Grand Canyon University

PHOENIX • ARIZONA

Debbie's Catalogue

The YOU factor

Quality Christian education for over 50 years

Catalog 2003-2004

WHOM TO CONTACT

Concerning:	Write:	Call: (602)
Academic Matters, Faculty, Curriculum	Provost/Vice President for Academic Affairs	589-2450
Academic Records, Registration, or Transcript Requests	Office of Academic Records	589-2850
Administration, Legal Matters	Legal Advisor	249-3300
Admission, Application Procedures	Office of Admission	589-2855
Athletics	Athletic Director	589-2806
Alumni Services	Director of Alumni	589-2545
College of Business and Professional Studies	Dean	589-2867
College of Christian Studies (J. Niles Puckett)	Dean	589-2050
College of Education	Dean	589-2474
College of Liberal Arts	Dean	589-2468
College of Science	Dean	589-2714
College of Nursing (Samaritan College of Nursing)	Dean	589-2730
Campus Housing	Director of Residence Life	589-2860
Fund Development, Estate Planning, Endowed Gifts	Office of the President	589-2755
International Student Matters	Director, Center for International Education	589-2808
Publicity Materials	Marketing & Public Relations	589-2904
Scholarships, Loans, Grants, Veterans Affairs	Office of Financial Aid	589-2885
Student Accounts, Tuition, Fees, Expenses	Business Office	589-2880
Student Activities	Office of Student Life	589-2830
Student Employment	Director of Student Employment	589-2847

University Main Switchboard Numbers:

(602) 249-3300
(800) 800-9776

University Mailing Address:

Grand Canyon University
P.O. Box 11097
Phoenix, AZ 85061-1097

University Street Address:

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

Please bring this catalog to Grand Canyon University with you when you enroll. You will refer to it often.

For further information on Accreditation, contact:

Commission on Institutions of Higher Education
North Central Association of Colleges and Schools
30 North LaSalle Street, Suite 2400
Chicago, Illinois 60602-2504
(312)263-0456
(800)621-7440

This catalog contains current information regarding the calendar, admission, degree requirements, fees, regulations, and course offerings. This catalog is for information purposes and does not constitute a contract. The University reserves the right to make changes of any nature to the calendar, programs, fees, or academic schedules whenever they are deemed necessary or desirable, including changes in course content, class scheduling, and the canceling of scheduled classes or other academic activities.

In accordance with federal laws and regulations, Grand Canyon University admits students of any race, color, and national or ethnic origin in its educational programs or activities.

The Grand Canyon University catalog does not establish a contractual relationship; rather, the catalog sets forth the academic and other requirements that a student 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 the student with respect to the requirements, it is the ultimate responsibility of the student to follow them. The University may change the requirements, programs, courses, and policies/procedures at its sole discretion. In addition, the University retains the right to modify class schedules or offering patterns and allows course instructors the freedom within the University's mission to cover course topics as they wish.

The name of Grand Canyon University shall not be used by any student or any employee of the University in connection with any commercial venture, without written approval of the President of the University.

TABLE OF CONTENTS

Academic Calendar iv

General University Information 1-4

Admission Policy and Procedure 4-13

Financial Information 13-21

Student Life 21-23

General Academic Regulations 23-27

Graduation Requirements 27-32

University Special Programs 32-36

University-Wide Courses 36-38

University Colleges

- College of Business and Professional Studies 39-53
- College of Christian Studies (J. Niles Puckett) 54-61
- College of Education 62-77
- College of Liberal Arts 78-116
  - Art 80-84
  - Communications/Speech 85-88
  - Humanities 89-94
  - Mathematics 95-97
  - Music 98-107
  - Social Sciences 108-113
  - Theatre & Drama 114-116
- College of Science 117-136
  - Biology 120-124
  - Health, Exercise Science and Physical Education 125-130
  - Physical Sciences 131-136
- College of Nursing (Samaritan College of Nursing) 137-141

Board of Trustees 142

Foundation Board of Directors 142

Administration 142

Dignitary 142

Faculty 142-146

Index 147-152

Course Prefix Index 152

Campus Map 153-154

CALENDAR 2003 - 2004

FALL SEMSTER 2003 (August 21 – December 12)

Prologue and College Faculty Meetings	8/14
Apartment Move In	8/15
Residence Halls Open	8/18
Registration	8/18-20
Welcome Week	8/18-23
Evening Registration (6-7 p.m.)	8/19
Instruction Begins	8/21
Late Registration	8/21-29
Last Day to Add a Class	8/29
Labor Day (No Classes, Offices Closed)	9/1
Mid-Term Examinations	10/6-10
Mid-Term Grades Distributed to Students	10/13-17
Last Day to Drop a Class/Change to Audit	10/31
Priority Pre-registration for Spring/Summer 2004 Classes (Open to Currently Enrolled Students Only)	10/27-31
Evening Priority Pre-registration (6-7 p.m.) (Open to Currently Enrolled Students Only)	10/28
Pre-registration for Spring/Summer 2004 Classes (Open to Currently Enrolled Students Only)	11/3-12/12
Veterans' Day (No Classes, Offices Closed Exception: Classes Beginning After 4:00 p.m.)	11/11
Thanksgiving Holiday (No Classes, Offices Closed)	11/27-28
Grades for Incompletes Earned in Spring or Summer 2003 Due	12/1
Final Examinations	12/9-12
Fall Final Grades Due By Noon	12/19
Christmas Holiday	12/15-1/6

STUDENT TEACHING FALL 2003

Fall Student Teaching Begins	8/21
Fall Student Teaching Ends	12/12

SPRING SEMESTER 2004 (January 7 – May 4)

Residence Halls Open	1/4
Registration	1/5-6
Evening Registration (6-7 p.m.)	1/6
Instruction Begins	1/7
Late Registration	1/7-15
Last Day to Add a Class	1/16
Martin Luther King, Jr./Civil Rights Day (No Classes, Offices Closed)	1/19
President's Day (No Classes, Offices Closed, Exception: Classes Beginning After 4:00 p.m.)	2/16
Mid-Term Examinations	2/17-20
Mid-Term Grades Distributed to Students	2/23-27
Spring Break (No Classes)	3/8-12
Last Day to Drop a Class/Change to Audit	3/19
Priority Pre-registration for Summer/Fall 2004 (Open to Currently Enrolled Students Only)	3/22-26
Pre-Registration for Summer/Fall 2004 (Open to Currently Enrolled Students Only)	3/29-5/4
Good Friday (No Classes, Offices Closed)	4/9
Grades Due for Incompletes Earned in Fall 2003	4/15
Final Examinations	4/29-30; 5/3-4
Senior Grades Due by Noon	5/5
Graduation	5/8
Spring Final Grades Due by Noon	5/10

STUDENT TEACHING SPRING 2004

Spring Student Teaching Begins	1/7
Spring Student Teaching Ends	5/4

SUMMER 2004 (May 10 – July 30)

For specific Summer term dates, see course bulletin in the Office of Academic Records.

Grand Canyon University

MISSION STATEMENT

Grand Canyon University is a student focused institution that provides an academically challenging education in a Christian community for students from diverse backgrounds who live in a constantly changing world.

PURPOSE STATEMENT

As a private Christian Liberal Arts institution of higher education, Grand Canyon University is student focused. The University environment promotes student development intellectually, spiritually, socially, and physically. Further, it encourages exploration of leadership, vocational, and interpersonal skills. Grand Canyon University is committed to developing lifelong learners and helps all of its students reach their full potential.

Grand Canyon University offers an academically challenging curriculum at both the undergraduate and graduate levels. With its undergraduate curriculum founded on a strong core of liberal arts and sciences, Grand Canyon University provides both traditional and innovative programs that will lead today's students to think critically, solve problems, communicate effectively, and acquire an understanding and appreciation of their own and other cultures and times. Grand Canyon University also provides graduate, professional, and continuing studies programs designed to meet the needs of students who have identified career or personal objectives requiring an advanced or specialized course of study ranging from one class to an entire degree.

Grand Canyon University is a Christian community which values the integration of faith into learning and contemporary living. The institution helps students to develop values basic for spiritual fulfillment, wholesome personal growth, and service to the larger community. The institution also serves the larger community by reaching out to meet the needs of those who wish to complete a degree or pursue graduate or professional coursework through its off-campus and distance-learning programs.

In valuing the uniqueness of each individual, Grand Canyon University welcomes students of diverse backgrounds from across the United States and around the world, regardless of sex, religion, age, race, physical handicap, or national origin.

FOUNDATIONAL STATEMENT

Grand Canyon University prepares students to live, learn, and remain relevant to options in a changing world. Its programs are based upon the following assumptions:

1. Students enter higher education with individual worldviews. The essence of a strong educational program encourages inquiry and an exploration of conflicting views with fairness and integrity.

2. Students have individual goals and abilities. Some students anticipate acquiring broad, generalized competencies, while others wish to prepare for specialized professional careers or advanced study. Part of the educational process is to assist students in selecting goals that best suit their abilities.

3. Education is an active process; students are expected to participate in all phases. Active participation increases the likelihood that students will develop the joy of learning and appreciate the intrinsic value of lifelong learning habits which are essential in today's rapidly changing society. This process of developing lifelong learning habits allows changes in vocational direction as interests and commitments change or as situations demand.

4. Higher education includes both exposure to the wide range of human knowledge and endeavors as well as exploration of at least one field of study. The foundation provided by the breadth of a Christian liberal arts education encourages the integration of diverse life experiences. The selection of a particular major allows students the opportunity to learn how to acquire new knowledge through in-depth study and research.

5. The University's full-time faculty and staff have a professed personal relationship with Jesus Christ. They have a faith orientation congruent with the mission of the University and live out their faith in service to the student, University, and global community.

6. Faculty who teach at Grand Canyon University continue their own professional growth through scholarly activity, frequently involving students in their endeavors.

