role include clinical judgment, clinical inquiry, facilitator of learning, collaboration, systems thinking, advocacy/moral agency, caring practices and response to diversity.

Clinical Nurse Specialist Degree Requirements

Nursing Core	15 credits
Advanced Nursing Core (FNP, CNS, and CNS-Ed)	9 credits
Major Requirements	19 credits
Total Adult Clinical Nurse Specialist	43 credits

Adult Clinical Specialist Major

NUR 655	CNS I Theoretical Foundations*	6 credits
NUR 645	Theories and Methods of Teaching*	3 credits
NUR 657	CNS II Influencing Change in Health Care Systems*	6 credits
NUR 663	CNS Clinical Internship (4 clinical credits)*	4 credits

Adult Clinical Nurse Specialist Credits 19 credits

* Required courses for Post Master's CNS Certificate

Master of Science-Nursing: Adult Clinical Nurse Specialist (CNS-NEd) (education focus)

Adult Clinical Nurse Degree Requirements

Nursing Core	15 credits
Advanced Nursing Core (FNP, CNS, and CNS-Ed)	9 credits
Major Requirements	25 credits
Total Adult Clinical Nurse Specialist	49 credits

Adult Clinical Specialist Major (with education focus)

NUR 645	Theories and Methods of Teaching*	3 credits
NUR 649	Curriculum Development*	3 credits
NUR 655	CNS I Theoretical Foundations*	6 credits
NUR 647	Instructional Development for Distance Learning*	3 credits
NUR 657	CNS II Influencing Change in Health Care Systems*	6 credits
NUR 660	CNS Clinical Internship/Teaching Practicum (4 clinical credits)*	4 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Adult Clinical Nurse Specialist (education focus) 25 credits

* Required courses for Post Master's CNS Certificate with education focus.

Master of Science-Nursing: Nursing Education

The Nurse Educator (MS-NEd) concentration prepares advanced professional nurses in the nursing role specialty of nursing education. The NEd program addresses the expanding educational needs of the nursing profession. The Nurse Educator may practice in a variety of settings. The Nurse Educator will be prepared to practice in acute or chronic care settings as a staff-educator or in a role that is responsible for planning implementing and evaluating continuing education programs. The Nurse Educator will also be prepared to assume a faculty position in a traditional college of nursing or in a non-traditional program that relies on online technology as a teaching medium. Competencies of the Nurse Educator include assessing educational needs, planning programs to meet those needs and evaluating the outcomes of the programs. This is accomplished in the context of an evidence-based practice model.

Degree Requirements

Nursing Core	15 credits
Advanced Nursing Education Core (NEd)	9 credits
Major Requirements	12 credits
Total Nursing Education	36 credits

Nursing Education Major

NUR 649	Curriculum Development*	3 credits
NUR 645	Theories and Methods of Teaching*	3 credits
NUR 647	Instructional Development for Distance Learning*	3 credits
NUR 665	Teaching Practicum*	3 credits

Total Nursing Education Major 12 credits

* Required courses for Post Master's NEd Certificate
(Note: The sequence of the courses in the Nursing Education major is intended to maximize learning outcomes and should not be altered.)

Master of Business Administration and Master of Science in Nursing: Nursing

Leadership in Health Care Systems (Dual-Degree)

The Master of Business Administration and Master of Science in Nursing: Nursing Leadership in Health Care Systems dual-degree program is designed to afford students the 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.

This degree is offered in conjunction with the Ken Blanchard College of Business. Further information can be found under the Ken Blanchard College of Business section of the Academic Catalog.

MBA Fundamentals	6 credits
Business Administration Core	30 credits
Master of Science-Nursing: Nursing Leadership in Health-Care Systems	27 credits

Total Master of Business Administration and Master of Science-Nursing: Nursing Leadership in Health-Care Systems 63 credits

ACC 501	Accounting Principles	3 credits
FIN 501	Finance Principles	3 credits

Total MBA Fundamentals 6 credits

MGT 626	Organizational Systems and Cultures	3 credits
MGT 625	Leadership Styles and Development	3 credits
MGT 623	Organizational Development and Change	3 credits
NUR 501	Advanced Nursing Issues and Roles	3 credits
NUR 503	Health Care Policy and Finance Issues	3 credits
NUR 505	Advanced Nursing Theory	3 credits
NUR 507	Health Care Research Analysis and Utilization	3 credits
NUR 698	Evidence-based Practice Project	3 credits
LDR 650	Diversity Management and Leadership	3 credits

Total Master of Science-Nursing: Nursing Leadership in Health Care Systems 27 credits

College of Health Sciences Vision

The College of Health Science is the "gold standard" in providing the most desirable training for quality preparation of health care professionals.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

College of Health Sciences

Mission

The College of Health Sciences provides an academically challenging, values based environment that prepares learners to be critically thinking health care professionals who become global citizens, effective communicators, and responsible leaders in the context of our Christian heritage.

Biomedical Sciences

Courses in the Biology program are intended to help students understand and appreciate the structure, function, diversity, and interactions of living organisms. Degrees within the Biology program are designed to structure students' curricula to prepare them for careers or graduate studies in medicine, health sciences, education, and research.

Bachelor of Science in Biology: Biomedical Science

The Bachelor of Science in Biology: Biomedical Science track is an excellent preparation for admission to graduate studies in Biology or a large number of health care areas such as Chiropractic Medicine, Naturopathic Medicine, Public Health, Dentistry, Optometry, and many other health care specialties.

Degree Requirements

The Grand Experience	39 credits
Biology: Biomedical Science Major	68 credits
Free Electives	13 credits
Total Bachelor of Science in Biology: Biomedical Science	120 credits

(Note: Biology majors should substitute the courses listed below to satisfy the Scientific Inquiry and Philosophy requirements of the Grand Experience.)

General Education 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
HLT 322 †	Medical Ethics	3 credits

Biology: Biomedical Science Courses:

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
BIO 205	Microbiology	3 credits

BIO 205L	Microbiology Lab	1 credit
BIO 368A	Pathophysiology I	2 credits
BIO 368B	Pathophysiology II	2 credits
BIO 317 Δ	Science Communication	3 credits
BIO 332	Cell Biology	3 credits
BIO 340	Genetics	3 credits
BIO 353	Calculus for the Biological Sciences	3 credits
BIO 363	Biostatistics	3 credits
BIO 352	Developmental Anatomy	4 credits
BIO 451	Pharmacology I	3 credits
BIO 461	Epidemiology	3 credits
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 331	Organic Chemistry I	3 credits
CHM 331L	Organic Chemistry I Lab	1 credit
CHM 332	Organic Chemistry II	3 credits
CHM 332L	Organic Chemistry II Lab	1 credit
CHM 360	Principles of Biochemistry	3 credits
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit
Total Biology: Biomedical Science Major		68 credits

Bachelor of Science in Biology: Pre-Medicine

The Bachelor of Science in Biology: Pre-Medicine program is designed for students preparing for medical or dental school. It includes courses required or recommended by graduate professional schools, preparation for the medical college admission test (MCAT), optometry admission test (OAT), or dental admission test (DAT), and specialized coursework focused on preparing students for success in their graduate studies. These students will have a Pre-Med faculty mentor to ensure that all medical school questions are answered and that proper progress is being made toward completion of the Pre-Med designated curriculum. The Pre-Med advisor will assist students in choosing medical schools and will advocate on behalf of students for a selection of medical schools

Degree Requirements

The Grand Experience	39 credits
Biology: Pre-Medicine Major	57 credits
Free Electives	24 credits
Total Bachelor of Science in Biology: Pre-Medicine	120 credits

*Campus/Off-site only | Δ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

(Note: Biology majors should substitute the courses listed below to satisfy the Scientific Inquiry and Philosophy requirements of the Grand Experience.)

General Education 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
HLT 322 †	Medical Ethics	3 credits

Pre-Medicine Core

HLT 110	Introduction to the Health Professions	2 credits
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
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit
BIO 317 ^Δ	Science Communication	3 credits
BIO 304	Applied Nutrition	3 credits
HLT 315	Interview/ Admission Needs/ Professionalism	1 credit
BIO 363	Biostatistics	3 credits
BIO 360	Basic Physiology	3 credits
BIO 360L	Basic Physiology Lab	1 credit
BIO 373	Human Gross Anatomy and Dissection	4 credits
CHM 331	Organic Chemistry I	3 credits
CHM 331L	Organic Chemistry I Lab	1 credit
CHM 332	Organic Chemistry II	3 credits
CHM 332L	Organic Chemistry II Lab	1 credit
BIO 340	Genetics	3 credits
BIO 451	Pharmacology I	3 credits
BIO 368A	Pathophysiology I	2 credits
BIO 368B	Pathophysiology II	2 credits
BIO 461	Epidemiology	3 credits
Total Biology: Pre-Medicine Major		57 credits

Bachelor of Science in Biology: Pre-Pharmacy

The Bachelor of Science in Biology: Pre-Pharmacy tract is designed for students preparing for pharmacy school. It includes courses required or recommended by graduate professional schools, preparation for the pharmacy college admission test (PCAT), and specialized coursework focused on preparing students for success in their graduate studies. These students will have a Pre-Pharm faculty mentor to ensure that all pharmacy school questions are answered and that proper progress is being made toward completion of the designated curriculum. The Pre-Pharm advisor will assist students in choosing pharmacy schools and will advocate on behalf of students for a selection of pharmacy schools.

Degree Requirements

The Grand Experience	39 credits
Pre-Pharmacy Core	74 credits
Free Electives	7 credits
Total Bachelor of Science in Biology: Pre-Pharmacy	120 credits

(Note: Biology majors should substitute the courses listed below to satisfy the Scientific Inquiry and Philosophy requirements of the Grand Experience.)

General Education 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
HLT 322 *†	Medical Ethics	3 credits

Pre-Pharmacy Core

HLT 110	Introduction to the Health Professions	2 credits
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
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit
BIO 317 ^Δ	Science Communication	3 credits
BIO 304	Applied Nutrition	3 credits
HLT 315	Interview/ Admission needs/ professionalism	1 credit
BIO 363	Biostatistics	3 credits
BIO 360	Basic Physiology	3 credits
BIO 360L	Basic Physiology Lab	1 credit

*Campus/Off-site only | ^Δ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

BIO 352	Developmental Anatomy	4 credits
CHM 331	Organic Chemistry I	3 credits
CHM 331L	Organic Chemistry I Lab	1 credit
CHM 332	Organic Chemistry II	3 credits
CHM 332L	Organic Chemistry II Lab	1 credit
BIO 340	Genetics	3 credits
BIO 451	Pharmacology I	3 credits
BIO 452	Pharmacology II	3 credits
BIO 368A	Pathophysiology I	2 credits
BIO 368B	Pathophysiology II	2 credits
BIO 461	Epidemiology	3 credits
BIO 205	Microbiology	3 credits
BIO 205L	Microbiology Lab	1 credit
BIO 353	Calculus for the Biological Sciences	3 credits
CHM 461	Biochemistry I	3 credits
CHM 462	Biochemistry II	3 credits
CHM 463L	Biochemistry Lab	1 credit
Total Pre-Pharmacy Core		74 credits

Bachelor of Science in Biology: Pre-Physician Assistant

The Bachelor of Science in Biology: Pre-Physician Assistant program is designed for students preparing for graduate level physician assistant education. It includes courses required or recommended by graduate professional schools, preparation for the GRE and/or medical college admission tests, and specialized coursework focused on preparing students for success in their graduate studies. Students will have a Pre-PA faculty mentor to ensure that all physician assistant graduate program questions are answered and that proper progress is being made toward completion of the designated curriculum. The Pre-PA advisor will also assist students in choosing a physician assistant graduate program and will advocate on behalf of students for a selection of physician assistant graduate programs.

Degree Requirements

The Grand Experience	39 credits
Pre-Physician Assistant Core	67 credits
Free Electives	14 credits
Total Bachelor of Science in Biology: Pre-Physician Assistant	120 credits

(Note: Biology majors should substitute the courses listed below to satisfy the Scientific Inquiry and Philosophy requirements of the Grand Experience.)

General Education 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
HLT 322*	Medical Ethics	3 credits

Biology: Pre-Physician Assistant Courses:

HLT 110	Introduction to the Health Professions	2 credits
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
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit
BIO 317^A	Science Communication	3 credits
BIO 304	Applied Nutrition	3 credits
HLT 315	Interview/ Admission needs/ professionalism	1 credit
BIO 363	Biostatistics	3 credits
BIO 205	Microbiology	3 credits
BIO 205L	Microbiology Lab	1 credit
CHM 331	Organic Chemistry I	3 credits
CHM 331L	Organic Chemistry I Lab	1 credit
CHM 332	Organic Chemistry II	3 credits
CHM 332L	Organic Chemistry II Lab	1 credit
BIO 340	Genetics	3 credits
BIO 451	Pharmacology I	3 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
BIO 368A	Pathophysiology I	2 credits
BIO 368B	Pathophysiology II	2 credits
BIO 461	Epidemiology	3 credits
CHM 360	Principles of Biochemistry	3 credits
HLT 316	Spanish for Health Care Professionals	3 credits

Total Pre-Physician Assistant Core	67 credits
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*Campus/Off-site only | ^AWriting-intensive course | ♦Fulfills Grand Experience requirement | *Fulfills Grand Experience Christian Studies requirement

Bachelor of Science in Biology: Pre-Physical Therapy

The Bachelor of Science in Biology: Pre-Physical Therapy tract is designed for students preparing for graduate level physical therapy education. It includes courses required or recommended by graduate professional schools, preparation for the GRE, and specialized coursework focused on preparing students for success in their graduate studies. These students will also have a Pre-PT faculty mentor to ensure that all physical therapy graduate program questions are answered and that proper progress is being made toward completion of the Pre-PT designated curriculum. The Pre-PT advisor will also assist students in choosing a physical therapy graduate program and advocating on behalf of students for a selection of physical therapy graduate programs.

Degree Requirements

The Grand Experience	39 credits
Pre-Physical Therapy Core	61 credits
Free Electives	20 credits

Total Bachelor of Science in Biology: Pre-Physical Therapy	120 credits
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(Note: Biology majors should substitute the courses listed below to satisfy the Scientific Inquiry and Philosophy requirements of the Grand Experience.)

General Education Requirements♦

BIO 201	Human Anatomy and Physiology I	3 credits
BIO 201L	Human Anatomy and Physiology Lab	1 credit
BIO 202	Human Anatomy and Physiology II	3 credits
BIO 202L	Human Anatomy and Physiology II Lab	1 credit
HLT 310	Spirituality in Health Care	3 credits
HLT 322 †	Medical Ethics	3 credits

Pre-Physical Therapy Core

HLT 110	Introduction to the Health Professions	2 credits
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
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit
BIO 317 ^A	Science Communication	3 credits
BIO 340	Genetics	3 credits
HLT 315	Interview/ Admission needs/ professionalism	1 credit
BIO 363	Biostatistics	3 credits

EXS 335 ^A	Kinesiology	3 credits
EXS 335L	Kinesiology Lab	1 credits
EXS 340	Physiology of Exercise	3 credits
EXS 340L	Physiology of Exercise Lab	1 credit
BIO 372	Biomechanics	3 credits
BIO 462	Neuroscience for Rehabilitative Therapies	3 credits
BIO 497A	Internship-A in Biology	1 credit
BIO 497B	Internship-B in Biology	2 credits
EXS 314 ♦	Care and Prevention of Athletic Injuries	3 credits
EXS 314L ♦	Care and Prevention of Athletic Injuries Lab	1 credit
EXS 365	General Medicine	3 credits
EXS 426	Theory of Prescribing Exercise	3 credits
EXS 426L	Theory of Prescribing Exercise Lab	1 credit
HLT 201	Medical Terminology	2 credits
HLT 270	First Aid and Safety	3 credits

Total Pre-Physical Therapy Core	61 credits
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Physical Therapy Assistant to Bachelor of Science in Biology: Pre-Physical Therapy (PTA to Pre-PT)

The Physical Therapy Assistant to Bachelor of Science in Biology: Pre-Physical Therapy (PTA to Pre-PT) program is a degree completion program that allows Physical Therapy Assistants to learn skills that are relevant to their current vocation while they earn a Bachelor's degree. It also provides the prerequisite requirements necessary for students to pursue admission into graduate level Physical Therapy programs.

Additional Admission Requirements

In addition to the general [Standards for Undergraduate Admission](#), all Pre-Physical Therapy program applicants must meet the following requirements:

- Possess a Physical Therapy Assistant Associate degree from an accredited, GCU-approved college or university
- Possess a non-encumbered license as a Physical Therapy Assistant.
- Submit official transcripts bearing evidence of a cumulative GPA of 2.80. No transferable credits may have a grade below a "C" (2.00).

Degree Requirements

Maximum Transferable Credits	84 credits
PTA to Pre-Physical Therapy Core	36 credits
19 specifically identified Core credits of the 55 listed below can be transferred into the program.	
Total Bachelor of Science in Biology: Pre-Physical Therapy	120 credits

*Campus/Off-site only | ^A Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

PTA to Pre-Physical Therapy Core

Transferable Courses

MAT 121	College Algebra	3 credits
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
PHY 111	General Physics I	3 credits
PHY 111L	General Physics I Lab	1 credit
PHY 112	General Physics II	3 credits
PHY 112L	General Physics II Lab	1 credit

Non-transferable Courses

BIO 317 ^A	Science Communication	3 credits
BIO 340	Genetics	3 credits
BIO 363	Biostatistics	3 credits
BIO 372	Biomechanics	3 credits
BIO 462	Neuroscience for Rehabilitative Therapies	3 credits
EXS 314	Care and Prevention of Athletic Injuries	3 credits
EXS 340	Physiology of Exercise	3 credits
EXS 365	General Medicine	3 credits
EXS 426	Theory of Prescribing Exercise	3 credits
HLT 310	Spirituality in Health Care	3 credits
HLT 322 [†]	Medical Ethics	3 credits
ABC 3XX	Upper Division Elective	3 credits

Total PTA to Pre-Physical Therapy Core 55 credits

Bachelor of Science in Health Sciences: Professional Development and Advanced Patient Care

The Bachelor of Science Degree in Health Sciences: Professional Development and Advanced Patient Care Program is a degree completion program designed for health-care professionals who have received licensure, certification, or registration in an allied-health field and wish to acquire baccalaureate-level competencies in health-sciences theory and professional health care issues.

Additional Admission Requirements

In addition to the general [Standards for Undergraduate Admission](#), all Health Sciences program applicants must meet the full set of admission requirements from one of the following categories:

1. Degree-bearing Candidates
 - a. Possess an Associate degree in an allied health field from an accredited, GCU-approved college, university, or program that leads to licensure, certification, or registration in an allied health field.

- b. Submit official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).
2. Non-degree-bearing Candidates
 - a. Submit official transcripts, documenting proof of coursework in an allied health program that leads to licensure, certification, or registration in an allied health field that led to license, certification, or registration in an allied health field.
 - b. Provide proof of license, certification, or registration in an allied health field.
 - c. Submit official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).
 - d. Be prepared to transfer or complete the following general education competencies that are not integrated into the program core with a minimum grade of "C" (2.00)
 - 6 credits of English Composition
 - 5 credits of Scientific Inquiry
 - 4 credits of Humanities

Degree Requirements

Transfer and Elective Credits	84 credits
Health Sciences: Professional Development and Advanced Patient Care Core	36 credits
Total Bachelor of Science in Health Sciences: Professional Development and Advanced Patient Care	120 credits

Health Sciences: Professional Development and Advanced Patient Care Core

HLT 306	Advanced Patient Care	3 credits
HLT 308	Risk Management and Health Care Regulations	3 credits
BIO 316 [♦]	Pharmacology for Health Care Professionals	3 credits
HLT 362 [♦]	Applied Statistics for Health Care Professionals	3 credits
HLT 324 [♦]	Transcultural Health Care	3 credits
HLT 310V ^{†*}	Spirituality in Health Care	3 credits
HLT 418 [♦]	Trends and Issues in Health Care	3 credits
HLT 314	Health Care Systems	3 credits
HLT 312 ^{†*}	Ethics for Health Care Professionals	3 credits
BIO 317V ^{♦A}	Science Communication and Research	3 credits
AMP 450V	Leadership and Vocation	3 credits
HLT 490	Professional Capstone Project	3 credits

Total Professional Development and Advanced Patient Care Core 36 credits

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [†] Fulfills Grand Experience Christian Studies requirement

Bachelor of Science in Respiratory Care

The Bachelor of Science in Respiratory Care offers an opportunity for Respiratory Therapists to advance their education by acquiring a Bachelors degree and skills that are relevant to their current vocation. This program offers the therapist an opportunity for advancement in employment and enables the motivated professional to serve the community at a higher level of healthcare.

Admission Requirements

In addition to the general Standards for Undergraduate Admission, all Respiratory Care program applicants must meet the full set of admission requirements from one of the following categories:

1. Degree-bearing Candidates
 - a. Possess an Associate degree in an allied health field from an accredited, GCU-approved college, university, or program and be (or have previously been) licensed, certified, or registered in an allied health field.
 - b. Submit official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).
 - c. Provide proof of NBRC credentials as a Registered Respiratory Therapist (RRT).
2. Non-degree-bearing Candidates
 - a. Provide proof of NBRC credentials as a Registered Respiratory Therapist (RRT).
 - b. Submit official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).
 - c. Be prepared to transfer or complete the following general education competencies that are not integrated into the program core with a minimum grade of "C" (2.00)
 - 6 credits English Composition
 - 2 credits Scientific Inquiry
 - 4 credits Humanities

Degree Requirements

Maximum Allowable Transfer Credits	75 credits
Respiratory Care Major	45 credits
Bachelor of Science in Respiratory Care	120 credits

Respiratory Care Major

HLT 306	Advanced Patient Care	3 credits
HLT 308	Risk Management and Health Care Regulations	3 credits
BIO 316 ♦	Pharmacology for Health Care Professionals	3 credits
HLT 362 ♦	Applied Statistics for Health Care Professionals	3 credits
HLT 324 ♦	Transcultural Health Care	3 credits

HLT 310V †	Spirituality in Health Care	3 credits
HLT 418 ♦	Trends and Issues in Health Care	3 credits
HLT 314	Health Care Systems	3 credits
HLT 312 ♦‡	Ethics for Health Care Professionals	3 credits
HLT 340	Quality Improvement in Respiratory Health Care	3 credits
HLT 410	Respiratory Care of the Critically Ill	3 credits
HLT 335 ♦	Polysomnography/Sleep Disorders	3 credits
BIO 317V ♦	Science Communication	3 credits
AMP 450V	Leadership and Vocation (Leadership Principles)	3 credits
HLT 490	Professional Capstone Project	3 credits
Total Bachelor of Science in Respiratory Care		45 credits

Medical Imaging Sciences

The Medical Imaging Sciences programs are designed to provide students the optimum preparation for a variety of positions within the discipline. Practicing radiological technicians advance to a baccalaureate degree, while expanding the global awareness and skills of their profession. Practicing technicians also have the option of learning a variety of advanced imaging skills to expand their scope of practice through the various certificates of completion that are available.

Bachelor of Science in Medical Imaging Sciences

The Bachelor of Science in Medical Imaging Sciences offers an opportunity for Imaging Technologists to advance their education by acquiring a Bachelors degree and skills that are relevant to their current vocation. This program offers the Technologist an opportunity for advancement in employment and enables the motivated professional to serve the community at a higher level of healthcare.

Admission Requirements

In addition to the general [Standards for Undergraduate Admission](#), all Medical Imaging Sciences degree program applicants must meet the full set of admission requirements from one of the following categories:

1. Degree-bearing Candidates
 - a. Possess an Associate degree in an allied health field from an accredited, GCU-approved college, university, or program and be (or have previously been) licensed, certified, or registered in an allied health field.
 - b. Submit official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).

*Campus/Off-site only | † Writing-intensive course | ♦ Fulfills Grand Experience requirement | ‡ Fulfills Grand Experience Christian Studies requirement

- c. Provide proof of current certification in good standing in Radiography, Radiologic Therapy, Nuclear Medicine, or Sonography by one of the following licensing bodies:
American Registry of Radiologic Technologists (ARRT);
Nuclear Medicine Technology Certification Board (NMTCB); and/or
American Registry For Diagnostic Medical Sonography (ARDMS).
2. Non-degree-bearing Candidates
 - a. Submit proof of completion of a certified program or a Joint Review Committee on Education in Radiologic Technology (JRCERT) -accredited program.
 - b. Provide proof of current certification in good standing in Radiography, Radiologic Therapy, Nuclear Medicine, or Sonography by one of the following licensing bodies:
American Registry of Radiologic Technologists (ARRT);
Nuclear Medicine Technology Certification Board (NMTCB); and/or
American Registry For Diagnostic Medical Sonography (ARDMS).
 - c. Tender official transcripts bearing evidence of a cumulative GPA of 2.50. No transferable credits may have a grade below a "C" (2.00).
 - d. Be prepared to transfer or complete the following general education competencies that are not integrated into the program core with a minimum grade of "C" (2.00)
6 credits of English Composition
5 credits of Scientific Inquiry
4 credits of Humanities

Degree Requirements

Maximum Allowable Transfer Credits	75 credits
Medical Imaging Sciences Major	45 credits
Bachelor of Science in Medical Imaging Sciences	120 credits

Medical Imaging Major

HLT 306	Advanced Patient Care	3 credits
HLT 308	Risk Management and Health Care Regulations	3 credits
BIO 316 ♦	Pharmacology for Health Care Professionals	3 credits
HLT 362 ♦	Applied Statistics for Health Care Professionals	3 credits
HLT 324 ♦	Transcultural Health Care	3 credits
HLT 310V ‡	Spirituality in Health Care	3 credits

HLT 418 ♦	Trends and Issues in Health Care	3 credits
HLT 314	Health Care Systems	3 credits
HLT 312 ♦‡	Ethics for Health Care Professionals	3 credits
MDI 424	Quality Management in Medical Imaging	3 credits
MDI 410	Critical Patient Care in Medical Imaging	3 credits
MDI 304	Medical Imaging in the Digital Environment	3 credits
BIO 317V ♦‡	Science Communication	3 credits
AMP 450V	Leadership and Vocation	3 credits
HLT 490	Professional Capstone Project	3 credits
Total Bachelor of Science in Medical Imaging Sciences		45 credits

Non-Degree Certificates of Completion in Medical Imaging Sciences

Certificates of Completion are available in several advanced-skill content areas and are designed to provide licensed radiologic technologists with the didactic coursework necessary to prepare for the national examinations in each content area.

Certificate of Completion in Computed Tomography

The certificate of completion in Computed Tomography is designed to provide licensed radiologic technologists, nuclear medicine technologists, and licensed radiation therapists with a cognitive base of entry-level education in the practice of computed tomography (CT). The professional practice of computed tomography requires specific knowledge and skills generally not obtained in basic educational programs in radiography. This core curriculum presents elements that are considered essential in educating technologists in the postprimary practice of computed tomography and aid in meeting the eligibility requirements for a postprimary certification examination in computed tomography.

Admission Requirements:

The student must be registered in Radiography or Radiation Therapy by the American Registry of Radiologic Technologists (ARRT), or Nuclear Medicine Technology by ARRT or the Nuclear Medicine Technology Certification Board (NMTCB).

Certificate Requirements

BIO 311	Sectional Anatomy	3 credits
MDI 308	Physics and Instrumentation of Computed Tomography	3 credits
MDI 420	Pathology in CT/MRI	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | ‡ Fulfills Grand Experience Christian Studies requirement

MDI 414	Computed Tomography Procedure Protocols	3 credits
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Total Certificate of Completion in Computed Tomography	12 credits
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Certificate of Completion in Magnetic Resonance Imaging

The certificate of completion in Magnetic Resonance Imaging is designed to provide licensed radiologic technologists, nuclear medicine technologists, ultrasound technologists or licensed radiation therapists with a cognitive base of entry-level education in the practice of magnetic resonance (MR) technology. The professional practice of computed tomography requires specific knowledge and skills generally not obtained in basic educational programs in radiography. This core curriculum presents elements that are considered essential in educating technologists in the postprimary practice of magnetic resonance imaging and aid in meeting the eligibility requirements for a postprimary certification examination in magnetic resonance imaging.

Admission Requirements

The student must be registered in Radiography or Radiation Therapy by the American Registry of Radiologic Technologists (ARRT), Nuclear Medicine Technology by ARRT or the Nuclear Medicine Technology Certification Board (NMTCB), or Sonography by ARRT or any Sonography related modality by the American Registry For Diagnostic Medical Sonography (ARDMS).

Certificate Requirements

BIO 311	Sectional Anatomy	3 credits
MDI 306	Physics and Instrumentation of Magnetic Resonance	3 credits
MDI 420	Pathology in CT/MRI	3 credits
MDI 412	Magnetic Resonance Procedure Protocols	3 credits

Total Certificate of Completion in Magnetic Resonance Imaging	12 credits
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Certificate of Completion in Mammography

The certificate of completion in Mammography is designed to provide registered radiologic technologists with a cognitive base of entry-level education in the practice of mammography. The professional practice of mammography requires specific knowledge and skills generally not obtained in basic educational programs in radiography. This core curriculum presents elements that are considered essential in educating technologists in the postprimary practice of mammography and aid in meeting the eligibility requirements for a postprimary certification examination in mammography.

Admission Requirements

The student must be registered in Radiography by the American Registry of Radiologic Technologists (ARRT).

Certificate Requirements

MDI 312	Breast Anatomy, Physiology, and Pathology	3 credits
MDI 314	Mammography Facility and Equipment Management	3 credits
MDI 316	Mammography Procedures Protocols	3 credits
MDI 318	Quality Management in Mammography	3 credits

Total Certificate of Completion in Mammography	12 credits
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Athletic Training and Physical Education

The major and minor degrees described offer a blend of classroom instruction and clinical experience designed for the optimum preparation of students for careers in this field. These courses of study will prepare students for eligibility to meet the requirements of the Board of Certification, national certifications in the commercial health and fitness industry, State Board of Education Certification or Endorsement in physical education, health education, or athletic coaching.

Athletic training, as defined by the National Athletic Trainer's Association, is practiced by Athletic Trainers, healthcare professionals who collaborate with physicians to optimize activity and participation of patients and clients. Athletic training encompasses the prevention, diagnosis and intervention of emergency, acute and chronic medical conditions involving impairment, functional limitations and disabilities. The Athletic Training major prepares the student for the Board of Certification Examination. A certified Athletic Trainer (ATC) is qualified to work in a variety of settings including high schools, colleges and universities, professional sports, clinics, and other areas as an integral part of the health care team. The student will receive education in prevention, care, immediate treatment, rehabilitation, and management of athletic related injuries and illnesses. The education includes clinical rotations on and off campus that require at least 600 hours of clinical experience that must be completed before graduation. Students must provide transportation to off site clinical rotations. Students are also required to complete a physical exam and sign a technical standards agreement prior to full acceptance to ensure ability to complete tasks associated with the position. The selection of student athletic trainers is competitive. A completed admission application should be submitted by April 1, after completing at least 30 observation credits and athletic training student prerequisite requirements. Students will be accepted to the program by June 1 for priority admission. Please visit our website for application materials..

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

The Physical Education Major offers a blend of classroom instruction and clinical experience designed for the optimum preparation of students for eligibility to meet the physical education content area requirements for Arizona State Board of Education Certification and K-12 physical Education Endorsement. The Physical Education Major meets NCATE National Standards for physical education. This major is well suited for those students who wish to complete a bachelor's degree first, and then complete the education requirements for Department of Education certification at a later date.

- The Health Education emphasis will assist in providing additional competency in personal and group health instruction to prepare students as health educators. The national health issues for children, especially obesity, must be addressed. There is no other system as capable of meeting this need as the field of physical education in the public schools.
- The Athletic Coaching Emphasis offers skills to assist the future teacher or other professional who wishes to coach interscholastic, intercollegiate, or other sports teams in all aspects of preparation for competition. Successful completion of coursework will meet level three guidelines from NASPE or State Board of Education requirements for coaching certification (see Appendix C) and the content is complementary to the major content for career choices that Physical Education Major students make and enhances the typical physical education students marketability with school districts.

Additional Admissions/ Program Requirements Athletic Training Degree

In addition to the general Undergraduate Admission Requirements listed in the Admission Policies and Application Procedures section, the following admission requirements must be met:

1. All interested students may apply to the Athletic Training Education program during the semester in which all prerequisite course work will be completed.
2. Application deadline for priority acceptance is April 1. Students are accepted by June 1 for a fall semester start.
3. A maximum of two different prerequisite courses may be repeated only once to earn a grade of C or above.
4. Acceptance into the ATEP is determined by Athletic Training application criteria listed below and availability of clinical spaces.
 - Application Form
 - ATC Letter of Recommendation Form
 - Instructor Letter of Recommendation Form
 - Observation Time Sheet
 - Observation Summary Form
 - Letter of Interest Form
 - Taping Evaluation
 - Emergency Evaluation

- College Transcripts with pre-requisite course work included
5. Upon admission to the Athletic training education program, students must provide health information to the Program Director, including but not limited to:
 - Complete Athletic Training Student Orientation (annual Orientation)
 - Complete OSHA training during Athletic Training Student Orientation
 - Sign a technical standards agreement
 - Complete a Health History and Physical examination at the Student Health Center at the cost of the student. This examination will include immunization review and technical standards review.
 - Purchase Athletic Training Student Liability Insurance (to renew annually)
 - Purchase an Athletic Training Student name badge from the bookstore
 - Provide Proof of immunization or immunity for Measles, Mumps, Rubella. Influenza vaccinations are recommended.
 - Provide proof of Hepatitis B Vaccination or sign a waiver form declining vaccination.
 - Provide a copy of CPR certification for professional rescuer current through the duration of the two year program (see CPR requirements)
 - Provide a copy of current First Aid Certification
 - Provide a completed Background check and Fingerprint Clearance card through Arizona Department of Public Safety at the cost of the student
 6. Students must complete the following annually
 - Attend Student Orientation
 - Attend OSHA training
 - Renew Student Liability Insurance (at the cost of the student)
 7. Upon admission to the Athletic training education program, students must provide health information to the Program Director, including but not limited to:
 - Complete Athletic Training Student Orientation (annual Orientation)
 - Complete OSHA training during Athletic Training Student Orientation
 - Sign a technical standards agreement
 - Complete a Health History and Physical examination at the Student Health Center at the cost of the student. This examination will include immunization review and technical standards review.
 - Purchase Athletic Training Student Liability Insurance (to renew annually)
 - Purchase an Athletic Training Student name badge from the bookstore

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Provide Proof of immunization or immunity for Measles, Mumps, Rubella. Influenza vaccinations are recommended.
 - Provide proof of Hepatitis B Vaccination or sign a waiver form declining vaccination.
 - Provide a copy of CPR certification for professional rescuer current through the duration of the two year program (see CPR requirements)
 - Provide a copy of current First Aid Certification
 - Provide a completed Background check and Fingerprint Clearance card through Arizona Department of Public Safety at the cost of the student
8. Students must complete the following annually
- Attend Student Orientation
 - Attend OSHA training
 - Renew Student Liability Insurance (at the cost of the student)

Transfer Students and Student Athletes

Transfer Students and Student Athletes will follow the same admission, retention and progression policies as traditional students.

Retention and Progression

Students who have been accepted into the athletic training program may- remain as athletic training students if they adhere to the following criteria:

1. Maintain continuous registration for athletic training courses in the major. Continuous registration is for Fall/Spring semesters only.
2. Maintain continuous accumulation of clinical contact hours during fall and spring semesters (150 clinical contact hours per clinical course)
3. Satisfactory completion of athletic training competencies and clinical proficiencies
4. Successfully complete all Athletic Training Major courses with C or better
5. Maintain Professional Rescuer CPR & 1st Aid certifications
6. Maintain Athletic Training Student Liability Insurance
7. Complete Athletic Training Student Orientation annually
8. Maintain health and safety standards of ATEP
9. Meet the standards of Grand Canyon University as outlined in the Grand Canyon University Academic Policy Handbook.

Class Scheduling

Upon admission, students are assigned to a cohort group. This cohort follows a set sequence of courses that begin in the fall semester and continues for two consecutive academic years (fall and spring semesters only)

Unsuccessful Course Completion

Failure of a course occurs when the student receives below a “C” in the final grade calculation of the course. Failure removes the student from the athletic training major and the student must reapply to the athletic training program to be considered for progression.

Re-Entry to Athletic Training Major Courses

Students who have failed courses in the athletic training major must submit an official academic appeal to be considered for re-entry into the program.

1. A student receiving a grade of incomplete “I” in any athletic training major course must assure that the incomplete is resolved and a grade is submitted prior to the start of the next academic semester. Failure to do so will result in administrative withdrawal from the program and current cohort sequence.
2. Student must apply for re-entry to the athletic training major under the following conditions
 - Interrupted Enrollment- Student has been out of the athletic training major (for at least one course). Students must follow a cohort sequence.
 - Course failure- Student receives a failure (below a grade of “C”) in athletic training course. Students may not continue in ATEP course sequence until failed course has been repeated and passed with a “C” or better. Courses are currently offered one time during the academic year)
 - Unresolved incomplete- Student receives an incomplete “I” as a grade in an athletic training course that is unresolved by the first day of classes in the following semester.
 - Administrative Withdrawal- Student has been administratively withdrawn from the athletic training major course.
3. The student must complete an “Application to Re-enter the Athletic training Major” form and submit it to the Program Director. The student must meet the designated application deadline.
4. Re-entry to the major is not assured simply because the student was previously enrolled in athletic training courses or was previously accepted. The decision will be based on the evidence showing that the student is ready to continue, has potential to complete the program, and is in compliance with University regulations and standards of behavior. All decisions to readmit are also contingent upon clinical space availability. The student must meet all admission requirements to be considered for re-entry into the program
5. Only ONE failed athletic training course may be repeated once based on acceptance of the student by the reapplication process to the major. Subsequent course failures constitute administrative withdrawal from the athletic training education program.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Probation

Clinical probation means that the student is not meeting the stated clinical objectives. A student may be removed from the clinical area for any unsafe or unprofessional behaviors. Being placed on clinical probation can affect the clinical grade and may result in being withdrawn from the course which may affect placement in the program.

Examples of clinical probationary actions:

- unsafe practice in clinical area
- insufficient preparation for the clinical experience
- failure to follow faculty/staff guidance
- failure to notify ACI of tardiness or absence
- causing patient to experience unnecessary suffering
- inappropriate performance specific to level expectations
- unprofessional communication to faculty, staff, coaches, or patients
- consciously falsifying documents, including patient and personal

Probation Process:

A probationary action sheet is initiated by the Program Director, Clinical Coordinator or Faculty Member.

A copy of the probation plan is verbalized with the student, signed by the student and the involved parties and placed in the student's file.

At the end of the semester the student makes an appointment with the program director to determine probationary status.

If a student disputes probationary status, he/she should follow academic grievance procedures outlined in GCU student handbook.

Mandatory Advisement

Faculty members may request mandatory advisement sessions when students are in clinical or academic jeopardy, and/or when student behavior appears below professional standards. Satisfactory academics and/or behavioral changes must be accomplished by the end of the course in order to progress in the athletic training program. It is important to maintain continuous progress and a sound knowledge base to be successful throughout the program.

Clinical Participation Policies

Students must enroll in four (4) Clinical Instruction Classes over the course of 4 semesters, two academic years minimum. During these classes students will be placed in a clinical rotation and assigned to an approved clinical instructor (ACI). A qualified ACI will use evaluation sheets to evaluate students on clinical proficiencies. The ACI will be informed of the level of athletic training student, and the student will wear an ATS name badge. ATEP Clinical Coordinator will place students based on rotation schedule. Student preference will be considered.

1. Participation in clinical experience is essential to meet the objectives for all clinical athletic training major courses. Students are responsible for all materials covered while student is absent.
2. Clinical absences may result in clinical probation. Students who are too ill to perform safely in clinical should seek medical attention and contact athletic training faculty prior to missing clinical lab.
3. Any student who has experienced an Emergency Department visit or hospitalization or an acute illness, trauma, surgery or pregnancy/delivery will need a health care provider's release to return to clinical. Such a release should provide information that attests to the fact that the student is physically and emotionally able to provide direct patient care..
4. Students who must miss clinical due to pregnancy or extended illness may not be able to complete clinical objectives. Students must contact the course instructor to discuss options. The College of Athletic Training is not obligated to provide makeup clinical opportunities for students unable to complete clinical during the normal academic calendar. Any make-up clinical opportunity will be at the student's expense and subject to faculty availability, clinical site availability, and approval of the Program Director.

Qualifications for Student Placement in Rotation Sites

- Admitted into Professional Phase of Athletic Training Major
- Attend Athletic Training Student Orientation
- Verification of OSHA education
- Verification of Current Professional Rescuer CPR & 1st aid certification through academic year
- Verification of Immunization
- Verification of Student Liability Insurance
- Verification of Clinical Site policies and procedures review
- Verification of Fingerprint Clearance Card

Clinical Time Requirements

- Clinical courses must be completed over a minimum of two academic years
- Students will not be required to complete more than 20 hours per week time in a clinical setting. This policy is consistent with federal work-study policy on campus.
- Student will also follow NCAA rules for athletes in regards to comparable relief from clinical experiences during the academic year which is at least one day off per week during in season and two days off per week during out of season.
- Participation in clinical experience is essential to meet the objectives for all athletic training courses.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Excessive clinical absences may result in clinical probation (see probation). Students who are too ill to perform safely in clinical should seek medical attention and contact ACI prior to missing rotation. A written release from your physician or campus nurse may be requested prior to re-entry to the clinical (see Communicable Disease policy).
- Students are required to provide transportation to and from clinical rotation sites. Travel time may not be logged for clinical contact.

Student Work Policy

Athletic Training Students (ATS) are not certified athletic trainers and will not be used in the place of a certified athletic trainer. After demonstrating proficiency, athletic training students may be permitted to undertake those specific defined activities with appropriate supervision, direction, and job description. All athletic training students whether granted aid, scholarship, work study or not, will work under the direction of the certified athletic trainer at GCU and affiliated settings. The students will follow guidelines set up by the clinical site where they are working and the following:

- Completely document all injuries, modalities used, treatment plans, rehabilitation plans, doctors referrals
- Sign all documents and have all documents signed by the certified athletic trainer
- Continually ask questions and maintain open communication about an injury or treatment in a clinical setting
- Students may be employed outside regular educational hours (students may not count paid work hours towards graduation requirements), provided the work does not interfere with regular academic responsibilities.
- Students must be formally instructed and formally assessed on athletic training clinical skills as part of a course prior to performing those skills on a patient.

Student Clinical Supervision

Students assigned to a clinical rotation will be under the direct supervision of the Approved Clinical Instructor. The Approved Clinical Instructor will be on site and readily available for on-going instruction, guidance and intervention. The clinical experience will involve daily personal contact between the clinical instructor and the student in the same clinical setting. The student-clinical instructor ratio should not exceed 8:1 and based upon consideration of the total work load of the clinical instructor, availability and adequacy of clinical facilities and the number and nature of athletic programs being offered.

Student Travel

Only supervised clinical experiences may be required of students as a part of their educational program. Supervised educational experiences entail that students are under the direct auditory and visual supervision of a BOC certified athletic trainer (ATEP ACI/CI) at all times. The Commission on Accreditation of Athletic Training Education (CAATE) does not support unsupervised education. Unsupervised clinical experience is not/can not be a requirement of an accredited program; therefore, unsupervised activities, of any kind, are not sanctioned, nor governed by CAATE. Therefore, GCU ATEP does not allow students to travel unsupervised as part of the Grand Canyon University Athletic Training Education Program.

Student Clinical Evaluations

- Prior to beginning any rotation, the ATS must complete a policies and procedures assessment of the assigned clinical site to review policies relating to blood borne pathogens, emergency plans, documentation, etc.
- Two ATS evaluations will be performed during the semester, one at mid-semester and one at the end of the semester.
- The assigned ACI(s) will complete the evaluation sheet regarding the student's performance. The assigned ACI(s) will review the completed evaluations with the student a maximum of one week following the completion of the evaluation.
- The student will complete an evaluation of the ACI and site at the end of the semester.

Dress Code

The Athletic Training Student will wear a GCU athletic training shirt or appropriate attire as designated by the assigned ACI. In addition, all students are required to wear GCU ATS name tag during clinical rotations.

Health and Safety Requirements

All athletic training students are expected to take measures to maintain their personal health as not to jeopardize himself or herself or any athlete in whom they come in contact. Students who are ill are to call the clinical site and talk to the clinical instructor to find someone to replace them. The student will then go to the Health Center to be evaluated. A student athlete that is ill will be referred to the Student Health Center for a determination to practice or not. The requirements for athletic training students upon admission are:

- Athletic Training Physical Examination in Student Health Center upon admission to program which includes a review of immunizations and technical standards
- OSHA training at Grand Canyon University
- HBV immunization is strongly recommended for athletic training students accepted into the professional phase of the program. Students may sign a waiver of vaccination to be admitted into the program.
- Health Insurance as required by the university

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Immunizations as required by the university
- Influenza immunization is strongly recommended

At any time, a student may be required to receive a medical examination if deemed necessary by faculty for the well being of the student or athletes.

CPR Requirements

Students must be certified in CPR for the Professional through the American Safety and Health Institute or BLS Healthcare Provider through the American Heart Association prior to applying to the Athletic Training Education Program (ATEP). CPR certification must be continuous through the two year program (August- May). CPR for Bystanders or the community will not fulfill this requirement. Students are required to maintain certification throughout the program. Students who do not have a current CPR certification card will not be permitted to participate in clinical experiences.

The requirements for our program are those required to take the Board of Certification Examination upon graduation which includes: 2 person CPR, Bag Valve Mask, and AED training.