7. The educational experience promotes consistent and personal evaluation that leads to maturity. Some of the most significant personal growth occurs through student interaction with faculty and staff who serve as mentors and role models for students.

ACCREDITATION

The University is accredited by the Commission on Institutions of Higher Education, North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, (312) 263-0456, (800) 621-7440.

The Association of Collegiate Business Schools and Programs, 7007 College Boulevard, Suite 420, Overland Park, Kansas 66211, (913) 339-9336, accredits the University for the Bachelor of Business Administration and Master of Business Administration degrees.

The Arizona State Department of Education has given formal approval of the work done at the University for the certification of elementary and secondary teachers and for the renewal of certificates.

The Arizona State Board of Nursing and the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington DC 20036, (202) 887-6791, accredit the University for the Bachelor of Science in Nursing degree.

The University is a member of the Council for Christian Colleges and Universities, as well as the Council for Independent Colleges.

By authorization from the Immigration and Naturalization Service of the Department of Justice, non-immigrant alien students may apply for admission to the University.

HISTORICAL SKETCH

Grand Canyon College was born in the wake of World War II — the realization of a dream long held dear by the tiny congregations of Southern Baptists that called the Arizona mission frontier their home.

Determined to quench the postwar thirst for education with Living Water, as well as a strong draught of academics, the Baptist General Convention of Arizona in the fall of 1946 voted to organize a college. A few months later, the Convention selected the first trustees for the school, who soon secured an abandoned armory building in Prescott, Arizona as Grand Canyon's first campus.

The College was chartered on August 1, 1949, and set sail a few weeks later with 16 faculty and approximately 100 students, many of them veterans.

Two years later, the College moved to Phoenix, putting down roots and putting up its first permanent buildings on a 90 acre tract in west Phoenix. Grand Canyon was fully accredited in 1968, by the Commission on Institutions of Higher Education, North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, (312) 263-0456, (800) 621-7440.

The College was first considered primarily a school for preachers, but that reputation expanded rapidly. Grand Canyon University became famous early on for its teacher education program, and soon developed outstanding programs in the sciences, nursing, business, music, and the arts, while maintaining its excellence in Christian studies.

During the planning for the change in institutional organization and status from "Grand Canyon College" to "Grand Canyon University," the institution identified several landmark events which had been and would be pivotal during this transition. These included, but were not limited to, the organization of programs and departments into multiple colleges, the offering of graduate degree programs, the formation of the Grand Canyon University Foundation which coordinates the fund-raising activities of the University, and the generosity of several individuals who pledged or gave unrestricted gifts valued at one million dollars or more to launch the University into the next decade and century.

The Grand Canyon University Foundation was formed in 1983 and subsequently received several gifts of more than one million dollars which led to the following individuals being named as University Founders:

Drs. Jerry and Sarah Smithey
Dr. and Mrs. Gary and Donna Torhjelm
Dr. Huddy Bell
Dr. Joni Hegel
Dr. C.J. Smith and B.J. Smith

In May of 1984, the College trustees voted to prepare for transition to university status on the school's 40th anniversary in 1989.

The following persons have served as President of Grand Canyon College and University:

Willis J. Ray, 1949-50
F. Leroy Smith, 1950-52
B.O. Herring, 1952-54
Loyed R. Simmons, 1955-58
Eugene N. Patterson, 1959-65
Arthur K. Tyson, 1966-72
William R. Hintze, 1973-77
Bill R. Williams, 1978-99
Gil W. Stafford, 2000-present

GOVERNING BODY

The University is governed by a board of trustees.

Faculty

Grand Canyon University, as a private Christian university, selects its instructional staff to fulfill its mission, with an emphasis being placed upon character, academic competence, teaching ability, and willingness to support the institution's mission and programs. The University, under the direction of its Board of Trustees, makes decisions regarding retention and promotion of its faculty based on the areas described above and the faculty member's evident congruence with the philosophy and direction of the institution. Evidences of character include dynamic Christian living, active participation in and financial support of church affairs, maintenance of high standards of accomplishment for themselves and their students, and punctuality and dependability in meeting their responsibilities. Evidences of academic competence include acquiring advanced degrees, contributing to their fields of specialization, and displaying professional habits of study and research. Teaching ability is determined by a process which includes student, peer, and administrative evaluations. The Faculty Handbook outlines the faculty evaluation process in detail.

Alumni Association

The Alumni Association of Grand Canyon University was organized in the spring of 1953, when the first four-year class graduated. The constitution, adopted in 1955, provides for membership of graduates and those former students who have completed a minimum of 32 semester hours in residence.

UNIVERSITY CAMPUS

General Information

The University is located in the central northwest area of Phoenix, the capital city of Arizona. Phoenix is near the geographical center of the state and is a thriving industrial and agricultural city with a population of over 2.3 million in the metropolitan area. Located near places of interest such as the Grand Canyon, the Petrified Forest, Montezuma's Castle, Oak Greek Canyon, Walnut Canyon, and the Superstition Mountains, Phoenix is one of the notable winter resorts of America.

The University is thankful to the following donors for their significant contributions:

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

Academic Facilities

Grand Canyon University consists of 40 buildings on a 94-acre campus. The campus features the Fleming Library with holdings of 90,284 books, government documents, and audio visual materials. The library has 744 continuing periodical and newspaper subscriptions, is a member of the OCLC network, and is a Federal Depository. There are 18 computers for student use, 15 of which provide access to the Internet. The library offers access to both CD-ROM and on-line research as well as Inter-library Loan.

The majority of classes are held in the Fleming Classroom Building, with additional classes held in the Weidenaar Classroom Building, Wallace Building, Williams Building, College of Science, and Samaritan College of Nursing. Ethington Memorial Theatre sets the perfect stage for drama and other productions, with more than 300 seats. The C.J. and Thelma Smith Arts Complex houses the A.P. Tell Gallery and other tailored creative spaces. The Tell Science Building and Samaritan College of Nursing are both equipped with state-of-the-art laboratory, computer, multi-media, and clinical learning spaces.

Grand Canyon University features two micro-computer laboratories utilizing IBM-compatible personal computers and a separate Macintosh laboratory.

University Publications

The Grand Canyon University Catalog is published by the University.

Class Bulletins are published for the Fall and Spring semesters and the Summer sessions.

Canyon Crossroads is published by the University for the purpose of presenting the activities of alumni, faculty, staff members, and students; improvements and additions to the campus; and other items of interest to schools, libraries, churches, alumni, parents of students, and other friends of the University.

Student Handbook/University Calendar is published annually by the Office of Student Life and provides information, rules, policies, procedures, and a monthly calendar of campus events.

Faculty Handbook is published by the Office of Academic Affairs and provides policy for University committees and faculty employment.

Every attempt is made to provide accurate and complete information at the time of each publication's printing. However, the University may change the requirements, programs, courses, and policies/procedures at its sole discretion. (The University has no right to change policies/procedures of another organization for which it is merely acting as an agent.)

University Seal

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

University Mascot

The University mascot is the antelope. Antelope are native to the region surrounding Prescott, Arizona, near the college's first campus. The mascot reminds us of our heritage and humble beginnings.

ADMISSION POLICY AND PROCEDURE

General Statement

Grand Canyon University welcomes applications from qualified students at least 16 years of age with the potential to benefit from our educational programs and to contribute to the University community. Although the University seeks to integrate Christian faith and practice into all aspects of campus life, no statement of faith or religious affiliation is required of prospective students. Applications for admission are considered primarily in light of the applicant's academic and personal qualifications. Grand Canyon University does not discriminate on the basis of age, race, color, national origin, sex, or handicap in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Legal Advisor, 3300 West Camelback Road, Phoenix, Arizona 85017, (602) 249-3300. Any qualified student willing to uphold the University's community standards and open to the possibility of spiritual as well as intellectual development is encouraged to apply.

For information and application forms, contact:

OFFICE OF ADMISSION
Grand Canyon University

MAILING ADDRESS:
P.O. Box 11097
Phoenix, AZ 85061-1097

STREET ADDRESS:
3300 West Camelback Road
Phoenix, AZ 85017-3030

TELEPHONE:
(602) 589-2855 or
1 (800) 800-9776, ext. 2855

OFFICE HOURS:
Monday - Thursday, 9:00 a.m. to 6:00 p.m. (MST)
Friday, 9:00 a.m. to 4:00 p.m. (MST)
Summer hours may vary.
Please call the Office of Admission for times.

Campus Visits

Students interested in attending Grand Canyon University are strongly encouraged to visit campus. Campus visits are arranged through the Office of Admission, and can be tailored to suit students' individual needs. Visits may include a campus tour, admission counseling, appointments with faculty members, and opportunities to sit in on classes or attend chapel services. If possible, students should contact the Office of Admission at least two weeks in advance of the date they plan to be on campus, particularly if they wish to arrange an evening or weekend visit. Campus tours are conducted daily, Monday - Friday at 10:30 a.m. and 2:30 p.m. (MST).

Priority Registration

All new incoming students have the opportunity to participate in a program to orient them to campus life, provide consultation on financial aid and money management, and facilitate their academic advisement. As a part of Priority Registration, students are able to pre-register for Spring, Summer, and Fall courses and reserve their class schedules prior to traditional walk-through registration for those terms. Students accepted on Admission with Specification are required to participate in Priority Registration.

For reservation deadlines, costs, and additional information, please contact the Office of Admission. Students who choose not to take advantage of Priority Registration may register during traditional walk-through registration for the appropriate term.

General Information

Grand Canyon University operates on a rolling admission system. This means that applicants generally receive an admission decision within two weeks after all required documents are on file in the Office of Admission.

If prospective students are in high school, they may apply for admission the summer preceding their senior year, after they have successfully completed six semesters of high school work. If they wish to transfer from another college or university, they should apply at the beginning of their final semester of attendance there. In any case, it is to their advantage to apply as early as possible. Applications for financial aid and housing cannot be completely processed, and transcripts will not be evaluated, until prospective students have applied for admission.

Undergraduate students may seek admission to the University under the following categories:

New Freshmen or Transfer — students who wish to enter Grand Canyon University after completing high school or who plan to transfer from another college or university;

Homeschooler — Students who have been homeschooled and possess the equivalent of a high school diploma;

Early Admission Program — exceptional students who wish to begin college while still in high school;

Unclassified — non-degree-bound students planning to enroll in courses for personal enrichment or to meet other specific needs;

Re-Admit — students previously enrolled at Grand Canyon University who have not maintained continuous attendance.

Admission requirements and application procedures for students in each category are outlined below.

International students should refer to the section entitled "International Student Admission" for specific policies and procedures.

Important: Prospective students should be aware that acceptance for admission to Grand Canyon University does not guarantee admission to particular programs within the University. They should refer to the catalog sections describing programs in which they are interested to determine if there are specific entrance requirements for those programs in addition to the general University admission requirements.

Standards for Admission

1. FRESHMAN STUDENT

Under this classification, a high school student may be accepted for admission by meeting one of the four criteria stated below:

1. Rank in the top quarter (25%) of his or her graduating class, or

2. Have an unweighted GPA for all academic subjects of at least a 3.00 on a 4.00 scale, or

3. Score a composite of 22 on the ACT, or

4. Score a composite of 1050 on the SAT.

IN ADDITION, it is usually necessary that the student satisfactorily complete basic competency requirements; however, admission may be granted to new freshmen with one deficiency in no more than two competency areas. The competency requirements may be met by a combination of high school courses, college courses, and test scores:

English	4 years
Mathematics	3 years
Lab science	2 years
Social science	2 years

A minimum unweighted GPA of 3.00 on a 4.00 scale must be earned each year in the four competency areas.

English:
1. Four years of high school English (composition/literature-based), or
2. Minimum test score of 21 on the ACT English or 530 on the SAT Verbal, or
3. One three-semester-hour transferable college English composition course.

Mathematics:
1. Three years of high school mathematics courses: two years of algebra and one year of a math course that requires algebra as a prerequisite, or
2. Minimum test score of 20 on the ACT Math or 520 on the SAT Math, or
3. Two transferable three-semester-hour college pre-algebra courses, or one transferable three-semester-hour college algebra course.

Laboratory Science:
1. Two years high school laboratory science; one year each from two of the following: biology, chemistry, earth science, or physics, or
2. One year high school laboratory science (biology, chemistry, earth science, or physics) plus minimum test score on one of the following: SAT II Chemistry Test - 630, SAT II Biology Test - 580, SAT II Physics Test - 650, ACT Science - 20, or
3. One transferable four-semester-hour college laboratory science course.

Social Science:

The student must meet one requirement from Section A and one requirement from Section B.

Section A:
1. One year high school American history, or
2. Minimum test score of 610 on the SAT II American History Test, or
3. One transferable three-semester-hour college American history course.

Section B:
1. One year of high school social science (European history, world history, sociology, geography, government, psychology, or anthropology), or
2. Minimum score of 630 on the SAT II World History Test, or
3. One transferable three-semester-hour college social science course.

Early Admission

A high school student with an outstanding academic record may apply for early admission to Grand Canyon University with the permission of his or her high school principal or counselor. Such a student may begin taking courses at the University during the summer preceding his or her senior year. Credit earned in this way may later be applied toward a degree program at Grand Canyon University, provided the student graduates from high school, applies and is accepted for regular admission to the University.

Applications for Early Admission will be evaluated on an individual basis.

2. HOMESCHOOLED STUDENT

Under this classification, a student may be accepted for admission by meeting one of the criteria stated below:

1. Have an unweighted GPA for all academic subjects of at least a 3.00 on a 4.00 scale, or

2. Score a composite of 22 on the ACT, or

3. Score a composite of 1050 on the SAT.

In some cases, homeschooled students may need to satisfy an admission interview to determine evidence of maturity and readiness for college level work.

IN ADDITION, it is usually necessary that the student satisfactorily complete basic competency requirements; however, admission may be granted to new freshmen with one deficiency in no more than two competency areas. The competency requirements may be met by a combination of high school courses, college courses, and test scores:

English	4 years
Mathematics	3 years
Lab science	2 years
Social science	2 years

A minimum unweighted GPA of 3.00 on a 4.00 scale must be earned each year in the four competency areas.

English:
1. Four years of high school English (composition/literature-based), or
2. Minimum test score of 21 on the ACT English or 530 on the SAT Verbal, or
3. One three-semester-hour transferable college English composition course.

Mathematics:
1. Three years of high school mathematics courses: two years of algebra and one year of a math course that requires algebra as a prerequisite, or
2. Minimum test score of 20 on the ACT Math or 520 on the SAT Math, or
3. Two transferable three-semester-hour college pre-algebra courses, or one transferable three-semester-hour college algebra course.

Laboratory Science:
1. Two years high school laboratory science; one year each from two of the following: biology, chemistry, earth science, or physics, or
2. One year high school laboratory science (biology, chemistry, earth science, or physics) plus minimum test score on one of the following: SAT II Chemistry Test - 630, SAT II Biology Test - 580, SAT II Physics Test - 650, ACT Science - 20, or
3. One transferable four-semester-hour college laboratory science course.

Social Science:

The Student must meet one requirement from Section A and one requirement for section B.

1. One year high school American history, or
2. Minimum test score of 610 on the SAT II American History Test, or
3. One transferable three-semester-hour college American history course.

Section B:

1. One year of high school social science (European history, world history, sociology, geography, government, psychology, or anthropology), or
2. Minimum score of 630 on the SAT II World History Test, or
3. One transferable three-semester-hour college social science course.

3. TRANSFER OR RE-ADMIT STUDENT

Students with at least 24 semester hours of completed transferable credit in academic subjects must have a cumulative GPA of at least 2.00 on a 4.00 scale to be accepted to the University. Students with less than 24 hours are subject to the same requirements as listed for freshman applicants, and must submit an official high school transcript and either ACT or SAT scores in addition to official transcripts from all colleges and/or universities attended.

If students have completed at least 24 hours of acceptable credit from a regionally accredited college or university, they do not need to submit their high school transcripts or GED scores (see the section entitled "Evaluation of Transfer Credit" for the definition of acceptable credit). However, if they plan to participate in varsity athletics, they must submit either their high school transcripts or GED certificate and scores regardless of the number of hours of credit they have completed at the collegiate level.

The Colleges of Business and Professional Studies, Education, and Nursing require a higher GPA for admission to their particular programs. A student desiring to be admitted into these colleges should review the appropriate college section of the catalog for further details.

Students who have been asked to withdraw from another college due to poor scholarship or any other reason are considered for acceptance only if the period of suspension set by the former school has elapsed or the college from which the student was asked to withdraw reinstates him or her.

Transfer students who have not graduated from high school or do not possess a GED will not be admissible to Grand Canyon University until they have completed a program of at least two years in length (48 transferrable credit hours) from a regionally accredited college or university that is acceptable for full credit towards a bachelor's degree.

4. GRADUATE STUDENT

In addition to baccalaureate degrees, Grand Canyon University also offers master's degrees in the following areas: Master of Business Administration, Master of Arts in Teaching, Master of Arts in Education, and Master of Education. For admission requirements for the Master of Business Administration see The College of Business and Professional Studies (page 48). For the Master of Arts in Teaching, Master of Arts in Education, and Master of Education see The College of Education (page 68).

Standards for Admission with Specification

If a student does not meet the qualifications for admission, he or she may be accepted to the University under Admission with Specification. A student being considered for Admission with Specification may be asked to submit additional information such as personal references and a letter explaining academic history. They may also need to schedule an interview with an Admission Counselor to help clarify academic goals and help the University make an informed decision.

Acceptance under this plan will be accompanied by an individualized program of study to increase the student's potential for success at Grand Canyon University. Admission with Specification will require a student to limit the first semester's course work to 13 credit hours, meet regularly with an advisor, take courses designed to develop competency in areas where improvement is needed, and participate in a cohort program.

After the student has completed one semester full-time at Grand Canyon University, his or her academic records will be reviewed. If the student has earned at least 12 hours and achieved a GPA of 2.00 or better, the specification will be removed. If not, the student will have one more semester with specification to demonstrate his or her ability to be successful in the academic program. At the end of the latter semester, the student may be refused continued enrollment if the above criteria remain unmet.

Levels of Specification:

Each student being considered for admission with specification will be assessed to determine additional documentation required. Note: students in levels one through three of specification are not guaranteed admission to the University. Submitting the requested documentation simply allows the University to make an informed decision.

Level One:

2.99 – 2.50	Cumulative GPA	or
1040 – 980	Composite SAT score	or
21 – 20	Composite ACT score	

- Personal Statement of any length explaining his or her academic history.

Level Two:

2.49 – 2.30	Cumulative GPA	or
980 – 950	Composite SAT score	or
19 – 18	Composite ACT score	

- Personal Statement of any length explaining his or her academic history.
- Academic Reference Letter

Level Three:

2.29 – 2.00	Cumulative GPA	or
< 950	Composite SAT score	or
< 18	Composite ACT score	

- Personal Statement of any length explaining his or her academic history.
- Academic Reference Letter
- Personal Reference Letter

Level Four: Deferral

Any student with a cumulative GPA of < 2.00 will be automatically deferred to a community college for one full year. At that time the student may re-apply for admission to the university.

Standards for Unclassified Students

Applications for Admission as unclassified students are evaluated on an individual basis. At such time as a student decides to apply for regular admission, the standards for the appropriate classification will apply.