AIDS	Meningitis (bacterial)
Botulism	Mumps
Infections	Pertussis (whooping cough)
Chancroid	Rubella
Chickenpox	Shigellosis
Chlamydia	Streptococcus pneumoniae
Trachomatis infection	Syphilis
Cholera	Hand, foot, and mouth syndrome
Conjunctivitis	Viral and acute hepatitis
Diphtheria	Herpes
Diarrhea - Infectious	HIV
Influenza	Lyme disease
Escherichia coli (E coli)	Tetanus
Gonorrhea	Tuberculosis
Group A Streptococcal	Yellow Fever
Hepatitis A, B, or C	Pinworms
Herpes Simplex	Ringworm
Impetigo	Scabies
Lice (Pediculosis)	Shingles (Herpes Zoster)
Measles	Strep pharyngitis

Student Liability Insurance

All Athletic Training Students are required to have personal athletic training student liability insurance for their own protection. The cost varies depending upon company. Companies include: National Professional Group www.usatrainers.com and HPSO www.hpsso.com/

OSHA Policy

Athletic Training Students in the clinical phase of the ATEP will undergo annual OSHA education at Grand Canyon University during ATS orientation at the start of each academic year. During this training students will be educated in pathogen and infection control. Once in a setting, students will have access to and utilize appropriate blood-borne pathogen barriers, access to and utilize proper sanitary precautions, and access to appropriate biohazard disposal equipment and procedures at each clinical site.

If a student is exposed to blood or bodily fluid that is an intact skin exposure should:

- Wash the area immediately and thoroughly with soap and water
- Within 24 hours, follow-up with the Cooke Health and Wellness Center or own Primary Care Provider who will make a determination of immunization status and give appropriate prophylaxis or referral for appropriate prophylaxis.
- Complete a student incident report (Available from the Program Director) to be filled out by the student and the supervising faculty or instructor who was present during incident. A copy of this report will be given to the Program Director and placed in the student's file.
- Counseling referral and other referrals can be arranged through the health center.

Sexual Harassment

Any form of harassment (physical or verbal) is prohibited and will not be tolerated by Grand Canyon University. Sexual harassment is a violation of federal law. "Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute sexual harassment when, among other things, such conduct has the purpose or effect of creating an intimidating, hostile, or offensive environment."

For procedures regarding harassment, please refer to the grievance procedures. The Harassment Intake Officer for student matters is the Vice President of Student Life. He or she can guide you through the process.

Health and Immunization Requirements

Athletic Training Students (ATS) are expected to take measures to maintain their personal health so as not to jeopardize themselves or any patient with which they come in contact. Therefore, students who are accepted into the Athletic Training Education Program must show evidence of the ATEP required immunizations and diagnostic procedures as required by the clinical agencies utilized. At anytime, a student may be required to receive a medical examination if deemed necessary by the faculty for the wellbeing of the student and/or the patients/clients.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Students are responsible for updating appropriate CPR prior to the start of each academic year (fall semester). Students will not be allowed to participate in clinical experiences without all requirements being current through the academic school year. Missing clinical may jeopardize a student being successful in the program. As Athletic Training students are in contact with clients in a variety of health situations, it is imperative that students maintain protection against communicable illnesses. In addition, students must meet agency health requirements to enter clinical course work.

The charts below indicate the specific health requirements for undergraduate admission and continuing enrollment.

Test	Requirements for Admission
MMR (rubeola measles, mumps, rubella)	Students must show one of the following: - Lab evidence (titer) of immunity - MMR (two doses) - Physician documented evidence of disease (not accepted for Rubella)
Varicella Zoster (VZV)	Strongly recommended
Hepatitis A	Hepatitis A vaccine is strongly recommended.
Hepatitis B	Hepatitis B vaccine is strongly recommended. A signed waiver available from the Program Director is required if the vaccination series is not complete or declined by the student.
Influenza	Strongly recommended - A signed waiver available from the CON is required if the vaccine is not complete or declined by the student.

HIPAA Guidelines

As health care providers, one of the covered entities, Athletic Trainers must be knowledgeable about the various aspects of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). CONHS offers this guidance below for those persons to ensure compliance with those requirements and asks that all students sign the HIPAA confidentiality Agreement.

Students are required to do the following:

- Sign the ATEP Faculty/Staff/Student Confidentiality Agreement before any involvement in a clinical agency.
- Attend ATEP training or in-classroom clinical instruction on requirements relating to patient privacy.
- Know and adhere to a clinical site's privacy and procedures before undertaking any activities at the site.
- Maintain at all times the confidentiality of any patient information, regardless of whether the identifiers listed in the "Do not" section of these guidelines have been removed.

- Promptly report any violation of those procedures, applicable law, or ATEP confidentiality agreement by , a ATEP student, faculty or staff member to the appropriate ATEP clinical instructor or faculty member.
- Understand that a violation of the clinical site's policies and procedures, of applicable law, or ATEP confidentiality agreement will subject the student to disciplinary action.

Students are not to do the following:

- Discuss, use or disclose any patient information while in the clinical setting unless it is part of the clinical setting assignment.
- Remove any record from the clinical site without the prior written authorization of that site.
- Disclose any information about a patient during the clinical assignment to anyone other than the healthcare staff of the clinical site.
- Use patient information in the context of a learning experience, classroom case presentation, class assignment, or research without attempting to exclude as much of the following information as possible:
 - Names
 - Geographical subdivisions smaller than a state
 - Dates of birth, admission, discharge, death
 - Telephone and fax numbers
 - E-mail addresses
 - Social security numbers
 - Medical records or account numbers
 - Certificate/license numbers
 - Vehicle or device numbers
 - Web locators/Internet protocols
 - Biometric identifiers
 - Full face identifiers
 - Any other unique identifying number, characteristic, or code

Professional Appearance

- Hair should be short or pulled back and styled neatly. Beards or mustaches, if worn, should be neatly trimmed.
- Fingernails should be neatly trimmed and free of cracked nail polish. Only clear or neutral nail polish may be used if desired.
- Permitted jewelry is: one pair of studded earrings, a watch, a plain ring band. No other visible jewelry is acceptable including tongue rings or other facial jewelry. Tattoos and any other body art should be covered where possible. (Students are directed to follow the clinical site guidelines).
- Perfume, after-shave lotion, and heavy makeup are not acceptable in the clinical area.
- Gum chewing is not acceptable.
- Clothing worn in course activities not requiring student uniform should adhere to professional standards.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Please remember that students also represent Grand Canyon University. Look clean, neat, and professional.

Professional Attire for Formal Presentations

Business casual is acceptable which can be interpreted as:

7. Women: slacks (dress pants), skirts (mid-calf to about two inches above the knee), blouses, shells, cardigans, blazers, dresses.
8. Men: dress pants, button down shirts, polo shirts (short sleeved shirts with a collar), blazers.

Do not wear: Denim material, anything that is see-through, short, tight, or shows too much skin, flip-flops, tennis shoes

Program Associated Costs

Application:

- Student Liability Insurance
- Update of CPR certification as necessary
- Purchase Student Name tag
- Hepatitis B vaccination (unless declined)
- Provide a Fingerprint clearance card from the Arizona Department of Public Safety

Annually:

- Update Student Liability Insurance
- Update of CPR certification as necessary
- Provide transportation to and from clinical sites

Graduation Requirements

Athletic Training Students must:

- Complete at least 600 supervised clinical hours after acceptance into Athletic Training Education Program
- Complete hours must over a minimum of two years
- Complete Clinical Instruction Courses consecutively and in no less than two academic years
- Complete all required clinical instruction course proficiency evaluations
- Successfully complete all required courses with a "C" or better,

Board of Certification Examination

(taken from Board of Certification Web site:
www.bocatc.org)

In order to attain certification, an individual must complete an entry-level athletic training education program accredited by the Commission on Accreditation of Athletic Training Education (CAATE) and pass the BOC certification exam.

In order to qualify as a candidate for the BOC certification exam, an individual must meet the following requirements:

- Endorsement of the exam application by the recognized Program Director (PD) of the CAATE accredited education program

- Proof of current certification in emergency cardiac care (ECC)
(Note: ECC certification must be current at the time of initial application and any subsequent exam retake registration)

Students who have registered for their last semester, or quarter, of college are permitted to apply to take the certification exam prior to graduation provided all academic and clinical requirements of the CAATE Accredited Program have been satisfied or will be satisfied in their last semester or quarter of college. Eligible candidates are permitted to take the exam prior to graduation. Candidates may take the exam during the exam window closest to his/her graduation date.

Students are responsible for applying to take and paying for the Board of Certification Examination

Bachelor of Science in Athletic Training

Degree Requirements

Students must complete 600 supervised athletic training clinical contact hours and clinical experience check sheet prior to graduation.

The Grand Experience	39 credits
Athletic Training Prerequisites (Total 14 credits)	3 credits
With the exception of HLT 270, all Athletic Training prerequisites will satisfy the requirements of the Grand Experience.	
Athletic Training Major	54 credits
Free Electives	27 credits
Total Bachelor of Science in Athletic Training	120 credits

Athletic Training Prerequisites

BIO 160 ♦	Anatomy and Physiology	3 credits
BIO 160L ♦	Anatomy and Physiology Lab	1 credit
EXS 314 ♦	Care and Prevention of Athletic Injuries	3 credits
EXS 314L ♦	Care and Prevention of Athletic Injuries	1 credit
HLT 270	First Aid and Safety	3 credits
PSY 101 ♦	General Psychology	3 credits

Athletic Training Major

EXS 295	Clinical Instruction in Athletic Training I	5 credits
HLT 310	Spirituality in Health Care	3 credits
EXS 324	Recognition and Evaluation of Athletic Injuries	3 credits
EXS 324L	Recognition and Evaluation of Athletic Injuries Lab	1 credit
EXS 335 ^	Kinesiology	3 credits
EXS 335L	Kinesiology Lab	1 credit
EXS 340	Physiology of Exercise	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

EXS 340L	Physiology of Exercise Lab	1 credit
EXS 385	Therapeutic Modalities	2 credits
EXS 385L	Therapeutic Modalities	1 credit
EXS 365	General Medicine	3 credits
EXS 360	Strength and Conditioning	3 credits
EXS 395	Clinical Instruction in Athletic Training II	5 credits
EXS 424	Athletic Training Administration	3 credits
EXS 414^A	Advanced Athletic Training	3 credits
EXS 426	Theory of Prescribing Exercise	3 credits
EXS 426L	Theory of Prescribing Exercise Lab	1 credit
EXS 494	Clinical Instruction in Athletic Training III	5 credits
EXS 495	Clinical Instruction in Athletic Training IV	5 credits
Total Athletic Training		54 credits

Bachelor of Science in Physical Education

Degree Requirements (Minor Recommended)

<u>The Grand Experience</u>	39 credits
All Physical Education prerequisites will satisfy the requirements of the Grand Experience.	
Physical Education Major	32 credits
Emphasis	15-21 credits
Minor/Free Electives	28-34 credits
Total Bachelor of Science in Physical Education	120 credits

Physical Education Prerequisites

BIO 160[♦]	Anatomy and Physiology	3 credits
BIO 160L[♦]	Anatomy and Physiology Lab	1 credit
EXS 340[♦]	Physiology of Exercise	3 credits
EXS 340L[♦]	Physiology of Exercise Lab	1 credit

Physical Education Major

EXS 335^A	Kinesiology	3 credits
EXS 335L	Kinesiology Lab	1 credit
EXS 383	Measurement in Physical Education	3 credits
PED 195	Lifetime Wellness	2 credits
PED246^A	Instructional Strategies in Physical Education	3 credits
PED 252	Teaching of Team Sports I	2 credits
PED 262	Teaching of Team Sports II	2 credits
PED 282	Teaching of Individual Activities I	2 credits
PED 292	Teaching of Individual Activities I	2 credits
PED 363	Physical Education for the	3 credits

	Exceptional Child	
PED 403	Physical Education for the Elementary Grades	3 credits
PED 413	Physical Education for the Secondary School	3 credits
PED 423	Organization and Administration of Physical Education and Athletics	3 credits
Total Physical Education Major		32 credits
Athletic Coaching Emphasis		
PED 323	Athletic Coaching: Baseball	3 credits
PED 333	Athletic Coaching: Basketball	3 credits
PED 334	Athletic Coaching: Volleyball and Softball	3 credits
PED 433	Theory of Coaching	3 credits
PED 497A	Internship in Coaching I	1 credit
PED 497B	Internship in Coaching II	2 credits
Total Athletic Coaching Emphasis		15 credits

Health Education Emphasis

HLT 270	First Aid and Safety	3 credits
HLT 382	Principles of Public Health	3 credits
HLT 383	Drug Abuse Seminar	3 credits
HLT 423	Health Administration	3 credits
HLT 480	Methods of Teaching Health	3 credits
HLT 496	Environmental Health	3 credits
HLT 497A	Internship in Health Education I	1 credit
HLT 497B	Internship in Health Education II	2 credits
Total Health Education Emphasis		21 credits

Professional Counseling

The Professional Counseling and Addictions Studies Program at Grand Canyon University are designed to train counseling professionals. The focus of the programs is on offering education to persons seeking to become licensed or certified as professional counselors. The program offers two graduate degrees and a certificate program.

- Master of Science in Addiction Counseling
- Masters of Science in Professional Counseling
- Certificate of Advanced Graduate Studies in Addiction Counseling

Additionally, Grand Canyon University has forged a partnership with Rio Salado College through which students can earn a Bachelor of Science in Addiction Counseling.

The Master of Science in Professional Counseling Degree is designed to meet the academic requirements established by the National Board for Certified Counselors for the National Certified Counselor credential (NCC) and to meet the licensing requirements established by many states, including Arizona.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

The Master of Science in Addiction Counseling Degree is designed to meet the academic requirements established in many states, including Arizona, for licensing/certification as an addiction/substance abuse counselor.

Mandatory licensing of individuals who provide substance abuse counseling, is administered by the Arizona Board of Behavioral Health Examiners (AzBBHE) and available at three different levels.

- Licensed Substance Abuse Technician (LSAT)
- Licensed Associate Substance Abuse Counselor (LSAC)
- Licensed Independent Substance Abuse Counselor (LISAC)

Students must independently review the licensing guidelines to determine the type of licensing for which they may qualify.

The Certificate of Advance Graduate Studies (CAGS) in Addiction Counseling is a 12 credit hour program, designed to meet the needs of currently licensed behavioral professionals who wish to increase their areas of specialization to include the study of addictions.

Bachelor of Science in Addiction Counseling

Program Description

The Bachelor of Science in Addiction Counseling is designed to train practitioners in the field of addiction counseling and substance abuse treatment. The program includes courses designed to provide students with knowledge of the field through focusing on the development of counseling skills specific to the needs of chemically dependent clientele as identified by appropriate agencies. Students/applicants are responsible for contacting their state counseling certification agency for certification requirements and program approval. Check the University Academic Catalog for requirements for Institutional Recommendation.

Admission Requirements

In addition to the standard Bachelor of Science requirements for general admission to Grand Canyon University, this program is a degree completion program that will require all students to do one of the following: transfer a completed Associate of Applied Science in Chemical Dependency Counseling and requisite bridge courses, transfer a completed Associates degree and requisite bridge courses, or transfer up to 84 credits. During this program students may be required to complete general education courses in addition to their core education courses for the purpose of completing the Bachelor of Science degree.

Degree Requirements

The Grand Experience	39 credits
Addiction Counseling Major	36 credits
Free Electives	45 credits
Total Bachelor of Science in Addiction Counseling	120 credits

Addiction Counseling Major

PCN 300	Foundation of Drug Abuse and Human Behavior	3 credits
PCN 301	Foundation of Alcohol Abuse and Human Behavior	3 credits
PCN 310	Pharmacology	3 credits
PCN 345	Co-occurring Disorders, Mental Illness and Substance Abuse	3 credits
PCN 350	Group Therapy for Addicted Populations	3 credits
PCN 405	Psychotherapy Models	3 credits
PCN 420	Family Dynamics and Substance Abuse/Addiction	3 credits
PCN 426	Counseling Multicultural and Diverse Populations	3 credits
PCN 450	Self-Help Groups	3 credits
PCN 465	The Therapeutic Process and Ethics	3 credits
PCN 480	Substance Abuse Practicum	3 credits
BIO 363	Biostatistics	3 credits
Total Bachelor of Science in Addiction Counseling		36 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 Masters 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.

Degree Requirements

PCN 505	Professional Counseling Ethics	3 credits
PCN 500	Counseling Theories	3 credits
PCN 529	Co-occurring Disorders	3 credits
PCN 520	Group Counseling Theory and Practice	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

PCN 509	Social and Cultural Diversity Issues in Counseling	3 credits
PCN 527	Psychopharmacology and Addictions	3 credits
PCN 511	Introduction to Chemical Dependency Counseling	3 credits
PCN 531	Family Issues and Addictive Disorders	3 credits
PCN 535	Counseling Chemical Dependency Adolescents	3 credits
PCN 610	Diagnostics, Assessment, and Treatment	3 credits
PCN 615	Pre-Practicum	3 credits
PCN 660	Practicum/Internship	3 credits
Total Master of Science in Addiction Counseling		36 credits

Master of Science in Professional Counseling

The Master of Science in Professional Counseling Degree requires 60 credit hours. 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) and by Arizona Board of Behavioral Health Examiners. A master's degree in counseling is a required step in 48 states, including Arizona, for individuals seeking to become licensed as counselors. Graduates from this program of study are prepared to meet the academic requirements for licensure in Arizona as a:

- Licensed Associate Counselor (LAC)
- Licensed Professional Counselor (LPC)
- Licensed Associate Substance Abuse Counselor (LASAC)
- Licensed Independent Substance Abuse Counselor (LISAC).

Additionally, graduates from most 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. It is the students' responsibility to check the licensing/certification requirements in their respective states.

Degree Requirements

PCN 505	Professional Counseling Ethics	3 credits
PCN 500	Counseling Theories	3 credits
PCN 529	Co-occurring Disorders	3 credits
PCN 520	Group Counseling Theory and Practice	3 credits

PCN 509	Social and Cultural Diversity Issues in Counseling	3 credits
PCN 527	Psychopharmacology and Addictions	3 credits
PCN 511	Introduction to Chemical Dependency Counseling	3 credits
PCN 515	Counseling Skills in the Helping Relationships	3 credits
PCN 518	Human Growth and Development	3 credits
PCN 521	Marriage and Family Therapy	3 credits
PCN 523	Tests and Appraisal in Counseling	3 credits
PCN 525	Career Development and Counseling	3 credits
PCN 540	Research Methods	3 credits
PCN 605	Psychopathology and Counseling	3 credits
PCN 610	Diagnostics, Assessment, and Treatment	3 credits
PCN 615	Pre-Practicum	3 credits
PCN 660	Practicum/Internship	12 credits
Total Master of Science in Professional Counseling		60 credits

Certificate of Completion in Advanced Graduate Studies in Addiction Counseling

The Certificate of Completion in Advance Graduate Studies in Addiction Counseling program is designed for individuals who currently possess a degree or in Counseling, Social Work, Psychology, or Marriage and Family Therapy and who wish to specialize further in the study of addiction. This certificate prepares the professional to treat substance abuse/dependency disorders.

PCN 511	Introduction to Chemical Dependency Counseling	3 credits
PCN 527	Psychopharmacology and Addictions	3 credits
PCN 529	Co-occurring Disorders	3 credits
PCN 531	Family Issues and Addictive Disorders	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

The College of Liberal Arts

College Description

In support of the University mission the College of Liberal Arts presents students with theoretical perspectives examining the workings of the human mind, cultural diversity, and the integration of faith and discipline. In addition, the college facilitates opportunities for the application of knowledge through internships, study abroad and faith-based outreach around the world.

College Mission

The College aims to produce individuals with a broad range of knowledge in the liberal arts, special competence in a particular major, and individuals who possess the critical thinking skills necessary for their intellectual discipline and their lifelong learning. The College of Liberal Arts provides many of courses for the Grand Experience, the University's general education program. The college is committed to the search for objective truth, believing that God is the ultimate source of any human truth. Professors in the college seek to integrate this concept of truth into the various disciplines.

College Features

College faculty commit themselves to improving oral and written communication for all students matriculating through courses within the University. Graduating students should have the tools for effective academic and professional discourse.

The College is composed of the departments of Humanities and Social Sciences. In addition, Grand Canyon University's values-based approach to education includes a vibrant department of Christian Studies which focuses on the spiritual dimension of the human experience. The College of Liberal Arts is uniquely engaged in preparing students as global citizens, servant-leaders, critical thinkers, and effective communicators.

The college offers majors in Christian Studies, Communications, English Literature, History, Justice Studies, Psychology, and Sociology, and emphases in Biblical/Theological Studies, Christian Leadership, Crime Scene Technology, and Youth Ministry. An optional minor in any College of Liberal Arts discipline can be obtained by taking 18 credits of coursework in the subject.

Mathematics-Placement Examination

All Grand Canyon University mathematics courses require a prerequisite or an assessment examination for entry. See the [Assessed Placement in Mathematics Classes](#) section of the Academic Catalog for further details.

Department of Christian Studies

The Department of Christian Studies provides students with a strong biblical foundation in the field of ministry. They can become highly skilled for service in Christian communities. The courses 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.

A vital part of the student's development in ministry is the exploration of a personal call to ministry. Each Christian Studies student should be able to identify and verbalize his/her experience of being called to ministry.

The faculty is committed to helping students formulate their call to ministry by exploring the various directions that a call may take. Opportunities to dialogue with church, denominational, and other Christian leaders help guide students in the process of ministry development.

The Christian Studies degree program seeks to provide a solid foundation for working with people in all fields of Christian endeavor, as well as to prepare students for the rigors of graduate education. The Department of Christian Studies provides students with a learning environment where they not only obtain a strong biblical foundation but also a greater degree of practical applications in their particular field of ministry. Students will experience learning through hands-on opportunities as well as classroom instruction.

Bachelor of Arts in Christian Studies

Degree Requirements

The Grand Experience (BIB 113 & 123 required)	39 credits
Christian Studies Major	36 credits
Electives	45 credits
Total Bachelor of Arts in Christian Studies	120 credits

Christian Studies Major

MIN 315	Spiritual Formation	3 credits
BIB 313	Biblical Interpretation	3 credits
BIB 433	The Gospels	3 credits
BIB 442	The Pentateuch	3 credits
HTH 373	Christian Doctrines	3 credits
INT 303	Cross-Cultural Communication	3 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

CHL 448	Leadership in Global Community	3 credits
HTH 353	History of Christianity	3 credits
MIN 490	Senior Seminar	3 credits
Select one of the following:		
BIB 443	The Epistles of Paul	3 credits
BIB 432	The Old Testament Prophets	3 credits
Select one of the following:		
HTH 375	Contemporary Theology	3 credits
INT 463	World Religions	3 credits
Select one of the following:		
HTH 355	Biblical Theology	3 credits
PHI 318	Faith and Reason	3 credits
Total Christian Studies Major		36 credits

Department of Humanities

The Department of Humanities is comprised of the traditional disciplines of the liberal arts that increase our understanding of human actions in the past and present. These disciplines focus on the analysis of written texts and oral communications as unique products of the diverse human community. The Department of Humanities serves two principal functions—the provision of a liberal arts education and specialized training for future careers, including graduate studies.

English offers a major in English Literature, and supports the English Emphases in the Bachelor of Science (Elementary and Secondary Education) degrees of the College of Education.. English majors are given the opportunity to gain the knowledge and professional competence to communicate effectively in written and oral discourse. They also gain a wider knowledge in American literature, English literature, linguistics, grammar, and the history of English.

Courses in Spanish are included in the offerings of the department, because study of a foreign language increases the student's awareness and appreciation of other people and cultures, as well as provides a means of communication. The study encourages students to pursue new areas of interest and provides the means to enhance many career fields.

The Communications degree offers students a liberal arts foundation in the discipline. In addition, students may focus on one or more areas of emphasis such as Digital Film Production, Graphic Design/Animation, and Public Relations. The structure of the major makes it possible for students to graduate with two emphases or an outside minor of their choosing.

A Bachelor of Interdisciplinary Studies is offered for students who recognize that many real world problems cannot be addressed by the application of a single discipline. This degree prepares students for careers that bridge other academic disciplines.

Bachelor of Arts in Communications

Grand Canyon University's Bachelor of Arts in Communications program develops leaders in diverse fields of communication and media. The program is built on a values-based liberal arts foundation. Students develop the knowledge, creativity, and technical skills necessary to design and deliver compelling messages in multiple modalities.

Additional Program Technology Requirements

DGN 205, DGN 233, and DGN 265 require software applications that exceed the specific elements of the [University Technology Requirements](#) that are identified below. Refer to Program of Study document and the course syllabi for specific software and computer system requirements.

	Microsoft Windows PC	
	Minimum	Recommended
Processor Speed	2 GHz or faster	2.4 GHz or faster
CPU Memory	2 GB of RAM	2 G of RAM or more
Hard Disk Space	10 GB Free	12 GB Free
Graphics Card	Hardware-accelerated OpenGL® graphics card	Hardware-accelerated OpenGL® graphics card
Display	1,024x768 display with 16-bit video card	1280x800 display with 16-bit video card
DVD Drive	DVD ROM	DVD R/W
Software	Microsoft Office 2001 Suite (Word, Excel, PowerPoint) Adobe Acrobat Reader An updated anti-virus software	Microsoft Office 2004 Suite (Word, Excel, PowerPoint) Adobe Acrobat Reader An updated anti-virus software

	Macintosh	
	Minimum	Recommended
Processor Speed	PowerPC® G5 or multicore Intel® processor	PowerPC® G5 or multicore Intel® processor or faster
CPU Memory	1 GB of RAM	2 GB of RAM
Hard Disk Space	11 GB Free	12 GB Free
Display	1,024x768 display with 16-bit video card	1280x800 display with 16-bit video card

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

	Macintosh	
	Minimum	Recommended
DVD Drive	DVD ROM	DVD R/W
Software	Microsoft Office 2001 Suite (Word, Excel, PowerPoint) Adobe Acrobat Reader An updated anti-virus software	Microsoft Office 2004 Suite (Word, Excel, PowerPoint) Adobe Acrobat Reader An updated anti-virus software

Degree Requirements

The Grand Experience	39 credits
Communications Major	36 credits
Electives	45 credits

Total Bachelor of Arts in Communications 120 credits

Communications Major

COM 125	Communications and the Media	3 credits
COM 150	History and Criticism of Visual Media	3 credits
ART 202	Photography and Digital Imaging	3 credits
DGN 205	Introduction to 3-D Animation	3 credits
COM 260	Introduction to Digital Film Production	3 credits
DGN 233	Graphic Design I	3 credits
DGN 265	Web Design	3 credits
COM 300	Writing for the Media	3 credits
COM 310	Principles of Public Relations	3 credits
COM 314 ^A	Intercultural Communication	3 credits
COM 330	Visual Media and Storytelling	3 credits
COM 495	Senior Seminar	3 credits

Total Communications Major 36 credits

Bachelor of Arts in English Literature

The English Literature Program is designed to provide students with the opportunity to gain the knowledge and professional competence to communicate effectively in written and oral discourse. They also gain a wider knowledge in American literature, English literature, linguistics, grammar, and the history of English.

Degree Requirements

The Grand Experience	39 credits
English Literature Major	36 credits
Electives	45 credits

Total Bachelor of Arts in English Literature 120 credits

English Literature Major

ENG 200	Analysis of World Literature	3 credits
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ENG 201	Intermediate Grammar	3 credits
ENG 221	English Literature I	3 credits
ENG 341	American Literature I	3 credits

Select one of the following courses:

ENG 222	English Literature II	3 credits
ENG 342	American Literature II	3 credits

ENG 301 ^A	Advanced Composition	3 credits
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ENG 315	English in Its Social and Historical Setting	3 credits
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ENG 421	Shakespeare	3 credits
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ENG 422	Major Authors	3 credits
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ENG 423	Literary Movement	3 credits
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Select one of the following courses:

ENG 352	The Short Story	3 credits
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ENG 413	The Novel	3 credits
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ENG 324	Studies in Poetry	3 credits
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ENG 490	Senior Seminar	3 credits
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Total English Literature 36 credits

Bachelor of Arts in Interdisciplinary Studies

The Bachelor of Arts in Interdisciplinary Studies enables students to individualize their program of study while emphasizing different disciplines the impact they have in an interdisciplinary model.

Degree Requirements

The Grand Experience	39 credits
Interdisciplinary Major	36 credits
Electives	45 credits

Total Bachelor of Arts in Interdisciplinary Studies 120 credits

Interdisciplinary Major

UNV 320	Foundations of Interdisciplinary Studies	3 credits
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Interdisciplinary Studies students should choose 30 upper division credit hours from three different course prefixes to complete their major. At least 18 hours must come from COLA.

UNV 325	Applied Interdisciplinary Studies	3 credits
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Total Interdisciplinary Major 36 credits

*Campus/Off-site only | ^AWriting-intensive course | [♦]Fulfills Grand Experience requirement | [✱]Fulfills Grand Experience Christian Studies requirement

Department of Social Sciences

Department Description

The Department of Social Sciences is a diverse department serving two principal functions: the provision of a liberal arts education and a solid foundation in the majors offered by the department.

History presents students with chronological and theoretical frameworks that enable them to properly contextualize the human cultural, social, political, and economic experience. The department seeks to equip its majors and minors with the basic skills for historical research and reflection.

Justice Studies is an interdisciplinary field that embraces those aspects of the social sciences and the humanities that are relevant to an understanding of law, justice, social control, and political change. Courses aid students in developing their own values and seeing how they apply to the field of justice studies.

Psychology offers a broad array of courses that increase our understanding of human actions in the past and present. Individualized instruction is encouraged through practicum and internships, research and writing experience, and small group interactions.

Sociology seeks to encourage 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.

Bachelor of Arts in History

Degree Requirements

The Grand Experience	39 credits
History Major	36 credits
Electives	45 credits
Total Bachelor of Arts in History	120 credits

History Major

HIS 108	World History after 1500	3 credits
HIS 103	Early American History	3 credits
HIS 104	Recent American History	3 credits
HIS 246 ^Δ	History and Historians	3 credits
HIS 309 ^Δ	Civil War and Reconstruction	3 credits
HIS 319	History of the Modern Middle East	3 credits
HIS 333	Early Modern Europe	3 credits
HIS 343	Colonial and Revolutionary America	3 credits
HIS 452	History of Japan	3 credits
HIS 330	20 th Century World	3 credits
HIS 457	China in the 20 th Century	3 credits

Select one of the following:

HIS 352	History of England to 1688	3 credits
HIS 413 ^Δ	Russian History	3 credits

Total History Major	36 credits
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Bachelor of Science in Justice Studies

Degree Requirements

The Grand Experience	39 credits
Justice Studies Major	36 credits
Electives	45 credits
Total Bachelor of Science in Justice Studies	120 credits

Justice Studies Major

JUS 100	Introduction to Justice Studies	3 credits
JUS 101	Issues in Justice Studies	3 credits
JUS 296	Social Research	3 credits
JUS 303	Criminal Justice Theory	3 credits
JUS 306	The Police Function	3 credits
JUS 308 ^{Δ*}	Adjudication Function	3 credits
JUS 310	Correctional Function	3 credits
JUS 363	Intro to Probability and Statistics	3 credits
JUS 461	Substantive Law	3 credits
JUS 462	Procedural Law	3 credits
JUS 497	Internship in Justice Studies	3 credits
JUS 498	Advanced Topics: Justice Studies	3 credits

Total Justice Studies Major	36 credits
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Bachelor of Science in Psychology

Degree Requirements

The Grand Experience	39 credits
Psychology Major	36 credits
Electives	45 credits
Total Bachelor of Science in Psychology	120 credits

Psychology Major

PSY 315	Personality Psychology	3 credits
PSY 324	Learning and Cognition	3 credits
PSY 341	Lifespan Development	3 credits
PSY 350 ^Δ	Social Psychology	3 credits
PSY 363	Introduction to Probability and Statistics	3 credits
PSY 443	Fundamentals of Counseling and Guidance	3 credits
PSY 450	Experimental Psychology	3 credits
PSY 466	Abnormal Psychology	3 credits
PSY 351	Health Psychology	3 credits

Select two of the following:

PSY 373	Adolescent Psychology	3 credits
PSY 385	Human Sexuality	3 credits

Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

PSY 333	Psychology of Religion	3 credits
PSY 401	Psychology of Death and Dying	3 credits
PSY 430	Industrial and Organizational Psychology	3 credits
PSY 498	Advanced Topics in Psychology	3 credits
PSY 497	Internship	3 credits
Total Psychology Major		36 credits

Bachelor of Science in Sociology

Degree Requirements

The Grand Experience	39 credits
Sociology Major	36 credits
Electives	45 credits
Total Bachelor of Science in Sociology	120 credits

Sociology Major

SOC 296	Social Research	3 credits
SOC 341	Social Problems	3 credits
PSY 350 ^Δ	Social Psychology	3 credits

SOC 353	Urban Sociology	3 credits
SOC 363	Introduction to Probability and Statistics	3 credits
SOC 385	Human Sexuality	3 credits
SOC 483 ^Δ	History of Social Thought	3 credits
SOC 440	Social Inequality and Satisfaction	3 credits

Select one of the following:

SOC 270	Contemporary American Families	3 credits
SOC 333	Marriage and Family	3 credits

Select two of the following:

SOC 313	Cultural Anthropology	3 credits
SOC 423	American Minority Peoples	3 credits
SOC 431	Social Work	3 credits
SOC 498	Advanced Topics	3 credits

SOC 497	Internship in Sociology	3 credits
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Total Sociology Major		36 credits
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*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

Undergraduate Minors and Concentrations

- Students seeking to enhance their undergraduate experience, by taking more course work within their majors or by venturing into other disciplines, may select from among a range of concentrations and minors. Concentrations are comprised of less than 18 specifically defined credits. Undergraduate minors are comprised of a minimum of 18 specifically defined credits. Although minors are optional, they conform to the Grade Requirement for Graduation. Prerequisite requirements also apply to the composite courses of minors and concentrations.

Concentrations

- Certain concentrations offered by the Ken Blanchard College of Business can be constructed by selecting 9 credits from any of the courses contained within a single major. See the appropriate Ken Blanchard College of Business major for the list of courses from which 9 credits can be selected to create the following concentrations:

- Accounting
- Entrepreneurial Studies
- Finance and Economics
- Marketing

Biblical/Theological Studies Concentration Requirements

BIB 453	Old Testament Poetry	3 credits
BIB 423	General Epistle and the Revelation	3 credits
HTH 303	History of Christianity in America	3 credits

Select one of the following:

HTH 365	Historical Theology	3 credits
PHI 351	Christian Apologetics	3 credits

Total Biblical/Theological Studies Concentration 12 credits

Christian Leadership Concentration Requirements

CHL 432	Leadership Theory and Praxis	3 credits
CHL 436	Administrative Aspects of Leadership	3 credits
CHL 412	Organizational Development and Change	3 credits

Select one of the following:

CHL 444	Ethical Challenges for the Christian Leader	3 credits
CHL 435	Biblical Leadership	3 credits

Total Christian Leadership Concentration 12 credits

Crime Scene Technology Concentration

JUS 321 *	Practical Criminalistics I	2 credits
JUS 321L *	Practical Criminalistics I Lab	1 credit
JUS 351 *	Practical Criminalistics II	2 credits
JUS 351L *	Practical Criminalistics II Lab	1 credit
JUS 333 *	Forensic Photography	2 credits
JUS 333L *	Forensic Photography Lab	1 credit
JUS 347 *	Crime Scene Reconstruction and	2 credits

JUS 347L *	Recording Crime Scene Reconstruction and Recording Lab	1 credits
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Total Crime Scene Technology Concentration 12 credits

Digital Film Production Concentration Requirements

COM 340	Screenwriting	3 credits
COM 350	Cinematography and Set Design	3 credits
COM 460	Media Production and Editing	3 credits
COM 480	Media Production and Directing	3 credits

Total Digital Film Production Concentration 12 credits

Graphic Design/Animation Concentration Requirements

Note: Courses in this concentration require software programs that exceed the [University Technology Requirements](#). Refer to Program of Study document and the course syllabi for specific software and computer system requirements.

DGN 365	Computer Graphics	3 credits
DGN 360	Computer Modeling: Theory and Practice	3 credits
DGN 455	3D Animation	3 credits
DGN 465	3D Animation for Film	3 credits

Total Graphic Design/Animation Concentration 12 credits

Healthcare Management Concentration Requirements

HSM 301	Principles of Health Care Management	3 credits
HSM 402	Health Care Economics and Finance	3 credits
HSM 418	Ethical Concerns in Health Care	3 credits

Total Healthcare Management Concentration 9 credits

Management Concentration Requirements

Students should select 3 courses with course prefix MGT totaling 9 credits. Normal course prerequisites apply.

Total Management Concentration 9 credits

Management of Information Systems Concentration Requirements

SYM 302	Database and Decision Support Systems	3 credits
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*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SYM 305	Business Programming	3 credits
SYM 306	Data Communications and Networking	3 credits
Total Management of Information Systems Concentration		9 credits

Pastoral Ministry Concentration Requirements

PSY 341	Lifespan Development	3 credits
MIN 373	Intro to Pastoral Ministry	3 credits
CHL 446	Issues in Counseling	3 credits

Select one of the following:

CHL 442	Coaching and Mentoring	3 credits
COM 410	Effective Ministerial Communication	3 credits

Total Christian Leadership Concentration		12 credits
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Public Relations Concentration Requirements

MKT 301	Principles of Marketing	3 credits
MKT 302	Buyer and Consumer Behavior	3 credits
MKT 304	Promotion and Advertising	3 credits
COM 320	Public Relations Writing and Design	3 credits

Total Public Relations Concentration		12 credits
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Spanish Concentration Requirements

SPA 311	Spanish Conversation	3 credits
SPA 312	Composition and Grammar	3 credits
SPA 323	Contemporary Issues	3 credits

Select one of the following:

SPA 342	Introduction to Literature in Spanish	3 credits
SPA 363	Spanish Civilization	3 credits

Total Public Relations Concentration		12 credits
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Sports Management Concentration Requirements

BUS 230	Introduction to Sport Management	3 credits
MKT 372	Sports Marketing	3 credits
BUS 321	Sports Law and Finance	3 credits

Total Sport Management Concentration		9 credits
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Youth Ministry Concentration Requirements

PSY 373	Adolescent Psychology	3 credits
MIN 343	Teaching and Guiding Youth	3 credits
BIB 410	Interpreting the Bible for Youth	3 credits

Select one of the following:

CHL 430	The Dynamics of Groups	3 credits
MIN 476	Issues in Contemporary Youth Ministry	3 credits

Total Youth Ministry Concentration		12 credits
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Minors

The minors offered by the College of Liberal Arts can be constructed by selecting 18 credits from any of the courses contained within a single major.

See the College of Liberal Arts for the list of majors from which 18 credits can be selected to create the following minors:

- Christian Studies
- Communications
- English Literature
- History
- Justice Studies
- Psychology
- Sociology

Athletic Coaching Minor Requirements

BIO 160	Anatomy & Physiology	3 credits
BIO 160L	Anatomy & Physiology Lab	1 credit
EXS 314	Care and Prevention of Athletic Injuries	3 credits
EXS 314L	Care and Prevention of Athletic Injuries	1 credit
PED 246^A	Instructional Strategies in Physical Education	3 credits
PED 323	Athletic Coaching: Baseball	3 credits
PED 333	Athletic Coaching: Basketball	3 credits
PED 334	Athletic Coaching: Volleyball/ Softball	3 credits
PED 433	Theory of Coaching	3 credits
PED 497A	Internship in Coaching I	1 credit
PED 497B	Internship in Coaching II	2 credits

Total Athletic Coaching Minor		26 credits
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Behavioral Sciences Minor Requirements

SOC 101	Understanding Society	3 credits
Select one of the following:		
SOC 483^A	History of Social Thought	3 credits
SOC 313	Cultural Anthropology	3 credits

PHI 101	Introduction to Philosophy	3 credits
PSY 101	General Psychology	3 credits

Select one of the following:

PSY—	Upper division Psychology Electives	6 credits
SOC—	Upper division Sociology electives	6 credits

Total Behavioral Sciences Minor		18 credits
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Business Minor Requirements

ACC 211	Financial Accounting	3 credits
ACC 212	Managerial Accounting	3 credits
ECN 211	Microeconomics Principles	3 credits

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

FIN 301	Fundamentals of Business Finance	3 credits
MGT 301	Principles of Management	3 credits
MKT 301	Principles of Marketing	3 credits
Total Credits for Business Minor		18 credits

Health Education Minor Requirements

HLT 270	First Aid and Safety	3 credits
HLT 382	Principles of Public Health	3 credits
HLT 383	Drug Abuse Seminar	3 credits
HLT 423	Health Administration	3 credits

HLT 480	Methods of Teaching Health	3 credits
HLT 496	Environmental Health	3 credits
HLT 497A	Internship in Health Education I	1 credit
HLT 497B	Internship in Health Education II	2 credits
Total Health Education Minor		21 credits

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

Academic Administration

Kathleen Nosal Player

University President

B.S.N., St. Joseph's College; M.S., Nova Southeastern University; M.B.A., Grand Canyon University; Ed.D., University of Sarasota

Cheri St. Arnould

Provost and Chief Academic Officer

B.S., M. Ed., Arizona State University. Ed.D., Nova Southeastern University.

Jennifer Lech

Vice President of Academic Affairs

B.S., Washington State University;
M.B.A., University of Phoenix

Fran Roberts

Vice President of College of Nursing and Health Sciences

B.S., Elmhurst College; M.S., Arizona State University; Ph.D., University of Colorado

Kim Donaldson

Dean, Ken Blanchard College of Business

B. Commerce, M.B.A., Dalhousie University; M.I.M., Thunderbird, the Garvin School of International Management

Cindy Knott

Dean, College of Education

B.A., MEd., Arizona State University; Ed.D., Nova Southeastern University

Ann McNamara

Dean, College of Nursing

A.A.S., Greenfield Community College; B.S.N. Worcester State College; M.S. Arizona State University, Ph.D. University of Arizona

Lisa St. Louis

Dean, College of Liberal Arts

B.A., University of Toronto; M.St., University of Oxford; Ph.D., University of Ottawa

K. Mark Wooden

Dean, College of Health Sciences

B.S., Arizona State University; Ph.D., Arizona State University

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

Faculty

Ken Blanchard College of Business

Olivier Bouclier

Assistant Professor of Strategy, Assistant Dean for the Ken Blanchard College of Business

B.S., Conservatoire National des Arts et Métiers; Diplôme Universitaire de Technologie in Sciences and Technology, Institut Universitaire de Technologie, M.B.A., Thunderbird.