APPLICATION PROCEDURES

New Freshmen

In order to be considered for admission as a freshman, prospective students will need to remit the following:

1. A completed and signed Application for Admission.

   Prospective students must complete and sign the Application for Admission. It is important that they provide all the information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

   The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

3. Official transcript(s) and/or GED scores.

Prospective students will need to request official transcripts from their high school and from any colleges or universities they have attended; applicants are not permitted to disregard their records of enrollment at other institutions. These records must be mailed directly from the issuing school to the Office of Admission.

Transcripts mailed or hand-carried by applicants are unacceptable unless they are delivered in a sealed envelope from the issuing institution.

If prospective students have not graduated from high school but have passed the Test of General Educational Development (GED), they will need to submit their GED scores and an official transcript of all high school work they have completed. GED applicants must be at least 18 years of age and show evidence of maturity and readiness for college level work.

If prospective students have completed work at an institution outside of the United States, they must have the work evaluated by an approved evaluation service selected by the University (see the section entitled "Evaluation of Transfer Credit").

Although applicants may be preliminarily accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. If accepted as high school students, prospective students will need to submit a final transcript showing their graduation date and numerical rank in class.

Transfer students with less than 24 hours of transferable college credit earned after high school graduation and who are currently enrolled at another institution must provide a final transcript upon completion of all courses in progress and a final high school transcript.

4. ACT or SAT scores.

Test scores may be submitted to the Office of Admission from either the ACT or SAT testing organizations or with official high school transcripts. These examinations are offered on a regular basis throughout the country and in several locations overseas, and should be taken as early as possible during or after the junior year in high school. Information, test dates, and additional score report request forms are available from high school counselors. Grand Canyon University's ACT code is 0092; our SAT code is 4331.

In addition, to complete your admission file after you have been accepted for admission, you must provide:

5. A Health History form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization.

If born on or after January 1, 1957, prospective students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. Measles information must include two measles (MMR) records — one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Office of Admission. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

6. Enrollment Deposit.

A $100 enrollment deposit is required of all new students upon written notice of their acceptance and is credited toward the first semester's tuition. This deposit is non-refundable after July 1 for the Fall semester, November 1 for the Spring semester, and May 1 for Summer sessions. Upon receipt of the enrollment deposit, students will be eligible for pre-registration opportunities and their enrollment status will be reported to the relevant University departments to facilitate planning for housing, orientation, and class scheduling.

Early Admission Plan

In order to be considered for Early Admission, the following must be provided:

1. A completed and signed Application for Admission.

Prospective students must complete and sign the Application for Admission. It is important that they provide all the information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

3. Official transcript(s) and/or GED scores.

Prospective students will need to request official transcripts from their high school and from any colleges or universities they have attended; applicants are not permitted to disregard their records of enrollment at other institutions. These records must be mailed directly from the issuing school to the Office of Admission.

Transcripts mailed or hand-carried by applicants are unacceptable unless they are delivered in a sealed envelope from the issuing institution.

If prospective students did not graduate from high school but have passed the Test of General Educational Development (GED), they will need to submit their GED scores and an official transcript of all high school work they have completed. GED applicants must be at least 18 years of age and show evidence of maturity and readiness for college level work.

If prospective students have completed work at an institution outside of the United States, they must have the work evaluated by an approved evaluation service selected by the University (see the section entitled "Evaluation of Transfer Credit").

Although applicants may be preliminarily accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. If accepted as high school students, prospective students will need to submit a final transcript showing their graduation date and numerical rank in class.

Transfer students with less than 24 hours of transferable college credit earned after high school graduation and who are currently enrolled at another institution must provide a final transcript upon completion of all courses in progress and a final high school transcript.

Homeschooled Students

In order to be considered for admission as a freshman, prospective students will need to remit the following:

1. A completed and signed Application for Admission.

Prospective students must complete and sign the Application for Admission. It is important that they provide all the information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

3. Official transcript(s) and/or GED scores.

Prospective students will need to submit transcripts that document all coursework completed and grades earned in such courses. Course listings should be accompanied by course descriptions. Additionally,

homeschool transcripts must be signed and dated by the homeschooler.

Homeschooled students can choose to submit General Educational Development (GED) scores but are not required to do so. Students should also submit official transcripts from any colleges or universities attended.

If prospective students have completed work at an institution outside of the United States, they must have the work evaluated by an approved evaluation service selected by the University (see the section entitled "Evaluation of Transfer Credit").

Although applicants may be preliminarily accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. If accepted, prospective students will need to submit a final transcript showing date of graduation.

4. ACT or SAT scores.

Test scores may be submitted to the Office of Admission from either the ACT or SAT testing organizations or with official high school transcripts. These examinations are offered on a regular basis throughout the country and in several locations overseas, and should be taken as early as possible during or after the junior year in high school. Information, test dates, and additional score report request forms are available from high school counselors. Grand Canyon University's ACT code is 0092; our SAT code is 4331.

In addition, to complete your admission file after you have been accepted for admission, you must provide:

5. A Health History form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization.

If born on or after January 1, 1957, prospective students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. Measles information must include two measles (MMR) records — one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Office of Admission. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

6. Enrollment Deposit.

A $100 enrollment deposit is required of all new students upon written notice of their acceptance and is credited toward the first semester's tuition. This deposit is non-refundable after July 1 for the Fall semester, November 1 for the Spring semester, and May 1 for Summer sessions. Upon receipt of the enrollment deposit, students will be eligible for pre-registration opportunities and their enrollment status will be reported to the relevant University departments to facilitate planning for housing, orientation, and class scheduling.

Transfer Students

In order to be considered for admission as a transfer student (with 24 or more hours of college credit; students with less than 24 hours of college credit should see "Application Procedures for New Freshmen"), prospective students will need to complete the following:

1. A completed and signed Application for Admission.

All prospective students must complete and sign the Application for Admission. It is important that they provide all the information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

3. Official transcript(s).

Prospective students will need to request official transcripts from all colleges or universities they have attended; applicants are not permitted to disregard their records of enrollment at other institutions. These records must be mailed directly from the issuing school to our Office of Admission. Transcripts mailed or hand-carried by applicants are unacceptable unless they are delivered in a sealed envelope from the issuing institution.

If prospective students have completed work at an institution outside of the United States, they must have the work evaluated by an approved evaluation service selected by the University (see the section entitled "Evaluation of Transfer Credit").

Although applicants may be preliminarily accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. Transfer students currently enrolled at another institution must submit a final transcript upon completion of all courses in progress.

In addition, to complete admission files after students have been accepted for admission, students must provide:

4. A Health History form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization.

If born on or after January 1, 1957, students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. Measles information must include two measles (MMRs) records — one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Office of Admission. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

5. Enrollment Deposit.

A $100 enrollment deposit is required of all new students upon written notice of their acceptance and is credited toward the first semester's tuition. This deposit is non-refundable after July 1 for the Fall semester, November 1 for the Spring semester, and May 1 for Summer sessions. Upon receipt of the enrollment deposit, students will be eligible for pre-registration opportunities and their enrollment status will be reported to the relevant University departments to facilitate planning for housing, orientation, and class scheduling.

Direct Transfer Plan

Students who complete a transfer-oriented Associate of Arts degree at a regionally accredited community college are considered to have fulfilled the University's Liberal Arts Foundation requirements, with the exception of the six hours of Christian Studies. The Associate of Arts degree must include at least six hours of college-level composition.

The same is true of the Arizona General Education Curriculum (AGEC) from Arizona's public community colleges when it is certified as a block on the student's official transcript.

Exceptions to the Direct Transfer Plan are as follows:

Education — students planning to seek teacher certification must fulfill the liberal arts requirements listed under the College of Education section of this catalog;

Business — students planning to complete a degree program in the College of Business and Professional Studies must complete the specified liberal arts requirements listed in the College of Business and Professional Studies section of this catalog;

Nursing — the Associate of Arts (Applied Science) in Nursing will be accepted under the Direct Transfer Plan if the student pursues a degree in nursing.

Professional Studies — the Associate of Arts (Applied Science) will be accepted under the Direct Transfer Plan if the student pursues a degree in Public Safety Administration.

Only the Associate of Arts programs specifically designed to prepare students for transfer to a four-year college or university are acceptable for the Direct Transfer Plan. Associate of Arts degrees in Applied Sciences, General Studies, a specialized field, or any other "terminal" program (with the exception of the Associate of Arts degree in nursing and the Associate of Arts degree Applied Science for students pursuing a degree in Public Safety Administration) are not acceptable.

Unclassified Students

Unclassified or non-degree bound students who plan to enroll part-time at Grand Canyon University may accumulate a total of 11 hours credit; at that point, all records required for regular admission to the University must be submitted.

To be considered for admission as an Unclassified Student, the following must be provided:

1. A completed and signed Application for Admission.

All prospective students must complete and sign the Application for Admission. It is important that they provide all the required information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

In addition, to complete the admission file after students have been accepted for admission, they must provide:

3. A Health History form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization.

If born on or after January 1, 1957, students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. Measles information must include two measles (MMRs) records — one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Office of Admission. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

4. Enrollment Deposit.

A $100 enrollment deposit is required of all new students upon written notice of their acceptance and is credited toward the first semester's tuition. This deposit is non-refundable after July 1 for the Fall semester, November 1 for the Spring semester, and May 1 for Summer sessions. Upon receipt of the enrollment deposit, students will be eligible for pre-registration opportunities and their enrollment status will be reported to the relevant University departments to facilitate planning for housing, orientation, and class scheduling.

Readmit

A student who has not maintained continuous attendance (consecutive semesters excluding Summer sessions) at Grand Canyon University can be considered for re-admission by providing the following:

1. A completed and signed Application for Admission.

An application form may be obtained from the Office of Admission. It is important that prospective students provide all the information requested. Incomplete applications may be returned.