Donna DeMilia

Assistant Professor of Accounting

B.B.A., M.B.A., Pace University

Ernest Scarbrough

Assistant Professor of Finance

B.A., Ottawa University; M.B.A. University of Phoenix; D.B.A. Nova Southeastern University

Ann Nelson

Assistant Professor of Leadership

B.S., Grand Canyon University; M.B.A., Northcentral University; Ph.D., Northcentral University

Robert K. McClean

Associate Professor of Marketing

B.A., King's College; M.B.A., St. John's University; D.P.S., Pace University

Moronke Oke

Assistant Professor of Management

B.S., University of Ilorin; M.B.A., PGDip Ph.D., University of Wales

David Perkins

Assistant Professor of Business Administration

B.E.T., Southwest Minnesota State University; M.T., M.B.A., Arizona State University; D.B.A. Candidate, Anderson University

College of Education

Lisa Aaroe

Associate Professor, Chair of Special Education

B.A., University of Iowa; M.Ed., Arizona State University; Ph.D., Arizona State University

Susan Bejarano

Assistant Professor, Chair of Elementary Education

B.A., Arizona State University; M.A. Ed., University of Phoenix

Marjaneh Gilpatrick

Assistant Professor, Chair of TESOL & MAT

B.S., Louisiana State University; M.A., San Diego State University; Ed.D., Argosy University/Phoenix

Donna Kay Hansen

Associate Professor, Chair of Reading & Interim Chair of Secondary Education

B.S., St. Mary of the Plains College; M.Ed., Arizona State University; Ph.D., Arizona State University

Kimberly LaPrade

Assistant Dean

B.A., Grand Canyon University; M.Ed., Grand Canyon University; Ph.D., Capella University

Gina Meyer

Assessment and TaskStream Coordinator

B.A., Arizona State University; M.Ed., Northern Arizona University

Casey Reason

Assistant Professor, Chair of Leadership

B.S., Bowling Green University; M.Ed., Bowling Green University; Ph.D., Bowling Green State University

Kevin Thrasher

Associate Dean

B.A., University of Louisville; M.A., University of Arizona; Ed.D., Arizona State University

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

College of Liberal Arts

Michael Baird

Professor of Christian Studies

B.A., Grand Canyon College; M.Div., Ph.D., Southwestern Baptist Theological Seminary

William Larry Barron, III

Professor of Psychology

B.A., Rice University; M.A., Ph.D., University of Texas at Austin

James G. Beggs

Professor of Humanities

B.A., Baptist College; M.A., Southwest Missouri State University; Ph.D., Louisiana State University

Cheryl Christensen

Instructor of Graphic Design

B.S., Brigham Young University; M.Ed., Arizona State University

Mary Clyde

Assistant Professor of English

B.A., Brigham Young University; M.A., University of Utah; M.F.A., Vermont College

Gregg Elder

Assistant Professor of Communications

B.A., Columbia College; M.A., Columbia College

James P. Helfers

Professor of English; Chair, Department of Humanities

B.A., Wheaton College; M.A., Ph.D., University of Michigan—Ann Arbor

Esther Jepsen

Instructor of Spanish

B.S., Covenant Life College, M. Ed., University of Montana

John Kemper

Assistant Dean for the College of Liberal Arts; Director of Academic Budgeting and Analysis

B.A., Ottawa University; M.Ed., Arizona State University

Charles Maxson

Professor of Sociology; Chair, Department of Social Science

B.A., Westmont College; M.A., Ph.D., University of California at Los Angeles

Thomas J. Mason

Assistant Professor of Justice Studies

A.A.S., Community College of the Air Force; B.S., Excelsior College; M.Ed., Northern Arizona University

Claude N. Pensis

Professor of Humanities

B.S., University of Wisconsin; M.F.A., University of Wisconsin - Madison

Dennis Richmond

Assistant Professor of Sociology and Political Science

M.A., University of Hawaii; M.Ed, Grand Canyon University

Anna Faith Smith

Associate Professor of Humanities, Chair, Department of Christian Studies

B.A., Grand Canyon University; M.Div., Southwestern Theological Seminary

Fletcher Smith

Assistant Professor of History

B.A., M.A., Ph.D., University of Arkansas

Ronald Strong

Assistant Professor of Mathematics

B.S., Syracuse University; Ed.M., State University of New York at Buffalo

Clark Youngblood

Professor of Christian Studies/Theology

B.A., Hardin-Simmons University; M.Div., Ph.D., Southern Baptist Theological Seminary

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

College of Nursing and Health Sciences

Neal R. Adam

Assistant Professor of Biology

B.S., Kansas State University; M.S., University of Nebraska-Lincoln; Ph.D., Kansas State University

Kirk Bowden

Professor, Director of Professional Counseling and Addiction Studies

B.A., Brigham Young University; M.A. Ottawa University; Ph.D. Northcentral University

Carol DeBiase

Associate Professor

B.S.N., DePaul University; M.S.N., Ed.D., Northern Illinois University

Joan S. Dickerson

Assistant Professor of Medical Imaging Sciences

B.S., University of Phoenix; M.Ed., RT, University of Phoenix

Sabine Garrett

Director of Biomedical Sciences, Assistant Professor

B.S.N., University of St. Francis - Joliet, IL; N.M.D., Southwest College of Naturopathic Medicine

Donna Gerakos

Assistant Professor of Athletic Training, Clinical Education Coordinator

B.S., State University of New York-Buffalo; M.S. Ed., Canisius College

Jeremy Greene

Faculty Associate, Anatomy & Physiology

B.S., Grand Canyon University

Geoffrey Godfrey

Assistant Professor

B.S., California State University, Long Beach; M.S.N., University of Phoenix

Russell Grubbs

Assistant Professor of Chemistry

B.A., Bowdoin College; Ph.D., Purdue University

Lisa Jaurigue

Assistant Professor

B.S.N., Grand Canyon University; M.S.N., University of Phoenix

William Kuehl

Associate Professor of Health, Exercise Science, and Physical Education. Director of Exercise Science

B.A., Augustana College; M.S., University of Illinois

Patti Luttrell

Assistant Professor of Nursing

B.S.N., Illinois Wesleyan University; M.S., Arizona State University

Antoinette Marks

Assistant Dean, College of Health Sciences

B.S., Arizona State University; M.A.Ed., University of Phoenix

Jocelyn Nelms

Director of Skills Learning Lab

B.S.N., University of Arizona

Ebere Onyeador

Instructor

B.S.N., M.S.N., California State University, Dominguez Hills

Haley Peebles

Instructor of Biology

B.S., Grand Canyon University, MBA, Grand Canyon University

Maria Quimba

Assistant Professor

B.S.N., University of Arizona; M.A. in Bioethics, Midwestern University

Marsha Ramstad

Assistant Professor of Maternity Nursing

B.S., Moorhead State University; M.S., Tri-College Nursing Consortium, North Dakota State University

Cheryl Roat

Associate Dean, College of Nursing

B.S.N., Olivet Nazarene University; M.S.N., University of Missouri-Columbia

Ellen Roy-Day

Assistant Professor, Professional Counseling and Addiction Studies

B.S., Arizona State University; M.C., University of Phoenix

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Daisy M. Savarirajan

Assistant Professor of Microbiology

B.S., Sambalpur University; M.S., Uktal University; Ph.D.,
University of Madras, India

Patricia Shannon

Associate Professor

B.S.N., Avila College; M.S., Arizona State University; M.A.,
University of San Francisco

Cindy Seminoff

Associate Professor of Exercise Science, Director of Athletic
Training

B.S., University of South Alabama; M.S., Arizona State
University

Rebecca Socia

Faculty Associate in Physical Science/Chemistry

B. S., Grand Canyon University

Sherri Spicer

Clinical Laboratory Director

B.S.N., Arizona State University; M.S.N., Southern Illinois
University at Edwardsville

Ramesh Velupillaimani

Laboratory Manager, Assistant Professor

B.S., University of Madras; M.S., University of Madras; Ph.D.,
University of Madras

Amy Werner

Assistant Professor of Nursing

B.S., Goshen College; M.S., University of Washington

Connie Wilkinson

Assistant Professor

B.S.N. Loma Linda University; M.P.H., Tulane University;
Ph.D., Columbia Pacific University

Note: Adjunct personnel are assigned to classes when their special abilities or experience would enrich the curriculum.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | † Fulfills Grand Experience Christian Studies requirement

Course Descriptions

Accounting (ACC)

ACC 211: Financial Accounting 3 credits

An introduction to the fundamental principles and practices of financial accounting and the construction of financial statements.

ACC 212: Managerial Accounting 3 credits

Continuation of ACC 211. An introduction to the use of managerial accounting data in the decision-making process. Prerequisite: ACC 211.

ACC 321: Intermediate Accounting I 3 credits

An in-depth study of accounting objectives, principles, theory, and practice as related to assets and income determination. Prerequisite: ACC 212.

ACC 322: Intermediate Accounting II 3 credits

Continuation of ACC 321. An examination of liabilities and owners' equity, special problems in income determination, and financial reporting. Prerequisite: ACC 321.

ACC 331: Cost Accounting 3 credits

A study of principles of internal accounting, including job order systems, activity-based costing, and budgeting. Prerequisite: ACC 212.

ACC 401: Financial Statement Analysis 3 credits

A detailed analysis and interpretation of a firm's three principal financial statements. Special focus is placed on the accounting principles used in the statements. Prerequisite: FIN 301.

ACC 429: Corporate Taxation 3 credits

A study of the theory and practices of accounting for income taxes of corporations, partnerships, estates, and trusts. Prerequisite: ACC 322.

ACC 430: Accounting Information Systems 3 credits

An analysis of current practices and technologies used to design, install, operate, and manage an integrated, automated accounting system. Application controls, information security requirements, and integration with other business information systems are examined. Prerequisites: ACC 212 and SYM 301

ACC 483: Advanced Accounting 3 credits

A study of accounting theory as it applies to partnerships and business combinations, international accounting, and governmental accounting. Prerequisite: ACC 322.

ACC 490: Auditing 3 credits

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 will 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. Prerequisite: ACC 322

ACC 495: Accounting Theory 3 credits

An exploration of financial accounting theory and its role in current accounting practice. Prerequisites: ACC 322.

ACC 501: Accounting Practices 3 credits

This course is designed for students who have not had accounting in their undergraduate work or for those who desire a refresher in accounting. Topics covered include the accounting cycle, the presentation and valuation of accounts shown on the Balance Sheet and Income Statement, the Statement of Cash Flows, cost behavior, and budgeting.

ACC 605: Managerial Accounting 3 credits

Students study the accounting concepts used within an organization for management decision-making. Topics include cost behavior, cost systems, profit planning, cost control, cost-volume-profit analysis, and performance evaluation. Prerequisite: ACC 501.

ACC 612: Internal Auditing 3 credits

Students study the principles involved in internal auditing. Topics include internal controls, the responsibilities and authority of the internal audit function, the types of audits conducted by internal auditors, and accounting ethics. Forensic accounting and Sarbanes-Oxley will also be covered.

ACC 619: Accounting Theory 3 credits

Through self-directed and collaborative learning, the student will critically examine the central issues which arise in the application of financial and managerial accounting concepts to situations encountered in business. Topics include the accounting standard-setting process and the selection of accounting methodologies in the absence of clear standards. Prerequisite: ACC 605.

ACC 620: Financial Statement Analysis 3 credits

This course discusses analysis and interpretation of corporate financial reports. Topics include the form, content, and general accounting principles governing the construction of financial statement; valuation, classification, and income determination problems; the methods of analyzing and interpreting financial data; and the utility and limitations of financial accounting data. Prerequisites: ACC 501 and FIN501.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

ACC 633: Financial Intelligence and Decision Making **3 credits**

Financial Intelligence and Decision Making focuses on understanding, interpreting, and using financial information for the purposes of making sound financial decisions. The concept of financial intelligence is introduced as it relates to effectively analyzing and assessing financial performance to understand what numbers really mean and when or how to appropriately challenge them.

ACC 659: Advanced Financial Accounting **3 credits**

Course Description TBD. Prerequisite: ACC 605.

Aerospace Studies (AES)

AES 101: Air Force Today I **2 credits**

Every Fall. Introduction to U.S. Air Force and AFROTC. Topics include: the Air Force mission and organization, customs and courtesies, officer opportunities, officership, and professionalism.

AES 102: Leadership Lab **0 credits**

Every Fall. Emphasis on common Air Force customs and courtesies, drill and ceremonies, health and physical fitness through group participation. Co-requisite: AES 101.

AES 103: Air Force Today II **2 credits**

Every Spring. Continuation of AES 101. Topics include: the Air Force mission and organization, customs and courtesies, officer opportunities, officership, and professionalism. Prerequisite: AES 101 or department approval.

AES 104: Leadership Lab **0 credits**

Every Spring. Continuation of AES 102 with more in-depth emphasis on learning the environment of an Air Force officer. Co-requisite: AES 103.

AES 201: The Evolution of USAF Air and Space Power I **2 credits**

Every Fall. Further preparation of the AFROTC candidate. Topics include: Air Force heritage and leaders, communication skills, ethics, leadership, quality Air Force, and values. Prerequisite: AES 103 or department approval.

AES 202: Leadership Lab **0 credits**

Every Fall. 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: The Evolution of USAF Air and Space Power II **2 credits**

Every Spring. Continuation of AES 201. Topics include: the Air Force mission and organization, customs and courtesies, officer opportunities, officership, and professionalism. Prerequisite: AES 201 or department approval.

AES 204: Leadership Lab **0 credits**

Every Spring. Continuation of AES 202 with an emphasis on preparation for field training. Co-requisite: AES 203.

AES 204: Leadership Lab **0 credits**

Every Spring. Continuation of AES 202 with an emphasis on preparation for field training. Co-requisite: AES 203.

AES 301: Air Force Leadership Studies I **3 credits**

Every Fall. Study of communication skills, leadership and quality management fundamentals, leadership ethics, and professional knowledge required of an Air Force officer. Prerequisite: AES 203 or department approval.

AES 302: Leadership Lab **0 credits**

Every Fall. Advanced leadership experiences applying leadership and management principles to motivate and enhance the performance of other cadets. Co-requisite: AES 301.

AES 303: Air Force Leadership Studies II **3 credits**

Every Spring. Continuation of AES 301. Topics include: communication skills, ethics, leadership, professional knowledge, and quality management required of an Air Force officer. Prerequisite: AES 203 or department approval.

AES 304: Leadership Lab **0 credits**

Every Spring. Continuation of AES 302 with emphasis on planning the military activities of the cadet corps and applying advanced leadership methods. Co-requisite: AES 303.

AES 401: National Security Affairs **3 credits**

Every Fall. Examines advanced ethics, Air Force doctrine, national security process, and regional studies. Special topics include: civilian control of the military, military justice, and officership. Prerequisite: AES 303 or department approval.

AES 402: Leadership Lab **0 credits**

Every Fall. Advanced leadership experience demonstrating learned skills in planning and controlling the military activities of the corps. Co-requisite: AES 401.

AES 403: Regional Security Issues **3 credits**

Every Spring. Continuation of AES 401. Topics include: civilian control of the military, doctrine, ethics, military justice, the national security process, and officership. Prerequisite: AES 401 or department approval.

AES 404: Leadership Lab **0 credits**

Every Spring. Continuation of AES 402 with an emphasis on preparation for transition from civilian to military life. Co-requisite: AES 403.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Applied Management (AMP)

AMP 330: Group Dynamics 3 credits

This course examines how group behavior affects organizational effectiveness, decision-making, conflict resolution, and strategies for efficient group and task management.

AMP 335^A: Career and Life Assessment 3 credits

This course focuses on the preparation of students' personal portfolios and professional life-learning experiences. This course is a writing-intensive course and is not offered online. It is an on-campus only course.

AMP 340: Management Principles 3 credits

This course focuses on real-world management situations concerned with planning, organizing, leading, and controlling. General management and basic management processes will be examined.

AMP 350^A: Managerial Communication 3 credits

Students will demonstrate the fundamentals and application of writing and presentation used in formal settings in the professional environment. A writing-intensive course.

AMP 360: Informational Technology and Systems 3 credits

This course provides an overview of management issues and technologies that a business professional needs to understand to effectively deal with the rapidly changing world of information systems. Although many technologies are covered, it is not intended to be a technology class. The major focus is on the organizational, management, and technology dimensions of information systems.

AMP 370: Systems Concepts 3 credits

The focus of this course will be on analysis of organizations using the systems model and application of the systems model for solving organizational problems.

AMP 410^{A*}: Ethical Decision-Making 3 credits

This seminar style course on business ethics will focus on applying a principle-centered approach to business and personal issues. This course leads to an exploration of the philosophy of life, ethical theories, and values as a base of ethics and accountability in business and a responsible lifestyle.

AMP 420: Marketing Environment 3 credits

This course will emphasize the marketing concept, consumer behavior, the need for market research, and the elements of the marketing mix (product, price, place, and promotion).

AMP 430: Human Resources 3 credits

Values and perceptions of groups affecting recruiting, training, evaluation, and current legal issues in human resources will be studied. Students will focus on the manager as a coach in the organization.

AMP 440: Financial Decision-Making 3 credits

This course will study the components of the primary financial statements and the use of these statements to analyze the performance of a business entity. The course includes selected managerial accounting topics that assist in internal decision-making.

AMP 450V: Leadership and Vocation 3 credits

This course emphasizes major behavior patterns that effective leaders use to influence followers, including Ken Blanchard's leadership model. Topics include what effective leaders really do and how leaders can diagnose and modify situations to make their leadership a more positive and productive endeavor.

AMP 460: Project Management 3 credits

This course addresses basic concepts in project management, emphasizing a balance between the technical aspects of project work. Topics include the emerging importance of project management, tools and techniques to plan and schedule projects, the manager's role in coordinating projects, and how managers need to be aware of culture influences.

AMP 470: Global Management 3 credits

This course emphasizes practical skills needed for effective management of people and processes in a 21st century global business context. It places the student in the role of a manager of any nationality, encouraging the student to take a truly global perspective in dealing with dynamics of international management.

AMP 480: Small Business Entrepreneurship 3 credits

This course explores basic concepts for successful operations of small business, including starting and managing a successful new business venture.

AMP 490: Organizational Development and Change 3 credits

This course emphasizes an overview of approaches to organizational development with emphasis on the practical aspects of changing organizations to improve effectiveness.

AMP 495: Capstone–Action Research Project 3 credits

This course provides a structured way for managers to take an overview and general management perspective. Emphasis will be placed on a capstone project that synthesizes major elements of the Applied Management program.

Art Education (ARE)

ARE 423: Art in the Secondary School 3 credits

Exploration of materials, theory, and organization for presenting art activities and development in the arts for students at the secondary school level. Prerequisites: Admission to the College of Education and junior status.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

Art History (ARH)

ARH 100: Art Appreciation 3 credits

Designed specifically for non-art majors and minors with emphasis on the meaning of art as it relates to the personal interests of each individual. The understanding of art will be pursued by examining its history and by personal observation through field trips, slides, and videos.

ART 202: Photography and Digital Imaging 3 credits

This is an introductory course on digital photography, in which students explore basic techniques in camera operation, film and print processing, composition, and presentation. Students are required to provide their own digital camera for this class.

ARH 234: Art History II 3 credits

A survey of Occidental Art during the Renaissance, Mannerist, Baroque, Rococo, Neo-Classic, Romantic and Modern epochs.

ARH 439^A: Contemporary Art History 3 credits

A survey of recent and current trends in art with special consideration of post-modernism and new concepts with media and modes of presentation. A Writing-Intensive course.

Art Studio (ART)

ART 201: Photography I 3 credits

An introduction to black-and-white photography, including exploration of basic techniques in camera operation, film and print processing, composition, and presentation. Lecture and darkroom lab sessions. Students are required to provide their own digital camera for this class.

ART 301: Photography II 3 credits

A course designed to expand the student's knowledge and use of materials and techniques available as tools for creative expression in black-and-white photography. Students are required to provide their own digital camera for this class. Prerequisite: ART 201.

ART 351: Photography III 3 credits

By arrangement. Advanced studio problems and techniques in photography. Course may be repeated for up to six hours of credit. Students are required to provide their own digital camera for this class. Prerequisites: Instructor's approval, ART 201, and ART 301.

Bible (BIB)

BIB 103: Survey of the Bible 3 credits

An introduction to the study of the Bible, providing essential background information of God's redemptive work throughout history. This course, in combination with UNV 304, UNV 305, or UNV 306, will meet the Grand Experience requirements of the University but does not serve as a required prerequisite for certain upper division courses.

BIB 113: Old Testament History 3 credits

An introductory and historical survey of the Old Testament. Attention is given to the study of the Bible itself, its institutions, literature, and history of the national life of the Hebrew people from earliest times to close of the Old Testament period.

BIB 123: New Testament History 3 credits

A general historical survey of the New Testament, beginning with the inter-biblical period, with the main emphasis given to the Gospels and Acts.

BIB 313: Biblical Interpretation 3 credits

This course helps equip students more interested in more serious Biblical Studies to understand and use basic principles of Biblical interpretation. An introduction to the nature of Bible interpretation is given. The majority of the course will focus on developing skills in exegesis of Scripture, using a nine-step approach. Prerequisites: BIB 113 and BIB 123.

BIB 410: Interpreting the Bible for Youth 3 credits

Aids future youth leaders in interpreting and communicating the Bible to a youth audience to develop the necessary skills in exegesis, scripture outline, and content analysis throughout the course. The majority of the course will focus on developing the skills necessary to assist others to relate the Bible to modern situations facing youth and their families. Successful completion of the course will entail interpreting assigned Scripture and relating it to current situations.

BIB 423: General Epistles and the Revelation 3 credits

A study of the historical background, authorship, and exegetical analysis of the General Epistles (Hebrews; James; I and II Peter; I, II, and III John; and Jude) and The Revelation. Prerequisites: BIB 113, and BIB 123.

BIB 432: Old Testament Prophets 3 credits

A study of the writings of the prophets of the Old Testament, with special attention given to the Messianic element, the occasion of writing, authorship, content, and interpretation. Prerequisites: BIB 113 and BIB 123.

BIB 433: The Gospels 3 credits

A study of the life of Jesus, with special attention given to his person, teachings, and work. Prerequisites: BIB 113 and BIB 123.

BIB 442: The Pentateuch 3 credits

A study of the first five books of the Bible with special emphasis given to the scriptural record of beginnings and of early Hebrew history, religion, and law. Prerequisites: BIB 113 and BIB 123.

BIB 443: The Epistles of Paul 3 credits

A study of the life and times of the apostle Paul, with emphasis on an interpretation of his epistles and their historical setting. Prerequisites: BIB 113 and BIB 123.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

BIB 453: Old Testament Poetry **3 credits**

A study of the poetical books of the Old Testament, with reference to their literary style, occasion of writing, authorship, content, an interpretation. Prerequisites: BIB 113 and BIB 123.

Biology (BIO)

BIO 100: Biology Concepts **3 credits**

A complete overview of the science of biology from a human perspective. Topics include cells, energetics, ecology, inheritance, evolution, embryology, anatomy, and physiology. This course does not apply toward Biology majors. Co-requisite: BIO 100L.

BIO 100L: Biology Concepts Lab **1 credit**

A lab course designed to complement and support the principles being learned in Biology 100 lecture. Co-requisite: BIO 100.

BIO 160: Anatomy and Physiology **3 credits**

A study of the basic structure and function of the major body systems of the human body. This course focuses on an in depth study of the musculoskeletal and neurological systems for the athletic training, health and exercise majors. This course will also compare normal and abnormal function for more comprehensive understanding of the human body. Co-requisite: BIO 160L.

BIO 160L: Anatomy and Physiology Lab **1 credit**

A laboratory course designed to complement and support the principles taught in BIO 160. Co-requisite: BIO 160. Does not substitute for BIO 201L or BIO 202L.

BIO 181: General Biology (Majors) I **3 credits**

A study of biological concepts emphasizing the interplay of structure and function, particularly at the molecular, cellular, and organismal levels of organization. Co-requisite: BIO 181L.

BIO 181L: General Biology I Lab **1 credit**

A lab course designed to complement and support the principles being learned in Biology 181 lecture. Co-requisite: BIO 181.

BIO 182: General Biology (Majors) II **3 credits**

A study of the characteristics of the major groups of plant and animal life, and the ecological interaction of organisms with each other and their environment. Prerequisite: BIO 181. Co-requisite: BIO 182L.

BIO 182L: General Biology II Lab **1 credit**

A lab course designed to complement and support the principles being learned in Biology 182 lecture. Co-requisite: BIO 182.

BIO 201: 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. Prerequisites: BIO 181 or satisfactory placement exam results. Does not substitute for BIO 360 or BIO 373. Co-requisite: BIO 201L.

BIO 201L: Human Anatomy and Physiology I: Lab **1 credit**

A study of the gross anatomy and functions of the skeletal, muscular, and nervous systems. Lab involves the integrated use of human cadavers, animal demonstrations, and computer-assisted instruction. Does not substitute for BIO 373 Co-requisite: BIO 201

BIO 202: Human Anatomy and Physiology II **3 credits**

This course is the second 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 immunity; metabolism; energetics; fluid, electrolyte and acid-base balance; and the endocrine, hematologic, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Prerequisites: BIO 201 Co-requisite: BIO 202L.

BIO 202L: Human Anatomy and Physiology II: Lab **1 credit**

A study of the gross anatomy and functions of the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems. Lab involves the integrated use of human cadavers, animal demonstrations, and computer-assisted instruction. Co-requisite: BIO 202.

BIO 205: Microbiology **3 credits**

An introduction to the principles and applications of microbiology, with a study of the general characteristics of microorganisms and their relationship to humans. Co-requisite: BIO 205L.

BIO 205L: Microbiology Lab **1 credit**

A lab course designed to complement and support the principles being learned in Biology 205 lecture. Co-requisite: BIO 205.

BIO 304: Applied Nutrition **3 credits**

Applied Nutrition provides a foundation of basic nutrition theory. The focus is 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 308: Pathophysiology **3 credits**

A study of manifestations of altered human physiology and disease processes. Systems theory is used to analyze the relationship between disease and physiology. Prerequisites: BIO 201 and BIO 202, or BIO 160.

BIO 311: Sectional Anatomy MRI/CT **3 credits**

Content is designed to provide students with a review of the anatomy of the body systems from the cross sectional perspective via diagrams and radiographic images.

*Campus/Off-site only | [^]Writing-intensive course | [♦]Fulfills Grand Experience requirement | [✱]Fulfills Grand Experience Christian Studies requirement

BIO 316: Pharmacology for Health Care Professionals

3 credits

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. 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. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care.

BIO 317^A: Science Communication

3 credits

Science Communication studies how to gather, analyze, and communicate scientific information. Students will be able to effectively communicate clearly organized scientific thoughts across a wide array of platforms. Topics covered include recognizing the various forms of written communication, utilizing research papers to conduct individual research, organizing and writing journal papers, producing and giving scientific oral presentations, producing poster presentations at scientific meetings, understanding the funding process for professional scientific research, and writing proposals for federal funding agencies. A writing-intensive course.

BIO 317V^A: Science Communication and Research

3 credits

This 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. This course is designated as a GCU Writing Intensive Course.

BIO 332: Cell Biology

3 credits

A comprehensive study of the composition, structure, energetics, regulation, and growth of eukaryotic cells. Prerequisites: BIO 181 and BIO 182

BIO 340: Genetics

3 credits

A comprehensive examination of the principles of heredity and variation, including Mendelian genetics, molecular genetics, and population genetics. Prerequisites: BIO 181 and BIO 182.

BIO 352: Developmental Anatomy

4 credits

A comprehensive examination of human anatomical development from fertilization through birth including genetic regulation, molecular pattern formation, teratology, and developmental anomalies.

BIO 353 Calculus for Biological Sciences

3 credits

This course focuses on the study and mathematical modeling of biological systems. Through a host of biological and medical applications, the rudiments of calculus are developed. Concepts include measuring the slope of a curve, writing equations of tangent lines, maximizing and minimizing a function, determining the rate of change of a function, and measuring the area under a curve. Solution techniques, both analytic and numeric, for difference and differential equations are utilized. Modeling activities are heavily emphasized. Qualitative analysis of solutions of differential equations is incorporated in modeling activities. Application areas include mathematical physiology, pharmacology, cell biology, and population biology. Prerequisites: MAT 121 or satisfactory placement exam results.

BIO 360: Medical Physiology

3 credits

A study of the functions of cells, organs, and systems of vertebrates, with emphasis on humans. Prerequisite: BIO 182

BIO 360L: Medical Physiology

1 credit

A laboratory course designed to complement and support the principles being learned in Medical Physiology. Prerequisites: BIO 182. Co-requisite: BIO 360

BIO 363: Biostatistics

3 credits

Introduction to experimental design, and basic concepts of descriptive and inferential statistics including descriptive methods and graphing, binomial and Gaussian probability theory, estimation, confidence intervals, hypothesis testing, correlation, and regression. One-, two- and multi-group parametric and nonparametric methods will be introduced. Sampling distributions covered include the Z, t, F, and Chi-squared distributions. Prerequisite: MAT 120 or higher.

BIO 368A: Pathophysiology I

2 credits

The first of a two course sequence designed to bridge the gap between basic preclinical science courses and the clinical requirements of healthcare professionals. Systematic studies focus on the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Material presentation in clinically relevant terminology enhances accurate and effective communication through extensive vocabulary expansion. Upon completion of this course, the student should be able to discuss accurately a variety of disease states with both other health care professionals and patients:

- 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 different systems intricately interrelate to cause a clinical picture and complications.

Prerequisites: BIO 202 and BIO 202L or BIO 360 and BIO 360L

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

BIO 368B: Pathophysiology II **2 credits**

The second of a two course sequence designed to bridge the gap between basic preclinical science courses and the clinical requirements of healthcare professionals. Systematic studies focus on the etiology, pathogenesis, morphology, and clinical manifestations associated with various altered health states and diseases. Material presentation in clinically relevant terminology enhances accurate and effective communication through extensive vocabulary expansion. Upon completion of this course, the student should be able to accurately discuss a variety of disease states with both other health care professionals and patients:

- 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?

Prerequisites: BIO 368A

BIO 372: Biomechanics **3 credits**

This course introduces students to concepts of mechanics as they apply to human movement. The student should gain an understanding of the mechanical and anatomical principles that govern human motion and develop the ability to link the structure of the human body with its function from a mechanical perspective. At the completion of this course it is desired that each student be able to: 1) describe motion with precise, well-defined mechanical and anatomical terminology; 2) understand and quantify linear and angular characteristics of motion; 3) understand the quantitative relationships between angular and linear motion characteristics of a rotating body; and 4) understand and quantify the cause and effect relationship between force and linear and angular motion. Prerequisites: BIO 160, BIO 201, or BIO 360

BIO 373: Human Gross Anatomy and Dissection **4 credits**

A detailed study of the gross anatomy of the human body through lecture presentation and dissection of human cadavers. Enrollment is competitive and limited to 16 students. This course cannot be taken as an audit. Prerequisites: BIO 182, and Enrollment in the BS Biology: Pre-med program or instructor's approval

BIO 451: Pharmacology I **3 credits**

This course presents the foundational concepts of pharmacology emphasizing basic mechanisms of drug action such as pharmacokinetics, pharmacodynamics and pharmacotherapeutics. Drug classes illustrated using prototypic drugs. Examples drawn from various body systems, i.e., neuromuscular, respiratory and so forth. The course will also briefly introduce concepts in modern drug design such as gene and cell therapy and application of pharmacogenomics. Prerequisites: CHM 332 and CHM 332L.

BIO 452: Pharmacology II **3 credits**

This course details the development of our current understanding of receptor signal transduction in mammalian systems. The course will focus on the molecular biochemistry of receptor structure; mass action considerations governing ligand-receptor binding interactions; molecular pharmacology of transduction of the receptor signal and specific considerations of receptors as pharmaceutical targets. Intended for students pursuing a specialization in pharmacology. Prerequisite: BIO 451.

BIO 461: Epidemiology **3 credits**

Topics include basic concepts, principles, and methods of chronic and infectious disease epidemiology, including study designs and basic measures of disease frequency and exposure-disease associations, relating prevalence and incidence, analysis of clustering and seasonality; measures of effect, sources of bias, estimation and hypothesis testing in epidemiology; models for risk and rates; cohort analysis. . Prerequisites: MAT 120 and BIO 368B

BIO 462: Neuroscience for Rehabilitative Therapies **3 credits**

This course expands on previous science courses to provide a more in-depth understanding of the structure and function of the human nervous system. Changes in the structure of the nervous system that occur with development, responses of the nervous system to injury, blood supply of the central nervous system, the ventricular system, and regional anatomy of the brain and spinal cord are examined. Basic function of the nervous system is examined at the molecular, cellular, and systems level. In addition, the course introduces the basis for complex human functions and introductory material on the medical, surgical and physical therapeutic management of neurological disorders. Prerequisites: BIO 160, BIO 201, or BIO 360

BIO 480: Methods of Teaching Science in the Secondary School **3 credits**

Methods of instruction, organization, and presentation of content in teaching science.

BIO 497A: Internship-A in Biology **1 credit**

The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their major area of study by working in an outside organization under the supervision of a professional. Periodic conferences and evaluations are scheduled with the supervising instructor.

BIO 497B: Internship-B in Biology **2 credits**

The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their major area of study by working in an outside organization under the supervision of a professional.. Periodic conferences and evaluations are scheduled with the supervising instructor.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Business (BUS)

BUS 230: Introduction to Sport Management 3 credits

An overview of the business of sport, including career opportunities. A study of the value of professional management to sport organizations.

BUS 251: Business Statistics 3 credits

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 120 or equivalent.

BUS 307^A: Business Communications 3 credits

This course provides practice in writing effective business letters, memos, and reports. Emphasis is on effective oral and written communication as it applies to human relations in business and management. A Writing-Intensive course. Prerequisites: ENG 101 and ENG 102.

BUS 310: Business Law I 3 credits

A study of our business legal system and the nature and sources of law, including the laws of torts, crimes, strict liability, intellectual property, contracts, secured transactions, real property, and bankruptcy.

BUS 311: Ethical and Legal Issues in Business 3 credits

This course is a comprehensive study of the legal and ethical issues of concern to business. The course will cover those areas of the U.S. legal system that are most relevant to business, such as the law of torts, liability, intellectual property, and contract law. It will explore the role of ethics and values in business decision making, and will approach these subjects from the perspective of the stakeholders as opposed to an economic interpretation of the firm and its responsibilities.

BUS 315: Business Law II 3 credits

Continuation of BUS 310. Included in this course is the study of partnerships, corporations, sales, commercial paper, credit, and government regulations and agencies.

BUS 316: Ethical Issues in Business and Society 3 credits

A comprehensive course dealing with macro-environmental issues of concern to business. The course encompasses the political, social, economic, legal, ethical, and other environments of business. Emphasis is placed on a stakeholder's approach as opposed to an economic interpretation of the firm and its responsibilities.

BUS 321: Sport Law 3 credits

A presentation of the basic legal system, its terminology, and principles as applied to professional and amateur sports. Emphasis is on identifying and analyzing legal issues, the ramifications of those issues, and the means of limiting the liability of sport organizations. Prerequisite: BUS 310.

BUS 406: International Business 3 credits

A course in the concepts and practices of business in a multinational context. The course covers objectives, strategies, policies, and organizational structures for operating in various international environments. Current issues in the field are discussed in detail. Prerequisites: FIN 301 and MGT 301.

BUS 411: Business Internship 1–3 credits

An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. Prerequisites: Permission of the Director of the Internship Program.

BUS 418: Entrepreneurship 3 credits

Development of business plans, preparation of financial packages, and evaluation of opportunities, risks, and problems associated with business development. Prerequisites: FIN 301, MGT 301, and MKT 301.

BUS 450: Leadership and Vocation

This course emphasizes major behavior patterns that effective leaders use to influence followers, including Ken Blanchard's leadership model. Topics include what effective leaders really do and how leaders can diagnose and modify situations to make their leadership a more positive and productive endeavor.

BUS 480^A: Strategic Management 3 credits

A capstone course in business providing detailed coverage of strategic management theory and practice. Emphasis is placed on managing as a general manager with cross-functional and enterprise-wide responsibilities. A Writing-Intensive course. Prerequisites: FIN 301, MGT 301, MKT 301, and senior status.

BUS 499: Independent Study 1–4 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 601: Quantitative Methods in Business 3 credits

This course prepares the student to develop and explore quantitative business models for the purpose of improving managerial decision-making. Topics include economic order quantity, probability distribution applications, ANOVA and regression, decision-making under uncertainty, hypothesis testing, linear programming, and queuing theory. Both theory and practical applications are explored. Prerequisite: SYM 501.

BUS 602: Managerial Communications 3 credits

An examination and practice of communication theories, techniques, strategies, and skills essential for success in business. Topics include communication strategy and analysis, managerial presentations, writing, effective meeting management, cross-cultural communication, and the core areas of the modern corporate communication function.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

BUS 604: Organizational Ethics **3 credits**

This course explores the role of ethics in the organization. An emphasis is placed upon discussing how ethics affects policy formation, developing awareness of ethical situations, and forming a personal value system to guide ethical decision-making and professional conduct in business and society.

BUS 605: Legal and Ethical Practices in Information Security **3 credits**

In this course, students evaluate ethical decision making and the best practices employed in security operations planning and management. Students review best practices in the remaining five domains of the CBK within this context.

BUS 606: Business and Security Risk Analysis **3 credits**

This course provides students with an overview of risk management principles. Methods to identify, quantify, and qualify internal and external risks to the organization are examined. Students apply these principles and methods to the current business and risk environment.

BUS 637: Serving Communities **3 credits**

Serving Communities brings a unique societal perspective to the decision-making process within organizations. The concept of "enlightened self-interest" is considered within the context of short versus long-term business results. Societal business costs are defined and examined including analysis of both sustainable environmental resources and human quality of life issues. Human and quality of life issues center on social responsibility and community outreach. Case studies will be used to profile and examine organizations considered as exemplar corporate citizens.

BUS 640: Building Efficient Organizations **3 credits**

Building Efficient Organizations examines how to streamline and drive inefficiencies out of a firm's internal processes in order to build a super lean, highly efficient organization. It also covers management structures required to support internally integrated processes; examining how to break down silos and build structures that support cross-functional coordination. The course also focuses on external processes by examining ways to achieve greater supply chain integration with suppliers and customers.

BUS 641: Building Innovative Organizations **3 credits**

Building Innovative Organizations introduces the challenge of balancing efficiency with the ability to innovate successfully. It examines three steps to achieving successful innovation including what understanding customers really wants and having the right structure, processes, and resources to support innovation.

BUS 697: Internship **1 credit**

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. Internships are strongly recommended for all academically qualified students for any discipline taught in the Ken Blanchard College of Business (KBCOB). The College's desire is to promote an environment where students and organizations benefit from real-world application of classroom instruction. In order to arrange an internship, students should consult the KBCOB Director of the Internships.

Christian Leadership (CHL)

CHL 330: Old Testament History and Theology **3 credits**

This course is a comprehensive survey of the important events in the earliest history of the nation Israel. In addition, the course will introduce the student to the major theological ideas of the nation in their historical context. The course will combine lecture, discussion, papers, and presentations.

CHL 332: New Testament History and Theology **3 credits**

This course is a comprehensive survey of the important events in the life of Christ and the early church. In addition, the course will introduce the student to the major theological ideas of Christ and the early Church in their historical context. The course will combine lecture, discussion, papers and presentations.

CHL 412: Organizational Development and Change **3 credits**

TBD

CHL 430: The Dynamics of Groups **3 credits**

The social and communication characteristics of groups that drive organizations are studied with regard to their special leader and member roles and relational culture. Special attention is given to development of members. The cohort nature of the Christian Leadership program becomes a model for dealing with organizations, councils, and committees. Students assess the specific leadership needs for their own context.

CHL 432: Leadership Theory and Praxis **3 credits**

Definitions of leadership are explored and various models and styles for leadership are identified. Students assess their own skill sets, learn new ones, and develop strategies for being a more effective leader in various contexts. The influence of values on decision-making is examined. Students compare their own skills with the needs of their context identified in CHL 430.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

CHL 434^A: Research Methodology **3 credits**

This course helps students identify problems, review related literature, collect data, and measure objectives in their vocational environment. Students develop their analytical skills and apply them through quantitative or qualitative research methods in generating their final research projects. Specific quantitative tools are introduced. Qualitative tools will be emphasized, such as case methods, verbatim reports, incident reports, process notes, and journaling. These will reinforce the importance of theological reflection and mentoring. Mentors help students to identify problems and issues related to their project. An intensive writing course.

CHL 435: Biblical Leadership **3 credits**

Leaders in the Bible, including Old and New Testament examples, form the basis for exploring models of biblical leadership. Students will learn valuable lessons from the struggles and successes of significant men and women in the Bible. Students will propose their own leadership project, which they will develop in CHL 445 and complete in CHL 450.

CHL 436: Leadership for Ministry **3 credits**

Students will become familiar with the administrative skills necessary for more effectively leading a successful organization. Students explore management of systems, resource, and time, as well as learn to network and to understand change and transition.

CHL 438: Spiritual Formation of Leaders **3 credits**

This course examines the spiritual and Biblical understanding and preparation necessary for effective Christian Leadership. Attention is given to spiritual formation of self and groups, articulation of vision, exploration of call to vocation and position.

CHL 442: The Leader as Coach and Mentor **3 credits**

Coaching and mentoring are important dimensions of effective leadership. This course will reinforce the personal leadership effectiveness of the students by helping them to improve the personal, interpersonal and leadership effectiveness of those with whom they work. Students will build on the foundations of servant leadership and mutual accountability as they identify potential team-building experiences and persons to begin to mentor.

CHL 444: Ethical Challenges for the Christian Leader **3 credits**

Specific ethical issues will be raised which students will examine how their Christian values influence their actions and decisions as they live out their faith in their vocations and positions. After an introduction to Christian ethics, issues are investigated through the use of case studies.

CHL 445: Life Management Issues **3 credits**

Students learn valuable lessons in how to balance the time and energy constraints of school, family, ministry, job, and crisis in order to more effectively lead in Christian vocational or avocational ministry. Development of a plan for completing the Professional Project will be included in the study as it relates to maintaining balance in the face of mounting obligations.

CHL 446: Issues in Counseling **3 credits**

This course is an introduction to counseling. Specific personal, social and psychological issues will be discussed. Appropriate use of networks and referral to trained resource professionals will be explored. Limitations and implications of counseling for untrained practitioners are stressed.

CHL 448: Leadership in Global Community **3 credits**

Christian values in a global community provide a forum for interdisciplinary examination of ethics, community, and the environment, as well as possibilities for cross-cultural leadership development. The course will help students develop the framework for practicing global citizenship, as well as allow the students the opportunity for informed dialogue concerning the nature of leadership in other cultures.

CHL 450: Professional Project **3 credits**

This capstone course requires students to implement theories and concepts in individual projects related to leadership in their vocational or avocation organizational contexts. A presentation of the project initiated in CHL 434 is submitted in a written document and as a presentation made to the cohort as partial completion of the requirement of the Christian Leadership program. Prerequisites: CHL 435 and CHL 445.

Chemistry (CHM)

CHM 101: Introduction to General, Organic, and Biochemistry **3 credits**

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. Co-requisites: CHM 101L.

CHM 101L: Introduction to General, Organic, and Biochemistry: Lab **1 credit**

A lab course designed to complement and support the principles being learned in Chemistry 101 lecture. Co-requisites: CHM 101

CHM 103: Chemistry Lab Safety **3 credits**

The chemistry laboratory safety course is designed to emphasize proper principles and procedures related to safety in the science labs and classrooms. This course outlines the correct procedures for labeling, storing and disposing of chemicals and related materials. Emphasis is placed on the Occupational Safety and Health Administration (OSHA) and Materials Safety Data Sheet (MSDS) standards and regulations.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

CHM 105: Introductory Studies in the History of Chemistry	3 credits
Introductory studies in the history of chemistry emphasizes the importance of significant events, theories and individuals in the development of chemistry. This course will analyze the impact of chemistry and technology on society along with ethical considerations or view points related to current events.	
CHM 113: General Chemistry I	3 credits
An exploration of the principles and practice of modern chemistry. Topics include the chemical and physical properties of elements and compounds, reaction stoichiometry, energetics, and atomic and molecular structure. Prerequisites: MAT 121 or equivalent. Co-requisites: CHM 113L	
CHM 113L: General Chemistry I: Lab	1 credit
A lab course designed to complement and support the principles being learned in CHM 113 lecture. Prerequisite: MAT 121 or equivalent. Co-requisites: CHM 113	
CHM 115: General Chemistry II	3 credits
A lab course designed to complement and support the principles being learned in CHM 115 lecture. Prerequisite: CHM 113. Co-requisites: CHM 115L.	
CHM 115L: General Chemistry II: Lab	1 credit
A lab course designed to complement and support the principles being learned in CHM 115 lecture. Prerequisite: CHM 113L. Co-requisites: CHM 115.	
CHM 153: Chemistry Laboratory Equipment, Setup, and Use	3 credits
The chemistry laboratory equipment setup and use course (on campus 1 week – 40 hours) is designed to give students hands-on experience in performing chemistry experiments in the classroom. The course emphasizes proper application and handling of laboratory equipment in a classroom setting. Application of safety principles and procedures will be reinforced. Prerequisite: CHM 103.	
CHM 331: Organic Chemistry I	3 credits
A systematic study of the chemistry of carbon compounds. Topics include nomenclature, structure, synthesis, reactions, and analysis of aliphatic and aromatic compounds. Prerequisite: CHM 115. Co-requisites: CHM 331L	
CHM 331L: Organic Chemistry I: Lab	1 credit
Lab course to develop basic lab skills useful for synthesis of compounds, isolation of natural products, and study of reaction mechanisms. Prerequisite: CHM 115L. Co-requisites: CHM 331	
CHM 332: Organic Chemistry II	3 credits
Continuation of CHM 331. Topics include reaction mechanisms, kinetics, approaches to chemical synthesis, and qualitative analysis of organic compounds. Prerequisite: CHM 331. Co-requisites: CHM 332L	

CHM 332L: Organic Chemistry I: Lab	1 credit
Continuation of CHM 331L involving more complicated techniques for synthesis, instrumental analysis, and structure elucidation. Prerequisite: CHM 331L. Co-requisites: CHM 332	
CHM 360: Principles of Biochemistry	3 credits
Practical introduction to lab techniques used in biological preparations, analysis, and functional studies of proteins, carbohydrates, lipids, and nucleic acids. Prerequisites: CHM 332.	
CHM 461: Biochemistry I	3 credits
Study of the chemical basis for biological functions in living organisms. Topics include structure and function of proteins, carbohydrates, lipids, and nucleic acids. Prerequisite: CHM 332. Co-requisite: CHM 463	
CHM 462: Biochemistry II	3 credits
Continuation of CHM 461. Topics covered include molecular mechanism of genetics, biological energy production, and regulation of cell growth. Prerequisite: CHM 461.	
CHM 463L: Biochemistry: Lab	1 credit
Practical introduction to lab techniques used in biological preparations, analysis, and functional studies of proteins, carbohydrates, lipids, and nucleic acids. Co-requisite: CHM 360, CHM 461, or CHM 462.	
CHM 480: Methods of Teaching Science in the Secondary School	3 credits

Methods of instruction, organization, and presentation of content in chemistry to secondary school students. Topics include curriculum, stockroom organization, lab safety and liability, visual aid preparation, computer use in the classroom, and research issues in education. May not be applied to chemistry major. Prerequisite: CHM 115.

(CMP)

CMP 951: Comprehensive Exam	0 credits
Students will demonstrate comprehension of their program of study by completing a written comprehensive examination. Must be taken after the completion of all course work.	

Computer Information Systems (CIS)

CIS 180: Computer Application Modules	1 credit
Basic studies of applications of electronic data processing. Students may select from one-hour modules to meet their objectives. Modules include, but are not limited to	
▪ Word Processing ▪ Beginning Spreadsheet ▪ Beginning Database ▪ Desktop Publishing ▪ Intermediate Spreadsheet	

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

- Intermediate Word Processing
- Introduction to the Internet
- Accounting Applications
- Presentation Graphics

CIS 610: Security Policies, Standards and Procedures **3 credits**

In this course, students examine the role of security policies, standards and procedures in addressing business and technical risks. Using this framework, students develop a security governance report to evaluate compliance across the enterprise.

CIS 620: Design, Development and Evaluation of Security Controls **3 credits**

In this course, students transform high-level policies and procedures into quantifiable and measurable controls and mechanisms that enforce data and process integrity, availability and confidentiality.

CIS 630: Incident Response and Management **3 credits**

In this course, students identify and analyze the nature of security incidents, the source of potential threats and the methods used in incident management and mitigation. Students also evaluate technical and business issues which affect the actions of the enterprise in responding to a security incident.

Communications (COM)

COM 101: Introduction to Human Communication Theory **3 credits**

An overview of human communication theory and its relationship to responsible participation in personal, professional, and public settings. Includes application of course concepts through individual and collaborative learning exercises.

COM 125: Communications and the Media **3 credits**

Media history and theory are studied with an emphasis on the implications and impact of mass messages on meaning, culture, and society.

COM 150: History and Criticism of Visual Media **3 credits**

The history of visual art and its connection and influence on modern media are studied. Students gain an artistic vocabulary by becoming familiar with many kinds of visual art, by developing their skills in visual analysis, by increasing their understanding of aesthetic theory and applying that understanding in course presentations.

COM 230: Persuasive Theory **3 credits**

A study of the theory and practice of communication as it relates to influencing attitude and behavioral change. The course focuses on an historical overview of persuasive theory from its Classical beginnings to analyzing persuasive strategies and their use by contemporary practitioners. Examples for analysis are taken from advertising, public relations, religion, sales, politics, and propaganda.

COM 260: Introduction to Digital Media Production **3 credits**

Introduction to the theory, process, and procedure of electronic media production. Lecture and lab. Lab fee required.

COM 300: Writing for the Media **3 credits**

Students study the content, styles, and formats of media writing. The course emphasizes the differences in writing across diverse media modalities.

COM 310: Principles of Public Relations **3 credits**

An overview of theory and practice of public relations, media relations, promotion, research, and campaigns. An application of theory through problem solving and case study. Prerequisite: Junior or senior status or instructor's approval.

COM 314^A: Intercultural Communication **3 credits**

This course creates an awareness of the skills necessary to promote positive communication and relationships across cultural differences. Students will explore verbal and non-verbal communication behaviors. Other cultures are explored through an examination of demographics, family structure, religion, politics, education, social life, art, and literature. A Writing-Intensive course. Prerequisite: Junior or senior status or instructor's approval.

COM 320: Public Relations Writing and Design **3 credits**

The study of planning, producing, and evaluating written public relations messages for and from a variety of media including print, broadcast, and the web. Student writing assignments include news releases, newsletters, public service announcements, coverage memos, position papers, background papers, brochures, and reports and proposals.

COM 330: Visual Media and Storytelling **3 credits**

This course focuses on the elements that make up almost all storytelling. Each student is encouraged to discover and develop their unique voice as a writer and storyteller, while understanding the critical importance of working as part of a creative team. This course emphasizes the use of traditional storytelling, classic mythology and how these devices apply to contemporary media.

COM 340: Screenwriting **3 credits**

In the Screenwriting course students learn storytelling for the screen through a managed regimen of in-class and out-of-class experiences that emphasizes the essential mix of imagination and craft in writing. They will 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.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

COM 350: Cinematography and Set Design **3 credits**

This course will be an intensive exploration of the craft, technologies, and aesthetic principles of cinematography, lighting, and set design techniques. Lectures and in-class demonstrations will cover video formats, cameras, exposure, lenses and optics, lighting units, lighting placement, lighting control, camera support, and camera movement. Lab fee required.

COM 400: Current Issues in Communication **3 credits**

Special topics and current issues of interest to communication and media students are studied.

COM 410: Effective Ministerial Communications **3 credits**

The theory and practice of effective ministerial communications including preaching, writing, and teaching techniques that spread the gospel will be the basis of this course. An application of theory through problem solving and case study of current effective ministerial speakers. The student will learn the tools and preparation needed to communicate with a variety of audiences, to employ creative pedagogy that challenges and engages the audience, and to develop a message that is culturally relevant and biblically accurate.

COM 450: Audio Production Workshop **3 credits**

This course is designed for all students involved in digital media who want to be able to better understand the fundamentals of sound. The course will cover the basics of sound, use of microphones and digital recording and include lab projects utilizing the latest audio manipulating software. Students will gain knowledge of the key roles in the audio production environment. Lab fee required.

COM 460: Media Production and Editing **3 credits**

This course will follow 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 will be devoted entirely to a mastery of the editing software. The second half of the course will be devoted to the “why” we cut. Different editing theories will be explored including montage, fast cut, long take, jump cut, etc. Lab fee required.

COM 470: Production Management **3 credits**

This course explains how a movie is transformed from a screenplay to the screen. Students will learn how to break down a screenplay, organize a shooting schedule, create a budget, secure locations, find actors, hire crews, and communicate with unions. Students will also learn the art of storyboards by conceptualizing and rendering the drawings that will communicate continuity. Lab fee required.

COM 480: Media Production and Directing **3 credits**

The course utilizes techniques of directing, sound editing, lighting, and advanced editing programs. Several practical and written exercises lead to a short digital production. Students will spend time working with actors in front of the camera as well as composing shots to convey a story visually. Lab fee required.

COM 495: Senior Seminar **3 credits**

This capstone course examines in depth the concepts of Global Citizenship, Critical Thinking, Effective Communication, and Responsible Leadership, focusing on the ethical and intellectual challenges such concepts evoke for the individual. Students contemplate a values-based view of success, and critically assess the impact their GCU education has had on their future personal and professional lives.

COM 497: Internship **3 credits**

An opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisites: Senior status, admission to Communications program, and instructor’s approval.

Computer Science (CSC)

CSC 105: Introduction to Programming Languages **3 credits**

An introduction to higher-level programming languages. Topics include structured programming techniques, algorithm design, problem solving, program coding and program verification.

CSC 205: High Level Programming **3 credits**

A continuation of the concepts introduced in CSC 105 to include an in-depth study of a higher-level programming language. Topics include the use of dynamic variables and the pointers required to manipulate them. Prerequisite: CSC 105.

Design Studio (DGN)

DGN 205: Introduction to 3D Animation **3 credits**

This is an introductory course on the creation of elements for 3D animation using industry standard Maya software. Students will be introduced to the entire production pipeline of 3D animation: modeling, texturing, rigging, lighting, and rendering. Coursework is a combination of lecture, critique, and lab work. Maya software is required for the online course.

DGN 223: Advertising Design **3 credits**

An overview of skills needed to develop successful advertising campaigns. Coursework is a combination of lecture and lab work.

DGN 233: Graphic Design I **3 credits**

Study of the primary principles of design, type, and imagery, and their application to graphic design problems. Coursework is a combination of lecture and lab work. Students will complete work both by hand and with technology.

DGN 263: Digital Layout and Illustration **3 credits**

Study to develop technical and aesthetic proficiency in digital page layout and illustration programs.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

DGN 265: Web Design **3 credits**

Students develop the ability to plan a Web site and develop multiple design solutions for the needs of this media. Students learn the technical and aesthetic skills necessary for basic site creation and maintenance. Emphasis is placed on the student's ability to keep themselves current with the tools as they change over time. Programs used are industry standard within the design field.

DGN 333: Graphic Design II **3 credits**

Intensified study of typography and its use as a communications design tool. Continued study of the use of images, color and texture. Study of paper, ink and bindery methods, and the printing processes. Students will design and execute multiple projects using computer based tools.

DGN 360: 3D Modeling: Theory and Practice **3 credits**

Studying the tools to convert 2D hand drawings, photos and other references into 3 dimensional elements. Students will understand the terminology, tools and topology that the 3D animation industry uses. There is an emphasis on polygon modeling in hard surface and organic models in Maya for film. Maya software is required for the online course.

DGN 365: Computer Graphics **3 credits**

A study of the evolution of computer generated imagery from film, television and photography. This advanced course will explore today's global designers and understand the limitless possibilities of computer graphics. Students will mix all forms of digital visual media, from photographs, video stills, 3D animation and illustration to create still images for 2D in graphic design, ad design and print. Photoshop and Maya software is required for the online course.

DGN 433: Graphic Design III **3 credits**

A highly aesthetic and technical class where students bring all design skills together, including typography, illustration, photography, graphics and production planning. Course may be repeated for up to six hours of credit.

DGN 434: Graphic Design IV **3 credits**

Students plan and complete their professional portfolio and produce self-promotional pieces including resume, cover letter, and Web site. Development of job seeking and interview skills and evaluation of personal and professional goals. Prerequisite: DGN433.

DGN 455: 3D Animation **3 credits**

Students will learn the 12 principles of animation and apply it to specific animation assignments. Students will learn the process of animating a character in Maya from acting, camera, staging, blocking, and in-betweens to create short 3-second pieces that can be presented in a portfolio or demo reel. Students will also dissect shots from the major animation studios and analyze their work and their peers' work. Maya software is required for the online course.

DGN 465: 3D Animation for Film **3credits**

A highly aesthetic and technical class in which students bring all design skills together, including preproduction, graphic design, modeling, animation, texturing and rendering. Students will understand composition, timing and editing to create a short, time-based project. Maya software is required for the online course.

Dissertation (DIS)

DIS 955: Dissertation I **3 credits**

Students will prepare the first draft of the literature review for their dissertation. Drafts of chapters 1 and 2 of the dissertation will be prepared and approved by the dissertation committee chair. Prerequisite: CMP 951

DIS 960: Dissertation II **3 credits**

Students will complete and orally defend their dissertation proposal. Chapters 1 – 3 of the proposal will be approved by the dissertation committee and the Graduate School. Prerequisite: DIS 955

DIS 965: Dissertation III **3 credits**

Students will gather data and complete the analysis of their dissertation. Students will complete their dissertation. All chapters will be written/revised to reflect state-of-the-art scholarly knowledge. The completed dissertation will be orally defended and approved by the dissertation committee and the Graduate School. Prerequisite: DIS 960

Economics (ECN)

ECN 211: Microeconomic Principles **3 credits**

An introduction to the basic micro economic concepts of supply and demand, consumer choice, elasticity of demand, costs of production, market structures, and the social costs of economic activity. Prerequisite: MAT 120 or equivalent. Micro Economics is a prerequisite for Macro Economics.

ECN 212: Macroeconomic Principles **3 credits**

An introduction to basic macro economic concepts including measures of national output, national income accounting, unemployment, inflation, money and banking, and fiscal and monetary policy. Prerequisite: ECN 202, ECN 211, or equivalent.

ECN 363: Money and Banking **3 credits**

A general survey of financial institutions, the Federal Reserve System, the qualities of a sound monetary system, the theory and value of money, deposit insurance, and foreign exchange. Prerequisite: ECN 201 or ECN 212 and FIN 301.

ECN 407: Managerial Economics **3 credits**

This course studies those aspects of economics that enable managers to make profitable business decisions and maximize the value of their firms. Specific topics include supply and demand, sources of competitive advantage, pricing and production decisions, and the effects of social, political and technological factors on the decision-making process.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

ECN 425: International Trade and Finance **3 credits**

An overview of the international economy including the motivation for trade, trade patterns, barriers to trade, protectionist policies, exchange rates, foreign exchange markets, and exchange rate interventions. The evolving role and relevancy of such global institutions as the IMF, WTO, and World Bank are also examined. Prerequisites: ECN 201 or ECN 212; and FIN 301.

ECN 607: Managerial Economics **3 credits**

This course explores microeconomic principles and techniques of analysis for managerial decision-making. Topics include demand analysis, production planning, and product pricing. Prerequisite: MKT501 or its equivalent.

ECN 638: Growth Strategies **3 credits**

Growth Strategies examines the opportunities and challenges inherent in mergers, acquisitions, partnerships, and other types of strategic alliances. There is a focus on financial viability and integration issues involved in merger and acquisition activities. Students will learn to critically analyze costs, risks and potential gains of such growth strategies. Organic growth strategies will be presented along with a framework for determining when and where to pursue organic versus external growth options. Predatory versus collaborative growth strategies will also be examined.

Education Administration (EDA)

**EDA 529: Education Administration
Foundation and Framework** **3 credits**

This course orients students to the program, the field, and the Interstate School Leaders Licensure Consortium standards guiding them. It includes an introduction to creating a professional portfolio.

EDA 530: Educational Leadership **3 credits**

Upon completion of this course, educational leaders will possess an understanding of the complexity of being a leader, ranging from development of a vision for systemic change to demonstrating practical skills ensuring smooth day-to-day operations. This course meets the Interstate School Leaders Licensure Consortium (ISLLC) Standard #2.

EDA 531: Organizational Theory **3 credits**

This course provides a new paradigm for the school leader to apply the fundamental concepts of organizational theories and models to educational enterprises. This course meets the Interstate School Leaders Licensure Consortium (ISLLC) Standard #1.

EDA 532: Legal Issues in Education **3 credits**

Upon completion of this course, educational leaders will possess an understanding of the legal principles, along with the origin and development of laws governing American schools. This course addresses the Interstate Leaders Licensure Consortium (ISLLC) Standard #6.

EDA 533: Public School Finance **3 credits**

Because of the pervasive nature of school finance, this course responds to a portion of each of the six national standards of the Interstate Leaders Licensure Consortium (ISLLC). Upon completion of this course, the student will possess an understanding of the application of school finance topics related to education at the federal, state, and local levels; basic administrative theories, processes, and techniques; and major challenges in the operation of local schools.

EDA 540: The Principalship **3 credits**

Personnel management in educational organizations includes recruitment, selection, orientation, development, compensation, and evaluations. This course will focus on attracting and retaining a quality workforce in education. This course responds to all six of the Interstate School Leaders Licensure Consortium (ISLLC) Standards.

EDA 541: The Assistant Principalship **3 credits**

Assistant principals are educational leaders who have major responsibilities that promote the success of students and their activities. Five important areas will be covered during this course: 1) discipline and student safety, 2) student activities, 3) athletics, 4) student scheduling, and 5) Interstate Leaders Licensure Consortium (ISLLC) Standard #3.

EDA 550: Supervision and Instructional Leadership **3 credits**

Because of the pervasive nature of supervision and instructional leadership, this course responds to several of the six national standards of the Interstate School Leaders Licensure Consortium (ISLLC) but will focus on ISLLC Standard #2. Upon completion of this course, the student will possess an understanding for the application of 1) models and theories of supervision, 2) interpersonal and technical skills needed for supervision, and 3) tasks and functions of the supervisor.

**EDA 560: Curriculum Development
for School Improvement** **3 credits**

Upon completion of this course, educational leaders will possess the skills to direct, guide, stimulate, and put into effect curriculum changes and alignment. They will also understand the variety of components necessary to build a strong curriculum that will be flexible enough to adapt to a constantly changing world and withstand personal biases. This course responds to a portion of the Interstate Leaders Licensure Consortium (ISLLC) Standard #2.

**EDA 570: Action Research
in Education Administration** **3 credits**

This course is designed to provide a theoretical foundation and framework for action research. Special emphasis is placed on an examination of the basic principles of qualitative research methodologies, which will lead to the design and implementation of a peer-supported action research project. The student's research project will be personalized to his or her school.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

EDA 580: Internship in Educational Administration 3 credits

This supervised clinical internship will encourage a cooperative arrangement among the key stakeholders. Upon completion, the candidate will possess an understanding of the complexity of being a leader, ranging from development of a vision for systemic change to demonstrating practical skills ensuring smooth day-to-day operations.

EDA 590: Educational Leadership in Technology 3 credits

Upon completion of this course, the student will possess an understanding for the application of 1) financial, organizational, and implementation challenges of integrating technology into the educational community, 2) leadership strategies to integrate technology into the educational community, and 3) effective evaluation and assessment plans of current and future technology integration in the educational community. This course responds to several of the six national standards of the Interstate School Leaders Licensure Consortium (ISLLC) but will focus on the ISLLC Standard #3.

Education (EDU)

EDU 183: Exploring Education as a Career 3 credits

This course is designed for students who are considering teaching as a profession. By observation and participation, students experience working with children and young people, as well as many of the duties as a teacher. A practicum in K-12 classrooms is required.

EDU 273N: Children's Literature 3 credits

All types of children's literature from outstanding authors are surveyed through synopses and actual reading of children's books to acquaint the student with the best stories and poems for use with children. Methods of using these types of literature and the techniques of storytelling are also studied.

EDU 300: Teaching in a Pluralistic Society: Strategies for Multicultural Teaching 3 credits

This course introduces students to the major goals, principles, and concepts of multicultural education. Specifically, four central topics will guide the study: 1) clarifying key concepts and terminology; 2) discovering multiple perspectives in culture and history; 3) understanding cultural and individual differences in teaching and learning; 4) becoming a multicultural and effective teacher.

EDU 303^A/EDU 303N^A: Foundations of Education 3 credits

Students will study the historical, philosophical, and sociological influences which have shaped American education, the issues faced by educators today, and the challenges of the future which await persons now entering the teaching profession. The course is designed for students who have already committed themselves to a career in education or are exploring a career in education and includes a first phase observation in the K-12 classroom. A Writing-Intensive course. No Fingerprint Clearance necessary.

EDU 313/EDU 313N: Educational Psychology 3 credits

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.

EDU 363: Instructional Technology 3 credits

Emphasis is given to the selection, separation, evaluation, and utilization of various simple media elements as well as computer networking, multimedia, interactive video, and the Internet.

EDU 363N: Instructional Technology 3 credits

Students will study and utilize a variety of technologies such as computer software, hardware, networking, multimedia, interactive media, and the Internet in order to foster inquiry, collaboration, and interaction in classroom in order to meet the needs of a diverse student population

EDU 430N: Classroom Management 3 credits

Designed to allow the prospective teacher the opportunity to learn techniques involved in the successful management of a learning environment. Major emphasis is given to the establishment of a realistic discipline plan to manage student behavior and management techniques and strategies to maximize instructional time, classroom procedures, and physical space.

EDU 460N: Dynamics of Data-Driven Pedagogy 3 credits

This course will provide participants with a wide range of assessment strategies based on instructional outcomes. Emphasis will be given to alignment of educational objectives to standards and building both formative and summative assessments including rubrics to analyze student learning. Course content is strategically planned to enable participants to make informed educational decisions about student learning based on data. This course focuses on the principles and practices involved in various models of educational assessment, evaluation, and testing. Participants will develop and implement their own authentic assessments and evaluate results. Practicum hours – 15. Prerequisites: SED 420, SED 430, Fingerprint Clearance

EDU 473: Children's Literature 3 credits

All types of children's literature from outstanding authors are surveyed through synopses and actual reading of children's books to acquaint the student with the best stories and poems for use with children. Methods of using these types of literature and the techniques of storytelling are also studied.

EDU 519: The Engaged Mind 3 credits

To better understand thinking, an educator must research current knowledge of the human mind and learn to assess a student's ability to think. This course addresses all five core propositions of the National Board for Professional Teaching Standards (NBPTS).

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

EDU 520/EDU 520N: Classroom Management 3 credits

Designed to allow the prospective teacher the opportunity to learn techniques involved in the successful management of a learning environment. Major emphasis is given to the establishment of a realistic discipline plan to manage student behavior and management techniques and strategies to maximize instructional time, classroom procedures, and physical space.

EDU 521: Current Classroom Methods and Strategies 3 credits

A growing body of research shows that teacher effectiveness is the single most important school-based influence on student achievement. Today's educator responds to complex and diverse needs of students in each classroom. This course provides the foundations for instructional design along with the tools for instructional planning. The alignment of curriculum standards to instruction and assessment is a major focus in this course. Upon completion of this course, the student will have established a wide repertoire of methods and strategies that are research-based and easily modified to today's complex classroom.

EDU 523: Advanced Educational Psychology 3 credits

This study of the theories and principles of psychology that influence education addresses developmental, behavioral, and cognitive approaches to learning, motivation, instruction, and assessment.

EDU 529: Foundations and Framework 3 credits

This course orients students to the program, the field, and the National Board for Professional Teaching Standards (NBPTS) guiding them. It includes an introduction to creating a professional portfolio.

EDU 530: Educational Leadership 3 credits

Teachers should possess a repertoire of skills that will enable them to function comfortable and effectively in a changing learning environment. The course will provide teachers with an understanding of the complexity of being a leader in times of change. Teachers will develop a vision of systemic change and demonstrate practical skills for ensuring smooth day-to-day operations within their school.

EDU 532: Legal Issues in Education 3 credits

Teachers need to recognize potential legal issues, make informed judgments and decisions, and seek administrative and legal counsel when necessary. This course provides teachers with a basic understanding of the legal principles directing the American school system, along with the legal case origins determining current classroom guidelines.

EDU 549N: Dynamics of Data-Driven Pedagogy 3 credits

This course will provide participants with a wide range of assessment strategies based on instructional outcomes. Emphasis will be given to alignment of educational objectives to standards and building both formative and summative assessments including rubrics to analyze student learning. Course content is strategically planned to enable participants to make informed educational decisions about student learning based on data. This course focuses on the principles and practices involved in various models of educational assessment, evaluation, and testing. Participants will develop and implement their own authentic assessments and evaluate results. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

EDU 550: Technology Enhanced Instructional Design 3 credits

The purpose of this course is to introduce students to the theoretical foundations of technology enhanced instructional design and the designing and planning of technology enhanced instruction. This course meets International Society for Technology in Education (ISTE) Standards and the National Board of Professional Teaching Standards (NBPTS).

EDU 560: Curriculum Assessment for School Improvement 3 credits

Upon completion of this course, teachers will possess the skills to direct, guide, stimulate, and put into effect curriculum changes and alignment. Educators will also understand the variety of components necessary to build a strong curriculum that will be flexible enough to adapt to a constantly changing world. This course responds to the National Board of Professional Teaching Standards (NBPTS).

EDU 563: Instructional Technology 3 credits

Emphasis is given to the advanced utilization of research-based methodologies through various media elements as well as computer networking, multimedia, interactive video, and the Internet.

EDU 570/EDU 570N: Philosophical/Social Issues in Education 3 credits

This study of the historical, philosophical, and sociological influences upon which educational theories and practices are constructed addresses societal issues and future challenges facing educators involved in the system. No Fingerprint Clearance necessary.

EDU 571: Psychological Issues 3 credits

Psychological topics will focus on classical and modern theories of learning. Inherent in the course is a study of the most recent issues in educational psychology concerning the learner, the learning process, the learning situation, and research in educational psychology. Actual research drawn from realistic classroom situations will provide an opportunity for the practitioner to test the applicability of the theories.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

EDU 583: Teaching Reading in the Content Areas 3 credits

This course links reading skills across the curriculum through the use of instructional strategies and assessments. The use of textbooks, trade books, and electronic texts are explored with a focus on strategies that are relevant in every content area. This course meets the following International Reading Association (IRA) Standards: 1.1, 2.2, 2.3, 3.3, 4.1, 4.2, 5.1, 5.2, 5.3, and 5.4.

EDU 590^A: Educational Action Research 3 credits

This course will provide teachers with the theoretical foundation and framework for research in education. Special emphasis is placed on the examination of the basic principles of qualitative research methodologies that lead to the design and implementation of a peer-supported action research project.

EDU 614: Research and Writing 3 credits

Incorporating active learning principles within a theoretical context will be the essence of the course. The practitioner in the field will have the opportunity to explore one educational problem in-depth and one appropriate research methodology. The problem and methodology will be presented and conducted as a research project.

Elementary Education (EED)

EED 323/EED 323N: Curriculum and Methods: Science 3 credits

This course is designed to acquaint the elementary teacher with the curriculum and effective techniques for the teaching of science. The student is involved in planning instruction, employing science programs that are currently being used in the public schools, and using instructional models. This course includes laboratory experiences. Practicum hours – 15. Prerequisites: Fingerprint Clearance, EDU 303 or EDU 313, BIO course with a lab, and a CHM, GLG, or PHY course with a lab. EDU 363 is recommended.

EED 403/EED 403N: Curriculum and Methods: Mathematics 3 credits

The student is involved in the formulation of programs for the individual child to teach the theory and practice of elementary mathematics. Utilization of games in the classroom, manipulative materials, and mathematics curriculum in the elementary school are examined. Practicum hours – 15. Prerequisites: Fingerprint Clearance, EDU 303, and EDU 313.

EED 443/EED 443N: Curriculum and Methods: Literacy: Reading/Language Arts, K-3 3 credits

This is a school-centered practicum (to include decoding) designed to provide prospective teachers with teaching experience in reading over the length of one semester in a regular school classroom. This course will also focus on reading diagnostics, assessments, and strategies implemented with a single elementary student in a site-based reading lab. Practicum hours – 20. Prerequisites: Fingerprint Clearance and EDU 303.

EED 463/EED 463N: Curriculum and Methods: Social Studies 3 credits

This course is designed to assist the elementary teacher with methods of instruction, unit and daily lesson plan construction, materials and resources available, and current developments in the field. Laboratory experiences will include multicultural classrooms. Practicum hours – 15. Prerequisites: Fingerprint Clearance, EDU 303, EDU 313, and three credits of history.

EED 473/EED 473N: Curriculum and Methods: Literacy: Reading/Language Arts, 4-8 3 credits

This course is designed to teach and develop a coherent approach to fostering literacy in the classroom. Emphasis is placed on planning lessons in reading comprehension, literature, phonics, writing, oral language, vocabulary, and evaluation of learning. The course includes discourse theory as it pertains to the teaching of reading and writing. Laboratory experiences will include multicultural classrooms. Practicum hours – 15. Prerequisites: Fingerprint Clearance and EDU 303.

EED 480a/EED 480Na: Student Teaching: Elementary School 6 credits

The semester includes seminars in classroom management, assessment, and professional preparation. The student is assigned to an approved school to serve as a student teacher for a semester under the supervision of an experienced teacher. Prerequisites: Successful completion of all courses in POS and content area, senior status, a 2.8 GPA, and approval and placement by Office of Field Placement and Certification. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching.

EED 480b/EED 480Nb: Student Teaching: Elementary School 6 credits

The semester includes seminars in classroom management, assessment, and professional preparation. The student is assigned to an approved school to serve as a student teacher for a semester under the supervision of an experienced teacher. Prerequisites: Successful completion of all courses in POS and content area, senior status, a 2.8 GPA, and approval and placement by Office of Field Placement and Certification. All paperwork for student teaching must be submitted by the due date the semester prior to student teaching.

EED 503/EED 503N: Curriculum Theory and Methods: Mathematics 3 credits

This course is designed to acquaint the student with the current research related to the pedagogy of teaching mathematics. Curriculum formulation and implementation along with the utilization of manipulative materials and individualized games in the elementary classroom are addressed. Practicum hours – 15. Prerequisites: Fingerprint Clearance and EDU 570.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

EED 523/EED 523N: Curriculum Theory and Methods: Science **3 credits**

This course is designed to acquaint the student with science curriculum and effective techniques for the teaching of science. The student is involved in planning instruction, employing science programs that are currently being used in the public schools, and using research-based instructional models. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

EED 543/EED 543N: Prescriptive Reading Theory and Practicum **3 credits**

The focus of this course is on reading diagnostics, assessments, and strategies implemented with a single elementary student. Emphasis is also given to research-based systematic phonics instruction. Practicum hours – 20. Prerequisite: Fingerprint Clearance.

EED 563/EED 563N: Curriculum Theory and Methods: Social Studies **3 credits**

This course presents the current research-based curriculum developments and models of effective instruction used in the field. Emphasis is placed on the construction of unit and daily lesson plans, materials and resources with implementation in the elementary classroom. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

EED 565: Integrated Elementary/Middle School Language Arts and Social Studies **3 credits**

This course is designed to teach and develop a coherent approach to fostering literacy through the integration of social studies content in the elementary and middle school classroom. Emphasis is placed on the use of reading skills and strategies to help students access social studies content. Curriculum theory related to an integrated approach to teaching and learning is a primary focus.

EED 573/EED 573N: Curriculum Theory and Methods: Literacy: Reading/Language Arts **3 credits**

This course is designed to develop a coherent, research-based program fostering literacy in the classroom. The course includes discourse theory as it pertains to the teaching of reading and writing. Emphasis is placed on planning and delivery of lessons in reading comprehension, literature, phonics, writing, oral language, vocabulary, and evaluation of learning. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

EED 580a/EED 580Na: Student Teaching Internship: Elementary I **6 credits**

Students are required to fulfill an eight-week internship experience in a classroom with a certified teacher. This course must be taken immediately preceding EED 580b Elementary II Student Teaching.

EED 580b/EED 580Nb: Student Teaching Internship: Elementary II **6 credits**

Students are required to fulfill an eight-week internship experience in a classroom with a certified teacher. This course must be taken immediately following the 8-week EED 580a Elementary I Student Teaching.

EED 583: Advanced Elementary/Middle School Mathematics **3 credits**

Contemporary mathematics programs in relation to content, materials, and teaching strategies will be explored. Development of a math curriculum will enable K-8 students to gain mathematical competency according to their respective capabilities. Prerequisite: Elementary, Secondary, or Special Education Certificate.

EED 584: Advanced Elementary/Middle School Science **3 credits**

A personal view of science and how it has shaped the way we think and behave will be explored. A teaching philosophy will be derived from the discipline of science and the way students learn. Application to the classroom will be an integral aspect of the course.

Executive Fire Leadership (EFL)

EFL 620: Organization Theory and Behavior **3 credits**

This course examines organizations from a sociological perspective, considering structural issues, inter-organizational phenomena, and interactions between the organization and its environment. Topics include organizational design, organization culture, organization structure, organization learning, and large scale or complex organization change. Course draws heavily upon sociology, systems theory, economics, and anthropology.

EFL 621: Information Systems **3 credits**

Fire service leaders require a pragmatic methodology for study, analysis, and planning in order to assist their organization and personnel in adapting to the increasingly complex and rapidly changing world. This course provides the framework for organizational analysis and strategic planning for change, particularly technology-driven change. The course examines the new challenges stemming from increased use of technology and the rapid acceleration in the rate of change.

EFL 622: Public Policy **3 credits**

The focus of this course is on how public action takes place, what course(s) of action are available, and the implications, costs, and consequences of those actions. The Fire Service Executive of the future will require a more disciplined understanding of public policy. This course will be especially useful for individuals working in the public sector and will encourage a familiarity with public issues that will be useful for Fire Service Executives in making administrative or policy decisions. Further, this course will enhance the executives' sense of their own influence – in their work environments, their community, their profession, and in the broader realm of political life at the local, state, and national level.

*Campus/Off-site only | ^Writing-intensive course | ♦Fulfills Grand Experience requirement | *Fulfills Grand Experience Christian Studies requirement

EFL 623: Community and Human Service Delivery 3 credits

This course examines human services, such as the Fire/EMS services, from theoretical and practical positions. It examines underlying philosophies and values, planning and development of programs and systems, managing these programs and systems, and evaluating and altering them. The course will consider the relevance for receiving these services, e.g., age, ethnicity, sex, family status, and other related factors of the service recipients, as well as the belief systems, sociopolitical concerns, financial and organizational demands, and personal circumstances of the service providers.

EFL 624: Public Sector Finance 3 credits

This advanced introduction to the fundamentals of financial management emphasizes analysis of financial statements, organizational-departmental-divisional cash flows, taxes, the financial environment, bonds and their valuation, stocks and their valuation, and the cost of capital.

EFL 625: Public Sector Ethics 3 credits

This course examines major topics in professional ethics particular to the public sector. Topics include, but are not limited to, the responsibilities of organizations to personnel; the responsibilities of personnel to the employer; the responsibilities of supervisors to personnel and personnel to supervisors; economic issues in economic systems with the primary emphasis on capitalism; and social responsibilities of business, including quality of products or service, truth in advertising, environmental concerns, ethical standards for professionals, and what is involved in moral education.

EFL 626: Strategic Planning in Fire Science 3 credits

This course examines and defines the steps, concepts, theory, and value of comprehensive strategic planning. Students will participate in the formulation, financial development, operational management, and evaluation of currently utilized strategic plans and take part in the outline and design of a mock strategic plan.

EFL 627: Disaster Preparation and Crisis Management 3 Credits

Students will receive the preparation necessary to uniquely manage and make critical decisions regarding a major incident or disaster. The courses focuses on specialized decision-making processes involving analytical methods and information management; interaction with other agencies and effective coordination of roles and efforts within a structured command system offer the crisis manager decisions in an unstructured environment; major events that have happened to the fire service; and how to prepare for the unexpected, including how to be a strong leader dealing with instant life and death decision-making on the emergency scene.

EFL 628: Environmental Issues and Hazardous Management 3 credits

Students will learn about Fire Service's role in protecting the environment from damage; the potential environmental impact of various types of emergency incidents; the roles of various agencies in mitigating incidents that may be hazardous to the environment, including federal, state, and local laws, regulations, and ordinances; and planning, resource management, and other related issues.

EFL 629: Occupational Health and Safety 3 credits

This course covers management of an integrated fire service health and safety program; related national and local regulations and standards, medical management, physical fitness development and implementation of safety programs, statistical development and assessment, gaining workforce commitment, including related fire service health and safety issues; an organized approach to assisting the individual and/or organization through the crisis and back to equilibrium; practical approaches to psychology of stress and its relationship to physical well-being for health care professionals; and identifying and understanding stress patterns in relation to balanced living, mental aspects of performance, and mental conditioning.

EFL 630: Applied Fire Service Research 4 credits

Preparing the applied research project will allow the student to investigate and research a key issue or problem identified as important to his/her respective organization and the larger fire service in general. This is a capstone course in which the student will be able to translate a great deal of the knowledge and skills gained in the other MSEFSL course work into a comprehensive graduate level research study.

EFL 631: Legal Aspects of Fire Service 3 credits

This course discusses rules and regulations governing the fire service and how it affects the government, the fire department, and the community; practical approaches to legal issues that affect managers regarding duties, responsibilities, and authority; and reducing personal and departmental liability, including state-of-the-art standards to maximize safety and efficiency.

EFL 670: Contemporary Issues in Disaster Preparedness 3 credits

Provides students with the opportunity to explore several major contemporary issues in crisis management and disaster preparedness. Students will conduct independent research and present their findings on community preparedness, and the leadership and management of contemporary community emergencies and crises. Additionally, students will develop an informed position on a controversial issue and engage in debate with students who have taken the opposing position.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Emergency Management (EMM)

EMM 320: Emergency Management Organization 3 credits

The student will gain insight into the profession of emergency management, its history, principles, participants, functions, structure, and future. This course includes concepts related to accreditation of emergency management programs, professional associations, and professional credentials.

EMM 330^A: All Hazards Emergency Planning 3 credits

This course focuses on emergency management planning, types of plans, the major components of the planning process, the hazard assessment process, and the importance of personal disaster planning. A writing-intensive course.

EMM 335: Emergency Management Operations and Techniques 3 credits

The knowledge and practice gained in this course will provide the emergency manager and first responder with management and supervision skills and techniques that are specific to emergency management and to the agencies employing emergency managers. These skills and techniques of management are necessary for success in the emergency services environment.

EMM 340^A: Communications for Emergency Management 3 credits

The focus of this course will be on successful interpersonal communication skills, the difference between daily and emergency communication methods, and how to work with the media. A writing-intensive course.

EMM 380: Mitigation Planning in Emergency Management 3 credits

This course examines the process and principles of mitigation planning for emergency management, the benefits of mitigation, and the development and implementation of appropriate mitigation measures.

EMM 410[†]: Ethical Leadership in Emergency Management 3 credits

This course will provide focus on leadership with an emphasis on guiding and influencing emergency personnel and volunteers in an ethical manner during disasters while providing decision-based leadership.

EMM 425: Disaster Recovery and Business Continuation 3 credits

This course addresses disaster recovery and business continuity in public agencies and private companies, an explanation of federal guidelines for government continuity planning, and professional practices for business continuity planning in private companies.

EMM 433^A: Research Methodology 3 credits

This course helps students identify problems, review related literature, collect data, and measure objectives in the public safety environment. Students will apply analytical skills to emergency management-related research projects. A writing-intensive course.

EMM 435: Health, Shelter, and Evacuation Issues in Emergency Management 3 credits

This course examines how to address and respond to special emergency management issues in disasters including animal care, special needs populations, and evacuations.

EMM 440: Terrorism's Impact on Emergency Management 3 credits

An examination of the historical and political impact of terrorism on emergency management including examples of terrorist activity, summary of federal government efforts, and media coverage of terrorism.

EMM 445: Case Studies of Critical Incidents 3 credits

Case studies are utilized through the course to illustrate commonly encountered problems and issues in the management of human-caused and natural disasters. Incidents will be studied for the purpose of learning best practices and for the development of mitigation, response, and recovery plans.

EMM 490: Organizational Development and Change 3 credits

An overview of approaches to organizational development with emphasis in the practical aspects of changing public safety organizations to improve effectiveness.

EMM 495: Senior Capstone 3 credits

Identification of planning, preparation, and completion of a project to solve or research emergency management problems particular to a government, business, health care setting, or educational setting.

EMM 640: Emergency Planning and Management 3 credits

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 will be explored via case studies. The public sector roles in contingency planning and response are also discussed and assessed.

EMM 645: Disaster Medical Management I 3 credits

This course provides an in-depth evaluation of the medical and surgical management of complex problems in human-caused and natural disasters to better understand how community clinical practices may have to be modified to save human life.

EMM 650: Economic and Human Issues in Emergency Management 3 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.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [†] Fulfills Grand Experience Christian Studies requirement

EMM 655: Disaster Medical Management II **3 credits**

This course builds on the information presented in EMM 645 and provides an in-depth evaluation of the medical and surgical management of complex problems in human-caused and natural disasters to better understand how community clinical practices may have to be modified to save human life.

EMM 660: Law and Legal Issues in Emergency Management **3 credits**

This course analyzes the federal, state, and local legislation related to emergency management in various types of disasters. Guaranteed rights under the US Constitution and the legal and ethical application of measures within the parameters of these rights in emergency situations are also discussed.

EMM 665: Crisis and Continuity Management for Healthcare Personnel **3 credits**

This course covers emergency management planning as it is applied to health care. Students will review integrated health care processes in a community response to significant human-caused and natural disasters. The role of health care institutions and the enhancement of current practices to maximize existing and new resources to protect and save human life are also discussed.

English (ENG)

ENG 101^A: Academic Writing **3 credits**

A course in writing academic prose, including various types of essays, arguments and constructions. A Writing-Intensive course.

ENG 102^A: Research Writing **3 credits**

A course exploring various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. A Writing-Intensive course. Prerequisite: ENG 101.

ENG 103^A: Honors Composition **3 credits**

A course designed for students who have demonstrated good writing skills. Students will learn how to use a variety of research techniques and discourse styles to create proposals, arguments, and nonfiction articles. This course fulfills all freshman English requirements. A Writing-Intensive course. Prerequisite: Placement from the ACT/SAT scores.

ENG 200: Analysis of World Literature **3 credits**

A study of some diverse works in world literature. This course is an introduction to all advanced English course offerings. Students will also be introduced to methods of literary criticism and analysis. All students who plan to major or minor in English should earn a 3.00 or above in this course before taking any upper division English courses. Prerequisites: ENG 101 and ENG 102, or ENG 103.

ENG 201: Intermediate Grammar **3 credits**

A review of basic English syntax, form, and mechanics. The course also introduces principles of grammar and linguistics. Prerequisites: Grade of 2.00 or higher in ENG 101 and ENG 102, or ENG 103.

ENG 211: Persuasive Writing **3 credits**

Course description was not available at press time.

ENG 221: English Literature I **3 credits**

A survey of English Literature from the Old English Period through the Enlightenment. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 222: English Literature II **3 credits**

Continuation of ENG 221 covering the Romantic period through the Modern period. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 300: English Practicum **2 credits**

Guided practical experience in tutoring and evaluating writing. Prerequisite: English Teaching majors only or instructor's approval.

ENG 301^A: Advanced Composition **3 credits**

A course for students who wish to develop their skills in academic and nonfiction writing. A Writing-Intensive course. Prerequisite: Grade of 2.00 or above in ENG 101 and ENG 102, or ENG 103.

ENG 314: Advanced Grammar **3 credits**

A study of the syntax and mechanics of English grammar from contemporary linguistic perspectives. Prerequisite: Mastery of ENG 201 or diagnostic examination.

ENG 315: English in Its Social and Historical Settings **3 credits**

An exploration of the historical development of English and its variations across social contexts. Prerequisite: ENG 201 or instructor's approval.

ENG 324: Studies in Poetry **3 credits**

A course designed for students who are pursuing a major or minor in English or who wish to increase their understanding and appreciation of poetry. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 341: American Literature I **3 credits**

A study of outstanding authors, their works, and the literary movements from the Colonial Age to Romanticism (1850). Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 342: American Literature II **3 credits**

A survey of Realism, Naturalism, Modernism, and Post-Modernism in American fiction, drama, and poetry of the 19th and 20th centuries. Prerequisites: ENG 101 and ENG 102, or ENG 103, (and ENG 200 for English majors).

ENG 352: The Short Story **3 credits**

A study of the short story, its development, the different types, and an analysis of technique. Prerequisites: ENG 101 and ENG 102, or ENG 103.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

ENG 411^A: Creative Writing **3 credits**

A course for students who are particularly interested in writing fiction or poetry. May be repeated for a maximum of 6 credits. A Writing-Intensive course. Prerequisites: ENG 101 and ENG 102, or ENG 103.

ENG 413: The Novel **3 credits**

A study in the development of the novel which focuses primarily on the reading and discussion of 19th and 20th century British and American works. Prerequisite: Junior status.

ENG 421: Shakespeare **3 credits**

A study of major Shakespearean comedies and tragedies and of Shakespeare's development as a dramatist. Prerequisite: ENG 221 or junior status.

ENG 422 Major Authors **3 credits**

The course focuses upon the study of the works of a major author, with emphasis on his or her seminal works with suitable reference to his or her biography and other works of merit.

ENG 423 Literary Movement **3 credits**

A course that surveys the major works and figures of a literary movement, including examining that movement's historical and cultural context.

ENG 453: Christianity and Literature **3 credits**

This course explores the works of literature which address in some way Christian themes or Biblical events. The course will integrate Christian belief with literary study as participants examine how authors, both Christian and non-Christian, treat Christianity in their works. Prerequisite: Junior status.

ENG 471: Adolescent Literature **3 credits**

A course for students who wish to read and examine the literature being written for adolescents. Novels from a variety of subgenres will be studied and a variety of contemporary issues will be traced through adolescent literature.

ENG 480: Methods of Teaching English **3 credits**

Methods of instruction, organization, and presentation of content in English..

ENG 490^A: Senior Seminar **3 credits**

An exploration of English as a discipline. Students study the interpretations of literature and methodology of writing, including advanced research. Students consider membership in professional organizations and explore career opportunities in the teaching of English in middle and high school as well as in professions outside the field of education. A Writing-Intensive course. Prerequisites: Declared English major (Literature or Teaching) and senior status.

Entrepreneurship (ENT)

ENT 100: The Entrepreneurial Economy **3 credits**

This course is designed to enable students to recognize the unique opportunities and challenges faced by entrepreneurs in today's dynamic business environment and combine essential business and interpersonal skills for a successful career as an entrepreneur. Both the structure and dynamics underpinning today's entrepreneurial economy will be examined. Major topics areas will include the role of small business in the economy, how start-up firms compete for competitive advantage, and the 'mind-set' required to be a successful business owner. The course will underscore the importance of having a strong sense of personal values, and a healthy tolerance for risk taking.

ENT 250: Public Relations and Networking Skills **3 credits**

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.

ENT 345: Ready, Aim, Fire **3 credits**

This course provides an overview of entrepreneurship and teach the concepts and skills necessary to evaluate an idea and write a business plan. Selected topics in business law, finance, marketing, sales, and operations will be covered, specifically as they relate to entrepreneurship

ENT 350: Sales and Negotiation Skills **3 credits**

This course builds the skills and techniques required for successful negotiations with suppliers, buyers, contractors, employees, financial institutions, etc. The strategies and tactics required to negotiate win-win agreements even from a position of lesser power are covered. A negotiations simulation will provide an experiential learning opportunity for students.

ENT 351: Legal Aspects for Entrepreneurs **3 credits**

This course is designed to prepare students be aware of and comply with government policies, laws and regulations that impact small business operations. Major topics areas include contracts and leases, employment law, tax law, intellectual property and patents, litigation, and small claims court, and how to protect the ongoing operations and viability.

ENT 352: Entrepreneurship Experience I **3 credits**

This course provides student teams with the opportunity to compete in a simulation exercise that exposes them to the day-to-day challenges owners/managers face in a start-up environment. Decision-making skills and the ability to operate under conditions of uncertainty will be honed. Students will analyze and interpret dynamic economic, financial, and market factors in order to make sound business decisions using a technology-based business simulation exercise.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

ENT 353: Venture Capital **3 credits**

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 will focus on the more practical aspects of structuring transactions that add value for the firm, owners, and financial backers.

ENT 355: In the Game **3 credits**

In the Game drills down on the information learned in Ready, Aim, Fire, and will develop the functional area topics in more detail. Students will walk through each step of writing a business plan for a new venture and will develop a preliminary plan

ENT 365 The Big Win **3 credits**

The Big win focuses specifically on topics related to business expansion and raising funds. The business plans developed by the students will be analyzed using a specialty software package, allowing students to make the required refinements to their plans with the help of their instructor. This course will culminate with a final business plan that will be presented to a panel of corporate and faculty judges during the final residency. Project plans that are judged worthy of further development will have the potential to qualify for angel capital funding.

ENT 450: Social Entrepreneurship **3 credits**

This course examines the importance of societal wealth ventures, social responsibility, community outreach, and giving back to the community in order to ensure balance between private and societal interests. The concept of identifying social issues as new business opportunities is fully explored.

ENT 451: Special Market Sectors **3 credits**

This course examines the unique opportunities and challenges inherent in a number of special small business market sectors such as family-owned, professional, franchises, services, and import/exporting.

ENT 452: Entrepreneurship Experience II **3 credits**

This course is the capstone applications class where student teams will compete in a simulation exercise that exposes them to the day-to-day challenges owners/managers face in a start-up environment. Decision-making skills and the ability to operate under conditions of uncertainty will be honed. Students will analyze and interpret dynamic economic, financial, and market factors in order to make sound business decisions using a technology-based business simulation exercise.

ENT 453: Intrapreneurship and Innovation **3 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 will have the opportunity to participate in an experiential innovation project.

School Counseling (EPC)

EPC 535: Psychology of Learning **3 credits**

This course stresses the major contributions of learning theorists to understanding behavior. Attention is given to human learning and the applicability of learning theory to the educational process. Students are required to design, conduct, report, and evaluate a learning activity pertaining to a major theory of learning.

EPC 537: Appraisal of Children with Special Education Needs **3 credits**

This course is an introduction to appraisal techniques used to identify learning disabilities, such as interpretation of standardized achievement tests, descriptive statistics and data, mental ability and aptitude tests, preparation of individualized educational plans, and use of case study data in educational applications. It contains individual assessment processes that include (1) physical, mental, or emotional disability, (2) significant educational deficits, and (3) specific learning competency levels.³

EPC 639a: Internship in Counseling **3 credits**

This course involves supervised lab experiences in individual and group counseling with emphasis on personal counseling. Competence in counseling skills with varied types of human concerns is developed. This course is to be taken concurrently with one's work at a practicum site. The student must be involved in counseling activities and evaluation activities in the internship (practicum). A minimum of 300 clock hours of internship (practicum) occurring in a school counseling setting, with direct supervision from a site supervisor that also includes no less than 200 direct service clock hours with clients is required.