2. Official transcript(s).

Official transcript(s) of all work taken at other institutions since leaving the University must be on file in the Office of Admission before readmission can be approved.

A student who has not been enrolled in the University for a period of one year or longer must provide the following:

3. An updated Health History form.

An updated Health History form is required and is available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

Additionally, students who withdrew for medical reasons must obtain a doctor's written approval before re-entering the University.

See the "Graduation Requirements" section of the catalog for information pertaining to choice of catalog.

POST-BACCALAUREATE ADMISSION

Second Degree Students

Students wishing to obtain a second bachelor's degree from Grand Canyon University can be considered for admission by providing the following:

1. A completed and signed Application for Admission.

All prospective students must complete and sign the Application for Admission. It is important that they provide all the information requested. Incomplete applications may be returned.

2. A non-refundable application processing fee.

The processing fee should accompany the application. Any Application for Admission received without an application processing fee will not be considered until the fee is received.

3. Official transcript(s).

Prospective students will need to request official transcripts from all colleges or universities they have attended; applicants are not permitted to disregard their records of enrollment at other institutions. These records must be mailed directly from the issuing school to our Office of Admission. Transcripts mailed or hand-carried by applicants are unacceptable unless they are delivered in a sealed envelope from the issuing institution.

If prospective students have completed academic courses at an institution outside of the United States, they must have the work evaluated by an approved evaluation service selected by the University (see the section entitled "Evaluation of Transfer Credit").

Although applicants may be preliminarily accepted for admission on the basis of incomplete records, final records are required in order to complete the admission file. Second degree students currently enrolled at another institution must submit a final transcript upon completion of all courses in progress.

In addition, to complete your admission file after you have been accepted for admission, you must provide:

4. A Health History form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization.

If born on or after January 1, 1957, students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. Measles information must include two measles (MMRs) records — one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Office of Admission and the University Health Center. Completed forms should be returned to the Office of Admission at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Office of Admission. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

Please refer to the catalog section entitled "Graduation Requirements" for more information regarding second degree requirements.

INTERNATIONAL STUDENT ADMISSION

General Information

An international student is defined as any student attending Grand Canyon University on a student visa issued by the United States government. The Center for International Education houses the international advisor. Requests for information or application forms should be addressed to:

Grand Canyon University
Office of Admission
3300 West Camelback Road
Phoenix, AZ 85017-3030
USA

International students attending the University on student visas are required to be enrolled in at least 12 hours per semester in undergraduate programs or the University's American Language program. International students pursuing master's degrees must be enrolled in at least nine hours per semester. All international students must carry health insurance; a moderately-priced student policy is available through the University's Center for International Education. International students will be required to purchase the University policy when they register for classes, unless they have proof of valid insurance coverage in the United States.

Application for campus housing is a separate procedure from admission. If prospective students plan to live on campus, they should contact:

Director of Residence Life
Grand Canyon University
P.O. Box 11097
Phoenix, AZ 85061-3030
USA

International students may seek admission to the University under the following categories:

1. Pursuit of Degree

This category is for students who desire to pursue a bachelor's or master's degree and meet the minimum qualifications for admission to the University, including a minimum TOEFL score of 500 written or 173 computer version, for undergraduate and 550 written or 213 computer version for graduates.

2. American Language Program

This category is for students desiring to study in the United States who have not attained the required TOEFL score of 500 written or 173 computer version.

After satisfactory completion of the American Language Program (ALP), students may receive a recommendation from the ALP faculty to have their TOEFL score requirement waived for Grand Canyon University admission.

Application procedures and admission requirements for students in each category are outlined below.

International Student Application Procedures

Pursuit of Degree

In order to be considered for admission, international students must submit the following to the Office of Admission:

1. A completed and signed Application for Admission.

It is important that international students provide all the information requested. Incomplete applications may be returned. Application deadlines are:

Fall semester (August) entry - July 1, or
Spring semester (January) entry - November 15

It is to prospective students' advantage to complete the admission process well in advance of the deadline.

2. Official transcript(s)

a. Secondary School - All international students must have completed a secondary school program that is equivalent to the 12th grade (high school) in the United States. An official transcript of students' secondary school work, written in English, must be sent directly from the school to the Office of Admission. In some cases, students may be asked to send their secondary school transcript to an approved evaluation service; they will be notified if this is necessary. Hand-carried copies of transcripts are not acceptable. If students have finished at least 24 semester hours of college-level work at a United States school and have a GPA of at least 2.00 on a 4.00 scale, they do not need to submit their secondary school transcripts.

b. College and or University - Official transcripts of students' college or university work, written in English, must be sent directly from the college or university to the Office of Admission. Hand-carried copies of transcripts are not acceptable.

In order to accurately and consistently evaluate foreign credentials, Grand Canyon University requires all international college or university transcripts to be evaluated by an approved evaluation service selected by the University. Obtaining an evaluation is an additional step to awarding college or university credit from foreign transcripts. The fee for evaluation is the student's responsibility. Brochures describing in detail the approved evaluation services and the fees incurred are available in the Office of Admission.

The evaluation report is advisory in nature and in no way limits Grand Canyon University from making its own decisions. Grand Canyon University will not award any transfer credit from foreign credentials without an evaluation from an approved evaluation service. Grand Canyon University requires that all international college or university transcripts be evaluated within the student's first semester of attendance.

3. TOEFL score report

If a prospective student's native language is not English, his/her official score reports for the Test of English as a Foreign Language (TOEFL) must be sent directly to the Center for International Education from the testing center. A student must present a score of at least 500 written or 173 computer version to be considered for admission as an undergraduate. In order to be considered for admission into the College of Business and Professional Studies, Samaritan College of Nursing, College of Education undergraduate teaching degree, or College of Education graduate teaching degree, a student must present a

TOEFL score of at least 550 written or 213 computer version. To be considered for admission into the Teaching English as a Second Language (TSEL), or College of Business and Professional Studies graduate programs, the student must present a TOEFL score of at least 575 written or 233 computer version. This requirement may be satisfied by a recommendation from the American Language Program faculty at Grand Canyon University, upon successful completion of the American Language Program. This requirement cannot be satisfied through experience in English programs at other schools. For information on TOEFL testing dates and locations in any country, write to:

TOEFL
PO Box 899
Princeton, New Jersey 08540
USA

4. ACT and SAT scores

Grand Canyon University does not require scores from these tests for international students; however, the NCAA requires scores for international students who plan to participate in athletic programs.

5. Personal References

At least two personal references are required before prospective students can be considered for admission. A prospective student should select two people unrelated to him or her who are qualified to evaluate the student's academic potential and character. At least one should be a teacher or official of the student's school. These letters of reference should be mailed directly to the Office of Admission.

After all the above documents are received, applications will be reviewed and prospective students will be notified of their status.

If accepted for admission to Grand Canyon University, students will need to provide the following to the Office of Admission before their Certificate of Eligibility (I-20) can be issued.

6. Financial Guarantee

Most international students at Grand Canyon University receive no financial assistance from the University. Therefore, international applicants must furnish evidence of full financial support while in the United States. Students must provide documented evidence that they have sufficient funds to meet one year of expenses. A Financial Guarantee form or a letter on letterhead completed and signed by an officer of a known bank must be submitted to the Office of Admission.

7. A Health History form, accompanied by verification of two (2) Measles, Mumps, and Rubella (MMR) immunizations.

Students must provide a completed Health History form and documented evidence of immunization against or immunity to measles, mumps, and rubella before they will be allowed to register for classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunization. MMR records must include proof of two immunizations - one at 15 months of age and one after age five. If no proof of immunization is available, then two MMRs not less than 30 days apart will be required. Health History forms are available from both the Center for International Education and the University Health Center. Completed forms should be returned to the Center for International Education at least two weeks before registration.

A student's Health History and immunization records are official admission documents, and must be received before a student is allowed to register. Please submit all Health History forms to the Center for International Education. Permanent Health History forms will be placed on file at the Grand Canyon University Health Center.

8. Confirmation Deposit.

As a final confirmation of intent to attend Grand Canyon University, students are required to make a $5,000 (US dollars) deposit which will be applied to their first semester's expenses. The deposit may be paid by check or money order, or students may telex the funds; the following is the information necessary to wire a deposit:

National Bank of Arizona
GCU - International Account
335 North Wilmot Road
Tucson, Arizona 85711, USA
ABA# 122105320
Branch# 100
Account# 0140009445
Reference Student's Name

If a student is unable to attend Grand Canyon University, his or her deposit may be refunded upon request and upon the return of his or her I-20, if one was issued.

When all of the above items (1-8) have been received, the Center for International Education will issue an I-20 to the student.

AMERICAN LANGUAGE PROGRAM

Grand Canyon University offers an innovative program designated for students desiring to study in the United States who have not attained a TOEFL score of at least 500 written or 173 computerized version. This program, called the American Language Program (ALP), is designed to assist students with learning English, cultural adjustment, and skills that are necessary for success in the university environment. Students who do not plan to complete a full academic program may enroll in the ALP.

At the end of each semester, students will be evaluated in English proficiency and a determination will be made on their readiness to enroll in courses for academic credit. Grand Canyon University may choose to waive the TOEFL requirement for students who receive a recommendation from the ALP faculty after successful completion of the ALP. This recommendation will satisfy Grand Canyon University's TOEFL requirement only and cannot be used as an English skill endorsement for another school. At the discretion of the Center for International Education, some students are allowed to simultaneously enroll in the ALP and academic courses.

To apply, students should complete steps 1-8 under "Pursuit of Degree." They should indicate that they wish to enroll in the ALP.

For more information about the University's ALP, contact:

Center for International Education
Grand Canyon University
3300 West Camelback Road.
Phoenix, AZ 85017-3030, USA
Phone: (602) 589-2808
Fax: (602) 841-8771

NOTE: Acceptance into the ALP does not guarantee acceptance into a degree program.