EPC 639b: Internship in Counseling **3 credits**

This course involves supervised lab experiences in individual and group counseling with emphasis on personal counseling. Competence in counseling skills with varied types of human concerns is developed. This course is to be taken concurrently with one's work at a practicum site. The student must be involved in counseling activities and evaluation activities in the internship (practicum). A minimum of 300 clock hours of internship (practicum) occurring in a school counseling setting, with direct supervision from a site supervisor that also includes no less than 200 direct service clock hours with clients is required.

Physical Education – Army (EPE)

EPE 105: Army Master Fitness **1 credit**

Every semester. Beginning instruction in physical conditioning. Three credits of physical fitness lab per week. May be repeated for credit.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

English as a Second Language (ESL)

ESL 410: Advanced Language Teaching Methodologies and Assessment

3 credits

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 and Materials Design

3 credits

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 Setting

3 credits

This exploration of English language variation across sociocultural context and time discusses implications for building culturally appropriate ways of interacting in professional settings.

ESL 420: English Linguistics

3 credits

This course is designed to familiarize students with emergent language, early linguistic development, and the fundamentals of linguistic theory, including the morphological, phonological, and syntactic structure of the English language as well as pragmatics, semantics, and issues in first and second language acquisition. Emphasis is placed on oral and written language development and the implications of this development on language, learning, curriculum, language structure, and an awareness of patterns of communication among cultures. Prerequisite: Admittance to the Teacher Education program.

ESL 423/ESL 423N: SEI English Language Teaching: Foundations and Methodologies

3 credits

Through this course the historical, legal, theoretical, and sociological foundations of programs of instruction for non-English language background students are presented. The study of models, prototypes, and methodologies for ESL instruction is included. Practicum hours – 10. Prerequisites: Fingerprint Clearance.

ESL 433/ESL 433N: Advanced Methodologies of Structured English Instruction

3 credits

In this course students continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Instruction 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. Students will identify strategies to promote English language development and improve student achievement. They will plan, deliver, and evaluate instruction for English Language Learners. Practicum hours – 15. Prerequisites: Fingerprint Clearance and ESL 423.

ESL 480: Internship in ESL

3 credits

The student is assigned to an approved, experienced teacher or coordinator of programs for ESL for four weeks. The internship is individualized, and arrangements can be made based on student needs. Prerequisites: ESL 414, ESL 420, and ESL 423.

ESL 505: SEI Foundations and Methodologies

1 or 3 credits

This course familiarizes students with 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. Students will identify strategies to promote English language development and improve student achievement. They will plan, deliver, and evaluate instruction for English Language Learners.

ESL 510: Advanced Language Teaching Methodologies and Assessment

3 credits

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 523 or concurrent enrollment.

ESL 511: Language Teaching Curriculum and Materials Design

3 credits

This course integrates general school curriculum, materials, and the specific English language teaching goals with actual design and rendering of instructional materials. Prerequisite: ESL 423.

ESL 514: English in its Social and Historical Setting

3 credits

This exploration of English language variation across sociocultural context and time discusses implications for building culturally appropriate ways of interacting in professional settings.

ESL 520: English Linguistics

3 credits

This course is designed to familiarize students with emergent language, early linguistic development, and the fundamentals of linguistic theory, including the morphological, phonological, and syntactic structure of the English language as well as pragmatics, semantics, and issues in first and second language acquisition. Emphasis is placed on oral and written language development and the implications of this development on language, learning, curriculum, language structure, and an awareness of patterns of communication among cultures.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

ESL 523/ESL 523N: SEI English Language Teaching: Foundations and Methodologies **3 credits**

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. Students will be instructed in immersion strategies and the use of assessment data. The content of this course correlates with the NBPTS English as a New Language Standards, Standard I: Knowledge of Students, Standard III: Knowledge of Culture and Diversity, Standard VIII: Learning Environment, Standard IX: Assessment, Standard XI: Linkages with Families. Practicum hours – 10. Prerequisite: Fingerprint Clearance.

ESL 530: Internship in ESL **3 credits**

This course is specifically designed to aid teacher understanding of the nature of language, the processes of language use, and a descriptive grammar of English.

ESL 533/ESL 533N: Advanced Methodologies of Structured English Instruction **3 credits**

In this course students continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Instruction 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. Students will identify strategies to promote English language development and improve student achievement. They will plan, deliver, and evaluate instruction for English Language Learners. Practicum hours – 15. Prerequisite: Fingerprint Clearance and ESL 523.

Exercise Science (EXS)

EXS 295: Clinical Instruction in Athletic Training I **5 credits**

This course is designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the information learned in Care and Prevention of Athletic Injuries and First Aid and Safety. The student will be assigned to an “Approved Clinical Instructor” (ACI) who will supervise the student on a daily basis through constant visual and auditory interaction and provide feedback to the student on his/her progression. Prerequisites: HLT 270, EXS 314

EXS 314: Care and Prevention of Athletic Injuries **3 credits**

A course designed to provide the student 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 of the prevention of injury. Co-requisite: EXS 314L.

EXS 314L: Care and Prevention of Athletic Injuries Lab **1 credit**

A laboratory course designed to complement and support the principles taught in EXS 314. Co-requisite: EXS 314

EXS 324: Recognition and Evaluation of Athletic Injuries **3 credits**

A course covering the evaluation of athletic injuries through practical skills of palpation of bony and soft tissue structures, assessing range of motion, neurological testing, and special tests for primary joints and areas of the body. Prerequisites: EXS 314 and BIO 160 or BIO 201. Co-requisite: EXS 324L

EXS 324L: Recognition and Evaluation of Athletic Injuries Lab **1 credit**

A lab course designed to complement and support the principles taught in EXS 324. Co-requisite: EXS 324

EXS 340: Physiology of Exercise **3 credits**

A study of the effects of exercise on the body. It includes the study of responses and adaptations to exercise at the systemic as well as the subcellular level. Two-and-one-half credits lecture, one-half credit lab. Prerequisites: HLT 253 or BIO 160 or BIO 201 and BIO 202. Co-requisite: EXS 340L.

EXS 340L: Physiology of Exercise Lab **1 credit**

A lab course designed to complement and support the principles taught in EXS 340. Co-requisite: EXS 340.

EXS 335^A: Kinesiology **3 credits**

Analysis of human movement, integrating knowledge of the skeletal, muscular, and neurological systems with the effects of gravity, friction, internal and external forces, and the effects of motion on function, including the application of these factors to various types of physical skills. A Writing-Intensive course. Prerequisites: BIO 160 or BIO 201. Co-requisite: EXS 335L. Recommended: PHY 101 or PHY 111 (may be taken concurrently). Co-requisite: EXS 335L

EXS 335L^A: Kinesiology Lab **1 credit**

A lab course designed to complement and support the principles taught in EXS 335. Co-requisite: EXS 335

EXS 360: Strength and Conditioning **3 credits**

The study of the physiological responses to exercise, exercise techniques, exercise program design for anaerobic and aerobic exercise, exercise prescription principles and organization and administration of strength and conditioning facility. This course is designed to prepare students for National Strength and conditioning association (NSCA) Strength and Conditioning Specialist (CSCS) certification exam and personal training certificate. Prerequisites: BIO 160 or BIO 201

EXS 365: General Medicine/Pharmacology **3 credits**

Covers the competencies related to recognition, detection and referral and understanding treatment approaches for medical condition and disabilities associated with the physically active. These competencies covered are related to the derma, head, face, thorax, abdomen, eyes, ears, nose and throat. The student will also learn pharmacologic applications and governing pharmacy regulations relevant to treatment of injuries, illnesses and diseases. Prerequisites: EXS 314

*Campus/Off-site only | ^AWriting-intensive course | [♦]Fulfills Grand Experience requirement | [‡]Fulfills Grand Experience Christian Studies requirement

EXS 383: Measurement in Physical Education **3 credits**

A study in tests and measurements in physical education. The course covers data analysis techniques for test evaluation, test construction, and grading; it also addresses tests of fitness and sports skills. Prerequisites: PED 246 and four credits of Professional Activities.

EXS 385: Therapeutic Modalities **2 credits**

A study of various therapeutic modalities that aid in the healing process of injuries. The course will cover the theory behind and proper use of these modalities with lab experience. Prerequisites: EXS 314. Co-requisite: EXS 385L

EXS 385L: Therapeutic Modalities Lab **1 credit**

A lab course designed to complement and support the principles taught in EXS 385. Co-requisite: EXS 385

EXS 395: Clinical Instruction in Athletic Training II **5 credits**

This course is designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge acquired in Evaluation of Athletic Injuries. The student will be assigned to an "Approved Clinical Instructor" (ACI) who will supervise the student on a daily basis through constant visual and auditory interaction and provide feedback to the student on his/her progression. Prerequisite: EXS 295 and instructor's approval.

EXS 414^A: Advanced Athletic Training **3 credits**

This course covers content specific to the upper level athletic training student, including respiratory conditions and diseases, joint mobilizations, therapeutic massage, research design and presentation, resume development, and review for the NATABOC exam. A Writing-Intensive course. Prerequisites: EXS 314 and EXS 426

EXS 424: Athletic Training Administration **3 credits**

This course deals with the organization and administration of an athletic training program. Topics include program and human resource management, budgeting and inventory management, facility design, information management, insurance and legal considerations, and ethics in athletic training. Prerequisite: EXS 314.

EXS 426: Theory of Prescribing Exercise **3 credits**

The specific and applied use of exercise in prevention of injury, improvement of performance, and recovery from disability and dysfunction. Included are specific exercise routines, muscle testing, kinesiological principles, history and scope of rehabilitating exercise, abnormal clinical kinesiology, examination procedures, and reconditioning of specific disorders. Prerequisites: BIO 201 or BIO 160 and EXS 340. Co-requisite: EXS 426L

EXS 426L: Theory of Prescribing Exercise: Lab **1 credit**

Practical application of exercise prescription and rehabilitation. Designed to complement and support principles being taught in EXS 426 lecture.. Prerequisites: BIO 201 or BIO 160 and EXS 340. Co-requisite: EXS 426

EXS 494: Clinical Instruction in Athletic Training III **5 credits**

This course is designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge acquired in the prerequisite classes. The student will be assigned to an "Approved Clinical Instructor" (ACI) who will supervise the student on a daily basis through constant visual and auditory interaction and provide feedback to the student on his/her progression Prerequisites: EXS 395 and instructor's approval.

EXS 495: Clinical Instruction in Athletic Training IV **5 credits**

This course is designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge learned in prerequisite classes. The student will be assigned to an "Approved Clinical Instructor" (ACI) who will supervise the student on a daily basis through constant visual and auditory interaction and provide feedback to the student on his/her progression Prerequisites: EXS 494 and instructor's approval.

EXS 498A: Internship A **1 credit**

The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

EXS 498B: Internship B **2 credits**

The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

Family Studies (FAM)

FAM 341: Developmental Psychology **3 credits**

Identification of the major theories and research in child development and their application to parenting children from infancy through the teen years.

FAM 430: Psychology of Gender **3 credits**

A study of the psychology of gender and gender differences, theories of origins, the function of gender for individuals and society, and how gender affects individuals and relationships.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

FAM 432: Marriage Enrichment **3 credits**

An investigation into the elements involved in choosing a mate. Also addressed are understanding a mate's needs, strengths, and weaknesses and fostering healthy marital relationships, including physical unity and sexual fulfillment, typical problems related to sexual behavior, and strategies for enhancing sexual intimacy. Support of sexuality in marriage from a distinctly Christian point of view.

FAM 435: Parenting **3 credits**

Explores the principles of good parenting and their application toward successfully raising children in a modern, consumer-driven society.

FAM 440: Personality **3 credits**

An exploration of Biblical principles of leadership and Adlerian psychology that address how personality is shaped through birth order, early memories, love languages, and personality types.

Finance (FIN)

FIN 301: Fundamentals of Business Finance **3 credits**

A 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 211 and ACC 212.

FIN 402: Intermediate Finance **3 credits**

A study of the application of financial techniques and principles to case studies in corporate financial management. The case study approach involves problem determination, identification of alternative courses of action, qualitative and quantitative analysis, and decision-making. Several major topic areas in financial management will be covered. Prerequisite: FIN 301.

FIN 425: International Trade and Finance **3 credits**

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. Prerequisite: FIN 301.

FIN 426: Investments and Portfolio Management **3 credits**

This course studies stocks, bonds, and other investment vehicles, and their application in investment portfolio management. The securities market and trading procedures will be discussed. 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 be discussed.

FIN 428: Advanced Financial Strategies **3 credits**

This course examines contemporary issues and strategies related to sources of capital funds for both small and large companies. The course will examine issues related to mergers, acquisitions, leveraged buyouts, and IPOs in corporate finance. The growth of the venture capital market will be discussed, and students will gain an understanding of the risks associated with venture capital financing.

FIN 434: Ethics and Values in Corporate Finance **3 credits**

This course discusses the ethical considerations that come into play when managers face conflicting financial interests. The case-study method will be used to provide students with a values-based foundation on how to react to the continuous pressure to report growth in sales and profits. Significant regulatory reforms enacted during recent years, including the Sarbanes-Oxley Act will be examined.

FIN 501: Financial Analysis **3 credits**

A course designed for students who have not had finance in their undergraduate work or for those who desire a refresher in finance. Topics covered include financial analysis, financial planning, asset valuation, capital structure, time value of money, and working capital management. Prerequisite: ACC 501.

FIN 608: Managerial Finance **3 credits**

Students study the finance function within the modern corporation. Emphasis is placed on how capital markets work and how management actions impact determining security values within capital markets. Topics include financial analysis, working capital management, capital budgeting, and capital structure. Prerequisite: FIN 501.

FIN 624: Management of Working Capital **3 credits**

This course studies the management of cash, accounts receivable, inventory, and short-term liabilities. Outlets for the investment of short-term funds in the money market, as well as potential sources of short term borrowing, are identified and discussed. Prerequisite: FIN 501.

FIN 626: Investments **3 credits**

Students study stocks, bonds, derivatives, and their application in portfolio management as well as securities markets and trading procedures. Portfolio theory is developed and emphasized. Material in this course is applicable to both professional portfolio management and individual investment decisions. Prerequisite: FIN 501.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

FIN 634: Balancing Conflicting Financial Interests**3 credits**

Balancing Conflicting Financial Interests explores the challenges faced by managers, investors, and corporate boards and the tremendous pressures they are under to report sales growth and strong financial results. Topics include revenue measurement and recognition, provisions for uncertain future costs, asset valuation, and related party transactions. The SOX Act is examined relative to compliance and internal control structures. The course also examines financial and corporate issues that require a balancing of conflicting interests such as outsourcing and downsizing.

Foreign Language (FLA)

FLA 480: Foreign Language Teaching Methods **3 credits**

This course studies the analysis and description of second language learning specific to the targeted language; evaluation procedures; methods and trends of teaching a modern foreign language. Prerequisites: SPA 312 or GER 312 or FRE 312 or instructor's approval.

Geography (GEO)

GEO 121: World Geography **3 credits**

A study of the physical environment and of the relationship of humanity to each of the major geographic areas of the world.

Geology (GLG)

GLG 101: General Geology **3 credits**

An introduction to physical and historical geology with an emphasis on the geology of Arizona. The relation of geology to man's culture and economic development is stressed. Co-requisite: GLG 101L

GLG 101L: General Geology: Lab **1 credit**

A lab course designed to complement the topics covered in the geology lecture. Co-requisite: GLG 101

History/Social Science (HIS)

HIS 103: Early American History **3 credits**

A study of the history of the United States from pre European contact through the post Civil War reconstruction period which ended in 1877.

HIS 104: Recent American History **3 credits**

A study of the history of the United States from 1877 through the beginning of the twenty-first century.

HIS 107: World History before 1500 **3 credits**

A survey of the major events, personalities, movements, and ideas in world civilization from the prehistoric era to 1500 CE. This course focuses on the key political, intellectual, scientific, social, economic, and cultural changes that occurred in world civilization. Students will gain an understanding of the social forces and trends in social, religious, political, and philosophic thought that laid the foundations of the modern world.

HIS 108: World History after 1500**3 credits**

A survey of the major events, personalities, movements, and ideas in world civilization after 1500 CE. This course focuses on the key political, intellectual, scientific, social, economic, and cultural changes that occurred in world civilization. Students will gain an understanding of the social forces and trends in social, religious, political, and philosophic thought that laid the foundations of the modern world.

HIS 200: Christian History**3 credits**

The history of the church from Christ to modern times and the current status of the American Church, and its particular denominational derivations, will provide historical perspective of Christianity. The student will examine the relationship between Christianity and culture in order to answer how and why the political and social, and intellectual traditions in American culture shaped Christianity and were, in turn, shaped by Christianity. Students will be able to explain the significant ideas, movements, and people associated with the history of Christianity.

HIS 231: American Military History**3 credits**

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.

HIS 246^A: History and Historians**3 credits**

An exploration of the historical discipline. Students will examine the meaning and interpretations of history and its methodology. Required for all history majors and minors. A Writing-Intensive course. Prerequisites: Six credits from the following: HIS 103, HIS 104, HIS 107, or HIS 108, or instructor's approval.

HIS 303: The History of Christianity in America **3 credits**

An examination of the Protestant and Catholic traditions as they evolved in the United States with particular emphasis given to the reciprocal role of religion and politics as formative cultural influences that contributed to the shape and development of social and intellectual institutions in America. Prerequisites: HIS 103, HIS 104, and HIS 246 or instructor's approval.

HIS 309: Civil War and Reconstruction **3 credits**

An examination of the causes, conduct and consequences of the American Civil War and reconstruction. Prerequisites: HIS 103 and HIS 246, or instructor's approval.

HIS 317: Studies in the Non-Western World **3 credits**

A study of the non-western world. Geographic areas studied will vary. This course may be repeated for credit. Prerequisite: Three semester credits of history or instructor's approval.

HIS 319: History of the Modern Middle East **3 credits**

A political, cultural, and economic history of the Middle East since 1914.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

HIS 330: The 20th Century World **3 credits**

A study of 20th century Europe which includes World War I, the Bolshevik Revolution, the rise of Fascism, World War II, the Cold War, the Common Market, and the breakup of Communism in Eastern Europe.

HIS 333: Early Modern Europe **3 credits**

A study of changing European institutions in the age of the Renaissance. The rise and various manifestations of humanism; the religious and political revolt against Rome; the Catholic/Counter Reformations; the rise of nationalism and capitalism. Prerequisite: HIS 107.

HIS 343: Colonial and Revolutionary America **3 credits**

This course examines the political, economic, social, and cultural history of the American colonies from initial contact to the Revolutionary War. Prerequisites: HIS 103, HIS 104, and HIS 246, or instructor's approval.

HIS 345: Modern America **3 credits**

A political, economic, and cultural history of the United States in the twentieth century, with a particular focus on the post WWII era. Prerequisites: HIS 103, HIS 104, and HIS 246, or instructor's approval.

HIS 352: History of England to 1688 **3 credits**

A study of the origin and the development of the English people, with particular attention given to their political, social, economic, and cultural institutions and their interaction with continental Europe. Prerequisites: HIS 107 and HIS 246, or instructor's approval.

HIS 367: Studies in Twentieth Century Europe **3 credits**

A study of 20th century Europe which includes World War I, the Bolshevik revolution, the rise of Fascism, World War II, the cold war, the Common Market, and the breakup of communism in Eastern Europe. Prerequisites: HIS 108 and HIS 246, or instructor's approval.

HIS 413: Russian History **3 credits**

A study of the Russian peoples and their rulers from the earliest times to the present. Prerequisites: HIS 107, HIS 108, and HIS 246, or instructor's approval.

HIS 416: American Diplomatic History **3 credits**

The diplomatic history of the United States from independence to the present. A major emphasis is given to United States diplomacy and foreign policy since World War I. Prerequisite: Six hours of history and/or political science or instructor's approval.

HIS 440: United States since 1945 **3 credits**

A political, economic, and cultural history of the United States in the twentieth century, with a particular focus on the past WWII era. Prerequisites: HIS 103, HIS 104, and HIS 246, or instructor's approval.

HIS 452: History of Japan **3 credits**

This course is a survey of the social, cultural, and economic history of Japan from the 1850s to the present.

HIS 457: China in the 20th Century **3 credits**

This course is a survey of the history of China from the Revolution of 1911 to the present. Topics include the rise of Chiang Kai-shek and the Nationalists, China's experience in World War II, the rise of Mao Zedong and the Communist Party, the Great Leap Forward, the Cultural Revolution, and the reforms of Deng Xiaoping.

HIS 498: Advanced Topics **3 credits**

Topics of interest to historians not covered in depth in other courses will be offered. Prerequisite: Instructor's approval.

Health Education (HLT)

HLT 110 Introduction to the Health Professions **2 credits**

Introduction to the roles and responsibilities of medical and allied health care professionals. Focus is also placed on the teamwork necessary to effectively provide the highest quality patient care.

HLT 201: Medical Terminology **2 credits**

This course covers the language of medicine that will be used as a foundation for understanding the courses to follow. It will include pronunciation, definition, usage and origins of medical terms. Pathology and medical terms in other languages are also presented. With these skills the student will be able to interpret and communicate in medical terms.

HLT 270: First Aid and Safety **3 credits**

Designed to develop the ability to administer emergency treatment for first responders. Upon successful completion of this course, students will receive American Red Cross Standard First Aid and CPR certification. Also a study of safety and its importance in home, work, and recreational settings.

HLT 306: Advanced Patient Care **3 credits**

This course offers an advanced approach to patient care, patient education, and patient management within the healthcare 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. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 308: Risk Management and Health Care Regulations **3 credits**

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

This course addresses the concerns of every health care professional regarding legal responsibility, workplace safety, and the health care facility's obligation to provide protection from injury for patients, their families, and staff. The institution must also be protected from accidental injury costs. This is the purpose of a Risk Management department. Federal, State, County, and City statutes that regulate the administration of safe health care are discussed. At the end of this course the student should be able to explain his part as a health care professional in the ethical and legal responsibilities of Risk Management. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 310V: Spirituality in Health Care **3 credits**

This course explores the concept of spirituality as it relates to the role of the hospital, the health care provider and the patient. Since illness and stress can amplify spiritual concerns and needs, healthcare professionals are in a unique position to assist the patient/client in meeting those needs. This course explores the relationship between healthcare professionals and those they serve. Topics include understanding the components of a Healing Hospital, evaluating the caregiver's role in giving care, the caregiver's need to care for self, dealing with grief, the role of prayer in health care, and spiritual needs of patients and families dealing with chronic and acute illnesses.

HLT 312 Ethics for Health Care Professionals **3 credits**

This course, designed for health care professionals (providers, educators, and managers), introduces the student 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 (paternalism, informed consent to therapy, participation in research); dilemmas of life and death (euthanasia, abortion, transplants, gene therapy, care for the dying); 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 a part of this course. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 314 Health Care Systems **3 credits**

The content of this course is designed to impart an understanding of the forces shaping the present and future health care delivery system. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 315: Interview/ Admission Needs/ Professionalism **1 credits**

Development of interviewing and professional presentation skills through the study of various principles and practice within the class. Students will also investigate the admission requirements related to graduate level studies and prepare a quality resume or CV

HLT 316: Spanish for Healthcare Professionals **3 credits**

This course focuses on providing students with knowledge of the basic structures of the Spanish language, and the specialized medical vocabulary needed to communicate effectively with Spanish-speaking patients in a variety of realistic health care situations in the course of their daily work. Cultural studies emphasize the health beliefs of Spanish-speaking countries close to the United States and Spanish communities within the United States. This course is appropriate for all health-related disciplines.

HLT 322: Medical Ethics **3 credits**

An introduction to medical ethics which examines several approaches to ethics within the interrelated contexts of medicine, health care and the law. Topics investigated may include: professional patient relationships; institutional and social settings of care delivery; informed consent, confidentiality, and truth-telling; abortion; critically ill neonates; death and dying; mental illness; human experimentation; resource allocation; and justice and health care.

HLT 324: 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. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 335: Polysomnography/Sleep Disorders **3 credits**

This course provides an overview of the history of sleep medicine, normal sleep physiology, effects of the sleep-wake stage, sleep disorders and abnormal sleep physiology, an introduction to polysomnography (including patient interaction, sensor and lead placements, and instrumentation), application of respiratory care treatment modalities, patient testing and sleep staging, arrhythmia recognition and other physiologic events, and data acquisition. Prerequisite: Enrollment in BS in Respiratory Care

HLT 340: Quality Improvement in Respiratory Health Care **3 credits**

Introduction and evaluation of current approaches to assessing risk and improving health care quality through the practice of continuous quality improvement. Focuses on conceptual understanding and experiential learning. Prerequisite: Enrollment in BS in Respiratory Care.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

HLT 362: Applied Statistics for Health Care Professionals **3 credits**

This introductory course on statistical concepts emphasizes applications to health care professions. The course is designed to prepare students to interpret and evaluate statistics and statistical methods used in published research papers and to make decisions about the appropriateness of specific statistical methods in a variety of settings. Areas of emphasis will include introduction to analysis of variance, regression, and graphical presentation; experimental design; descriptive statistics; sampling methods; z, t, and chi-square. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 382: Principles of Public Health **3 credits**

A study of the public agencies and their contribution to the health of the community. Also includes fundamentals, philosophy, history, and functions of public health services.

HLT 383: Drug Abuse Seminar **3 credits**

This course explores the problem of drug abuse and approaches toward solutions of those problems. Topics include pharmacology and epidemiology of drug use; psychological, legal, social, and cultural implications; and principles of program planning.

HLT 410: Respiratory Care of the Critically Ill **3 credits**

This course focus is on the advanced medical and respiratory care of the critically ill adult patient. Emphasis is placed on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac and renal patients. Prerequisite: Enrollment in BS in Respiratory Care.

HLT 418 Trends and Issues in Health Care **3 credits**

Trends and Issues 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; changing health care roles. The study of these issues examines the impact on health care delivery systems in our society. Prerequisite: Enrollment in BS in Medical Imaging Sciences; enrolment in BS in Respiratory Care; or completion of all coursework in BS in Health Sciences except HLT 450 and HLT 490

HLT 423: Health Administration **3 credits**

This course emphasizes administrative tasks and techniques for use in the commercial health industry. Topics include budget and finance, organizing and promoting health, and business, administrative, and ethical decision-making in a health setting.

HLT 480: Methods of Teaching Health **3 credits**

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.

HLT 490: Professional Capstone Project **3 credits**

Content is designed to aid in the development of inquiry and research skills. Learning research skills and conducting research projects benefits the individual and the profession. The individual benefits by learning new knowledge and skills; the profession benefits by adding to the professional body of knowledge. Prerequisite: Enrollment in BS in Health Sciences, BS in Medical Imaging Sciences, or BS in Respiratory Care

HLT 496: Environmental Health **3 credits**

A study of your personal health and how it is affected by environmental factors and health risks related to the environment on personal, community, regional, national and global levels. Topics include air, water, waste, disease, toxicology, and occupational health and environmental health planning. Prerequisite: BIO 160

HLT 497A: Internship in Health Education: A **1 credit**

The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

HLT 497B: Internship in Health Education: B **2 credits**

The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

Health Systems Management (HSM)

HSM 301: Principles of Health Care Management **3 credits**

This course provides a survey of the health care industry in general, including industry value chain analysis, funding mechanisms, and governmental regulation. The course also examines the strategic decisions and managerial skills needed to effectively lead health care organizations.

HSM 402: Health Care Economics and Finance **3 credits**

This course provides students with an overview of both the macro-economic environment of the health care industry segment, as well as the principal financial mechanisms in place across the U.S. health care industry. It emphasizes the critical financial issues facing the industry, and practical financial analysis skills that have immediate application within the industry. Prerequisites: ECN 212 and FIN 301.

HSM 418: Ethical Concerns in Health Care **3 credits**

This course is an introduction to the challenges of ethical decision-making confronted in the health care industry. Topics include euthanasia, treatment protocols, quality of care, product utilization, and legal/regulatory concerns. Prerequisite: BUS 311 or BUS 318.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

HSM 620: Health Systems Management **3 credits**

This course examines the status and changes in the health care industry, including vertical integration, health care funding mechanisms, and specialized networks. The course also examines the strategic decisions and managerial skills needed to effectively lead health care organizations. Prerequisite: MGT 602.

HSM 621: Health Care Finance **3 credits**

This course provides students with both a macro overview of the principal financial mechanisms in place across the U.S. health care industry and specific insights into the critical financial issues the industry faces. It also emphasizes practical financial analysis skills that have immediate application within the health care industry. Prerequisite: FIN 608.

HSM 622: Ethical Concerns in Health Care **3 credits**

This course is an introduction to the challenges of ethical decision-making confronted in the health care industry. Topics include euthanasia, treatment protocols, quality of care, product utilization, and legal/regulatory concerns. Prerequisite: BUS 604.

History and Theological Studies (HTH)

HTH 303: History of Christianity in America **3 credits**

This course is a study of Christianity in its American context. It is a historical inquiry that examines the relationship between Christianity and culture in order to answer how and why the political and social, and intellectual traditions in American culture shaped Christianity and were, in turn, shaped by Christianity.

HTH 365: Historical Theology **3 credits**

This course is a study of the story of the main highlights of the development from the second century A.D. to the present, of Christian beliefs, doctrines, and theories. Special emphasis is given to how these beliefs, doctrines and theories are connected with concrete events and real persons to show why they mattered and how they developed. The study includes an understanding of the role of heresy, philosophy, and culture as factors in the shaping of Christian theology. Special emphasis is also given to a deeper look at the place of evangelical theology.

HTH 373: Christian Doctrines **3 credits**

A systematic study of the major doctrines of the Christian religion, including revelation and the Bible, the Trinity, the doctrine of man, the atonement, salvation and Christian growth, the church and its ordinances, and eschatology. Prerequisites: BIB 113 and BIB 123.

HTH 375: Contemporary Theology **3 credits**

Begins with a brief background of the development of Protestant Liberal Theology starting with Schleiermacher. Then, more attention is given to twentieth-century schools of theological thought: Neo-Orthodox, Existential, Process, Theology of Hope, Liberation Theology, etc.

Intercultural Ministries (INT)

INT 303: Cross-Cultural Communication **3 credits**

A study of cross-cultural communication and cultural transition for students preparing for cross-cultural Christian ministry. The course will present with the philosophy, principles, and methods of cross-cultural communication and cultural transition/adjustment.

INT 333: Christianity and Culture **3 credits**

This course leads students to look critically at what they consider to be fundamentally Christian, and therefore imperative to duplicate across cultural lines, as opposed to what they consider to be Christian that is actually a cultural value and not necessarily Christian. Special emphasis will be given to comparisons between western and non-western cultures, syncretism, and current efforts being made in intercultural evangelism.

INT 363: Issues in Contemporary Missions **3 credits**

This course examines current movements, trends, leaders and perspectives affecting global mission strategies. Topics will include efforts being made in parts of the world that are closed to open evangelism as well as efforts being made in intercultural ministry in the United States.

INT 463: World Religions **3 credits**

A study of the major contemporary religions of the world, including both historical background and development and current beliefs and practices with emphasis on basic religions, Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, Shintoism, Zoroastrianism, Judaism, Christianity, Islam, and Baha'i.

Justice Studies (JUS)

JUS 100: Introduction to the Justice System **3 credits**

This course provides the student with current and up-to-date information, policies, and techniques that are being used in police courts and corrections. Students are required to research new trends in the system, not only in the U.S., but globally.

JUS 101: Issues in Justice Studies **3 credits**

This course emphasizes issues relating to justice policies, perspectives, techniques, role, institutional arrangements, management, uses of research, and innovative patterns.

JUS 296: Social Research **3 credits**

Also POS 296 and SOC 296. An exploration of the various methods used by social scientists to find answers to the questions posed by their subject matter. Includes basic terminology, concepts, and practice using methods such as surveys, experiments, field research, and evaluation research, as well as some unobtrusive methods. Prerequisite: SOC 101.

JUS 303: Theory of Criminal Justice **3 credits**

An examination of classic and contemporary schools of thought, including psychological and social causes of crime and theories of punishment. Prerequisites: JUS 100 and JUS 101.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

JUS 306: Police Function	3 credits
Objectives, strategies, programs, roles, perspectives and interagency relationships of police. Prerequisites: JUS 100 and JUS 101.	
JUS 308^A: Adjudication Function	3 credits
Objectives, strategies, programs, roles, perspectives, and interagency relationships of the courts. A Writing-Intensive course. Prerequisites: JUS 100 and JUS 101.	
JUS 310: Correctional Function	3 credits
Objectives, strategies, programs, roles, perspectives and interagency relationships of correctional agencies. Prerequisites: JUS 100 and JUS 101.	
JUS 321*: Practical Criminalistics I	2 credits
Students explore the fundamental applications of forensic science essential for gathering evidence at the crime scene and methods for analysis of evidence in the crime laboratory. Co-requisite: JUS 321L.	
JUS 321L*: Practical Criminalistics I Lab	1 credit
Students conduct collection and analysis of trace evidence, arson and explosive evidence, firearms, and fingerprints. Co-requisite: JUS 321.	
JUS 333*: Forensic Photography	2 credits
Students use photography and other aids in identification and preservation of evidence such as fingerprints, footprints and impressions. Covered are techniques in crime scene and traffic accident photography. Co-requisite: JUS 333L.	
JUS 333L*: Forensic Photography Lab	1 credit
A lab course designed to support JUS 333, Forensic Photography. Co-requisite: JUS 333.	
JUS 347*: Crime Scene Reconstruction and Recording	2 credits
Students use logical thinking skills to reconstruct a crime scene and then record the crime scene using a variety of methods to include: photography, rough sketch, refined sketch, CAD programs and thorough report writing. Accurate presentations of crime scenes are required for successful completion. Prerequisites: JUS 333 and JUS 33L. Co-requisite: JUS 347L.	
JUS 347L*: Crime Scene Reconstruction and Recording Lab	1 credit
A lab course designed to support JUS 347, Crime Scene Reconstruction and Recording. Co-requisite: JUS 347L.	
JUS 351*: Practical Criminalistics II	2 credits
This course continues the exploration of evidentiary recovery of materials at crime scenes. Prerequisites: JUS 321 and JUS 321L. Co-requisite: JUS 351L.	

JUS 351L*: Practical Criminalistics II Lab	1 credit
Students collect and analyze tool-mark evidence, impression evidence, questioned documentary evidence, blood spatter, and toxicology evidence. Co-requisite: JUS 351.	
JUS 363: Introduction to Probability and Statistics	3 credits
Also POS 363, PSY 363, and SOC 363. 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 120 or equivalent.	
JUS 461: Substantive Law	3 credits
Criminal liability with emphasis on the elements of a crime. Governmental sanctions of individual conduct as formulated by the legislature and the court system. Prerequisites: JUS 100 and JUS 101.	
JUS 462: Procedural Law	3 credits
Study of the criminal process from a constitutional perspective as it relates to due process in the context of crime control. The limits of stops, arrests and searches are explored. Prerequisites: JUS 100 and JUS 101.	
JUS 490^A: Senior Seminar: Justice Studies	3 credits
The integration of justice studies learning, focusing on its relevance to graduate schools and related careers in justice studies. A Writing-Intensive course. Prerequisites: Senior status and justice studies major.	
JUS 497: Internship in Justice Studies	4 credits
Placement of student in a criminal justice or related agency to further the student's integration of theory with practice. Prerequisites: Junior or senior status and 15 credits of JUS courses.	
JUS 498: Advanced Topics: Justice Studies	3 credits
In-depth study of chosen topics such as: Justice and Ethics, Juvenile Delinquency, Gangs, Comparative Criminal Law, Law and Social Control, and Issues of Death in Politics and Justice. Prerequisites: JUS 100, JUS 303, and one Upper Division Justice Studies course, or instructor's approval.	
JUS 499: Independent Study	1–4 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.	

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

Leadership (LDR)

LDR 650: Diversity Management and Leadership 3 credits

Demonstrating organizational leadership demands the development and implementation of diversity management and a commitment to lead using values-based strategic and operational objectives designed to champion organizational diversity as a source of strength. Students will demonstrate the capacity to value the talents and skills of a diverse workforce with respect to gender, age, race, ethnicity, disability, and lifestyle. Students will master leadership skills based on a comprehension that leading and managing diversity is a process of constructing a work place that is inclusive and allows all employees to reach their full work potential. Through diversity leadership, students will make significant cognitive connections across organizational practices and access the full talents of individuals to achieve and sustain a competitive advantage.

LDR 657: Leading Global Organizations 3 credits

Leading global organizations has become a significant skill set responsibility for today's business and organizational leaders. The course will address the need to develop the capacity for leaders to promote a global perspective within multi-cultural and multinational organizations. Students will be able to recognize the impact of the global economy on organizational decision-making, planning, and sourcing of organizational resources and functions. Understanding how global operations are influenced by environmental differences, legal-political, and economic systems within countries will be examined as central to leaders maintaining a global competitive advantage. Students will explore international business practices leaders must comprehend that drive global sourcing, organizational structure, and the influence of diverse cultures on leadership practices and decision-making.

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.

LDR 802: Progressions in Leadership Thought 3 credits

This course provides an overview of seminal leadership theories and models. Students will 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 theories of leadership and leadership development in diverse and global cultures.

LDR 806: Understanding Toxic Leadership 3 credits

This course analyzes why we are attracted to leaders who do not have the best interests of their followers (or organizations) at heart. These leaders often display a charisma and style that masks their real intentions which are ultimately about creating dependency and promoting their own careers and agendas. The consequences of this dysfunctional leadership style can be devastating to both the organization and its stakeholders.

LDR 808: The Nature and Dynamics of Organizations 3 credits

This course provides a broad overview of the major theoretical frameworks of organizational theory and organizational behavior. Topics include organizational structure, culture, organizational design and effectiveness, learning organizations, motivation, communication, and decision-making.

LDR 810: Leading the New Organization 3 credits

Leadership styles and organizational challenges faced by 21st century leaders are largely unparalleled and radically different from what we have known. A major contributory factor is the rate of change in the environment, and there are no signs of abating. Leadership styles and organizational methods developed for use under stable conditions are no longer as effective, hence, the emergence of different and newer ways of organizing, and a resultant revolution and redefinition of the competencies, skills and abilities needed for successful leadership in the new era.

Organizational Leadership (LOR)

LOR 805: Innovation: The Last Frontier of Competitive Advantage 3 credits

In the face of rapidly changing customer needs, the importance of innovation to the survival of businesses cannot be over emphasized. Innovation has become the fundamental source of competitive advantage, and companies that cannot provide new value to face the threat of extinction. The purpose of this course is to develop an understanding of the leadership skills and capabilities required to foster, operate, and lead and sustain innovation in organizations operating under both 'steady state' and conditions of change and flux. The fundamental role of Leadership in the innovation process will be explored by evaluating the relationship between key leadership and innovation theories.

LOR 810: Servant Leadership 3 credits

This course examines the essence of what makes servant leadership distinct from other styles of leading. The focus on the needs of others rather than self, leading without ego, and creating interdependence rather than dependency are examples of topics that will be examined. The pathway to becoming a servant leader will also be explored including the concept that one chooses to serve first and then is compelled to lead in order to fulfill that service.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

LOR 815: Organizational Governance and Accountability 3 credits

This course analyses the reasons of the growing importance of organizational Governance and Accountability in both for-profit and non-for profit organizations. Technology (Web 2.0), recent ethical scandals, financial debacles, and globalization have shifted the paradigm of Governance. This course covers the new ways to build Board effectiveness.

LOR 820: Leading Values Driven Organizations 3 credits

This course examines the rise of the values driven organization where the workplace is defined as something more than just a business contract between employer and employee. The phenomena of putting meaning into work and how this can support a responsive and adaptive organizational culture while driving competitive advantage are explored.

LOR 825: Strategic Planning and Change 3 credits

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.

Mathematics (MAT)

MAT 100: Beginning Algebra 3 credits

Review of pre-algebra, real number system, algebraic expressions, solving linear equations and inequalities, graphing linear equations and inequalities, systems of equations and inequalities, laws of exponents, functions, and polynomials. The intent of the course is to prepare students for MAT 120. MAT 100 does not fulfill the math requirement for any degree program.

MAT 120: Intermediate Algebra 3 credits

Factoring polynomials, rational expressions and equations, radical expressions and equations, quadratic equations, functions, and inequalities, exponential and logarithmic functions, conic sections and nonlinear systems. Prerequisite: MAT 100.

MAT 121: College Algebra 3 credits

Equations, inequalities, and modeling, functions and graphs, polynomial and rational equations, exponential and logarithmic equations, systems of equations and inequalities, matrices and determinants, the conic sections, sequences, series, and probability. Prerequisites: Grade of "C" or better in MAT 120.

MAT 122: College Trigonometry 3 credits

A study of the trigonometric functions and their properties, as related to the unit circle and the right triangle. The course is designed to help students prepare for calculus and physics. Additional topics will be graphing, proving trigonometric identities, inverse trigonometric functions, polar coordinates, and vectors. Prerequisite: MAT 121 or high school equivalent.

MAT 133: Contemporary Mathematics 3 credits

An integrated course emphasizing mathematical modeling and problem solving. Topics include: algebraic models, number theory, the real number system, systems of numeration, geometry, emphasis on problem solving and manipulatives, logic and geometry, elementary probability, and elementary statistics.

MAT 135: Numerical Systems, Operations, Properties, and Theories 3 credits

A foundational course covering the structure of numeration systems and ways of representing numbers, numerical operations and properties of the real number system, and the principles of number theory.

MAT 220: Finite Mathematics 3 credits

Topics in finite mathematics are the focus of this course, including elementary matrix algebra, linear systems, and an introduction to probability.

MAT 270: Analytical Geometry and Calculus I 3 credits

A study of concepts of limits, differentiation, and integration of algebraic and elementary functions. Prerequisites: MAT 121 and MAT 122, or high school equivalent.

MAT 271: Analytical Geometry and Calculus II 3 credits

A continuation of MAT 270, covering the techniques of integration, solid analytic geometry, and infinite series and sequences. Prerequisite: MAT 270 or equivalent.

MAT 272: Analytical Geometry and Calculus III 3 credits

A study of vector analysis, partial differentiation and multiple integration. Prerequisite: MAT 271 or equivalent.

MAT 300^A: Introduction to Mathematical Thought 3 credits

An introduction to the basic structures of mathematical thought including logic and proofs, set theory, relations and functions, selected topics from modern algebra, and the real number system. Emphasis is on the student's ability to read, write about, and discuss mathematical ideas. A Writing-Intensive course. Prerequisite: MAT 271.

MAT 310: College Geometry 3 credits

A course in the technique of construction and the procedure of proofs of common geometric figures, particularly adapted to the needs of future teachers of high school mathematics. A brief introduction to non-Euclidean geometry is also included.

MAT 320: Technology in the Mathematics Curriculum 3 credits

A study of the use of computers, calculators, and graphing utilities in the mathematics classroom, with an emphasis on problem solving. Educational hardware and commercial software are introduced. Applications of selected programming languages to the teaching of mathematics will be discussed.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

MAT 342: Linear Algebra **3 credits**

An introductory study of finite dimensional vector spaces, linear transformations, and matrices associated with them. Proofs and theory are included. Prerequisite: MAT 271 or instructor's approval.

MAT 363: Probability and Statistics for Mathematics and Science **3 credits**

A study of elementary theories of probability, distribution, estimation and testing of statistical hypotheses. Prerequisite: MAT 271.

MAT 373: Differential Equations **3 credits**

A study of the methods of solution of ordinary differential equations and their applications including the theoretical development of the methods. Prerequisite: MAT 272.

MAT 410: Math PRAXIS Preparation **3 credits**

Arithmetic, basic algebra, geometry and measurement, functions and their graphs, data probability, statistical concepts, discrete mathematics, and problem-solving exercises are the topics covered to prepare students for the PRAXIS test in Middle School Mathematics.

MAT 466: Methods of Teaching Secondary School Mathematics I **3 credits**

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 design and deliver effective lessons that are aligned to standards and increase student achievement. Topics to discuss in this course will include, but are not limited to algebra and geometry. Prerequisite: MAT 270.

MAT 467: Methods of Teaching Secondary School Mathematics II **3 credits**

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 design and deliver effective lessons that are aligned to standards and increase student achievement. Topics to discuss in this course will include, but are not limited to precalculus, calculus, probability, and statistics. Prerequisite: MAT 466.

MAT 483^A: Mathematics in the Secondary School **3 credits**

Topics in geometry, number theory, algebra and analysis. Emphasis is on the development of a problem-solving process and unifying principles. Teaching strategies, examination of secondary school curricular materials and classroom experience will be included. Required course for Mathematics for Secondary Teacher majors. A Writing-Intensive course. Prerequisite: MAT 271.

MAT 484: Mathematics in the Elementary School **3 credits**

Emphasis is on the development of a problem-solving process and unifying principles. Teaching strategies, examination of secondary school curricular materials, and classroom experience will be included.

MAT 495: Mathematics Capstone **3 credits**

The professional capstone project needs to reflect synthesis and integration of course content and professional practice. This course provides a structured way to organize facts, information, and ideas from the math content area. Theoretical concepts from the major will be discussed by critically analyzing and evaluating ideas relating to a practical application process.

Church Music (MCH)

MCH 378: Music in Worship **3 credits**

A study of music in worship from Biblical times to the present. Comparison of liturgies and orders of worship and planning worship services for various occasions. Includes the formation of a philosophy of church music.

Medical Imaging (MDI)

MDI 304V: Medical Imaging in the Digital Environment **3 credits**

This course presents an introduction to medical imaging in the digital environment. Included is the history of computers in radiography and a look into the future of digital imaging. Subjects covered are, equipment, interface standards, networking and interfacing, RIS, computed radiography, PACS, image processing and quality, functions and parameters, and practical experiences. At the end of this course the student should be able to discuss the subject of digital medical imaging and continue on to advanced imaging modality studies. Prerequisite: Enrollment in BS in Medical Imaging Sciences

MDI 306: Physics and Instrumentation of Magnetic Resonance **3 credits**

Students will become familiar with the basic concepts of magnetic resonance physics. Content is designated to impart an understanding of the theories of magnetic resonance properties, their discovery, and initial applications in the clinical setting. Prerequisite: Enrollment in the BS in Radiologic Science or Certificate in Magnetic Resonance Imaging

MDI 308: Physics and Instrumentation of Computed Tomography **3 credits**

Students will become familiar with the basic concepts of computed tomography physics. Content is designed to impart an understanding of the theories of computed tomography properties, their discovery, and initial clinical setting. Prerequisite: Enrollment in the BS in Radiologic Science or Certificate in Computed Tomography

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

MDI 312: Breast Anatomy, Physiology and Pathology**3 credits**

Content establishes a knowledge base in breast anatomy and physiology. Correlation between breast anatomical structures and mammographic anatomic structure are described and discussed. Introduces the concepts of breast viability and pathology, presents benign and cancerous pathology, including their mammographic appearance.

MDI 314: Mammography Facility and Equipment Management**3 credits**

Content provides students with an overview of the mammography facility and its personnel. It provides a foundation for the types of patient services offered and the regulations that affect the operation of a facility or service. Content also gives the student a foundation of the concepts of mammography equipment. The types and function of mammographic and quality control equipment, along with the mandated requirements governing their use, are described and discussed. Prerequisite: Enrollment in the BS in Radiologic Science or Certificate in Mammography Program

MDI 316: Mammography Procedure Protocols**3 credits**

Content establishes a knowledge base in the type and application of interventional procedures involving mammography. Provides a knowledge base of the various positions and projections used in mammography. Content includes discussions on clinical data needed to perform the exam and positioning techniques for screening and diagnostic mammography. This course also develops an understanding of basic principles of sonomammography. Where applicable, ultrasonographic examinations that complement breast imaging are discussed. Includes patient care and adaptive positioning. Prerequisite: Enrollment in the BS in Radiologic Science or Certificate in Mammography Program

MDI 318: Quality Management in Mammography**3 credits**

Content establishes a knowledge base of factors that govern and influence producing and recording mammographic images. Content establishes a protocol for quality assurance and quality control that incorporates all operations and functions of a mammography facility or service. The interrelatedness of accreditation and service delivery standards are demonstrated and discussed. Prerequisite: Enrollment in the BS in Radiologic Science or Certificate in Mammography Program

MDI 410: Critical Patient Care in Medical Imaging**3 credit**

Critical procedures such as Advanced Cardiac Life Saving skills, treatment of reactions to contrast media, and physiological monitoring and recording will be presented. Prerequisite: Enrollment in BS in Medical Imaging Sciences

MDI 412: Magnetic Resonance Imaging Procedures & Protocols**3 credits**

Content is designed to provide students with an understanding of MR tissue characteristics as they will be used in producing images. A body system approach including Musculoskeletal, Thoracic/intestinal, Abdomen/Pelvis and Central Nervous Systems is used. Prerequisite: MDI 306

MDI 414: Computed Tomography Procedures & Protocols**3 credits**

Content is designed to provide students with an understanding of computed tomography tissue. Prerequisite: MDI 308

MDI 420: Pathology in MRI/CT**3 credits**

Content introduces the study of pathology and how this relates to CT and MR imaging. A body system approach is used. Prerequisite: BIO 311; Enrollment in the BS in Radiologic Science or Certificate in Computed Tomography or Certificate in Magnetic Resonance Imaging

MDI 424 Quality Management in Medical Imaging**3 credits**

Content is designed to provide the basics of imaging system selection and architectural design of an advanced imaging facility. Discussions regarding staffing needs and staff education will be included. Enrollment in BS in Medical Imaging Sciences; and completion of all coursework except for MDI 410 and HLT 490

Medical/Music Education (MED)

MED 003: Music Educator's National Conference**0 credits**

The Music Educator's National Conference Collegiate Membership gives the students an opportunity for professional development while still in school. It is expected the benefits will accrue both to the students and to the professional organization as the students gain an understanding of the practices of the professional music educator.

MED 232: Woodwind Instrument Class**1 credit**

A practical study of the high and low woodwind instruments. The student learns to play, care for, and teach each instrument. Prerequisite: Sophomore status.

MED 241: Brass Instrument Class**1 credit**

A practical study of the high and low brass instruments. The student learns to play, care for and teach each instrument. Prerequisite: Sophomore status.

MED 251: Percussion Instrument Class**1 credit**

Same format as MED 241, except pertaining to percussion instruments. Prerequisite: Sophomore status.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MED 252: String Instrument Class **1 credit**

A practical study of the high and low string instruments. The student learns to play, care for, and teach each instrument. Prerequisite: Sophomore status.

MED 480: MCAT/DAT Exam Preparation **3 credits**

This course provides a review of key concepts tested on the MCAT and DAT exams, including general and organic chemistry, biology, biochemistry, and physics/quantitative reasoning. Students will also learn test-taking techniques and discuss exam format. MCAT students will take several practice exams as part of this course.

Music Ensembles (MEN)

MEN 111: Canyon Singers **1 credit**

A vocal ensemble open to all students at Grand Canyon University with the conductor's approval. Choral literature from all stylistic periods will be performed. This ensemble is designed to provide a quality performance experience for music majors and non-majors alike. Strong emphasis is placed on individual commitment to the ensemble.

MEN 120: Gospel Choir **1 credit**

Every semester. Vocal ensemble drawn from the student body. Music includes a broad range of Christian Gospel literature. Strong emphasis is placed on individual commitment to the ensemble. Performances required. Does not fulfill General Education Fine Arts requirement.

Management (MGT)

MGT 301: Principles of Management **3 credits**

An introductory course that deals with management and the basic management processes and functions. Focuses on real-world management situations concerned with planning, organizing, leading, and controlling the work of others in organizations.

MGT 310: Production and Operations Management **3 credits**

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 will be introduced and applied. Prerequisites: MGT 301 and BUS 251.

MGT 415: Organizational Behavior **3 credits**

A study of individual and group behavior in organizations, including detailed coverage of individual differences/diversity, leadership and motivation, decision making, organizational design, and organizational change/development. Emphasis is placed on how an understanding of organizational behavior leads to more effective management practice. Writing-intensive course. Prerequisites: MGT 301.

MGT 433: Human Resource Management **3 credits**

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. Prerequisites: MGT 301.

MGT 435: Project Management **3 credits**

A study of the unique challenges associated with managing projects as related to 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. Additional focus is placed on managing and controlling project scope. Prerequisites: MGT 301.

MGT 480: Strategic Management **3 credits**

This course examines the formulation of strategy and policy within organizations. Significant emphasis is placed on the integration of strategic decisions across various functional areas and multiple business units as well as ethical considerations of organizational policy and strategy. Prerequisites: FIN 301, MGT 301, and MKT 301.

MGT 490: Organizational Development and Change **3 credits**

This course emphasizes an overview of approaches to organizational development with emphasis on the practical aspects of changing organizations to improve effectiveness.

MGT 602: Organizational Behavior **3 credits**

Students examine concepts and applications of behavior in organizations. Topics include the study of motivation, organizational climate, group dynamics, leadership, decision-making, and organizational structure and design.

MGT 609: Strategic Management **3 credits**

This course examines the formulation of strategy and policy within organizations. Significant emphasis is placed on the integration of strategic decisions across various functional areas and multiple business units as well as ethical considerations of organizational policy and strategy. Prerequisites: ACC 605, FIN 608, MGT 602, and MKT 606.

MGT 613: Operations Strategy **3 credits**

Students examine operations as a strategic resource. Topics include methods to facilitate strategic formulation, analysis of the links between operations and other functional areas, and the management and strategic application of new and emerging technologies.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MGT 621: Project Management **3 credits**

This course examines roles and responsibilities of the project manager, project life-cycle, differentiating elements of projects in various industries, analysis tools and techniques for project plan development, and managerial control of project deployments. Additional components include project scheduling and critical path assessment, project requirements definition and scope management, and project risk identification and control. This course guides each student through the primary project life-cycle of planning, development, implementation, and control. Prerequisites: ACC 501 or 605, BUS 601.

MGT 623: Organizational Development and Change **3 credits**

Students explore the behavioral forces and relationships that influence organizational effectiveness and change. Topics include the study of intervention strategy and change management.

MGT 625: Leadership Styles and Development **3 credits**

This course explores the nature of business leadership models and theories, examining these models through a broad variety of insights and viewpoints and analyzes these approaches to leadership, giving special attention to how the models can improve leadership real-world organizations.

MGT 626: Organizational Systems and Cultures **3 credits**

Students explore organizational systems and cultures as complex and powerful phenomena that profoundly influence the behavior of both individual employees and organizations as a whole. The course of study includes the diagnosis of organizational systems and cultures and the proactive management and shaping of these forces.

MGT 628: Information Security and Organizational Change Development **3 credits**

In this course, students analyze the principles of change management as they apply to the requirements and regulations of information security. Students evaluate the factors which affect corporate decision-making when implementing security programs and the ability of the manager to translate corporate needs into information security projects.

MGT 629: Organizational Security Systems and Awareness **3 credits**

In this course, students review and discuss security awareness and evaluate practices in implementing security systems within enterprise. Best practices within five of the ten domains of the (ISC)2 Common Body of Knowledge (CBK) in information security are explored within this context.

MGT 630: Leading Self **3 credits**

Leading Self is designed to prepare EMBA students as they strengthen important leadership skills and develop a personal leadership vision. The module combines knowledge and application by examining the results of leadership research and how it can be used to develop a clear sense of purpose of leadership, increase leadership communication skills, and deepen awareness of personal leadership styles. Case studies, discussions, exercises, guest speakers, and videos are used to address the challenges of leadership. The disciplines covered in this module include leadership, visioning, emotional, and cultural intelligence, and communications.

MGT 635: Leveraging Human Capital **3 credits**

Leveraging Human Capital presents the perspective that management of human capital is the responsibility of every manager/leader throughout the organization. Talent management, succession planning, employee development and motivation, and performance management and metrics are examined. Additional topics include workforce diversity, contracting within the global 21st century environment, and the challenges inherent in virtual and cross-functional teams. Methods for building and sustaining human capacity and knowledge assets to increase corporate value are examined.

MGT 636: Leading Others **3 credits**

Leading Others provides the structure and direction for teams to remain focused on a common goal to achieve a common result. Using research validated evaluation methods, the course documents agreements on how to accomplish the team's purpose by creating buy in and increasing commitment for task accomplishment. The concepts and methods of promoting partnership and trust among team members are explored and a solid foundation for building high-performing teams is constructed. The concept of servant leadership is also explored through the study of role models throughout history and today.

MGT 639: Strategic Advantage within the Global Economy **3 credits**

Strategic Advantage within the Global Economy examines the global competitive landscape in which firms operate. An examination of real life CEO's and how they have successfully seized growth opportunities in unexpected ways provides an actuarial perspective. The international political and economic environment is also examined to ensure familiarity with larger scale shifts occurring within the global economy that impact growth strategies.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MGT 642: Leading Organizations **3 credits**

Leading Organizations focuses on transformational leadership and the themes of organizational culture and leading change. Transformational leaders must be able to grasp the need for change and effectively define and communicate that change to their stakeholder groups. This module will examine how and why change efforts get derailed, why people resist change, and how leaders can overcome these challenges. Specifically, the real life lessons learned by a number of CEOs will be examined and discussed. The module will also introduce strategies on how to build and sustain a resilient corporate culture that thrives on change and supports the ongoing implementation of change efforts.

MGT 650: Operations Management **3 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 will be introduced and applied.

MGT 690: Strategic Human Resource Management **3 credits**

This course introduces the skill set and mindset that enables managers to perform as strategic and HR-minded business professionals, positioning HR as a key value-chain activity while concurrently driving HR-mindedness throughout their organizations. While a technical knowledge base of the common HR functions (staffing, organizational development, compensation and benefits administration, and employee/labor relations) is covered, the course of study intentionally focuses on how all of this relates to organizational strategy and impacts organizational performance.

Christian Studies (MIN)

MIN 202: Introduction to Ministry **3 credits**

An exploration of ministry both in the contexts of identification of spiritual call and in theological field education designed to help ministers function appropriately in ministry. The course includes an introduction to field education, choosing a ministry placement and field supervisor, vocational discernment, designing a learning covenant, and theological reflection.

MIN 213: A Survey of Christian Education **3 credits**

An introduction to the development of Christian education from the Early Church to modern-times, focusing on major movements, philosophies, and people. Special attention will be given to the objectives of educational programs in the local church.

MIN 220: Management for Ministry **3 credits**

A study of the basic functional areas in the practice of administration. Special attention is given to management principles and leadership development to help make these effective in the local church, para-church, and personal ministries.

MIN 300: Introduction to Youth Ministry **3 credits**

A study of the basic areas of the practice of managing youth ministry and related programs in local church, para-church, and personal ministries. Special attention is given to management principles and leadership, specifically as they relate to youth and student ministries.

MIN 315^A: Spiritual Formation **3 credits**

An introductory study of the basic disciplines of Christian discipleship, focusing on the formation of character, values, disciplines, and habits, especially related to the inner development of spirituality. The study makes use of some of the Christian devotional classics. A writing intensive course.

MIN 343: Teaching and Guiding Youth **3 credits**

This course equips students to communicate effectively with a variety of audiences, to employ creative pedagogy that challenges and engages youth, and to develop curriculum that is culturally relevant and biblically accurate.

MIN 373: Introduction to Pastoral Ministry **3 credits**

A study of the philosophy and practice of pastoral work. Emphasis is given to the caring and nurturing practices involved in ministry. A special focus is given to assist students in their ability to synthesize pastoral work with their place of service.

MIN 411: Financial Decision-Making in Ministry **3 credits**

Examining the elements necessary for effective financial decision-making in the local church is imperative to for an effective ministry. Students will understand and be able to develop a ministry budget, building program, and a fundraising campaign. Stewardship programs in the successful growth of a church will be defined and outlined as a part of the courseware.

MIN 412: Ministerial Organizational Development and Change **3 credits**

Ministerial organizational development and change encompasses the study of individual and group behavior in church organization settings. An introductory study of the basic structures of Christian organizations, the course focuses on an overview of the typical processes and decisions that lead to healthy organizational development and change. Managing organizational development and change challenges individuals to understand and embrace audience diversity, elements of change, effective communication, and performance systems. A comprehensive review of these organizational processes will allow students to examine their role in ministerial organizations in the new millennium. This course will include review of effective structures for ministry.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

MIN 475: Issues in Contemporary Pastoral Ministry **3 credits**

Examining current movements, trends, leaders, and perspectives affecting worship and worship styles in the United States and around the world is imperative to becoming an effective worship leader. Topics will include efforts being made in the local church, regional church, and national ministries to establish unique worship programs. Contemporary worship and classical worship styles will be discussed and defined. Particular attention will be given to understanding worship through the eyes of the audience as well as the leader.

MIN 476: Issues in Contemporary Youth Ministry **3 credits**

Examining current movements, trends, leaders, and perspectives affecting youth ministry and youth ministry strategies is paramount to foreseeing future trends within the youth culture. Topics will include a review of the efforts being made in the local church, regional service centers, and national ministries to develop unique youth ministry programs. Focus will be also given to churches and Christian ministries which are reaching youth in different settings such as urban, suburban, and rural locations.

MIN 497: Ministerial Internship **3 credits**

This field education course involves the student in one semester of service with a qualified supervising minister in the ministry setting. An advanced internship can be arranged for the student already engaged in professional ministry who wants further training. Internships are usually available in chaplaincy, church work (pastor, education, music, youth, etc.), Christian social ministries, student work, and other areas. Prerequisites: MIN 202, sophomore or higher-class status, and instructor's approval.

Military Science (MIS)

MIS 101: Introduction to the Military and Leadership I **3 credits**

Every Fall. An overview of the mission and organization of the Army and its role in national defense. Three credits lecture/conference, two credits lab.

MIS 102: Introduction to the Military and Leadership II **3 credits**

Every Spring. Introduces problem-solving methods, critical thinking, decision-making, and group cohesion as applied in a military environment. Three credits lecture/conference, two credits lab, and one, two-day field-training exercise.

MIS 201: Introduction to Leadership Dynamics I **3 credits**

Every Fall. Introduces interpersonal dynamics involved in military team operations; theory and application of military leadership principles. Three credits lecture/conference, one credit lab, and one, two-day field-training exercise.

MIS 202: Introduction to Leadership Dynamics II **3 credits**

Every Spring. Continuation of MIS 201. Three credits lecture/conference, one credit lab, and one, two-day field-training exercise.

MIS 205: Leader's Training Course **4 credits**

Every Summer. A four-week, summer training program that consists of intense classroom and field training emphasizing practical hands-on skills and leadership development. This course is taken in lieu of MIS 101, 102, 201, and 202. Students who attend this course will receive a stipend, transportation to and from Fort Knox, KY, housing, and meals. Prerequisite: Two years of college remaining (undergraduate or graduate).

MIS 301: Advanced Military Science I **3 credits**

Every Fall. Introduction to Army command and staff functions, theory and dynamics of the individual soldier and military units in offensive combat operations, human behavior, and math reasoning. Three credits lecture/conference, one credit lab, and one, two-day field-training exercise. Prerequisite: MIS 101, 102, 201, and 202; MIS 205, or an equivalent.

MIS 302: Advanced Military Science II **3 credits**

Every Spring. Continuation of MIS 301, to include, theory and dynamics of military units in defensive combat operations Three credits lecture/conference, one credit lab, and one, two-day field-training exercise. Prerequisite: MIS 301.

MIS 303: National Advanced Leadership CAMP **4 credits**

Every Summer. A summer Leadership Development and Assessment Course (LDAC) designed to evaluate and train all Army ROTC cadets. This six-week training program emphasizes leadership development and advanced military skills, including tactics, land navigation, and physical training. ROTC cadets normally attend LDAC at Fort Lewis, Washington between their junior and senior year. Students who attend this course will receive a stipend, transportation to and from camp, housing, and meals.

Prerequisites: MIS 301, 302.

MIS 401: Advanced Military Science III **3 credits**

Every Fall. Study of the military legal system; preparation and conduct of military training; leadership development, ethics, and professionalism of the military officer. Three credits lecture/conference, two credits lab, and one, two-day field-training exercise. Prerequisites: MIS 301, MIS 302.

MIS 402: Advanced Military Science IV **3 credits**

Every Spring. Military correspondence; career planning and personal affairs in service; conduct of training; leadership development; ethics and professionalism of the military officer. Three credits lecture/conference, one credit lab, and one, two-day field-training exercise.

Prerequisite: MIS 401.

MIS 410: American Defense Policy I **3 credits**

Every Fall. Evolution, organization, and execution of U.S. national security policy. Must attend at the ASU campus.

Prerequisite: Instructor approval.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MIS 412: American Defense Policy II **3 credits**

Every Spring. Contemporary problems and analytical issues in the formation and implementation of U.S. national security. Must attend at the ASU campus.

Prerequisite: Instructor approval and MIS 410.

MIS 499: Independent Study **3 credits**

Work closely with the Professor of Military Science on a special topic that may include research, readings, and presentations. May be repeated once. Prerequisite: Instructor approval.

Marketing (MKT)

MKT 301: Principles of Marketing **3 credits**

This course surveys the marketing mix and marketing concept; markets and buyer behavior; product, service and relationship marketing for global competition; creating and keeping customers in an e-commerce world; branding and positioning; distribution strategies; integrated marketing communications; and pricing strategies.

MKT 302: Buyer and Consumer Behavior **3 credits**

This course focuses on a behavioral science approach that studies distinct buyer strategies and decision-making processes of purchase by organizational buyers and consumers. Topics include cross-cultural variations in behavior, external and internal influences on today's buyers, purchase and post-purchase processes, customer satisfaction, and customer commitment. Prerequisite: MKT 301.

MKT 303: Sales and Sales Management **3 credits**

This course applies management and leadership principles to the development and operation of the sales force as part of the overall marketing program. Topics include sales planning, organization and control, sales force recruitment, training, motivation, compensation, e-business, and cultural diversity. Prerequisite: MKT 301.

MKT 304: Promotion and Advertising **3 credits**

This course provides an integrated marketing communications perspective for today's changing world. Topics include the promotional mix, determining and developing advertising and promotional objectives, ethical issues in advertising campaigns, budgeting, positioning, creative strategies, media strategies, personal selling, e-marketing, public relations, publicity, corporate advertising, and evaluating the promotional program. Prerequisite: MKT 301.

MKT 306: Services Marketing **3 credits**

This course surveys the unique issues involved in marketing services. Topics include new products, new services, brand development, delivery of services, pricing of services, and promotion of services. Customer satisfaction and service quality measures as well as ethical considerations in services marketing will be integrated in discussions of the services marketing mix. Prerequisite: MKT 301.

MKT 372: Sport Marketing **3 credits**

A study of basic marketing concepts with applications to sport organizations, both amateur and professional. Topics include promotions and public relations, sport consumer behavior, strategic market planning, marketing information management, marketing communications, and sponsorship. Prerequisite: MKT 301.

MKT 409: Retailing and E-tailing **3 credits**

This course studies retailing as an institution in our society, the challenging environment facing retailing today and tomorrow, and future retailing management practices that include e-tailing opportunities. Prerequisite: MKT 301.

MKT 425: International Marketing **3 credits**

An introduction to marketing products and services globally, the course discusses and compares belief systems, attitudes, values, consumer behaviors, export/import strategies, joint ventures, foreign manufacturing, and licensing. Prerequisite: MKT 301.

MKT 440: Marketing Research and Reporting **3 credits**

This course is an introduction to business research processes and the research documents used as tools to aid in managerial decision making. Topics include designing research projects, collecting primary and secondary data, conducting ethical research, applying statistical tools and measurement techniques, developing a marketing plan, and reporting the research in both written and oral presentation formats. Prerequisites: BUS 251 and MKT 301.

MKT 480: Marketing Management **3 credits**

This course provides a manager's view of applying the marketing mix in today's and tomorrow's business worlds, using various approaches and tools for analyzing marketing opportunities, integrating traditional and new techniques in promotion and pricing, managing the marketing concept, developing marketing plans, and controlling marketing activities. Prerequisite: MKT 301.

MKT 501: Economics and Marketing Principles **3 credits**

This course is designed for students who have not had finance and economics in their undergraduate work. In economics, this course is an introduction to micro and macro economic concepts, principles, and business practices. Topics covered include basic economic concepts of supply and demand, competition, income distribution, monetary and fiscal policy, production, employment, inflation, and international trade. In marketing, this course introduces the student to the lexicon of the discipline with an emphasis on the marketing concept, consumer behavior, the need for market research, and the elements of the marketing mix (product, price, place, and promotion).

MKT 606: Marketing Management **3 credits**

This course examines marketing's critical role in the business organization. The student will evaluate organizational performance in developing an appropriate marketing mix, building customer satisfaction, analyzing marketing opportunities, developing marketing strategies, and planning promotional programs. Integral to the course is the development of a marketing plan. Prerequisite: MKT 501.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MKT 624: Services Marketing **3 credits**

This course is an introduction to the state-of-the-art research and practice in services marketing. The most current services marketing concepts, principles, and theories will be emphasized, and services marketing concepts will be applied to actual practice. Prerequisite: MKT 606.

MKT 625: Seminar in Marketing **3 credits**

Students examine the issues, emerging practices, and problems facing marketing executives, researchers, and decision makers. Topics will include pricing, brand management, direct marketing, retailing, telemarketing, specialty advertising, consumer behavior, motivation theory, and marketing models. Marketing ethics will be an integrated topic throughout the curriculum. Prerequisite: MKT 606.

MKT 628: International Marketing **3 credits**

This course analyzes current trends and issues facing an international firm's efforts to develop and implement an effective marketing mix. The comparisons of language, aesthetics, religions, business customs, and attitudes about the marketing concept and strategies are addressed. Prerequisite: MKT 606.

MKT 631: Customer Value and Service Excellence **3 credits**

The course is designed to focus on what customers really want, building customer loyalty, and becoming a service excellence leader. Insights are drawn from various fields including management, innovation, information technology, and cross-cultural communications. The service profit chain provides a framework for linking employee engagement with customer satisfaction and retention.

MKT 632: Solutions-Based Relationship Management and Branding **3 credits**

The course will examine the role of corporate brands in creating a competitive advantage and focus on the critical issues facing senior leaders today including measuring marketing performance, managing customer information, building cross-cultural customer relationships, and leveraging the Internet.

Leadership (MLE)

MLE 601: Introduction to Organizational Leadership **3 credits**

This course is designed to be an introduction to the cross-functional complexities inherent in organizational life. Students will develop an advanced skill-set enabling effective leadership of each of the major organizational functions (namely marketing, finance, human resource management, information systems, and operations management). Students will understand the difference between transformational and transactional leadership and how both are critical to effective leadership, with the primary emphasis in this class being placed on transactional leadership.

MLE 603: Leadership Styles and Development **3 credits**

Students will explore applications of various leadership styles in several work and personal environments, such as the Leadership Grid and Situational Leadership. The student will better understand mentoring/coaching, transformational, charismatic, and visionary leadership. Students will use personal assessments to help assess their individual leadership styles, as well as identify areas for future development.

MLE 605: Leading High-Performance Teams **3 credits**

This course is an experiential introduction to models of team dynamics and group process. Issues discussed will include such topics as meeting management, team building, assessment, roles and responsibilities of the team leader, characteristics of successful teams, strategies for designing and supporting teams in the workplace. Students will also be instructed in methods used to motivate others in helping an organization succeed.

MLE 606: High Performance Information Security Project Management **3 credits**

In this course, students utilize PMI's Project Management Body of Knowledge (PMBOK) as a framework, to apply project management concepts in the information security arena. Each student develops a project plan for a security assessment which incorporates the technical and behavioral characteristics of high performance teams

MLE 607: Organizational Development and Change **3 credits**

This course will involve detailed study of various change management and organizations development models, theories, and methodologies. Students will explore applications of the various theories to case studies, as well as their current professional settings. Additionally, students will conduct primary, field-based research surrounding a large-scale organizational change initiative and critically evaluate the relative success/failure of that change initiative.

MLE 609: Leading Out Loud **3 credits**

This course will study the leader as communicator. The personal skill building emphasis will focus on informative speaking, strategic conversational speaking, persuasive speaking, and media interviewing. Personal reflection papers, active learning goals, skill plans, specific performances, feedback sessions, and structured observations are designed for maximum skill development and mastery.

MLE 611: Organizational Systems and Cultures **3 credits**

This course will provide students an understanding of the complexities of organizational systems and cultures, the ways in which these forces manifest themselves, and the means by which leaders intentionally impact the shape that these forces take in their organizations. Students will explore the application of various organizational systems and cultures theories to case studies, as well as to their current professional settings. Additionally, students will research and critically analyze the comparative cultures of two organizations from the same industry.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

MLE 613: Strategic Planning and Decision-Making **3 credits**

This course is designed to prepare leaders to guide their organization in the future through the use of effective strategic and contingency planning. A critical component will include learning to evaluate alternatives, make effective decisions, and use appropriate decision-making processes.

MLE 614: Strategic and Technological Trends in Information Security **3 credits**

In this course, students assess technical trends as well as new and emerging technologies in information assurance to determine their impact on the implementation of the Strategic Security Plan (SSP) of an enterprise.

MLE 615: Negotiation and Conflict Resolution **3 credits**

In this experiential course, students will gain the conceptual tools and behavioral skills necessary to effectively navigate difficult interpersonal situations, resolve conflicts, and negotiate agreements between individuals, departments, and organizations to become more effective leaders. This course focuses on applying theories, models, and data-based approaches to devise strategies for negotiation and conflict resolution.

MLE 617: Leadership and Innovation **3 credits**

Students will understand and apply various models of problems solving. They will learn various techniques, strategies, and skills appropriate for creative and innovative thinking.

MLE 618: Leadership and Innovation in Information Security Management **3 credits**

In this course, students address an information security management problem through development of an innovative information security solution. In executing their projects, students apply the concepts and methods acquired in previous coursework.

MLE 619: Power, Politics, and Influence **3 credits**

The essence of this course teaches the student sources and types of power, specific tactics for becoming an empowering leader, and issues surrounding organizational politics, influence tactics, and succession planning. Students will learn how transactional leaders can become transformational leaders.

MLE 621: Contemporary Issues in Leadership **3 credits**

The challenges of contemporary leadership are increasingly complex. Contemporary leaders must simultaneously balance the needs and demands of various stakeholders while concurrently driving overall organizational success. This course will provide students with the opportunity to intentionally explore several major contemporary issues from both an organizational impact and a personal belief perspective. Students will conduct independent research of several contemporary leadership issues and present their findings in an informal round-table setting to their colleagues. Additionally, students will develop an informed position on a controversial issue and engage in debate with students that have taken the opposing position.

MLE 623: Applied Capstone/Leadership Project Presentation **3 credits**

This presentation is the culmination of the student's 15-month employer-based leadership project. A comprehensive written report and oral presentation will highlight the conclusion of this project.

Music (MUS)
MUS 252: Music Appreciation **3 credits**

Designed specifically for non-music majors and minors. This course contributes to the intellectual, emotional, and aesthetic understanding of music and expression as science and as an art closely akin to the other fine arts. Great works of music are heard in order that the student may gain insight into music's inner workings and develop a discriminating, intelligent appreciation of the best in music.

Nursing (NRS)
NRS 349: Spirituality in Health Care **3 credits**

This course explores the concept of spirituality as it relates to the person who is involved in the health care system. Since illness and stress can amplify spiritual concerns and needs, health care professionals are in a unique position to assist the patient/client in meeting those needs. This course explores the relationship between health care professionals and those they serve. Topics include performing spiritual assessment, identifying those experiencing spiritual well-being as well as those experiencing a threat to spiritual well-being, and planning and evaluating care related to spiritual wellness. A spiritual care framework is used to apply these concepts to a variety of populations in diverse clinical settings.

NRS 356: Issues in Pharmacology **3 credits**

This advanced course will explore contemporary issues in pharmacology. New and controversial drugs as well as complementary & alternative therapies will be presented and discussed. FDA regulations and the Institute of Medicine's Health Professions Education Core Competencies, ISMP & JCAHO standards will be studied as a means to improve the quality of pharmacologic care & safety.

NRS 410: Pathophysiology and Nursing Management of Clients' Health **3 credits**

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 will be enhanced through the use of case studies that integrate nutritional and pharmacological concepts. The understanding of environmental and biological risk factors will provide the nurse with the knowledge to provide health promotion and prevention education.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

**NRS 429: 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 life span, communication, community resources, and family education. Appropriate health promotion education will be evaluated against evidence based research and practice.

NRS 430: Professional Dynamics**3 credits**

This course is a bridge course for the RN 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. Emphasis is placed as well on writing and oral presentation skills.

**NRS 431: Community Health Systems
and Concepts I****3 credits**

This course focuses on the community as a large system of people, cultures, geography, economics, spiritual values, and legal-political influences that impact the health of 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 with community groups.

NRS 433^A: Introduction to Nursing Research**3 credits**

This 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. This course is designated as a GCU Writing Intensive Course. Prerequisite: PSY 363 or BIO 363.

**NRS 434: Health Assessment
for Health Care Professionals****3 credits**

This course focuses on methods of health history taking, physical examination skills, documentation, and health screening. The course emphasizes the individual as the client, functional health patterns, community resources, and the teaching learning process.

NRS 436: Nursing Management Concepts**3 credits**

This course focuses on developing the ability to communicate clearly and concisely in both written and oral formats as tools to provide professional nursing management in a variety of settings. Interactive, written, and oral presentation exercises are used to practice management skills.

NRS 437: Ethical Decision-Making in Health Care**3 credits**

This course is a general introduction to the field of biomedical ethics. Students study the application of ethics and moral theories to concepts and issues arising in the health care professions. The course provides students, both as consumers and providers, an opportunity to study ethical decision making, health care situations with implications for ethical decision making and analysis of ethical behavior of individuals involved in health care. Topics will include exploration of major ethical theories and principles, informed consent, confidentiality and ethical implications of selected issues such as abortion, euthanasia, assisted suicide and allocation of scarce resources.

**NRS 438: Community Health Systems and
Concepts II****3 credits**

This course focuses on nursing care of populations and communities, especially health promotion and communication. There is a concentration on selected vulnerable subgroups in the community. Emphasis is placed on critical analysis, using epidemiological data and functional health pattern assessments to plan and intervene with vulnerable groups.

NRS 439: Leadership in Nursing and Health Care**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.

NRS 440: Trends and Issues in Health Care**3 credits**

Trends and Issues 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; changing nursing roles. The study of these issues examines the impact on health care delivery systems in our society.

NRS 441: Professional Capstone Project**3 credits**

The capstone project is a culmination of the learning experiences while a student in the nursing program at Grand Canyon University's College of Nursing. The student will prepare a written proposal for a project whose focus in the resolution of an issue or problem significant to professional nursing practice. The proposal includes: 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.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

NRS 451: Nursing and Leadership 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.

Nursing (NUR)

NUR 203: Introduction to Pharmacology 3 credits

Introduction to Pharmacology has a twofold purpose. The first purpose is to introduce basic pharmacological concepts and drug groups. These concepts include drug action, legal considerations, and evaluation of drug therapy. Physiological, psychological, and sociocultural concepts related to drug therapy will also be presented. The second purpose of the course is to provide the pharmacological foundation necessary for safe administration of drugs, monitoring the effects of therapy, and teaching clients about medications. (The course is open to non-nursing majors on faculty signature.)

NUR 206A: Introduction to Nursing and Gerontology I 3 credits

This course emphasizes competence in nursing skills. Functional health patterns are used as the basis for assessment and nursing care of adult clients with emphasis on the aged. Communication, teaching, helping, problem solving, and leadership skills are introduced and applied as a framework for clinical practice. Prerequisite: Admission to the College of Nursing and NUR 207

NUR 206B: Introduction to Nursing and Gerontology II 3 credits

This course emphasizes application of nursing skills in care of adults with emphasis on aged. Communication, teaching, helping, critical thinking, and leadership skills are applied as a framework for clinical practice and nursing care. Prerequisite: NUR 206A

NUR 207: Therapeutic Communication 3 credits

This course focuses on the development of theoretical knowledge and interpersonal skills needed to interact effectively with clients in a variety of health care settings.

NUR 209: Health Assessment 3 credits

Health Assessment provides the systematic collection, validation, and communication framework for data that professional nurses use to make decisions about how to intervene, promote, maintain or restore health of adult and aged clients. This course emphasizes methods of data collection, clinical reasoning, and the nursing process, along with supervised lab practice and selected diagnostic and screening tests. Upon completion, the student will demonstrate beginning knowledge and competence in the performance of adult health history taking and physical assessment by utilizing Gordon's Functional Health Patterns Framework. Prerequisites: Admission to the College of Nursing and concurrent enrollment in NUR 206A, or special permission from faculty.

NUR 311: Adult Health Nursing I 6 credits

Adult Health Nursing I focuses on nursing care of adult hospitalized clients. Emphasis is placed on the analysis of assessment, the identification of nursing diagnoses and interventions for clients with acute, chronic, or terminal illness. Prerequisites: NUR 203, NUR 206B.

NUR 312: Adult Health Nursing II 6 credits

Adult Health Nursing II focuses on nursing care of clients in the acute setting in collaboration with health team members. Emphasis is placed on the identification of nursing diagnoses and interventions for clients with acute, chronic, or terminal illness. Prerequisites: NUR 311.

NUR 313: Nursing Care of the Childbearing Family 6 credits

Nursing Care of the Childbearing Family focuses on planning for health promotion in the normal and high risk childbearing family. Emphasis is placed on family education, use of community resources, and alternatives to promote positive outcomes during the childbearing phase of family development. Prerequisite: NUR 312.

NUR 314: Family-Centered Child Health Nursing 6 credits

Family Centered Child Health Nursing integrates theories from nursing, child development, and family development. These concepts are related to the planning of care for children, adolescents, and their families who are well or experiencing acute or chronic illnesses. Emphasis is placed on teaching and on community resources related to the child-rearing family. Prerequisite: NUR 312.

NUR 398^A: Introduction to Nursing Research 3 credits

This 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. This course is designated as a GCU Writing Intensive Course. Prerequisites: PSY 363 and NUR 206, or permission of instructor.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

NUR 411: Community Health Nursing **5 credits**

Community Health Nursing focuses on community assessment and intervention with vulnerable groups and communities. Emphasis is placed on critical analysis, using epidemiological data and functional health patterns to plan and intervene in areas of health promotion, screening, and rehabilitation with community groups. Prerequisites: NUR 313 and NUR 314.

NUR 412: Home Health Care Nursing **3 credits**

Home Health Care focuses on the nursing care of acutely, chronically, and terminally ill clients of all ages and their families. Emphasis is placed on the integration of environmental, psychosocial, economic, cultural, personal, and family health concepts in the home setting. Creative problem solving which enables a family to care for their family member's health needs is a significant element of this fundamental course. Prerequisites: NUR 313 and NUR 314.

NUR 413: Community Mental Health Nursing **5 credits**

The Community Mental Health Nursing course is focused on utilizing the nursing process in providing mental health care in the community setting and inpatient psychiatric setting with individuals, families, and community groups. Emphasis is placed on therapeutic communication and nursing care at the primary, secondary, and tertiary levels of mental health intervention. Concepts of environment, group process, family therapy, interdisciplinary collaboration, and affective skills of critical thinking are integrated with the bio-psychosocial, spiritual and cultural aspects of mental health nursing practice. Prerequisites: NUR 313 and NUR 314.

NUR 443: Nursing Management and Leadership **2 credits**

Nursing Management and Leadership roles are expected in today's changing health care agencies. Emphasis is placed on the interdisciplinary approach to planning nursing care for groups using selected standards. The course includes a critical examination of professional development and peer collaboration as well as the economic, legal and political factors influencing health care. Prerequisites: NUR 411, NUR 412, NUR 413.

NUR 451: Nursing Leadership and Management **3 credits**

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.

NUR 456: Complex Care **6 credits**

The focus of this complex care course is the acute care and collaborative management of critically ill clients. Emphasis is placed on the recognition of subtle changes in assessment findings, the development of a plan of care in response to immediate and impending needs, the application of advanced nursing skills, and the nurturing of sound, clinical judgment.

NUR 498A^Δ: Capstone **1 credit**

This course integrates theories and concepts from liberal arts education into nursing practice through the formation of a clinical change project. Emphasis is on applying evidenced-based practice into the clinical setting. This course is designated as a GCU Writing Intensive Course. Co-requisites: NUR 443, NUR 456 and NUR 498B.

NUR 498B: Practicum in Nursing **3 credits**

Practicum in Nursing provides a selected clinical experience to optimize the transition to a professional career. Nursing care areas are chosen according to preceptor availability and student focus. A faculty member assists in planning, implementing, and evaluating the learning experience. Co-requisites: NUR 443 and NUR 498A.

NUR 501: Advanced Nursing Issues and Role **3 credits**

This course examines the expanded practice of the Advanced Professional Nurse. The focus of the course is scope of practice, role behavior, and depth and breadth of knowledge in selected areas of advanced practice (FNP and CNS) and nurses in role specialties such as nursing education and nursing leadership. Course content includes an exploration of critical questions and current issues related to the various defined Advanced Professional Nursing roles and examination of the related role issues with an emphasis on caring, diversity, and spiritual aspects in nursing care delivery.

NUR 503: Health Care Policy and Finance Issues **3 credits**

This course integrates the process of health care policy development with a critical focus on the organizational and financial aspects of health care delivery systems including managed care systems, Medicare and Medicaid issues, and continuous quality improvement (CQI).

NUR 505: Advanced Nursing Theory **3 credits**

This course focuses on the critical evaluation and utilization of the theoretical foundations of nursing as well as pertinent theoretical concepts from related fields of study such as the social and biological sciences, educational, organizational, and leadership theory. Prerequisites: NUR 501, NUR 503

NUR 507: Health Care Research Analysis and Utilization **3 credits**

This course focuses on the critical analysis of health care and nursing research with a focus on the utilization of evidence-based research as foundation of client care and development of client services. Advanced research methods as applied toward complex clinical and organizational problems will be integrated. Prerequisites: NUR 501, NUR 503

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

NUR 640: Adv. Health Assessment and Diagnostic Reasoning with Skills Lab **3 credits**

This course builds upon the student's previous assessment skills offering more advanced health assessment content to provide the foundation for the advanced practice-nursing role. This course gives emphasis to focused assessments for a chief complaint that include physical, psychosocial and spiritual health assessment, risk assessment, functional assessment, and physical examination in diverse populations. The student uses a systematic method of diagnostic reasoning and clinical decision-making to establish a differential diagnosis. An overview of appropriate protocols for performing health screening and ordering, performing, and interpreting lab, radiographic, and other diagnostic data are included based on best practice consistent with resource allocations. Effective communication and client teaching/counseling to eliciting clients' interpretation of their health status and perceived barriers, is incorporated throughout the course so to maintain a nursing focus on patient responses to illness or the threat of illness. Effective documentation and medical record keeping are required. To begin the transformation to an advanced professional nurse, students are to start a professional journal that they are to keep throughout the program. (1 clinical credit = 50 contact credits). Prerequisite Course: Undergraduate Health Assessment course. Co-requisite: NUR 640C.

NUR 640E: Adv. Health Assessment for Nurse Educators **3 credits**

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 Nurse Educator. This course emphasizes knowledge of physical assessment, including physical, psychosocial, spiritual health assessment, risk assessment, functional assessment, and physical examination in diverse populations. The student uses a systematic method of diagnostic reasoning and clinical decision-making to establish data that can be utilized in patient care or nursing education. An overview of appropriate protocols for performing health screening, as well as performing, and interpreting laboratory, radiographic, and other diagnostic data are included. These are based on best practices consistent with resource allocations. To maintain a nursing focus on patient responses to illness or the threat of illness, effective communication and client teaching is incorporated throughout the course. The importance of effective documentation and medical record keeping is included.

NUR 642: Advanced Physiology and Pathophysiology **3 credits**

This web-enhanced course focuses on the advanced physiology and pathophysiology principles. This course will be used to guide the Family Nurse Practitioner (FNP), Clinical Nurse Specialist (CNS), and the Clinical Nurse Specialist Education (CNS-ED) student in interpreting changes in normal function that result in symptoms indicative of illness. The emphasis will be placed on the genetic, molecular, cellular, and organ system levels. Prerequisite: Undergraduate Pathophysiology

NUR 642E: Advanced Physiology and Pathophysiology for Nurse Educators **3 credits**

This course focuses on the advanced physiology and pathophysiology principles. This course will be used to guide the Nursing Education student in interpreting changes in normal function that result in symptoms indicative of illness. The emphasis will be placed on the genetic, molecular, cellular, and organ system levels. Prerequisite: NUR 640E

NUR 643: Advance Practice Management of Adult Healthcare Problems in Primary Care **6 credits**

This course concentrates on the three levels of prevention and comprehensive primary care management of adult health care problems of individuals, and their families, within a culturally, and spiritually diverse environment, contextually within the health care delivery system. Advanced health assessment, advance pharmacology, spirituality and advanced physiology and pathophysiology principles are integrated along with advanced nursing theory. Evidence-based research is utilized to develop comprehensive, cost effective, least invasive, quality health care guidelines for adult health care problems. These guidelines are to include health promotion counseling, screening, and client education to optimize the client's health. Emphasis is placed on critical thinking and diagnostic reasoning to guide clinical decision-making. Management of client illness includes ordering diagnostic tests, prescribing pharmacologic and non-pharmacologic integrative healing therapies, collaboration with other health professionals and community agencies, and appropriate follow-up. A professional interpersonal relationship is to be learned between practitioner and patient. A collegial relationship is to be learned between practitioner and other allied-health professionals. Leadership opportunities in health economics and negotiating within the health care delivery system are provided. The student will collaborate with faculty members to select a community-based, adult-health focused, clinical site for completion of 150 clinical hours. Prerequisites: NUR 640, 642, 644 and 646.

NUR 644: Advanced Pharmacology **3 credits**

This web-enhanced course focuses on the advanced pharmacotherapy principles and practices to enable the Family Nurse Practitioner (FNP), Clinical Nurse Specialist (CNS), and the Clinical Nurse Specialist Education (CNS-ED) student to prescribe and monitor the effects of medications and selected herbal therapy. Emphasis is on the pharmacodynamics of clients with common, acute and chronic health problems in various stages of the life cycle in diverse populations. Evidence-based research provides the basis for selecting effective, safe but cost-efficient pharmacologic or integrative regimens. Appropriate client education as to various prescribed pharmacologic agents is incorporated. Legal requirements for prescriptive writing and dispensing authority are covered. Prerequisite: NUR 640. Co-requisite: NUR 642

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

NUR 644E: Advanced Pharmacology for Nurse Educators**3 credits**

This course focuses on the advanced pharmacotherapy principles and practices to enable Nurse Educator students to monitor the effects of medications and selected herbal therapy. Emphasis is on the pharmacodynamics of clients with common, acute and chronic health problems in various stages of the life cycle in diverse populations. Evidence-based research provides the basis for selecting effective, safe but cost-efficient pharmacologic or integrative regimens. Appropriate client education as to various prescribed pharmacologic agents is incorporated. Prerequisite: NUR 640E & NUR 642E

NUR 645: Theories and Methods of Teaching **3 credits**

This course focuses on theories of teaching/, traditional, and alternative instructional strategies, and evaluation methods applicable to nursing education in the classroom and clinical setting. Strategies to enhance critical thinking are included. The course includes the development of learning activities for adult learners from diverse backgrounds. Prerequisite: NUR 649.

NUR 646: Health Promotion in Advanced Practice Nursing **3 credits**

This course focuses on the three levels of prevention and comprehensive primary care management of pediatric and adolescent health care problems of individuals, and their families, within a culturally and spiritually diverse environment, contextually within the health care delivery system. Advanced health assessment, advanced pharmacology and advanced physiology and pathophysiology principles are integrated along with spirituality concepts and advanced nursing theory. Evidence-based research is utilized to develop comprehensive, cost effective, least invasive, quality health care guidelines for these pediatric and adolescent health care problems. These guidelines are to include health promotion counseling, client education, with appropriate screening to optimize the client's health. Emphasis is placed on critical thinking and diagnostic reasoning to guide clinical decision-making. Management of client illness includes ordering diagnostic tests, prescribing pharmacologic and non-pharmacologic integrative healing therapies, collaboration with other health professionals and community agencies, and appropriate follow-up. A professional interpersonal relationship is to be learned between practitioner and patient. A collegial relationship is to be learned between practitioner and other allied-health professionals. Leadership opportunities in health economics and negotiating within the health care delivery system are provided. Prerequisite: NUR 640.