EVALUATION OF TRANSFER CREDIT

All students accepted to Grand Canyon University with prior college or university course credit will receive an official transfer credit evaluation from the Office of Academic Records showing how the courses completed at each previous school will transfer. Evaluations will include the total number of credits accepted, as well as a course-by-course breakdown indicating how each class may be applied toward University graduation requirements. Courses may be accepted as upper or lower division general electives, upper or lower division major or minor electives, or as directly equivalent University Courses.

If the Office of Academic Records is unable to determine specific applicability for an acceptable course, general elective credit will be granted. It is then the student's responsibility to provide additional documentation if he or she wishes to receive specific credit for the course. If a student disagrees with the way credit has been awarded, he or she may appeal to the faculty of the department or college in which credit is desired. The evaluation may be adjusted upon receipt of written instructions signed by the department chairperson (and dean, if applicable).

The following guidelines are used in determining acceptability of courses:

The University generally accepts courses from regionally accredited colleges and universities provided the work is not of a highly specialized nature and a grade of "C" or better is earned. Transfer Credit Practices

of Designated Educational Institutions, published by the American Association of Collegiate Registrars and Admissions Officers, is used as a general guide in determining acceptability. Courses in which "D" grades are earned may be used in some cases to meet general studies requirements, or as prerequisites for other courses with the approval of the instructor. No course with a grade below "C" will count toward the required number of hours for graduation.

In order to accurately and consistently evaluate foreign credentials, Grand Canyon University requires all international college or university transcripts to be evaluated by an approved evaluation service selected by the University. Obtaining an evaluation is an additional step to awarding college or university credit from foreign transcripts. The fee for evaluation is the student's responsibility. Brochures describing in detail the approved evaluation services and the fees incurred are available in the Center for International Education, the Office of Academic Records, and the Office of Admission.

The evaluation report is advisory in nature and in no way limits Grand Canyon University from making its own decisions. Grand Canyon University will not award any transfer credit from foreign credentials without an evaluation from an approved evaluation service.

The University will recognize a maximum of 64 hours credit from regionally accredited community or junior colleges. Credit will be granted only for courses with grades of "C" or better, and all credit will be considered lower division. See the section entitled "Direct Transfer Plan" for additional information regarding the acceptability of associate degrees earned at community colleges.

Credit earned at colleges and universities which are not regionally accredited will not be accepted.

A Guide to the Evaluation of Educational Experiences in the Armed Services is used as a resource in evaluating credit earned while serving in the armed forces. Four hours of physical education credit will be awarded upon submission of the DD-214. Other credit will be granted only for work in liberal arts areas. No technical credit will be accepted. All work will be considered lower division. Credit will not be awarded if a student has earned 64 or more college credits prior to completion of the military training program.

A maximum of 16 hours technical credit earned at a regionally accredited college or university will be accepted as general elective credit toward graduation.

With the exception of the Professional Studies programs, the University does not recognize credit awarded by other institutions of higher education for "life experiences." In addition, the University will not grant credit for independent studies, orientation programs, cooperative work study, or similar courses taken at other schools.

The University reserves the right to require students to validate certain credits by testing, if necessary.

The University will accept a combined total of no more than 64 hours of community college credit, technical credit, military service credit, and/or credit by examination.

To request an exception to any of the above policies, students must appeal to the Academic Appeals Committee. Petitions are available from the Office of Academic Records.

The University's Professional Studies programs offer policies that vary from those listed above. Please contact the appropriate college for details.

Advanced Placement (AP) and College Level Examination Program (CLEP)

Many students who come to Grand Canyon University have achieved college-level mastery of certain subjects through advanced high school programs or by other means not generally recognized for college credit. For this reason, the University actively participates in the Advanced Placement (AP) and College Level Examination Program (CLEP) of the College Entrance Examination Board. Upon receipt of official score reports for these examinations, up to 30 semester hours of college credit may be awarded as indicated by the following tables.

Certain restrictions apply to these programs. Students are limited to a combined total of 30 semester hours for credit by examination, extension, and correspondence, including not more than 12 hours by correspondence. CLEP and AP credit will only be given when it does not duplicate credit previously earned and is not for a course more elementary than one for which the student has earned college credit. CLEP credit will be given only for examinations completed after July, 1965. The University does not recognize credit earned by testing after a student has completed 64 or more hours of college-level work.

Transfer students who received credit by examination at a previous college must submit an official score report to Grand Canyon University's Office of Admission for evaluation. AP and CLEP credit does not automatically transfer from one school to another.

Additional AP and CLEP examinations are currently being evaluated. If you wish to pursue AP or CLEP credit in an area not listed below, please contact the Office of Academic Records for score requirements and credit evaluations.

Advanced Placement (AP)

Exam	Score	Hours	Equivalency
Art History	5/4	6	ARH 233/234
	3	3	ARH 233 or ARH 234
Art Studio – Drawing	5	6	Humanities Electives
	4	3	Humanities Elective
Art Studio – General	5	6	Humanities Electives
	4	3	Humanities Elective
Biology	5	8	BIO 181/182
	4	4	BIO 181
	3	4	BIO 100
Chemistry	5	8	CHM 113/115
	4	4	CHM 113
	3	4	CHM 101
Computer Science A	5/4	3	CSC 100
Computer Science AB	5/4	6	CSC Electives
	3	3	CSC Elective
Economics – Intro Macro	5/4	3	ECN 201
Economics – Intro Micro	5/4	3	ECN 202
English – Language/Comp	5/4	6	ENG 101/102
English – Literature/Comp	5/4	6	ENG 101/102
Environmental Science	5/4	3	Science Elective
French – Language	5/4 + dept conference	12-16	FRE 101/102/201/202
French – Literature	5/4 + dept conference	12-16	FRE 101/102/201/202
German – Language	5/4 + dept conference	12-16	GER 101/102/201/202
History – Amer. or European	5/4	6	HIS 105/106 or HIS 103/104
	3	3	HIS elective
Mathematics – Calculus AB	5/4	8	MAT 270/271
Mathematics – Calculus BC	5/4	12	MAT 270/271/272
	3 + dept conference	4-8	possible lower division MAT credit
Music	5/4	3	Humanities
Physics B	5	8	PHY 111/112
	4	4	PHY 111
	3	4	PHY 101
Physics C- Electricity/ Magnetism	5/4	4	PHY 112
Physics C - Mechanics	5/4	4	PHY 111
Political Science – AmGovt & Pol.	5/4	3	POS 252
Political Science – CoGovt & Pol	5/4	3	POS 380 LD credit
Psychology	5/4	3	PSY 101
Spanish Language	5/4 + dept conference	12-16	SPA 101/102/201/202
	3 + dept conference		Possible LD SPA credit
Spanish Literature	5/4 + dept conference	12-16	SPA 101/102/201/202
	3 + dept conference		Possible LD SPA credit
Statistics	5/4	3	MAT 213

College Examination Program (CLEP)

General Examination	Score	Hours	Equivalency
English Composition w/Essay			
1978 Scale	610+	6	ENG 101/102
1986 Scale	500+	6	ENG 101/102
CBT Scale	50+	6	ENG 101/102
Humanities	50+	6	Humanities Electives
Mathematics	50+	3	MAT 120
Natural Sciences	50+	8	Elective Credit
Social Sciences and History	50+	6	Elective Credit

Subject Examination	Score	Hours	Equivalency
American Government	50+	3	POS 252
American History –Early Col. To 1877	50+	3	HIS 103
American History – 1865 – Present	50+	3	HIS 104
American Literature	50+	3	ENG Elective
Analysis and Interp. of Literature	50+	3	ENG Elective Credit
Calculus with Elementary Functions	60+	4	MAT 270
College Algebra (1993)			
(Replaces College Algebra {1979}	50+	3	MAT 121
College Algebra and Trigonometry	50+	3	MAT 121
College French	42-51	8	FRE 101/102
College French	52-80	16	FRE 101/102/201/202
College German	42-51	8	GER 101/102
College German	52-80	16	GER 101/102/201/202
College Spanish	42-51	8	SPA 101/102
College Spanish	52-80	16	SPA 101/102/201/202
English Literature	50+	3	ENG Elective
Freshman College Composition with Essay			
(Replaces College Composition and Freshman English)	50+	6	ENG 101/102
General Biology	50+	8	BIO 181/182
General Chemistry	50+	8	CHM 113/115
Human Growth and Development	50+	3	PSY 341 LD credit
Information Systems and Computer Applications	50+	3	CIS 180 A, B, C
Introduction to Educational Psychology	—	0	No Credit
Introductory Accounting	50+	6	ACC 211/212
Introductory Business Law	50+	3	Bus Elective
Introductory Psychology	50+	3	PSY 101
Introductory Sociology	50+	3	SOC 101
Principles of Macroeconomics			
(Replaces Introductory Macroeconomics)	60+	3	ECN 201
Principles of Management	—	0	No Credit
Principles of Marketing	—	0	No Credit
Principles of Microeconomics			
(Replaces Introductory Microeconomics)	60+	3	ECN 202
Trigonometry	50+	3	MAT elective
Western Civilization- Ancient Near East to 1648	50+	3	HIS 105
Western Civilization- 1648 – Present	50+	3	HIS 106

International Baccalaureate (IB)

Many students wish to attend Grand Canyon University after completing the International Baccalaureate program at their high school. Official transcripts will need to be sent to the Office of Admission. Upon receipt of transcripts, credit will be awarded as designated below.