NUR 647: Instructional Development for Distance Learning **3 credits**

This course emphasizes the development (or conversion) of 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 leaning environment. Prerequisite: NUR 645

NUR 649: Curriculum Development **3 credits**

This course examines professional standards as a foundation for curriculum design in nursing education in all settings. It explores the nature of traditional, nontraditional, and continuing nursing education. Topics include the role of the faculty, curriculum design; its dimensions, objectives, and dynamics. The course includes curriculum frameworks that support adult learning, competencies, and learning experiences to achieve measurable outcomes, and a model for curriculum evaluation. Prerequisites: NUR 640E, NUR 642E, NUR 644E.

NUR 651: Advance Practice Management of Pediatric and Adolescent Healthcare Problems in Primary Care **6 credits**

This course focuses on the three levels of prevention and comprehensive primary care management of pediatric and adolescent health care problems of individuals, and their families, within a culturally and spiritually diverse environment, contextually within the health care delivery system. Advanced health assessment, advanced pharmacology and advanced physiology and pathophysiology principles are integrated along with spirituality concepts and advanced nursing theory. Evidence-based research is utilized to develop comprehensive, cost effective, least invasive, quality health care guidelines for these pediatric and adolescent health care problems. These guidelines are to include health promotion counseling, client education, with appropriate screening to optimize the client's health. Emphasis is placed on critical thinking and diagnostic reasoning to guide clinical decision-making. Management of client illness includes ordering diagnostic tests, prescribing pharmacologic and non-pharmacologic integrative healing therapies, collaboration with other health professionals and community agencies, and appropriate follow-up. A professional interpersonal relationship is to be learned between practitioner and patient. A collegial relationship is to be learned between practitioner and other allied-health professionals. Leadership opportunities in health economics and negotiating within the health care delivery system are provided. The student will collaborate with faculty members to select a community-based, pediatric/adolescent-health focused, clinical site for completion of 150 clinical hours. Prerequisite: NUR 643 Advance Practice Management of Adult Healthcare Problems in Primary Care.

NUR 654: Diverse Application of Advanced Practice Concepts **3 credits**

This course presents practice concepts that blend the function of the clinical nurse specialist with the FNP role for a futuristic vision for integration of these roles to include assessing and addressing the needs of client populations and nursing personnel across the continuum of care. Management concepts such as case management, teaching of professionals, program planning, and evaluation, peer review, and broad-based consultation as well as marketing, business management, resource management, cost effective use of formularies, and payment for services including processing insurance claims will be included. Prerequisite: NUR 652.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

NUR 655: CNS I - Theoretical Foundations 6 credits

This course focuses on the theories, conceptual models and research that are the basis of CNS practice. Building on advanced practice nursing theory, students will engage in discussion of theoretical and empirical knowledge of illness and wellness, both of disease and non-disease etiologies, from the three spheres of influence, particularly the patient/client sphere. Advanced health assessment, advanced pharmacology and advanced physiology and pathology principles are integrated along with professional/legal, and spirituality concepts. Content will include:

- Theoretical foundations of CNS practice.
- Phenomena of nursing concern, integrating health promotion.
- Design and development of innovative nursing interventions.
- Clinical inquiry/critical thinking using advanced knowledge.
- Consultation, teaching and coaching with focus on the individual/family/groups
- Measurement, outcome evaluation, including cost-effectiveness and evidence-based research focused on the patient/client sphere.

NUR 657: CNS II - Influence Change in Health Care Systems 6 credits

This course focuses on the essential characteristics and competencies of the CNS, exploring the CNS roles of clinical leader, collaborator, change agent, consultant, educator and researcher. The student will discover how utilizing those roles, a CNS can influence the quality of care within health care systems. The course builds on the patient/client sphere of influence focusing on the broader nurse/nursing practice and organizational/systems spheres of influence. Content will include:

- Influencing change.
- Systems thinking.
- Leadership for multidisciplinary collaboration.
- Consultation, teaching and coaching focused on groups.
- Measurement, outcome evaluation including cost effectiveness, and evidence-based research focused on the group/organization.
- Technology, products and devices development/evaluation.
- The clinical experience will take place in the student's chosen specialty area and the above concepts will be integrated in that specialty setting.

Prerequisite: NUR 655.

NUR 660: CNS Internship/Teaching Practicum 4 credits

(4 clinical credits = 200 contact credits) The CNS with education focus will complete a culminating practicum experience that combines the experiences for NUR 663 CNS Internship and NUR 665 Teaching Practicum.

NUR 661: Advanced Practice Clinical Practicum 4 credits

(3 clinical credits = 150 contact credits) A culminating practicum experience, completed in person with a preceptor, to provide comprehensive health care to diverse clients across the life span. This clinical practice will afford the student opportunity to refine their clinical decision management of common, acute and chronic health problems. The course includes the application of clinical nurse specialist concepts such as case management, teaching of professionals, peer reviews, cost effective use of formularies, coding for reimbursement. Online case study discussions analyzed by evidence-based practice guidelines using the SOAP format are required.

NUR 662: Advance Practice Management of Geriatric and Women's Healthcare Issues in Primary Care 6 credits

This course concentrates on the three levels of prevention and comprehensive primary care management of geriatric and women's health care issues (including care of the pregnant patient) of individuals, and their families, within a culturally and spiritually diverse environment, contextually within the health care delivery system. Advanced health assessment, advance pharmacology, spirituality and advanced physiology and pathophysiology principles are integrated along with advanced nursing theory. Evidence-based research is utilized to develop comprehensive, cost effective, least invasive, quality health care guidelines for geriatric and women's health care problems. These guidelines are to include health promotion counseling, screening, and client education to optimize the client's health. Emphasis is placed on critical thinking and diagnostic reasoning to guide clinical decision-making. Management of client illness includes ordering diagnostic tests, prescribing pharmacologic and non-pharmacologic integrative healing therapies, collaboration with other health professionals and community agencies, and appropriate follow-up. A professional interpersonal relationship is to be learned between practitioner and patient. A collegial relationship is to be learned between practitioner and other allied-health professionals. Leadership opportunities in health economics and negotiating within the health care delivery system are provided. The student will collaborate with faculty members to select a community-based, geriatric and women's health focused, clinical site for completion of 150 clinical hours. Prerequisite: NUR 651 Advance Practice Management of Adult Healthcare Problems in Primary Care.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

NUR 663: CNS Internship **4 credits**

(4 clinical credits = 200 contact credits) A culminating practicum experience, completed in person with a preceptor, provide experiences in the three spheres of influence of CNS practice-patient/client, nurses and nursing practice and organization/system within their specialty area. This clinical practice will afford the student opportunity to refine their clinical decision-making skills in differential illness diagnoses and treatments that require nursing interventions, to develop their CNS roles of clinical expert, leader, collaborator, consultant, educator, researcher and change agent and to explore how their professional attributes, ethical conduct and professional citizenship are integrated in CNS practice to affect outcomes within the spheres. The course includes the application of the core content specific to CNS practice identified in the CNSI and CNSII courses. Online case study discussions analyzed by evidence-based practice guidelines are utilized. Impact of the student CNS on nursing practice and system level outcomes are identified. Prerequisite: NUR 657 CNS II.

NUR 665: Teaching Practicum **3 credits**

(3 clinical credits = 150 contact credits) A culminating practicum experience, completed in person with a nurse educator preceptor in a selected setting. This clinical practice will afford students the opportunity to refine educational expertise in the areas of assessment of learning needs, program/curriculum planning, implementation, and evaluation. The course includes needs of the adult learner, alternative learning methods including distance learning, and budget planning. Prerequisites: NUR 645, NUR 647, and NUR 649.

NUR 698: Evidence-based Practice Project **3 credits**

This course provides an opportunity to prepare an evidence-based practice (EBP) project proposal that addresses a problem, issue, or concern in professional practice. Students will identify a problem focus, propose a research-based solution, search for evidence using the evidence-based databases that support their solutions, and develop implementation, evaluation, and dissemination plans. Students will focus on developing an EBP project that is appropriate for their educational track: nursing leadership, adult clinical nurse specialist, nursing education, or family nurse practitioner.

Professional Counseling (PCN)

PCN 300: Foundation of Drug Abuse and Human Behavior **3 credits**

An overview of drug abuse and the effects of mood altering drugs on human behavior.

PCN 301: Foundation of Alcohol Abuse and Human Behavior **3 credits**

An overview of alcohol abuse and the effects of alcohol on human behavior.

PCN 310: Behavioral Pharmacology **3 credits**

An overview of the nervous system and the way that drugs affect the human body. Focus is on comparing different substances in terms of their neurological action, physiological dangers, and the effects of their usage on the individual and on society.

PCN 345: Co-occurring Disorders, Mental Illness and Substance Abuse **3 credits**

An exploration of the issues, principles, and techniques involved in diagnosing and treating patients with coexisting mental illness and chemical dependency.

PCN 350: Group Therapy for Addicted Populations **3 credits**

Focus on group dynamics and group process as they relate to chemical dependency. Exploration of group developmental stages, family intervention models, various counseling approaches/techniques, and their applications to therapeutic, education, and family groups.

PCN 405: Psychotherapy Models **3 credits**

An overview of models of psychotherapy prevalent in counseling, with a focus on those most useful in the treating of chemical dependency.

PCN 420: Family Dynamics and Substance Abuse/Addiction **3 credits**

Introduction to the dynamics of the disease of alcoholism and its effect on the family unit. Emphasis on the theories of alcoholism, the skills and knowledge necessary to treat families, family therapy theories, diagnosis of the alcoholic family, problems of children and adult children of alcoholics, treatment of spouses, evaluation of treatment, and prevention models.

PCN 426: Counseling Multicultural and Diverse Populations **3 credits**

Exploration of implications of chemical use on multicultural and diverse populations. Emphasis on area influences as well as the impact of paraprofessional relationships.

PCN 450: Self-Help Groups **3 credits**

An overview of the principles of various self-help groups including Alcoholics Anonymous, Al-anon, Al-Ateen, Narcotics Anonymous, Co-dependents Anonymous, and Adult Children of Alcoholics. Emphasis on 12-step self-help groups.

PCN 465: The Therapeutic Process and Ethics **3 credits**

An overview of ethics, techniques, and therapeutic approaches used in working with persons with a substance abuse disorder.

PCN 480: Substance Abuse Practicum **3 credits**

Opportunity for advanced students to use their developed knowledge and skills in an applied setting with supervision.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

PCN 500: Counseling Theories	3 credits
This course provides a comprehensive survey of the major counseling theories and principles. The coursework shall include the following theories: Psychoanalytic, Adlerian, Existential Psychotherapy, Behavioral, Cognitive Behavioral, Person Centered, Reality Therapy/Choice Theory and, Rational Emotive.	
PCN 505: Professional Counseling Ethics	3 credits
This course provides a broad understanding of professional counseling ethics, legal standards, and responsibilities. An important goal of this course is to help the student develop a high standard of ethical performance in their career as professional	
PCN XXX: California Professional Ethics	3 credits
To be determined.	
PCN XXX: Child Abuse Assessment and Reporting	1 credit
To be determined.	
PCN XXX: Spousal or Partner Abuse Assessment and Detection	1 credit
To be determined.	
PCN XXX: Human Sexuality	1 credit
To be determined.	
PCN XXX: Advanced Family Systems Theory	3 credits
To be determined.	
PCN 509: Social and Cultural Diversity Issues in Counseling	3 credits
This course provides a broad understanding of issues and trends in a multicultural and diverse society. Studies in this area shall 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; and theories of multicultural counseling, theories of identity development, and multicultural competencies.	
PCN 511: Introduction to Chemical Dependency Counseling	3 credits
This course provides a broad understanding of the stages, processes, and effects of chemical dependency, social and psychological dynamics of chemical dependency, and the professional's role in prevention, intervention, and aftercare. This course will also explore theories of addiction, drug classification, assessment, and treatment.	

PCN 515: Counseling Skills in the Helping Relationships	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 skills to include the following will be emphasized: interviewing, the development of therapeutic relationships, establishment of appropriate counseling goals, strategies, evaluation of client outcome, and successful termination of the counseling relationship.	
PCN 518: Human Growth and Development	3 credits
This course provides an understanding of the nature and needs 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 strategies for facilitating optimum development over the life-span will be addressed.	
PCN 520: Group Counseling Theory and Practice	3 credits
This course provides a broad understanding of group development, group dynamics, group counseling theories, and ethical standards. The course will also address group process components, appropriate selection criteria, developmental stage theories, group members' roles and behaviors; group leadership styles and approaches.	
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 will be addressed. The following statistical concepts will also be addressed: scales of measurement, measures of central tendency, and indices of variability, shapes and types of distributions, correlations, reliability, and validity.	
PCN525: Career Development and Counseling	3 credits
This course provides a broad understanding of career development and related life factors including the following: psychotherapy, career counseling techniques and processes, career development theories, decision-making models, issues of diversity, interrelationships between work and family.	

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

PCN 527: Psychopharmacology and Addictions 3 credits

This course provides a broad understanding of psychopharmacology theories of drug abuse, addiction, and treatment. The student is introduced to the basic principles of pharmacology, anatomy, and physiology as applied to the major classes of psychoactive drugs of abuse/addiction. It also examines the effects of various drugs on human behavior. The course introduces drugs that are being developed to support drug treatment such as methadone, suboxone and neloxone. Emphasis is placed on basic principles of drug ingestion, distribution, elimination, dose response relationships, neurotransmitter chemicals, and synaptic activity.

PCN 529: Co-occurring Disorders 3 credits

This course introduces students to psychiatric disorders in combination with an alcohol and/or drug abuse disorder or co-occurring disorder. This course will examine how the treatment needs of persons with a co-occurring disorder differ significantly from the treatment needs of persons with only an alcohol and/or drug abuse disorder or a psychiatric disorder.

PCN: 531: Family Issues and Addictive Disorders 3 credits

This course examines the role of alcohol and/or drug addiction in family systems. Various modalities designed to intervene in the alcohol and/or drug addicted family system will be discussed. The treatment roles and responsibilities of addicted persons and their families will also be examined.

PCN 535: Counseling Chemical Dependency Adolescents 3 credits

This course provides an introduction to adolescent alcohol and drug abuse prevention and treatment techniques and interventions. Signs, symptoms, and patterns of adolescent alcohol and drug abuse/addiction will be examined. Students will 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: the importance of research, opportunities, and difficulties in conducting research. Research methods such as qualitative, quantitative, single-case designs, action research, and outcome-based research will be addressed.

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 occur in mental illnesses. The course includes a survey of major psychiatric disorders and their causes.

PCN 610: Diagnostics, Assessment, and Treatment 3 credits

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 disorders. Included is an introduction to the use of the diagnostic tools including the DSM-VI TR, and the integration of diagnostic and assessment information, in the development of treatment plans.

PCN 615: Pre-Practicum 3 credits

A pre-practicum or supervised field work experience under the supervision of a faculty member, which shall include 100 total hours of pre-practicum activities, of which a minimum of 40 hours shall be direct client contact hours. Prerequisites: PCN 500, PCN 505, PCN 520, PCN 610, and release by the college office of field experience documenting that the following requirements have been completed: Documentation (with face sheet) of personal liability insurance (\$1 million/\$3 million) coverage, programmatic GPA of 3.0 or higher, completion of at least 24 credits in the program, site approval, and site supervisor approval.

PCN 660/(A-D): Practicum/Internship (I-IV) 3 credits

Each supervised internship provides an opportunity to accumulate 150 contact hours of required practicum experience. Students will use this 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 internship will be performed under the supervision of a faculty member and by an on-site supervisor approved by the college or university. Documentation of completed contact hours will be submitted directly to the COHS office of field experience for verification and tracking. Prerequisite: PCN 615.

Physical Education (PED)

PED 103: Varsity Athletics—Fall/Winter 1 credit

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 credit

For athletes who compete on varsity intercollegiate athletic teams at Grand Canyon University. Each athlete may receive credit for this course once only.

PED 121A: Weightlifting and Fitness 1 credit

Instruction and practice in the skills and strategies of the sport. Activity selection is based on facility availability, instructor preference, and student input.

PED 195: Lifetime Wellness 2 credits

An introductory course in exercise and wellness. Emphasis is placed on the acquisition of knowledge about what fitness entails, self-evaluation of student's present fitness needs, and developing a personalized fitness program.

PED 246^A: Instructional Strategies in Physical Education 3 credits

A course designed to prepare future physical education teachers, fitness instructors, and recreational leaders in the skills necessary to present physical education activities to groups. Included will be the development of lesson plans, course goals, and performance objectives that can be applied to the presentation of any skill or activity. A Writing-Intensive course. Prerequisite: Must be a Health, Exercise Science, and Physical Education major or minor.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

PED 252: Teaching of Team Sports I	2 credits
Practice and skills in the sports of soccer, touch football, and team handball for majors and minors. Includes lesson plans, teaching techniques, evaluation, and proficiency in skills. Three credits per week. Prerequisite: PED 246 (may be taken concurrently).	
PED 262: Teaching of Team Sports II	2 credits
Practice and skills in the sports of basketball, volleyball and softball for majors and minors. Includes lesson planning, teaching techniques, evaluation, and proficiency in skills. Three credits per week. Prerequisite: PED 246 (may be taken concurrently).	
PED 282: Teaching Individual Activities I	2 credits
Practice and skills in the activities of badminton and tennis are covered in this course for majors and minors. Includes lesson planning, teaching procedures, evaluation, and proficiency in skills. Three credits per week. Prerequisite: PED 246 (may be taken concurrently)	
PED 292: Teaching of Individual Sports II	2 credits
Instruction in the theoretical and practical aspects of flexibility, stretching, and weight training activities. Includes lesson planning, teaching techniques, evaluation and proficiency in skills. Prerequisites: PED 195 and PED 246 (may be taken concurrently).	
PED 323: Athletic Coaching: Baseball	3 credits
A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy of baseball.	
PED 333: Athletic Coaching: Basketball	3 credits
A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy in basketball.	
PED 334: Athletic Coaching: Volleyball and Softball	3 credits
A study of the fundamental skills of volleyball and softball, and how each of these skills can be presented and effectively evaluated. Further study includes the dynamics of team structure, practice organization, conditioning, and coaching philosophy for these sports.	
PED 363: Physical Education for the Exceptional Child	3 credits
A course designed to develop methods and techniques of teaching the exceptional child in motor activities. Emphasis is also placed on the activities and programs to be included in the curriculum. Prerequisite: PED 246 (may be taken concurrently)	
PED 403: Physical Education for the Elementary Grades	3 credits
A study of the development of a program of physical activities adapted to the school situation and to the individual needs of the child. Prerequisites: EXS 383 and four credits of Professional Activities.	

PED 413: Physical Education for the Secondary School	3 credits
Designed for individuals who plan to teach at the middle or high school level. Topics include classification of students, organization of classes, choice and selection of appropriate activities and materials, progression, and testing. Prerequisites: EXS 383 and four credits of Professional Activities.	
PED 423: Organization and Administration of Physical Education and Athletics	3 credits
This course deals with administrative tasks and techniques for use in departments of physical education, athletics, and fitness or exercise centers. Topics include budget and finance; organizing tournaments; and business, administrative, and ethical decision-making in the exercise science setting. Designed for majors in exercise science. Prerequisite: PED 413 or instructor's approval.	
PED 433: Theory of Coaching	3 credits
This course addresses the role of the coach in developing players beyond the basic skills of playing the game. It focuses on the Christian approach to coaching, intramural coaching, coaching styles, counseling athletes, and coaching under stress. This course applies to all coaching endeavors. Prerequisite: One athletic coaching class.	
PED 497A: Internship in Physical Education A	1 credit
The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.	
PED 497B: Internship in Physical Education B	2 credits
The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.	
Philosophy (PHI)	
PHI 101: Introduction to Philosophy	3 credits
An introduction to the discipline of philosophy through a study of representative philosophic problems. Topics to be considered include: What can be known with certainty? What makes actions right? Are our choices free? Can God's existence be proved?	
PHI 215: Introduction to Logic	3 credits
A study of the principles of correct reasoning with emphasis on distinguishing between good and bad arguments of various types.	
PHI 222: Foundations of Critical Thinking	3 credits
This course seeks to build the foundations of reasoned and creative thinking through problem solving and analytical building of a "life philosophy." It is a study in applied verbal logic and ethical belief systems that stresses constructive argument.	

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

PHI 225: Introduction to Ethics **3 credits**

An introductory study of some of the central concepts, procedures, and issues in the field of ethics, focusing on the nature of ethical thinking and how it applies to particular judgments about actions, character, and values. Topics to be considered include ethical relativism, morality and self-interest, the basis of moral obligation, moral virtues and vices, and the relevance of religious beliefs to morality.

PHI 303 ^A: Philosophy of Education **3 credits**

A study of the historical, philosophical, and sociological influences that have shaped American education, the issues faced by educators today, and the challenges for the future that await persons now entering the teaching profession. The course is designed for students who have already committed themselves to a career in education or are exploring a career in education. Includes a first phase observation in the K-12 classroom. A Writing-Intensive course. Prerequisite: Sophomore status.

PHI 318: Faith and Reason **3 credits**

An examination of the reasonableness of religious beliefs, especially beliefs, which are central to the Christian Faith. Topics include arguments for the existence of God, religious experience, the problem of evil, miracles, religious language, and life after death. Prerequisite: PHI 101.

PHI 322: Case Studies **3 credits**

Practical application of skills taught in various logic and writing courses, but especially PHI 222. Students will analyze current debates within a variety of fields. They will research, write, and present orally on these debates, with the objective of developing reasoned, philosophically based positions on the issues. Prerequisites: PHI 215, PHI 222..

PHI 329: Biomedical Ethics **3 credits**

A study of the application of moral concepts and principles to issues arising in the health care professions. Topics include role conflicts, paternalism, truth telling, informed consent, human experimentation, abortion, euthanasia and the allocation of scarce resources.

PHI 351: Christian Apologetics **3 credits**

The course is designed to evaluate the various methodological approaches to the defense of the Christian faith. It examines and encourages the formulation of a reasoned defense in response to religious, historical or scientific objections to the Christian faith from a post-modern worldview.

PHI 463: World Religions **3 credits**

A study of the major contemporary religions of the world including both historical background and development, and current beliefs and practice with emphasis on basic religions: Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, Shinto, Zoroastrianism, Judaism, Islam, and Baha'i.

Physics (PHY)

PHY 101: Introduction to Physical Science **3 credits**

A survey of physical science emphasizing applications of physical science to modern life. Co-requisites: PHY 101L

PHY 101L: Introduction to Physical Science: Lab **1 credit**

A lab course designed to complement the physical principles covered in the PHY 101 lecture. Co-requisites: PHY 101

PHY 107: Astronomy **3 credits**

A study of the principles and history of astronomy, the cosmos, the solar system, and celestial phenomena. Appropriate as an elective for non-science majors; designed to develop an appreciation and understanding of the natural laws of the universe. Co-requisite: PHY 107L

PHY 107L: Astronomy: Lab **1 credit**

A lab course designed to complement the topics covered in the PHY 107 lecture. Co-requisites: PHY 107

PHY 111: General Physics I **3 credits**

Survey of physical principles and concepts using mathematical descriptions based on algebra and trigonometry. Topics covered include force and motion, physical properties of materials, and thermodynamics. Prerequisites: MAT 121, or instructor's approval. Co-requisite: PHY 111L.

PHY 111L: General Physics I: Lab **1 credit**

Lab experiments demonstrating the physical principles in the PHY 111 lecture. Co-requisite: PHY 111

PHY 112: General Physics II **3 credits**

Continuation of PHY 111. Topics covered include wave motion, electrostatics, optics, and magnetism. Prerequisite: PHY 111. Co-requisite: PHY 112L

PHY 112L: General Physics II: Lab **1 credit**

Lab experiments demonstrating the physical principles in the PHY 112 lecture. Co-requisite: PHY 112

Political Science (POS)

POS 100: Introduction to Political Science (Politics, Power and the Individual) **3 credits**

Reflection and analysis of basic questions: What is politics? How do institutions of our body politic affect the individual? How does the individual impact the "Goliath" that is government? More theoretical than Federal Government, and more practical than Political Thought.

POS 252: Federal Government **2 credits**

A survey of American government. Meets the teacher certification requirement for American Government.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

POS 262: Arizona Government	1 credit
A survey of Arizona History and Government. Meets the teacher certification requirement for Arizona Government.	
POS 296: Social Research	3 credits
Also JUS 296 and SOC 296. An exploration of the various methods used by social scientists to find answers to the questions posed by their subject matter. Includes basic terminology, concepts and practice using methods such as surveys, experiments, field research, and evaluation, as well as some unobtrusive methods. Prerequisite: SOC 101.	
POS 300: Arizona/Federal Government	3 credits
A survey of Arizona History and Government, as well as American government. Meets the teacher certification requirement for Arizona Government and American government.	
POS 323: International Relations	3 credits
A study of the history of international politics, contemporary world power structure, and international law and organization. Prerequisite: POS 100 or six (6) credits of history.	
POS 344^A: Political Thought	3 credits
Consideration of major political thinkers and thoughts from classical to modern times, gleaned from primary and secondary sources. The student will explore and critique belief systems such as socialism and libertarianism, and specific concepts such as freedom, rights, democracy, and communitarianism. Prerequisite: POS 100.	
POS 363: Introduction to Probability and Statistics	3 credits
Also JUS 363, PSY 363, and SOC 363. 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 120 or equivalent.	
POS 370 ^A: Politics, Religion, and Ethics	3 credits
Integration of political premises within an ethical framework, generally, and with Christian principles, specifically. The student will also study the outcome of approaching the workings of government with other religious beliefs or their absence. Among the topics: Must a Christian obey the government? Should we support the welfare state or moral-based laws? Can a Christian be a politician? A Writing-Intensive course. Prerequisite: POS 100 or instructor's approval.	
POS 380: Comparative Governments	3 credits
Analysis of selected foreign governments, chosen for their differences in representative form, geographic and cultural distinctions, and maturity. The student will identify strengths and weaknesses, and discuss the relative moral worth of the paradigm between the state and the individual within each system. Prerequisite: POS 100.	

POS 416: American Diplomatic History	3 credits
Also HIS 416. The diplomatic history of the United States from independence to the present. A major emphasis is given to United States diplomacy and foreign policy since World War I. Prerequisite: Six (6) credits of history and/or political science, or instructor's approval.	
POS 417: Constitutional History of the United States	3 credits
A study of the origin, development, interpretations, and amendments to the United States Constitution. Special emphasis is given to the interpretation of the Constitution by the courts. Prerequisites: Six (6) credits of history or political science, or instructor's approval.	
POS 497: Internship	4 credits
Placement of student in a public policy, party, campaign, or other related agency or organization to further the student's integration of theory with practice. Prerequisites: Junior or senior status, and 15 credits of Political Science courses.	
POS 498^A: Advanced Topics: Political Science	3 credits
An in-depth study of chosen topics such as Political Parties and Ideologies, Campaigns and Elections, Public Policy and Propaganda, and Issues of Death in Politics and Justice. A Writing-Intensive course. Prerequisite: Instructor's approval.	
POS 499: Independent Study	1-4 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.	
Public Safety Administration (PSA)	
PSA 329^A: Public Safety Seminar	3 credits
An initial required, interdisciplinary course in the Public Safety Administration program is structured to offer tools to maximize academic learning performance throughout the program. The content of this course offers on-campus and online strategies, effectively organizes the academic degree plan, assesses prior learning, and presents research methodologies by linking professional and academic experiences.	
PSA 330: Group Dynamics	3 credits
This course examines how group behavior affects organizational effectiveness, decision-making, conflict resolution, and strategies for efficient group and task management within the public safety sector.	

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

PSA 332: Political and Legal Systems **3 credits**

Students will analyze and apply the legal system's model for understanding governmental, legal, and operational problems via the application of systems theory.

PSA 337: Psychology of Professional Development **3 credits**

This course provides an introduction to concepts related to human personality development, a review of theoretical positions underlying personality, and an examination of factors contributing to both normal and abnormal personality characteristics. It also establishes a basis of perspective for analyzing and understanding human behavior.

PSA 350: Managerial Communications **3 credits**

This course examines personal and professional relationships through the use of effective verbal and non-verbal skills.

PSA 351: Public Safety and the Community **3 credits**

This course examines the human and community services, in particular, law enforcement, fire protection, and emergency medical services, from theoretical and practical positions. A major focus will be the underlying philosophies, values, mission, planning, and development of programs and systems, as well as evaluating and altering them. The process of anticipating current and future challenges and the impacts of public policy, public opinion, and customer dynamics will also be explored.

PSA 360: Information Technology and Systems **3 credits**

This course focuses on the organizational, management, and technology dimensions of information systems. Although many technologies are covered, it is not intended to be a technology class.

PSA 433^A: Research Methodology **3 credits**

This course helps students identify problems, review related literature, collect data, and measure objectives in the public safety environment. Students will apply analytical skills to public safety related research projects. A Writing-Intensive course.

PSA 435: Strategic Planning **3 credits**

This course deals with the fundamentals and application of strategic analysis and planning in public safety.

PSA 438: Human Resource Management **3 credits**

This course explores values and perceptions of groups that affect recruiting, training, retention, evaluation, and current legal issues in human resources.

PSA 439: Leadership in Public Safety **3 credits**

This course focuses on motivation theory relating to individual and group functioning in public safety organizations. Leadership styles and their impact on performance are examined.

PSA 440[†]: Ethics in Public Safety **3 credits**

This course explores case issues and philosophies as they relate to accountability in the public safety environment.

PSA 460: Project Management **3 credits**

This course addresses basic concepts in project management, emphasizing a balance between the technical aspects of project work. Topics include the emerging importance of project management, tools, and techniques to plan and schedule projects, the manager's role in coordinating projects, and how managers need to be aware of cultural influences.

PSA 490: Organizational Development and Change **3 credits**

The course provides an overview of approaches to organizational development with emphasis on the practical aspects of changing public safety organizations to improve effectiveness.

PSA 495: Public Safety Capstone **3 credits**

This course provides a structured way to organize facts, information, and ideas from the academic major. Theoretical concepts from the major will be discussed by critically analyzing and evaluating ideas relating to a practical application process. Students will examine concepts of faith, belief systems, and sets of values and examine moral and ethical issues, including responsibility to individuals and communities.

Psychology (PSY)

PSY 101: General Psychology **3 credits**

This course is the foundation course in the science of behavior. It includes a study of the history of psychology, the brain, motivation, emotion, sensory functions, perception, intelligence, gender and sexuality, human development, learning, psychopathology and therapy. Simple experiments constitute a basic part of the course.

PSY 315: Personality Psychology **3 credits**

A study of the nature and causal determinants of human behavior, this course focuses upon the definition, development and assessment of personality. Theories studied include psychodynamic, neo-Freudian, trait and factor, cognitive, and behavioral theories. The Christian perspective on the nature of human personality will also be explored. Prerequisite: PSY 101.

PSY 324: Learning and Cognition **3 credits**

This course encompasses theoretical and empirical problems of human learning and cognitive behavior. The nature of learning processes, memory, auditory and visual perception, information processing, concept attainment, problem solving and other issues related to cognitive science will be explored. Prerequisite: PSY 101.

PSY 327: Physiological Psychology **3 credits**

This course emphasizes the relationship between the brain and behavior. The role of genetic, neural, hormonal, physiological processes, sensation, perception, motivation, and learning will be discussed within the context of recent research. Prerequisite: PSY 101, BIO 101 or BIO 181.

*Campus/Off-site only | ^A Writing-intensive course | [†] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

PSY 333: Psychology of Religion **3 credits**

Designed to help the student understand and relate to the mental processes involved in individual religious experience, this course gives special attention to the conversion experience, religious motivation, religious development, and the impact of group dynamics. Prerequisite: PSY 101.

PSY 341: Lifespan Development **3 credits**

This course in developmental psychology emphasizes the physical, social, cognitive, personality, and moral developments of an individual. The course is designed to provide an understanding of the transitions of life from conception to death. May not be taken with prior credit in Child Psychology (PSY 353) Prerequisite: PSY 101.

PSY 350^A: Social Psychology **3 credits**

Also SOC 350. This course is a study of social and group 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. A Writing-Intensive course. Prerequisite: PSY 101 or SOC 101.

PSY 351: Health Psychology **3 credits**

This course reflects psychology's growing interest in health-related issues. Topics include physician adherence, stress and pain management, cardiovascular disease, cancer, chronic illnesses, using tobacco, alcohol and other drugs, proper nutrition, and exercise, among others. Prerequisite: PSY 101.

PSY 353: Child Psychology **3 credits**

An analysis of prenatal, infant, and child development, this course reviews the physical, social, language and emotional development of children. The synthesis and integration of personality, motivation, attachment and play styles will also be discussed. May not be taken with prior credit in Lifespan Development (PSY 341). Prerequisite: PSY 101.

PSY 363: Introduction to Probability and Statistics **3 credits**

Also JUS 363, POS 363, and SOC 363. This course focuses upon elementary theories of probability, distribution, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods. Prerequisite: MAT 120 or equivalent.

PSY 373: Adolescent Psychology **3 credits**

This course is an examination of the meaning and significance of adolescence; physical, cognitive, moral, and religious development; and the influence of culture, gender expectations, family, peers, and schools on adolescent behavior. Prerequisite: PSY 101.

PSY 385: Human Sexuality **3 credits**

Also SOC 385. Taught from a Christian perspective, this course focuses on the areas of human sexual development across the life span, physical unity in marriage, pregnancy and childbirth, sexual orientation, common problems in sexual behavior, and sexual values and ethics.

PSY 401: Psychology of Death and Dying **3 credits**

This course is a study of the process of grief and dying. The psychological adjustments of the individual, family, and professional are examined. The student examines his or her own attitudes, values, and beliefs pertaining to death and dying.

PSY 414^A: History and Systems of Psychology **3 credits**

This course is a study of the origins, developments, influences, changes, and current systems of thought and experimentation in psychology. A Writing-Intensive course. Prerequisites: PSY 101 and senior status.

PSY 430: Industrial Psychology **3 credits**

The application of social and organizational psychological methods and principles to business and industry. Topics to be covered include human behavior at work, personnel selection and evaluation, motivation and job satisfaction, management philosophies, leadership, group dynamics, employee-management relationships, job evaluation, work and equipment design, working conditions, accident and human errors, and consumer psychology. Prerequisite: PSY 101.

PSY 443: Fundamentals of Counseling and Guidance **3 credits**

This course is designed for future teachers, ministers, business persons, counselors or social workers. . . Emphasis is placed on the proper use of counseling models as a tool for guidance by persons in various occupations. Prerequisite: PSY 101.

PSY 450: Experimental Psychology **4 credits**

This course is a lab course emphasizing both the theoretical and applied aspects of experimental design and research methodology. A variety of experiments are performed in areas such as learning, motivation, and perception. Prerequisites: Foundation courses and PSY 363.

PSY 466: Abnormal Psychology **3 credits**

This course is designed to help students understand assessment of mental illness and prevent mental illness by developing a better awareness of the emotional, functional, and physiological factors influencing mental health. Prerequisite: PSY 101.

**PSY 490: Senior Seminar:
Psychology through the Eyes of Faith** **3 credits**

This course focuses upon the integration of psychological learning and faith issues, relevant to graduate schools and related careers in psychology. Particular focus is given to how a Christian perspective impacts the type of questions posed in the discipline. Prerequisites: Senior status and Psychology major.

Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | ^{} Fulfills Grand Experience Christian Studies requirement

PSY 497: Internship in Psychology **1–4 credits**

The student is placed with an agency or organization in the community to gain practical insights and experience to complement their classroom learning. Every effort is made to place students in a setting corresponding to their interests or career goals. This course may be repeated for credit. Prerequisites: Instructor's approval and 12 credits of Psychology.

PSY 498: Advanced Topics in Psychology **3 credits**

Topics of interest to psychologists but not covered in depth in other courses will be considered. Examples of topics include Motivation and Emotion, Psychology of Humor, Psychological Testing, Gender, Sensation and Perception, and Developmental Psychopathology. Prerequisite: PSY 101 or instructor's approval.

PSY 499: Independent Study **1–4 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.

Reading Education (RDG)

RDG 509: Reading: Foundation and Framework **3 credits**

This course will examine the past trends in reading instruction in America and will address the effects of historical studies that impacted the evolution of reading instruction over the past half century. Attention will be focused on determining the core findings of important research studies and applying that knowledge to the reading profession. The national standards for the International Reading Association will be discussed as well, with the student ultimately creating an electronic portfolio based on those standards. This course meets the following professional standards for educators: IRA (1.1, 1.2, 1.3, 1.4, 5.2) and NBPTS (2, 4, 5).

RDG 510: Curriculum and Instruction **3 credits**

The role of the teacher is to create meaningful learning experiences for the student. This course provides in-depth study of brain-compatible learning experiences. Course participants will learn about designing curriculum units and differentiating instruction for all students. Participants will use the skills associated with backward design, brain theory, and other learning theory principles. Additionally, participants will put into practice the skills of curriculum mapping and practical methods for differentiating learning in order to design a curriculum unit for a subject and grade level. The use of technology will be integrated. This course meets the national standards for the professional teacher competencies set by the International Reading Association (IRA). The IRA Standards addressed in this course are 1.1, 2.1, 2.2, and 2.3.

RDG 515: Children, Adolescents, and Learning **3 credits**

This course combines a study of learning (including both cognitive and behavioral perspectives), human development (childhood through adolescence), and assessment (traditional and performance; teacher-made and standardized). Course participants will apply course information practically to reading instruction. This course meets the following International Reading Association (IRA) Standards: 2, 3, and 5.

RDG 521: Developmental and Corrective Reading Process **3 credits**

The purpose of this course is to introduce participants to the barriers that prohibit students from learning to read. The course will provide participants with a working knowledge of common reading difficulties. Participants will be provided with informal diagnostic tools to diagnose common reading problems. Research-based intervention programs and guidelines for accessing appropriate resources to provide instructional support for students with reading difficulties will also be discussed. This course meets the following International Reading Association (IRA) Standards: 1.1, 1.2, 1.3, 2.2, 2.3, 3.1, and 3.2.

RDG 525: Literacy in a Multicultural Society **3 credits**

Educators must be more effective in relating to persons of various cultures, promoting multicultural understanding, and facilitating maximal learning and personal development for all. This course is designed to develop understanding and appreciation of cultural differences (including values, attitudes, behaviors, abilities, and learning styles) present in both the general public and schools. Both theoretical constructs and practical applications of literacy in a multicultural society are emphasized. This course meets the following International Reading Association (IRA) Standards: 1.1, 5.1, and 5.4.

RDG 535: Descriptive Linguistics and Phonics **3 credits**

Classroom demographics in American schools are rapidly changing. Teachers are experiencing a growing need to familiarize themselves with the structure and use of the English language in order to respond to the increasing linguistic diversity in schools. As more schools focus on reading and writing across the curriculum, teachers of all disciplines need to become proficient at analyzing students' linguistic abilities and developing content-specific strategies to ensure success in the classroom. This course provides foundational knowledge related to linguistic principles of the English language – the basics of phonetics, phonology, morphology, and syntax – while addressing the issues related to the usage of standard and non-standard varieties of English. This course meets the following International Reading Association (IRA) Standards: 1.1, 1.3, 2.2, 2.3, 3.1, 3.2, and 3.4.

*Campus/Off-site only | [^]Writing-intensive course | [♦]Fulfills Grand Experience requirement | [✱]Fulfills Grand Experience Christian Studies requirement

RDG 540: Research Techniques and Procedures 3 credits

This course is designed to facilitate the development of research knowledge and skills in the education profession. The course will provide participants with a foundation for data-driven decision-making, change, and improvement. Course participants will conduct action research related to their job roles and evaluate and interpret research literature. Students will evaluate theory, techniques, and design of scientific research. This course meets the International Reading Association Standards 1.2, 3.1, and 3.3, and the National Board of Professional Teaching Standards, proposition #4.

RDG 545: Foundations, Cognition, and Literature 3 credits

The course focuses on using literature within a complete developmental literacy program from the emergent stage to the adult proficiency level. Particular emphasis will be dedicated to the various genres that exist within the literature spectrum and how to utilize the different genres in order to meet specific instructional needs and literacy goals. Knowledge and skills will be developed to assist the student with applying the components of balanced literature-based literacy programs within their classroom or school setting. This course meets the following professional standards for educators: IRA (1.1, 1.2, 1.3, 2.2, 2.3, 4.1, 4.2, 5.3) and NBPTS (1, 2, 3, 4).

RDG 580: Practicum in Reading 3 credits

This course provides an in-depth study of the International Reading Association Standards by examining research-based approaches linking assessment and instruction. Teachers will learn to use a wide range of formal and informal assessment tools and methods to diagnose and assess reading and writing development, instruction, and assessment. Students will develop individual case studies. This course meets the following International Reading Association (IRA) Standards: 1.3, 1.4, 2.2, 3.1, 3.2, and 3.4.

RDG 583: Teaching Reading in the Content Areas 3 credits

This course links reading skills across the curriculum through the use of instructional strategies and assessments. The use of textbooks, trade books, and electronic texts are explored with a focus on strategies that are relevant in every content area. This course meets the following International Reading Association (IRA) Standards: 1.1, 2.2, 2.3, 3.3, 4.1, 4.2, 5.1, 5.2, 5.3, and 5.4.

Recreation (REC)

REC 313: Outdoor Recreation 3 credits

A course designed to acquaint the student with the knowledge and experience of outdoor living and outdoor leadership skills. Camping, backpacking, and desert survival will be explored.

REC 423: Recreation Administration and Supervision 3 credits

A study of the supervisory and administrative techniques to be used in the recreation profession. Staff and volunteer supervision, policy development, public and community relations, and management theories will be examined. Prerequisites: REC 213 or instructor's approval.

REC 424: Recreation Facility Management 3 credits

A study of financing, marketing, and legal issues concerning the management of recreation and park facilities. Coursework will include a study of bonds, risk management, and the pricing structures of recreational facilities. Prerequisite: REC 213 or instructor's approval.

REC 425^A: Recreation for Special Populations 3 credits

A course designed to develop methods and techniques of leading therapeutic recreation activities in institutions. A Writing-Intensive course. Prerequisites: REC 213 or REC 215

REC 497A: Internship in Recreation A 1 credit

The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

REC 497B: Internship in Recreation B 2 credits

The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

REC 497C: Internship in Recreation C 1 credit

The first portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

REC 497D: Internship in Recreation D 2 credits

The second portion of a full semester internship. The internship provides an opportunity for students to practice principles learned in their functional area by working in an outside organization under the supervision of a practitioner. Prerequisite: Senior Status or Instructor's approval.

Research (RES)

RES 615: Applied Research Development in Information Security 3 credits

This course introduces students to the process of applied research proposal development. Students write and present a research proposal to evaluate the effectiveness of an information security best practice selected from one of the ten domains of the CBK.

RES 616: Qualitative and Quantitative Analysis 3 credits

In this course, students evaluate qualitative and quantitative methods of data analysis for solving information assurance problems and conducting information security-related field research.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [‡] Fulfills Grand Experience Christian Studies requirement

RES 811: Introduction to Advanced Graduate Studies and Scholarship

1 credit

This course introduces students to the principle elements of scholarship and scholarly writing. Synthesis of literature, APA form and style, literature searches, and literature quality are among the topics that will be addressed. Students will learn how to discern principle arguments, research questions, and key findings in journal articles.

RES 855: Understanding and Interpreting Data

3 credits

This course will provide exposure to the basic concepts and tools that leadership students and practitioners need in order to understand and analyze data and to utilize research findings in decision making and problem solving.

RES 861: Research I

3 credits

The Research courses review research methods with an emphasis on what each method has to offer to leadership studies. This first course will provide a historical perspective on research paradigms and specific methodologies. It will also discuss criteria to be considered in the choice of data collection methods. The review of popular data collection methods will cover the collection and analysis of qualitative secondary data (historiography, narrative inquiry, discourse analysis), the analysis of numeric secondary data, and the unintrusive collection of qualitative primary data (observation, case study, ethnography). The discussion of each method will focus on the advantages and disadvantages of its utilization in leadership research conducted at various scales. Prerequisite: RES 855.

RES 862: Research II

3 credits

The Research courses review research methods with an emphasis on what each method has to offer to leadership studies. This second course will cover interactive methods for the collection of qualitative data (interview and focus group) and interactive methods for the collection of quantitative data (survey, experiment, natural experiment, longitudinal research). The discussion of each method will focus on the advantages and disadvantages of its utilization in leadership research conducted at various scales. Prerequisite: RES 861.

RES 871: Research Design

3 credits

This course focuses on the design of research projects aimed at resolving problems in the students' areas of specialization and interest. The course addresses project design as a development process starting with the identification of the problem(s) to be investigated, the possible causes of the problem(s), and the hypothetical relations among the agents/factors at play. The research design process continues with the identification of the data to be collected and can achieve the learning and/or problem-solving goals of the project. The menu of research methods will include qualitative, quantitative, and mixed methods. The menu of data analysis procedures will include the processing of qualitative data and both parametric and nonparametric statistical procedures, all used to describe, compare, examine associative or causal relationships, and make predictions. Prerequisite: RES 862.

Residency (RSD)

RSD 801: Residency I

2 credits

This residency orients students to the academic community. The nature of scholarly inquiry is discussed. Sessions address topics such as scholarly discourse, scholarly engagement, and membership in the scholarly community. Major streams of literature in leadership are discussed and areas of opportunity for future research are identified.

RSD 851: Residency II

2 credits

This residency allows students to begin developing their skills as academic researchers. Residency sessions address topics such as research question development, design, item generation, subscale development and analysis, and basic hypothesis testing. Students will have hands on experience with quantitative and qualitative analysis software. Prerequisite: RES801.