Subject (Higher level exams only)	Score	Hours	Equivalency
Art/Design	4	3	DGN 112
	5,6,7	3	DGN 112 **AND**
		3	ART 111
Biology	4	4	BIO 181/181L
	5,6,7	4	BIO 181/181L **AND**
		4	BIO 182/182L
Chemistry	4	4	CHM 113/113L
	5,6,7	4	CHM 113/113L **AND**
		4	CHM 115/115L
Economics	4	3	ECN 201
	5,6,7	3	ECN 201 **AND**
		3	ECN 202
English A	4	3	ENG 101
	5,6,7	3	ENG 101 **AND**
		3	ENG 102
English B			No Credit
Geography	5,6,7	3	GEO 121
German A **OR**	4	4	GER 101
German B	5,6,7	4	GER 101 **AND**
		4	GER 102
History -	4	3	HIS 103
American	5,6,7	3	HIS 103 **AND**
		3	HIS 104
History -	4	3	HIS 105
European	5,6,7	3	HIS 105 **AND**
		3	HIS 106
Math	4,5,6,7	3	MAT 270
Methods **OR**			
Mathematics			
Advanced	4	3	MAT 270
Math	5,6,7	3	MAT 270 **AND**
		3	MAT 271
Music	4	3	MUS 252
	5,6,7	3	MUS 252 **AND**
		2	MUS 191A **AND**
		2	MUS 191B
Philosophy	4,5,6,7	3	PHI 101
Psychology	5,6,7	3	PSY 101
Russian	4	4	RUS 101
	5,6,7	4	RUS 101 **AND**
		4	RUS 102
Spanish A **OR**	4	4	SPA 101
Spanish B	5,6,7	4	SPA 101 **AND**
		3	SPA 102
Theater Arts	4	3	TRE 120
	5,6,7	3	TRE 120 **AND**
		3	TRE 150

FINANCIAL INFORMATION

Preface

The financial information presented in this catalog was current when published. Many of the policies, interest rates, limitations, etc., are set by organizations (private or governmental) which may change them after this catalog is printed. We regret any confusion this may cause and strongly urge students to confirm all such information with the University's Office of Financial Aid and/or Business Office before making financial decisions or commitments.

Student Expenses

The regular school year is composed of a Fall semester and a Spring semester. Summer is composed of several sessions typically between three and six weeks in length.

The expenses of the student are due and payable at the beginning of each semester or session and must be paid at the University's Business Office. The University allows for payment of expenses on a deferred payment plan through an outside billing agency. Terms and additional information are available in the University's Business Office. Failure to comply with the stated policies of the University's Business Office may result in an administrative withdrawal from classes. If the student is intending to rely on financial aid for payment on their account, then application for financial aid must be made at least two months in advance of need. The University also honors most major credit cards.

Failure to pay your charges does not cancel your registration or your responsibility for tuition and fee charges. Non attendance does not cancel your registration or your responsibility for tuition and fee charges. Students may not receive transcripts until all accounts are satisfied in the University's Business Office, at the discretion of the University.

The University reserves the right to change all fees and chargeswithout notice.

Validine

The University uses a debit card system known as Validine to enable students to purchase meals, textbooks, and other items. The card serves as the student identification card and contains the student's photo to deter unauthorized use. The University's Business Office encodes a dollar amount on each student's card based on what the student requests or is required to have. Residence hall students, for instance, are required to purchase one of two meal plan options which allows the University to fulfill its obligation to provide adequate and balanced nutrition to residents lacking cooking facilities. Other students may request that their Validine card be credited with a certain amount (known as 'Lopes Cash) to enable them to conveniently purchase food and beverages on campus. Validine is also available for use in the AV lab.

Whether required or requested, the amount is charged to the student's account at the University's Business Office and must be paid for under the same guidelines as tuition, fees, or housing (i.e., financial aid, cash, check, credit card, or through an outside billing agency). That amount is then reflected as a credit on the Validine card. When the student purchases a meal or a textbook, etc., the cost of the item is deducted from the balance available on the card.

Validine Policies

Board Plans are required for dorm residents and are optional for apartment and commuter students. There are two meal plans available: 14 and 21 meals per week (2 and 3 meals per day). There are no refunds for unused meals. Board plans are valid only during the semester in which they are purchased.

'Lopes Cash may be purchased in the University's Business Office for use in the snack bar or cafeteria. 'Lopes Cash purchased in $25.00 increments is offered at a 10% discount (e.g., $25.00 worth of 'Lopes Cash will cost $22.50). Any unused amount will remain on the card and can be used or credited to the student's accounts in a future semester.

Bookstore credit may be purchased in the Business Office. Students may be allowed to charge bookstore purchases to their student account (subject to Business Office approval) if they are receiving Financial Aid or are making payments through the outside billing agency. Any unused amount will remain on the card and can be used or credited to the student's account in a future semester.

Room and Board

A student living in the residence halls is charged room and board at the time of registration. The residence halls and dining hall are closed during Thanksgiving and Christmas holidays, Spring Break, and between the close of the Spring semester and the opening of the Fall semester.

Individual meals may be purchased for cash at the cafeteria or snack bar by commuting students, apartment residents, faculty, staff, and guests.

Tuition, Fees, and Housing

Tuition and fee information may be found in the current semester/session Bulletin. Current housing fee information may be obtained from the Director of Housing.

Special Class Fees

Certain University classes require payment of fees or deposits for materials, breakage, and/or rental. Refer to the current semester/session Bulletin for class fees.

Mandatory Student Health Insurance

All undergraduate students taking 12 hours or more are required to carry health and accident insurance. Students will be charged for the University-sponsored student health insurance at registration. The University-sponsored plan provides in-and-out patient coverage up to the limit (see current brochure for limit) of reasonable and customary charges. Insurance brochures are available in the Business Office.

A student with comparable health insurance, including coverage for acute and follow-up health care in the Phoenix area, may apply to waive the student plan. (An insurance policy with "emergency only" care in Phoenix is not considered comparable insurance.). When submitting a waiver, students must attach front and back copies of their insurance cards and return them to the Health Center by the posted term deadline. A new waiver and a copy of insurance card is due each academic year. All waivers are subject to verification and approval.

The University cannot cancel student health insurance or international insurance later than the waiver deadline.

Information concerning coverage for additional family members may be obtained from the Campus Health Services.

Those students taking less than 12 credit hours, Professional Studies students, off-site students, and graduate students are exempt from this University requirement, but may choose to enroll in the student health insurance. The enrollment deadline is the same as the waiver deadline.

International Student Insurance: Students with F-1 status will be enrolled in the University-sponsored international health insurance. See the Center for International Education for coverage information.

REFUND POLICIES

Add/Drop

If the student is dropping and adding courses of equivalent semester hours simultaneously, there will be no tuition penalty. A drop fee will be charged to the student.

Tuition refund for dropping a course is subject to the Refund Schedule listed in the class Bulletin for the semester or session involved and is calculated on the date the completed Drop form is received in the Office of Academic Records. A drop fee will be charged to the student.

Complete Withdrawal

Students who completely withdraw from the University must submit a completed Withdrawal form to the Office of Academic Records. This form is available in the Office of Academic Records. Tuition refund is subject to the Refund Schedule and is calculated on the date the completed Withdrawal form is received in the Office of Academic Records. A complete withdrawal fee will be charged to the student. The University does not automatically withdraw students for non-attendance. Students are responsible for non-refundable charges based on the tuition refund schedule listed in the class Bulletin for the semester or session involved.

Students who reside in campus housing and completely withdraw from the University must properly check out of their residence hall room or apartment with University Housing personnel. Failure to properly check out will result in forfeiture of the refundable portion of the campus housing deposit. Both residence halls and apartment accounts will be prorated from the date the proper check out is filed.

Appeals

In the event that a student must withdraw from the University because of sickness or unavoidable cause, he or she may appeal the refund amount to the University's Business Office. Appeal forms may be obtained from the University's Business Office. The student is required to provide additional documentation to support the appeal (e.g., doctor's verification of illness). Appeals cannot be considered until the completed Withdrawal form is submitted to the Office of Academic Records. Students may also appeal for a dropped course according to the same criteria.

Refunds and Fees

Federal Policy for the Return of Title IV Financial Aid

Any financial aid recipient who withdraws from all classes is subject to a Federal Return of Title IV Aid Calculation. This calculation determines the amount of Federal aid that the student and the school are eligible to retain and the amount that must be returned to the student's lender and/or the Federal government. Title IV financial aid includes: Subsidized and Unsubsidized Stafford loans, Perkins loans, Federal Plus loans, Pell grants, and FSEOG.

The Office of Financial Aid regularly runs reports that identify students who have completely withdrawn from classes. Official withdrawal occurs when the student completes a Withdrawal form and submits it to the Office of Academic Records.

The date of withdrawal for students who officially Withdraw is the date that the student submits their withdrawal form to the Office of Academic Records. In the case of the student that does not officially

withdraw, there are two categories. First, if the school determines that a student did not begin the withdrawal process or otherwise notify the school of the intent to withdraw due to illness, accident, grievous personal loss, or other circumstances beyond the student's control, the withdrawal date is the date the school determines from its consideration of circumstances beyond a student's control. The second category of unofficial withdrawals encompasses all other withdrawals where official notification is not provided to the school. For these withdrawals, commonly known as "drop-outs," the withdrawal date is the midpoint of the payment period or period of enrollment, as applicable.

The Federal calculation for the return of Title IV aid follows these regulations:

- In the case of withdrawal before the first day of classes, 100% of the student's Title IV aid must be returned.
- In the case of withdrawal prior to the 60% point in the semester, the Office of Financial Aid will calculate the percentage of the semester actually completed by the student. That percentage will be applied to the student's Title IV aid and will be considered "earned" aid. The student may retain any earned aid.
  For example: *If the semester is 100 days long and the student attends class for 45 days, they have completed 45% of the semester and, therefore, have "earned" 45% of any Title IV aid that was awarded them.* In this instance, 55% of the student's aid would be returned to the Federal Government or to the student's lender.
- If the withdrawal occurs at or after the 60% point in the semester, 100% of the student's Title IV aid is considered "earned." The University will retain 100% of its institutional costs for the semester and the student may retain any remainder.