RSD 881: Residency III

2 credits

This residency will prepare students to present their scholarly work and to thoughtfully critique the work of others. Students will orally present papers developed in their own classes and respond to questions from colleagues. Students will be further prepared to become active members in academic communities by learning how to review papers and provide comments. Prerequisite: RES851.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

Secondary Education (SED)

SED 420N: Adolescent Literacy

This course is designed to assist teacher candidates in understanding, evaluating and promoting effective pedagogy in adolescent literacy. Emphasis will be on adolescents and fluency, vocabulary skills, literary elements of narrative text, literary elements of expository text, evaluating adolescent literature for readability and motivation, adolescent literature based pedagogy, critical literacy and strategies in promoting critical literacy. Practicum hours - 30. Prerequisites: Fingerprint Clearance, EDU 363, SPE 325, ESL 433, SED 442.

SED 430N: Critical Issues in Secondary Education

This course will focus on contemporary issues that are hot topics in the field of secondary education. Students will explore various educational issues and will self-analyze their own positions as they develop a personal belief system about their role as a secondary education teacher. Practicum hours - 10. Prerequisites: Fingerprint Clearance, EDU 430, and SED 452.

SED 442: Secondary Methods **3 credits**

This course is designed to help teachers and prospective teachers of young adults find their own teaching styles and recognize the different learning styles of their students in order to make appropriate decisions about all aspects of the teaching act. Emphasis is given to teaching methodology that encourages problem-solving, active participation, and assessment. Practicum hours - 15. Prerequisites: Fingerprint Clearance, EDU 303, and EDU 313 (may be taken concurrently); EDU 363 is recommended.

SED 442N: Secondary Theory and Methods **3 credits**

This course is designed to foster application of proven teaching and learning methodologies for both instructor and student in order to make appropriate decisions about all aspects of teaching. Major emphasis is given to planning instructional objectives, planning lessons, assessing objectives, and developing teaching methodology, which encourages problem-solving, active participation, and assessment. Practicum hours - 15. Prerequisites: Fingerprint Clearance.

SED 443: Secondary Curriculum Development and Assessment **3 credits**

In this study of secondary school curriculum development, major emphasis is given to planning instructional objectives and lessons, assessing objectives, and developing a model curriculum. Practicum hours - 15. Prerequisites: Fingerprint Clearance and SED 442; SED 443 and SED 442 may be taken concurrently.

SED 443N: Secondary Curriculum Development and Assessment **3 credits**

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined. Emphasis is given to understanding current structures and trends in high schools 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. This course focuses on the principles and practices involved in curriculum design. Participants will develop their own curriculum unit. Practicum hours - 15.

SED 452: Learning Strategies Secondary School **3 credits**

This course is designed to assist pre-service and in-service teachers in developing a broad range of reading (to include decoding), teaching, and learning strategies to effectively enhance the learning of middle and secondary school students. A major emphasis is given to utilization of these strategies in the midst of today's socially and culturally diverse classrooms. Practicum hours - 30. Prerequisites: Fingerprint Clearance.

SED 452N: Reading and Learning Strategies for Middle and Secondary Schools **3 credits**

This course is designed to assist pre-service and in-service teachers in developing and implementing a broad range of literacy strategies to effectively enhance the content area learning of middle and secondary school students. A major emphasis is given to utilization of these strategies in the midst of today's socially and culturally diverse classrooms.

SED 462: Secondary Practicum **3 credits**

Taken concurrently with SED 452. this is a school-centered experience designed to provide prospective teachers with intensive involvement in a middle or secondary school with students and classroom teachers. May be taken concurrently with SED 442/542c. Prerequisites: EDU 303. Co-requisite: Must be taken concurrently with SED 452.

SED 480a/SED 480Na: Student Teaching: Secondary School **6 credits**

The semester includes seminars in classroom management, assessment and professional preparation, and curriculum development. The student is assigned to an approved school to serve as a student teacher for a semester under the supervision of an experienced teacher. Prerequisites: Admittance to the College of Education, completion of all secondary education coursework, senior status.

SED 480b/SED 480Nb: Student Teaching: Secondary School **6 credits**

The semester includes seminars in classroom management, assessment and professional preparation, and curriculum development. The student is assigned to an approved school to serve as a student teacher for a semester under the supervision of an experienced teacher. Prerequisites: Admittance to the College of Education, completion of all secondary education coursework, senior status.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

SED 523N: Adolescent Literacy 3 credits

This course is designed to assist teacher candidates in understanding, evaluating and promoting effective pedagogy in adolescent literacy. Emphasis will be on adolescents and fluency, vocabulary skills, literary elements of narrative text, literary elements of expository text, evaluating adolescent literature for readability and motivation, adolescent literature based pedagogy, critical literacy and strategies in promoting critical literacy.

SED 542/SED 542N: Secondary Theory and Methods3 credits

This course is designed to foster application of proven teaching and learning methodologies for both instructor and student in order to make appropriate decisions about all aspects of teaching. Major emphasis is given to planning instructional objectives and lessons, assessing objectives, and developing teaching methodology that encourages problem-solving, active participation, and assessment. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

SED 543: Secondary Curriculum Development and Assessment 3 credits

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined. Emphasis is given to understanding current structures and trends in high schools 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. This course focuses on the principles and practices involved in curriculum design. Participants will develop their own curriculum unit. Practicum hours – 15. Prerequisite: Fingerprint Clearance.

SED 543N: Secondary Curriculum Development and Assessment 3 credits

Various orientations to curriculum development and assessment are investigated and elements of model curricula are examined. Emphasis is given to understanding current structures and trends in high schools 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. This course focuses on the principles and practices involved in curriculum design. Participants will develop their own curriculum unit. Practicum hours - 15.

SED 552/SED 552N: Reading Strategies for Middle and Secondary Schools 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. A major emphasis is given to the use of reading strategies for culturally and socially diverse classrooms including the use of literacy-based instruction in all content areas. The development and use of integrated and thematic approaches of instruction are addressed. Students are expected to observe and assist in a 7-12 classroom while taking this course. Practicum hours – 30. Prerequisite: Fingerprint Clearance.

SED 570N: Critical Issues in Secondary Education 3 credits

This course will focus on contemporary issues that are hot topics in the field of secondary education. Students will analyze various educational issues and will self-evaluate their own positions as they develop a personal belief system about their role as a secondary education teacher. Prerequisite: Fingerprint Clearance, SED 542.

SED 580a/SED 580Na: Student Teaching Internship: Secondary I 6 credits

Students are required to fulfill an eight-week internship experience in a classroom with a certified teacher. This course must be taken immediately preceding SED 580b Secondary II Student Teaching.

SED 580b/SED 580Nb: Student Teaching Internship: Secondary II 6 credits

Students are required to fulfill an eight-week internship experience in a classroom with a certified teacher. This course must be taken immediately following SED 580a Secondary I Student Teaching.

Sociology (SOC)

SOC 101: Introduction to Sociology 3 credits

A general overview of the concepts, theories, and methods used by sociologists to describe and explain the effects of social structure on human behavior. Course stresses development of the sociological perspective in everyday life.

SOC 270: Contemporary American Families 3 credits

A survey of the important trends and issues facing families today. Emphasis is placed on establishing the existence and dimensions of the trends and analysis of the impact of these trends on individuals, couples, children and larger society. Legislative and political efforts to impact these trends will also be considered.

SOC 296: Social Research 3 credits

Also JUS 296 and POS 296. An exploration of the various methods used by social scientists to find answers to the questions posed by their subject matter. Includes basic terminology, concepts and practice using methods such as surveys, experiments, field research, and evaluation research, as well as some unobtrusive methods. Prerequisite: SOC 101.

SOC 313: Cultural Anthropology 3 credits

A study of the variety of cultures that have developed in human society. Attention is given to preliterate peoples in comparison with our own and other cultures. The origin and development of the cultures, their technologies, economies, social organizations, and beliefs are surveyed. Prerequisite: SOC101.

SOC 333: Marriage and the Family 3 credits

Designed as a practical look at the subject with emphasis on understanding and applying the sociological research on marriage and family life to the student's present and future life. Cross-cultural and historical information is also presented. Prerequisite: SOC 101 or instructor's approval.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SOC 341: Social Problems **3 credits**

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 our modern social structure. Prerequisite: SOC 101.

SOC 350^A: Social Psychology **3 credits**

Also PSY 350. A study of social and group factors affecting individual behavior. Attention is given to the development of attitudes, leadership roles, group thinking, sources of conflict, effects of competition and cooperation, analysis and evaluation of propaganda techniques, and the influence of mass communication on social awareness and control. A Writing-Intensive course. Prerequisite: PSY 101 or SOC 101.

SOC 353: Urban Sociology **3 credits**

An analysis of the evolution of the city, emphasizing the similarities and differences between cities of the past and cities today. An overview of major urban theorists is used to examine the experience of living in cities today, especially our definition and response to urban problems. Prerequisite: SOC 101.

SOC 363: Introduction to Probability and Statistics **3 credits**

Also JUS 363, POS 363, and PSY 363. 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 120 or equivalent.

SOC 383: Drug Abuse and Behavior **3 credits**

Also BIO 383 and HLT 383. An exploration of the problems of drug abuse and approaches toward solutions of those problems. Topics include pharmacology and epidemiology of drug use; psychological, legal, social, and cultural implications and principles of program planning. Prerequisite: SOC 341 or instructor's approval.

SOC 385: Human Sexuality **3 credits**

Also PSY 385. Taught from a Christian perspective, this course focuses on the areas of human sexual development across the life span, physical unity in marriage, pregnancy and childbirth, common problems in sexual behavior, and sexual values and ethics.

SOC 423: American Minority Peoples **3 credits**

A study of the various minority groups in the United States and their sociological significance in the history of our nation and in our current culture. The history and present status of American immigration policy are also considered. Prerequisite: SOC 101 or instructor's approval.

SOC 431: Social Work **3 credits**

An overview of the training, tasks, and opportunities in the profession of social work. The student will be introduced to the skills, knowledge base, and functional role of the social worker. Exposure to various settings of social work practice will be provided. Prerequisites: SOC 101 and SOC 341.

SOC 483^A: History of Social Thought **3 credits**

A study of social thought from ancient to modern times with emphasis on 19th-and 20th-century thought. Emphasis is placed upon how current social theories have been influenced by, but are different from, earlier social thought. A Writing-Intensive course. Prerequisite: SOC 101 or instructor's approval.

SOC 497: Internship in Sociology **1–4 credits**

The student is placed with an agency or organization in the community to gain practical insights and experience to complement their classroom learning. Every effort is made to place students in a setting corresponding to their interests or career goals. May be repeated for credit. Prerequisite: Instructor's approval and 12 credits of Sociology.

SOC 498: Advanced Topics in Sociology **3 credits**

Topics of interest to sociologists but not covered in-depth in other courses will be considered. The content (topic) will change each time the course is offered, so it may be repeated for credit. Examples of topics might include: Women in America, Suicide, Third World Issues, Social Movements, Collective Behavior, Social Inequality and Stratification, Sociology of Religion, Sociology of Health and Illness, Sociology of Mental Illness, Juvenile Delinquency, or Aging. Prerequisite: SOC 101 or instructor's approval.

SOC 499: Independent Study **1–4 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.

Spanish (SPA)

SPA 101: Elementary Spanish I **3 credits**

This course builds a foundation in the skills of listening, speaking, reading, and writing through the use of a text-workbook, classroom conversational practice, and outside cultural activities. Co-requisite: SPA 101L.

SPA 101L: Elementary Spanish I Lab **1 credit**

A lab course designed to complement and support the principles learned in SPA 101. Co-requisite: SPA 101.

SPA 102: Elementary Spanish II **3 credits**

Continuation of SPA 101. Prerequisite: SPA 101 or equivalent. Co-requisite: SPA 102L.

SPA 102L: Elementary Spanish II Lab **1 credit**

A lab course designed to complement and support the principles learned in SPA 102. Co-requisite: SPA 102.

*Campus/Off-site only | ^A Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

SPA 201: Intermediate Spanish I	3 credits
This course further builds Spanish vocabulary and language structure. Oral practice, short compositions, textbook readings, and cultural activities are stressed. Prerequisite: SPA 102. Co-requisite: SPA 201L.	
SPA 201L: Intermediate Spanish I Lab	1 credit
A lab course designed to complement and support the principles learned in SPA 201. Prerequisite: SPA 102. Co-requisite: SPA 201.	
SPA 202: Intermediate Spanish II	3 credits
Continuation of SPA 201. Prerequisite: SPA 201 or instructor's approval.	
SPA 202L: Intermediate Spanish I Lab	1 credit
A lab course designed to complement and support the principles learned in SPA 201. Prerequisite: SPA 201. Co-requisite: SPA 202.	
SPA 311: Spanish Conversation	3 credits
This course helps the student to speak with fluency and standard pronunciation, to develop facility in the language, and to become conversant with culture, common expression, and everyday usage. Prerequisite: SPA 202 or instructor's approval.	
SPA 312^Δ: Composition and Grammar	3 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. A Writing-Intense course. Prerequisite: SPA 311 or instructor's approval.	
SPA 319: Business and Professional Spanish	3 credits
For the students already conversant in Spanish, this course is designed to give specific vocabulary and terminology distinctive in particular careers and professions (Business, Education, Law, Medicine, Ministry, Public and/or Social Services). Prerequisite: SPA 311 or instructor's approval.	
SPA 342: Introduction to Literature in Spanish	3 credits
Introduction to literary concepts, terminology, and theory with application to poetic, dramatics, and prose texts. Will include some study of Hispanic culture. Prerequisite: SPA 312 or instructor's approval.	
SPA 362^Δ: Advanced Grammar and Composition	3 credits
A course designed to provide an extensive review of Spanish language. The development of self-correction skills will be encouraged through the study of model texts by Spanish authors. A Writing-Intensive course. Prerequisite: SPA 312 or instructor's approval.	
SPA 363: Spanish Civilization	3 credits
In this course, students study the history, geography, and people of Spain through a chronological view of the colonization and civilization of the peninsula until the present. Prerequisite: SPA 312 or instructor's approval.	

SPA 373: Hispanic Civilization	3 credits
A study of the colonizing practices of Spain in the New World and their relevance to modern problems. Prerequisite: SPA 312 or instructor's approval.	
SPA 383: Civilization of the Spanish Southwest	3 credits
This course provides a study of the development of Hispanic civilization in the Southwest United States from the 16th Century. Prerequisite: SPA 312 or instructor's approval.	
SPA 413: Spanish Literature	3 credits
This course is designed to expand the student's knowledge of the literature and civilization of Spain. Prerequisite: SPA 342 or instructor's approval.	
SPA 423: Hispanic Literature	3 credits
This course provides a survey of Hispanic literature from the Colonial period to the present, emphasizing literary periods, style, and text analysis. Prerequisite: SPA 342 or instructor's approval.	
SPA 493: Contemporary Issues	3 credits
This course is designed to discuss and analyze contemporary events and issues in the Spanish-speaking world. Specific topics to be announced each offering. Prerequisite: SPA 311 or instructor's approval.	
Special Education (SPE)	
SPE 325^Δ: Educating Learners with Diverse Needs	3 credits
This course is a survey of the unique learning needs of exceptional students. Special focus will be given to the referral process, appropriate instructional modifications and accommodations for exceptional students, and IDEA law. A Writing-Intensive course. Practicum hours – 15. Prerequisites: Fingerprint Clearance and PSY 101.	
SPE 329: Special Education Foundations and Framework	3 credits
This course orients teacher candidates to the field of special education. The National Board for Professional Teaching Standards and Council for Exceptional Children Standards, which guide special education research practices, are also discussed. It includes an introduction to creating a professional portfolio. No Fingerprint Clearance necessary.	
SPE 340: Special Education in Litigation and Law	3 credits
Participants examine legal issues, recent court decisions, and current law relating to special education. Special attention is given to compliance, student and parent rights, local state and district policies and procedures, and advocacy through community organizations	

*Campus/Off-site only | ^Δ Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

**SPE 345: Characteristics of Students
with Mental Retardation****3 credits**

This course is an advanced study to provide the prospective special education teacher with an understanding of persons with mental retardation (MR), including related theories, research, characteristics, and etiology of mental retardation. Prerequisites: SPE 325/525, EDU 303.

**SPE 352: Characteristics of Mental Retardation and Strategies
to Teach Individuals with MR****3 credits**

The focus of this course is to provide the teacher candidate in special education with knowledge of MR, including the history with attention to law and litigation, definition, causes, and characteristics of MR in children and adults. The impact of MR on the lives of individuals and necessary support systems for quality of life are investigated and assessment techniques and effective teaching strategies are addressed. Understanding and mastery of methods appropriate for meeting the educational needs of elementary and secondary students with MR will be emphasized. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with MR in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with MR. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 329, and SPE 325.

**SPE 354: Characteristics of Learning Disabilities
and Strategies to Teach Individuals with LD****3 credits**

The focus of this course is to provide the teacher candidate in special education with knowledge of LD, including the history with attention to law and litigation, definition, causes, and characteristics of learning disabilities in children and adults. The cognitive processes of students with and without learning disabilities are compared, unsubstantiated explanations and false claims relating to LD investigated, and assessment techniques and effective teaching strategies are addressed. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with LD in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with LD. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 329, and SPE 325.

**SPE 355: Characteristics of Students with
Learning Disabilities****3 credits**

This course is designed to provide the prospective special education teacher with advanced knowledge of the etiology of learning disabilities by discussing diagnostic techniques and related remedial practices. Prerequisites: SPE 325, EDU 303.

**SPE 356: Characteristics of Emotional/ Behavioral Disabilities
and Strategies to Teach Individuals with EBD****3 credits**

The focus of this course is to provide the special education teacher candidate with knowledge of ED, including the history with attention to law and litigation, definition, etiology, types, and characteristics of students with emotional and behavioral disorders. Teacher candidates will investigate theories and models of emotional and behavioral disorders and related treatments. Assessment techniques and the factors involved in a diagnosis of behavior and emotional disorders are also addressed. Effective and specific individual and group behavior management models, programs, strategies, and interventions for elementary and secondary students with EBD in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the behavior management plan necessary to meet the individual needs of students with EBD. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 329, and SPE 325.

**SPE 365: Characteristics of Students
with Emotional and Behavioral Disorders****3 credits**

This course is an advanced study of the characteristics of individuals with emotional and behavioral disorders and the school-based educational programs designed to meet their needs. Prerequisites: SPE 325, EDU 303.

**SPE 371: Education of Students
with Physical and Health Impairments****3 credits**

This course provides students with knowledge of physical and other health impairments and the impact of these disabilities on the lives of individuals. Teacher candidates investigate means to enhance individuals' quality of life through participation in home, school, and community activities. Special attention is given to accessibility to appropriate curricula, modifications and adaptations, and effective instructional strategies to meet individual needs. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 329, and SPE 325.

**SPE 376: Strategies for Teaching Students
with Learning Disabilities****3 credits**

Students will learn methods and techniques of planning, implementing, and evaluating instructional strategies for educating elementary and secondary students with learning disabilities in special and regular education classes. A 45-credit K-12 school-centered practicum will be included in the coursework. Prerequisites: Admittance to the Teacher Education program, SPE 325, and SPE 355 or SPE 365 (may be taken concurrently), EDU 303.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SPE 386: Strategies for Teaching Students with Emotional and Behavioral Disorders **3 credits**

Students will learn methods and techniques of planning, implementing, and evaluating instructional strategies for educating elementary and secondary students with emotional and behavioral problems in special and regular education classrooms. A 45-credit K-12 school-centered practicum will be included in the coursework. Prerequisites: Admittance to the Teacher Education program, SPE 325, and SPE 355 or SPE 365 (may be taken concurrently), EDU 303.

SPE 435: Diagnosis and Assessment in Special Education **3 credits**

This course teaches characteristics and uses of diagnostic instruments that can be used to identify, evaluate, and assess learning needs of exceptional students. Practicum hours – 15. Prerequisites: SPE 325, EDU 303.

SPE 448: Student Teaching in Special Education: Cross Categorical **8-12 credits**

Students demonstrate mastery of the standards of the National Board Certification for Teachers of Students with Exceptional Needs in special education classrooms. The experience includes assessing, planning, and teaching lessons; managing behavior; and collaborating professionally. Prerequisites: Required special education courses for certificate, 2.50 GPA, and senior status.

SPE 448a: Student Teaching in Special Education: Cross Categorical **6 credits**

Students demonstrate mastery of the standards of the National Board Certification for Teachers of Students with Exceptional Needs in special education classrooms. The experience includes assessing, planning, and teaching lessons; managing behavior; and collaborating professionally. Prerequisites: Required special education courses for certificate, 2.50 GPA, and senior status.

SPE 448b: Student Teaching in Special Education: Cross Categorical **6 credits**

Students demonstrate mastery of the standards of the National Board Certification for Teachers of Students with Exceptional Needs in special education classrooms. The experience includes assessing, planning, and teaching lessons; managing behavior; and collaborating professionally. Prerequisites: Required special education courses for certificate, 2.50 GPA, and senior status.

SPE 525: Educating Learners with Diverse Needs **3 credits**

Emphasis will be 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 hours – 15. Prerequisite: Fingerprint Clearance.

SPE 529: Special Education: Foundations and Framework **3 credits**

This course orients teacher candidates to the field of special education. The National Board for Professional Teaching Standards and Council for Exceptional Children Standards, which guide special education research practices, are also discussed. It includes an introduction to creating a professional portfolio. No Fingerprint Clearance necessary.

SPE 530N: Effective Collaborative Processes **3 credits**

SPE 535/SPE 535N: Assessment and Diagnosis in Special Education **3 credits**

This capstone course in special education is designed to incorporate issues in collaboration and communication and to synthesize the special education process from assessment to delivery of instruction (i.e., evaluation, eligibility, placement, and instructional practice). Specific skill development includes assessing students with disabilities, completing special education forms, and conducting meetings and conferences with parents and school professionals. A school-based practicum provides participants with experiences in standardized testing and case studies, problem-solving meetings, cooperative team planning, and inclusion processes. Practicum hours – 15. Prerequisites: SPE 529, SPE 525, Characteristics and Strategies courses for MR, LD, or ED.

SPE 540: Special Education Litigation and Law **3 credits**

Participants examine legal issues, recent court decisions, and current law relating to special education. Special attention is given to compliance, student and parent rights, local state and district policies and procedures, and advocacy through community organizations.

SPE 545: Characteristics of Students with Mental Retardation **3 credits**

The focus of this course is to provide the prospective special education teacher with advanced knowledge of MR, including the history with attention to law and litigation, definition, causes, and characteristics of MR in children and adults. The impact of MR on the lives of individuals and necessary support systems for quality of life are investigated and assessment techniques and effective teaching strategies addressed. Participants will actively participate in a class for students with MR.

SPE 548a: Student Teaching: Cross-Categorical I **6 credits**

Students demonstrate mastery of the standards of the National Board Certification for Teachers of Students with Exceptional Needs in classrooms for students with disabilities, including assessing, planning and teaching lessons, managing behavior, and collaborating professionally. This is an eight-week experience that must be taken immediately preceding SPE 548b Student Teaching II.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

SPE 548b: Student Teaching: Cross-Categorical II**6 credits**

Students demonstrate mastery of the standards of the National Board Certification for Teachers of Students with Exceptional Needs in classrooms for students with disabilities, including assessing, planning and teaching lessons, managing behavior, and collaborating professionally. This is an eight-week experience that must be taken immediately following SPE 548a Student Teaching I.

SPE 550/SPE 550N: Special Education Finance**3 credits**

Participants investigate the policies, practices, and issues relating to special education finance at the local, state, and federal levels, including sources, legal mandates, and budgeting. Prerequisites: Required courses for Certification in Special Education.

SPE 552N: Characteristics of Mental Retardation and Strategies to Teach Individuals with MR**3 hours**

The focus of this course is to provide the teacher candidate in special education with advanced knowledge of MR, including the history with attention to law and litigation, definition, causes, and characteristics of MR in children and adults. The impact of MR on the lives of individuals and necessary support systems for quality of life are investigated and assessment techniques and effective teaching strategies are addressed. Understanding and mastery of methods appropriate for meeting the educational needs of elementary and secondary students with MR will be emphasized. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with MR in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with MR. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 529N, and SPE 525N.

SPE 554N: Characteristics of Learning Disabilities and Strategies to Teach Individuals with LD**3 credits**

The focus of this course is to provide the teacher candidate in special education with advanced knowledge of LD, including the history with attention to law and litigation, definition, causes, and characteristics of learning disabilities in children and adults. The cognitive processes of students with and without learning disabilities are compared, unsubstantiated explanations and false claims relating to LD investigated, and assessment techniques and effective teaching strategies are addressed. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with LD in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with LD. Teacher candidates will teach lessons in a class for students with LD. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 529N, and SPE 525N.

SPE 555: Characteristics of Students with Learning Disabilities**3 credits**

The focus of this course is to provide the prospective special education teacher with advanced knowledge of LD, including the history with attention to law and litigation, definition, causes, and characteristics of learning disabilities in children and adults. The cognitive processes of students with and without learning disabilities are compared, unsubstantiated explanations and false claims relating to LD investigated, and assessment techniques and effective teaching strategies addressed. Participants will actively participate in a class for students with LD.

SPE 556N: Characteristics of Emotional/ Behavioral Disabilities and Strategies to Teach Individuals with EBD**3 credits**

The focus of this course is to provide the special education teacher candidate with advanced knowledge of ED, including the history with attention to law and litigation, definition, etiology, types, and characteristics of students with emotional and behavioral disorders. Teacher candidates will investigate theories and models of emotional and behavioral disorders and related treatments. Assessment techniques and the factors involved in a diagnosis of behavior and emotional disorders are also addressed. Effective and specific individual and group behavior management models, programs, strategies, and interventions for elementary and secondary students with EBD in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the behavior management plan necessary to meet the individual needs of students with ED. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 529N, and SPE 525N.

SPE 560/SPE 560N: Special Education Program Development**3 credits**

Participants will demonstrate understanding of principles and processes of special education program development by designing, implementing, and evaluating programs for students with special needs.

SPE 563: Physical Education for the Exceptional Child**3 credits**

Participants will develop skills in methods and techniques of teaching exceptional students motor activities individually and in groups. Emphasis will be placed on creating individualized lesson plans with specific goals and objectives.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SPE 565: Characteristics of Students with Emotional Disabilities **3 credits**

The focus of this course is to provide the prospective special education teacher with advanced knowledge of ED, including the history with attention to law and litigation, definition, etiology, types, and characteristics of students with emotional and behavioral disorders. Students will investigate theories and models of emotional and behavioral disorders and related treatments. Assessment techniques and the factors involved in a diagnosis of behavior and emotional disorders are also addressed. Students will actively participate in a class for students with emotional and behavioral disabilities.

SPE 570/SPE 570N: Action Research in Special Education **3 credits**

Participants collaboratively engage in identifying personally significant and relevant problems in special education, reviewing the literature, designing and implementing research methodology, and evaluating results. Plans for further research are identified.

SPE 571/SPE 571N: Educational Implications for Students with Physical and Health Impairments **3 credits**

This course provides teacher candidates with knowledge of physical and other health impairments and the impact of these disabilities on the lives of individuals. Teacher candidates investigate means to enhance individuals' quality of life through participation in home, school, and community activities. Special attention is given to accessibility to appropriate curricula, modifications and adaptations, and effective instructional strategies to meet individual needs. Practicum hours – 15. Prerequisites: Fingerprint Clearance, SPE 529, and SPE 525.

SPE 572: Philosophical and Social Issues in Education **3 credits**

Participants will investigate historical, philosophical, and sociological influences that have shaped American education and current issues and future challenges facing educators. Activities include interviews and observations in the school and community. Each participant will create a personal philosophy of education.

SPE 576: Strategies for Teaching Students with Learning Disabilities **3 credits**

This course is designed to advance the special educator's understanding and mastery of methods appropriate for meeting the educational needs of elementary and secondary students with LD. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with LD in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with LD. Participants will teach lessons in a class for students with LD.

SPE 586: Strategies for Teaching Students with Emotional Disabilities **3 credits**

This course is designed to advance the special educator's understanding and mastery of methods appropriate for meeting the educational needs of elementary and secondary students with ED. Effective and specific individual and group behavior management models, programs, strategies, and interventions for elementary and secondary students with ED in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the behavior management plan necessary to meet the individual needs of students with ED. Participants will teach behavior in a class for students with ED.

SPE 590/SPE 590N: Assistive Technology in Special Education **3 credits**

Participants become skilled at applying modifications and adaptations available through current low-tech and high-tech assistive devices designed to address individual needs for an appropriate education..

SPE 595/SPE 595N: Global Issues in Special Education **3 credits**

Participants explore special education programs and issues and in countries throughout the world and establish direct communication with special educators worldwide.

SPE 596: Strategies for Teaching Students with Mental Retardation (MR) **3 credits**

This course is designed to advance the special educator's understanding and mastery of methods appropriate for meeting the educational needs of elementary and secondary students with MR. Effective teaching strategies for planning, implementing, and evaluating instruction based on appropriate assessment for elementary and secondary students with MR in special and regular education classes are investigated, planned, implemented, and evaluated based on appropriate assessment. Particular attention will be given to the structure and details of the lesson plans necessary to meet the individual needs of students with MR.

Systems Management (SYM)

SYM 180: Computer Application Modules **1 credit**

Basic studies of applications of electronic data processing. Modules include

- A Word Processing
- B Beginning Spreadsheets
- J Accounting Applications (Prerequisite: ACC 211)
- L Presentation Graphics

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SYM 301: Principles of Information Systems 3 credits

This introductory course covers the fundamental principles of information systems; integrates topics of management, organization, information, technology, and the systems approach; and emphasizes the planning, design, and implementation of information systems to aid decision-making.

SYM 302: Database and Decision Support Systems 3 credits

This in-depth examination of database systems and the various computer-based support systems that are used to aid decision-making examines database systems, decision support systems, expert systems, and group decision support systems. Emphasis is on appropriate application and implementation. Quantitative and qualitative decision-making models and tools will be covered. Prerequisite: SYM 301.

SYM 303: Systems Analysis and Design 3 credits

This course discusses systems thinking and behavior as they apply to business environments. An overview of modeling and simulation will be discussed in terms of gaining insights into business issues, emphasizing the benefits of using these tools in areas where effective decision-making is critical. Students will be expected to complete several individual modeling and simulation projects using a higher level, object-oriented (drag and drop) simulation application. No programming experience is required. Prerequisite: SYM 301.

SYM 304: Designing Business Web Pages 3 credits

Student will learn to design and evaluate web pages for business applications. Considerations regarding internal organization and external user needs are discussed, along with evaluations of existing Internet Web sites. Types of available software applications are also considered. This is a hands-on course where students will be required to design simple sites on an individual basis and interconnected sites on a teaming basis. Prerequisite: SYM 301.

SYM 305: Business Programming 3 credits

This course focuses on the analysis of business problems to design and implement the software component of an information system. Emphasis is placed on structured design and programming. Includes an introduction to visual programming languages. Prerequisite: SYM 301.

SYM 306: Data Communications and Networking 3 credits

This course focuses on the concepts, architectures, components, protocols, and standards for message movement within information networks. Involves extensive use of the network design process to develop detailed understanding regarding the integration of business and information technology perspectives. Prerequisite: SYM 301.

SYM 501: Applied Business Probability and Statistics 3 credits

This course is designed for students who have not had statistics in their undergraduate work or for those who desire a refresher in mathematics. Topics covered include the theory and application of basic mathematic rules, algebraic formulae and manipulations, graphing, probability principles, and descriptive and inferential statistics.

SYM 603: Information Systems 3 credits

Students examine managerial issues associated with the application of information systems in business settings. Beginning with an analysis of the broad meaning and nature of information and systems, the focus narrows specifically to computer technologies, configurations, and applications as tools to benefit business environments and then expands to the Internet and World Wide Web as they apply to strategic global enterprise systems.

SYM 633: Fundamentals of Six Sigma 3 credits

This course provides students with an overview of the history of quality programs, the six sigma methodology (commonly known as DMAIC), and introductory process measurement and improvement tools including process mapping, data collection, Pareto analysis, and identifying root cause. Successful completion of the course results in initial progress towards Six Sigma Green Belt certification.

SYM 634: Advanced Six Sigma 3 credits

This course focuses on Six Sigma process improvement. Students are instructed in the most common techniques of analyzing and improving business processes within the Six Sigma framework. Key topics include defining capability, determining sigma level, verifying root cause, conducting regression analysis, calculating COPQ, and developing control plans. Successful completion of the course is designed to result in fulfilling the requirements for Six Sigma Green Belt certification. Prerequisite: SYM 633.

SYM 635: Applied Six Sigma 3 credits

This course covers advanced problem solving using the Six Sigma methodologies. The course provides instruction on the first three phases of the DMAIC methodology using an applied project, including advanced statistical analysis methods, design of experiments, and presentation of project findings. Successful completion of the course is designed to result in fulfilling the requirements for Six Sigma Black Belt certification. Prerequisite: SYM 634.

SYM 653: Business Programming Management 3 credits

This course will focus on the analysis of business problems and information management issues to design and implement the software component of an organizational information system. Emphasis is placed on structured design and programming that includes an introduction and examination of visual programming languages.

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement

SYM 654: Database Management System **3 credits**

This course is an examination of managerial issues associated with managing and securing data and information within an organization. Topics emphasized include database system types, decision support systems and framing, database administration, and database applications.

SYM 655: Data Communications and Network Management **3 credits**

This course is an examination of managerial issues associated with the movement of information within an organizational network. Topics emphasized include architectures, protocols, policies, security management, and network management organization.

Technical Credits (TEC)

**TEC 509: Instructional Technology:
Foundation and Framework** **3 credits**

This course orients students to the program, the technology challenges in today's classroom, and the national standards guiding them. It includes an introduction to creating a professional portfolio. All of the listed objectives meet the International Society for Technology in Education Standards for Teachers.

TEC 510: Curriculum and Instruction **3 credits**

This course provides in-depth study of brain-compatible learning experiences, designing curriculum units, and differentiating instruction for all students. Participants will use the skills of backward design, brain theory, other learning theory principles, curriculum mapping, and practical methods of differentiating learning to design a curriculum unit for a subject and grade level. The use of technology will be integrated in the course curriculum from the beginning. This course meets the International Society for Technology in Education (ISTE) Standard 2.

TEC 525: Schools in a Multicultural Society **3 credits**

This course takes an objective look at dual language instruction, examining its different parts in a social environment. It also includes basic definitions and theoretical frameworks for thinking about bilingual education. This is packaged into an extensive, up-to-date coverage of timely issues such as using technology for communicative language teaching; using technology to teach oral communication skills, reading, and writing; teaching thinking and inquiry-based learning with English language learners; the relationships among culture, community, and diverse learners; and using computers for assessment in second language teaching. This course meets the International Society for Technology in Education (ISTE) Standards called NETS for Teachers. The objectives below meet all of Section 6 of the National Education Teaching Standards (NETS).

TEC 535: Educational Applications of Technology **3 credits**

Participants will investigate various learning theories and how these theories are contributing to technology enhanced educational practices. The most current issues facing educational technology will be addressed in a threaded discussion format as well as through classroom discussion and journal or online article research. As the one-computer classroom is a prevalent condition in many school districts, teachers will learn strategies for fully utilizing this source with the entire class. This course meets the International Society for Technology in Education (ISTE) Standard 5. Prerequisite: TEC 509

TEC 540: Research Techniques and Procedures **3 credits**

This course facilitates the development of research knowledge and skill in practicing education professionals who must be knowledgeable, skilled, and adept in evaluating and interpreting research literature related to their job roles. Course content provides a basis for decision-making, change, and improvement and includes theory, techniques, design, and evaluation of research. This course meets the International Society for Technology in Education (ISTE) Standard 2.

TEC 545: Multimedia Instructional Strategies **3 credits**

This course focuses on the effective use of multimedia in classroom instruction. Participants will learn to evaluate multimedia, select appropriate multimedia, and match instruction to multimedia resources.

TEC 555: Design of Print-Based Media **3 credits**

This course provides the educator with the necessary knowledge and tools to create print media that can be used in their educational setting. Participants will develop and apply an understanding of the design principles of proximity, alignment, repetition, and contrast. These principles will be interwoven into discussions, class activities, group activities, and independent work. Participants will produce four projects – a layered graphic, a flyer, a newsletter, and a brochure – that have an educational theme or communicate an educational concept, program, or event. This course meets the International Society for Technology in Education (ISTE) Standard 3.

TEC 560: Interactive Design for the Classroom **3 credits**

The purpose of this course is to introduce students to the design of interactive classroom lessons and activities by integrating multiple intelligences and constructivist learning theories in multimedia and web design. This course meets the International Society for Technology in Education (ISTE) Standard #2.

TEC 565: Distance Learning **3 credits**

The purpose of this course is to introduce students to the design of interactive lessons and activities for distance education. The course defines distance education, including history, theories, and practical applications. This course meets International Society for Technology in Education (ISTE) Standards 1 and 3.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

TEC 580: Practicum in Technology **3 credits**

This mentored practicum experience will encourage a cooperative arrangement among the key stakeholders. Upon completion, the candidate will possess an understanding of the complexity of being a leader in school and classroom technology use and training, ranging from development of a vision for technology support to demonstrating practical skills ensuring smooth day-to-day technology integration in teaching. The internship meets the following International Society of Technology Education (ISTE) Standards.

Theater and Drama (TRE)

TRE 361: Valley Theatre Tour **3 credits**

A study of Valley theatres and their productions. Students will study dramatic criticism as well as attend productions and evaluate the performances.

Teaching English to Speakers of Other Languages (TSL)

TSL 529: Foundation of Instruction for English Language Learners **3 credits**

This course provides the historical, sociological, political, and legal foundations of instructional programs for English Language Learners in the United States. This framework will serve as a basis for understanding, comparing, and evaluating current language models and prototypes. This course will also introduce students to primary theories of language learning and current methodologies and practices.

TSL 530: Methods of Teaching English to Speakers of Other Languages **3 credits**

In this course, students will be instructed in immersion strategies, English language development strategies, and numerous research-based methodologies in current practice. Students will examine ways of organizing the classroom for optimal language learning, including especially cooperative learning. In the course setting, they will also develop, practice, and assess language lessons that align with state and national standards for teaching English Language Learners.

TSL 533: English Linguistics **3 credits**

This course will familiarize students with the fundamentals of linguistic theory, including the morphological, phonological, and syntactic structure of the English language. Other topics introduced are pragmatics, semantics, sociolinguistics, historical linguistics, and first and second language acquisition. Although emphasis is placed on descriptive analysis of the English language, examples and illustrations from several language systems will be used.

TSL 535: Teaching a Second Language in the Content Areas **3 credits**

The purpose of this course is to equip students with an awareness and sensitivity to the complexity and content-specific nature of language in curricular areas such as science, mathematics, and social studies. Students will examine ways to integrate language, literacy, and content area instruction in elementary, middle school and high school settings. They will create content-based language lessons that address a variety of learner proficiencies and cultural experiences.

TSL 539: Curriculum Development and Assessment **3 credits**

Teachers must be course developers as well as designers of instruction for daily and weekly lessons. In this course, students compare numerous syllabus types such as grammatical, text-based, and content-based. They also fully examine assessment for the purposes of identification, placement and instructional delivery. They subsequently design and fully develop the materials for a language unit that aligns with the state and national standards and current assessment practices.

TSL 542: Second Language Acquisition and Education **3 credits**

This course offers background understanding of how SLA research informs language teaching. It examines the interaction between SLA research findings and the teaching of listening comprehension, reading, vocabulary, writing and grammar, and shows how SLA research can help teachers appreciate individual learner differences and appropriately adapt their teaching styles. The course also examines the different roles that a second language plays in society, noting the political implications inherent in language education everywhere.

TSL 544: Teaching in a Pluralistic Society **3 credits**

To be an effective educator, one needs knowledge of how student diversity affects and influences instruction. This course gives attention to instructional models that have proven successful with students from diverse linguistic, cultural, racial, ethnic, economic, and intellectual backgrounds. It presents the major goals, principles, and concepts of multicultural education, including multiple perspectives in culture and history and understanding cultural and individual differences in teaching and learning.

TSL 555: Practicum in TESOL **3 credits**

Students have direct participation and experience with English Language Learners at their chosen level of instruction, whether children or adults. In a supervised classroom, they will practice teaching and management skills, conduct assessments, and learn to communicate effectively with students, parents, colleagues, administrators, and the larger community.

*Campus/Off-site only | [^] Writing-intensive course | [♦] Fulfills Grand Experience requirement | [✱] Fulfills Grand Experience Christian Studies requirement

TSL 570: Modern English Grammar **3 credits**

In this course, students are introduced to the linguistic analysis of English syntax, with attention given both to a descriptive approach that examines how sentences are constructed and how they relate to each other as well as to the traditional prescriptive grammar taught in most schools. Examples will be used that draw upon the latest linguistic and applied linguistic research and include discussions of problems that English Language Learners regularly encounter.

TSL 575: Child Language Acquisition **3 credits**

This course introduces the language educator to the current, central issues in the study of child language acquisition, or native language acquisition, including an examination of research on children's acquisition of phonology, pragmatics, morphology, syntax and the lexicon. It reviews the role of input in shaping the child's developing language system, including how language is acquired when the input is visual-gestural, as it is in sign language.

TSL 580: Reading Theories and Research **3 credits**

The focus of the course is to prepare classroom teachers to critically read published research on the teaching of reading to speakers of other languages, to integrate those findings with personal experience in order to make reflective instructional decisions, and to participate in pedagogical research and theory building. Using knowledge acquired during the course, students will develop a study team to improve instructional practices based on research findings. The study team will implement strategies and provide feedback and data on the application of the research findings.

University Studies (UNV)

UNV 101: University Success **3 credits**

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 include the values of higher education, programming the mind for success, building interpersonal relationships, making the grade, decoding the professors, finance and time management, degree and campus planning, effective communication, confidence and leadership, health and fitness, stress management, keeping faith, and others.

UNV 105: Writing Experience I **3 credits**

A course for students whose SAT or ACT scores indicate their need for a review of writing skills and strategies. UNV 105 reviews fundamentals such as grammar and sentence structure, as well as basics of topic selection, brainstorming activities, reading critically, and outlining. Students will begin with simple writing tasks, but will progressively increase from single paragraph construction to the five-paragraph model.

UNV 110: Writing Experience II **3 credits**

A course for students whose SAT or ACT scores indicate their need for a review of writing skills and strategies. UNV 110 reviews fundamentals such as grammar and sentence structure, as well as the basics of topic selection, brainstorming activities, reading critically, and outlining. Students will begin with simple writing tasks, but will progressively increase from single paragraph construction to writing college-level papers.

UNV 200: History of Ideas **3 credits**

Course description TBD

UNV 300: Study Abroad **1–16 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 304: Science and the Christian Faith **3 credits**

This course encourages reflection on the relationship between science and the Christian faith. The first unit provides an historical survey of Christian perspectives on science. The second unit focuses on contemporary understandings of science, and practical issues such as genetics, environmental ethics and medical ethics. Prerequisite: BIB 103, BIB 113, or BIB 123.

UNV 305: The Christian Mind **3 credits**

This course examines the historical development of the Christian worldview and challenges students to consider the problems facing humanity in the 21st Century from a Christian perspective. Prerequisite: BIB 103, BIB 113, or BIB 123.

UNV 306: Foundations of the Christian Faith **3 credits**

Every Spring. This course examines the historical origin and development of the Christian faith and the ideas necessary to its interpretation. Prerequisite: BIB 103, BIB 113, or BIB 123.

**UNV 310: Theological Ideas in Christian Art:
A Historical Survey** **3 credits**

The study of major theological themes along with aesthetic principles as they apply to Christian artistic expression across the ages.

UNV 320: Foundations of Interdisciplinary Studies **3 credits**

Introduces concepts and methods of interdisciplinary study critical analysis of contemporary vocational and cultural trends

UNV 325: Applied Interdisciplinary Studies **3 credits**

An online course where students gain practical knowledge and apply interdisciplinary coursework as it applies to real world settings. Group projects required.

*Campus/Off-site only | ^Writing-intensive course | ♦Fulfills Grand Experience requirement | *Fulfills Grand Experience Christian Studies requirement

UNV 490: International Studies Senior Seminar 3 credits

On demand. This is the capstone course for the International Studies major. Study is designed to bring the knowledge obtained in interdisciplinary courses into focus for the person who plans to work in an international relations field. Prerequisite: Senior status.

UNV 498: Advanced Topics in Faith and Disciplines 3 credits

On demand. A repeatable, interdisciplinary seminar that deals with advanced topics in faith and academic disciplines. It equips students with critical and broad perspectives on important issues in science, society, and the Christian faith. Prerequisite: A UNV or HON 300-level course or instructor's approval.

Creative Arts in Worship (WOR)

WOR 201: Introduction to Worship 3 credits

This course examines the biblical and historical roots of worship, explores the articulators of worship, and helps guide the participants in the development of pastorally sensitive, personally effective, and theologically sound worship services. The course will combine lectured, discussion, worship experience, and student-led worship. Prerequisite: None.

WOR 301: Arts and Worship 3 credits

This course explores the use of the creative and performing arts as modes of communicating God's acts in history and life in the context of Christian worship. The course will combine lecture, discussion, worship experience, and student-led worship. Prerequisite: WOR 201.

WOR 302: Personal Worship Planning 3 credits

This course focuses on the development of private devotional worship and its necessity as a base for leading public corporate worship. Prerequisite: WOR 201.

WOR 303: Planning Corporate Worship 3 credits

This course examines how worship brings the congregation into God's presence through various elements of expression. This seminar style course combines lecture, discussion, worship experience, student-led worship, and process-oriented peer-review. Prerequisite: WOR 201.

WOR 401: Worship Leading Seminar 3 credits

This course focuses on developing the leadership skills of those responsible for guiding corporate worship. Prerequisite: WOR 201.

WOR 475: Issues in Contemporary Worship Ministry 3 credits

Examining current movements, trends, leaders, and perspectives affecting worship and worship styles in the United States and around the world is imperative to becoming an effective worship leader. Topics will include efforts being made in the local church, regional church, and national ministries to establish unique worship programs. Contemporary worship and classical worship styles will be discussed and defined. Particular attention will be given to understanding worship through the eyes of the audience as well as the leader

*Campus/Off-site only | ^ Writing-intensive course | ♦ Fulfills Grand Experience requirement | * Fulfills Grand Experience Christian Studies requirement