Fees for Withdrawals and Dropped Courses

Complete withdrawal fee.....$25.00
Drop fee.....$15.00

Fall and/or Spring Semester Tuition Refund Schedule

During first week of classes.....100% of tuition and fees
During second week of classes.....80% of total tuition
During third week of classes .....60% of total tuition
During fourth week of classes.....40% of total tuition
During fifth week of classes .....20% of total tuition
After five weeks.....No refund

Students in their first year at Grand Canyon University may be subject to a different refund schedule and should contact the Office of Financial Aid for information.

Summer Tuition Refund Schedule

See the current Summer Session Class Bulletin for refund schedule.

Room and Board Refunds

Room and Board refunds are not given for improper residence hall check-outs. If a student follows correct check-out procedure, the room and board will be refunded according to weeks lived in the residence hall.

Fee Refunds

Fees are not refundable after the first week of classes.

Refund Check Request Policy

Student refund checks are processed according to federal regulations and University policies. For further details, please contact the University's Business Office.

FINANCIAL AID

The primary purpose of student financial aid is to provide resources to students who otherwise would be unable to pursue a postsecondary education. The primary responsibility for meeting University costs lies with the student and his or her family. The University attempts to assist only when the family is unable to meet the full cost of attendance.

Additionally, the University makes an effort to provide scholarships and awards to students based on outstanding performance. For clarification purposes, the terms "scholarships" and "grants-in-aid" will be used when achievement and/or merit are the primary consideration in determining eligibility.

Eligibility

To receive financial assistance, undergraduate and graduate students must be admitted to the University, be enrolled in a degree program of study, be in good academic standing, and be making satisfactory academic progress. Students who are admitted to a degree program on a provisional/conditional basis may be eligible for financial assistance according to the University's admission policy.

According to Federal Regulations, financial aid recipients must not: 1) owe a refund on grants previously received under the Federal Pell Grant, the Federal Supplemental Educational Opportunity Grant, or the Leveraging Educational Assistance Partnership Program; 2) be in default or be delinquent on any federal student loans borrowed from Federal, State, or University programs.

Application Process

The University uses the Free Application for Federal Student Aid (FAFSA). Students may choose to either complete the FAFSA on the Internet at www.fafsa.ed.gov, or complete a paper FAFSA that may be obtained from the Office of Financial Aid or most high schools. The University does not require any of the supplemental forms processed by the College Scholarship Service (CSS) or American College Testing (ACT), for which there is a fee charged.

Students will need to allow four to six weeks for processing on any of the listed application processes. Mid-year transfer students should also submit a Financial Aid Transcript (FAT) from each college or university attended regardless of whether or not financial aid was received.

Preference/Deadline Dates

Rather than operating under strict deadlines, the Office of Financial Aid makes an effort to provide funds to students as long as funds are available. However, there are important dates to keep in mind. Applications for financial aid should be submitted as soon as possible after January 1 prior to the term of enrollment. All loan applications must be processed for the current semester by the Monday following mid-term examination week.

Applications for financial aid will be processed on a "first come, first served" basis. **Students whose financial aid file is delayed run an increased risk of receiving a reduced award.**

Additionally, only students who have applied for admission to Grand Canyon University and have been accepted will be issued a financial aid award.

All financial aid (excluding Pell grants and Stafford loans) has limited funding. Students, new and returning, are strongly encouraged to turn in initial renewal applications as soon as possible after January 1.

Financial Need Assessment

After the Office of Financial Aid has received all appropriate documentation to complete a student's financial aid file, the student's financial need and the types of awards that he/she may qualify for will be determined according to the information received.

Financial need equals the student's Cost of Attendance (COA) less the sum of the Parent Contribution (PC) and the Student Contribution (SC).

$$COA-(PC + SC) = \text{Financial Need}$$

The student's COA includes, but is not limited to: tuition, fees, room, board, transportation, books, supplies and personal/miscellaneous expenses. The amount of the Student Contribution and Parent Contribution, if applicable, is determined according to the information provided on the FAFSA. Please visit your Financial Aid Counselor if you have unusual circumstances that may affect the determination of your Financial Need. The primary goal for the Office of Financial Aid is to assist students in paying for their educational investments by evaluating the student's family ability to pay for educational costs, by distributing limited resources in an equitable manner and by providing a

balance of gift aid and self-help aid. Financial Aid staff is available to discuss the student's and/or parent's contribution and any other questions that may arise regarding a student's financial aid package.

Please be aware that any changes that are made to any of the answers originally provided on a FAFSA may change financial aid award amounts. Likewise, if your financial aid record is selected for verification, any changes made during the verification process may also change financial aid award amounts.

Award Procedures

There are two categories of Financial Aid: 1) Gift-Aid and 2) Self-Help Aid. Gift-Aid includes grants and scholarships (awards that do not have to be paid back by the recipient). Self-Help Aid includes employment and loans (awards that do have to be repaid or earned by the recipient).

The Federal Pell Grant is the first award considered when packaging financial aid awards and is followed by the Federal Supplemental Education Opportunity Grant (SEOG). These Federal Grants are awarded according to the calculated financial need of the student. Once the student's record has been evaluated for Federal Grant eligibility, loans are added to the award package for the student according to financial need and other requirements.

Students are also notified of their eligibility to participate in the Federal Work Study (FWS) Program on the award letter addressed to the financial aid applicant. With the award letter, the student receives the Student Worker Guide that outlines the application procedure for jobs available on and off-campus. As long as funds are still available, the FWS award amount is entered as part of the student's financial aid package after the student has been selected for a FWS position.

Overall, all available funds are awarded on a "first come, first serve" basis and are distributed to students until funds are no longer available. We highly recommend that all new and current students apply for Financial Aid with the FAFSA application as soon as possible after January 1st of each year.

Financial Aid and Enrollment

Undergraduate students must be enrolled in at least 12 credit hours to be considered full-time students and receive full financial aid benefits. Graduate students must be enrolled in at least nine credit hours to be considered full-time students and receive full financial aid benefits. Undergraduate students enrolled part-time may be eligible for a prorated portion of their financial aid. Some undergraduate programs require at least six hours and all graduate programs require at least five hours to receive federal aid. Students who receive any Institutional Scholarship (i.e. academic, departmental, endowed, and/or merit) must maintain full-time enrollment status. Refer to the specific requirements for your scholarship that are available in the Office of Financial Aid and are mailed to you. Courses taken at other colleges do not count as enrollment at Grand Canyon University for financial aid/scholarship purposes.

Inform the Office of Financial Aid

Students who are receiving financial assistance through the Office of Financial Aid and who receive additional outside assistance must report this fact to the Office of Financial Aid at once. Any changes that are made to your enrollment status (withdrawals, grade option, etc.) must be reported to the Office of Financial Aid in addition to the Office of Academic Records and the Business Office.

Satisfactory Academic Progress

Satisfactory Academic Progress is evaluated at the end of each spring semester for all students who attended Grand Canyon University during that academic year. Every academic year begins with the summer semester, continues through the fall semester, and ends with the spring semester. All students are required to maintain Satisfactory Academic Progress toward the completion of their degree to maintain their eligibility for all Institutional, State, and Federal Financial Aid Awards. In addition, all Athletic award recipients must maintain their eligibility according to the NCAA regulations and this Satisfactory Academic Progress Policy. Satisfactory Academic Progress includes two equal components that are referred to as Qualitative and Quantitative measurements.

Qualitative: Undergraduate students must maintain a minimum cumulative GPA of at least a 2.00 for all Grand Canyon University coursework. Graduate students must maintain a minimum cumulative GPA of a 3.00 for all Grand Canyon University coursework.

Quantitative: Students receiving financial aid must demonstrate progress toward degree completion. Federal Regulations require students to complete their program of study within a measured maximum time frame that cannot exceed 150% of the published length of the program. To determine the Quantitative Satisfactory Academic Progress component, the number of required credits to earn a degree is multiplied by 150%. (For example, if 128 credit hours were needed to earn a degree, and then multiply 128 by 150% and that would equal 192 credit hours.) The sum of the number of earned credits multiplied by 150% will be the maximum number of attempted credit hours for which a student can receive Financial Aid. Failed grades ('F') will be counted as attempted credits but will not be counted as earned credits.

At the end of each year, students must complete and earn at least 67% of the credit hours attempted during each academic year. Incomplete courses and withdrawals do not count as earned credits, but are counted as attempted credits. Credits earned for repeated coursework, in addition to the original credits, will be counted as earned and attempted credits.

Transfer and readmitted students must follow the above referenced Satisfactory Academic Progress Policy. Accepted prior credits and Transfer credits will be calculated as part of the measured maximum time frame component.

Students who fail to maintain the minimum requirements of either the Qualitative and/or Quantitative component of the Satisfactory Academic Progress policy will be placed on probation status but will still be eligible to receive financial aid during their probationary period. However, if those students fail to meet any one or all of the minimum Satisfactory Academic Progress components at the end of their probationary status, they will be placed on financial aid suspension and will not be eligible to receive any financial aid during their suspension period. Students on suspension status who had extenuating circumstances that prevented them from maintaining Satisfactory Academic Progress eligibility may submit an appeal to the Office of Financial Aid and the appeal will be reviewed by the Financial Aid Committee. Appeal forms are available from the Office of Financial Aid. The Financial Aid Committee will review all appeals on a regular basis.

All students suspended from financial aid who rectify the deficiencies outlined in their notice of suspension must inform the Office of Financial Aid so that all relevant information may be reviewed to determine the student's eligibility status.

Student Responsibilities:

Each Student should:

1. accurately complete and return all applications, additional documentation, verification forms, corrections and/or new information that is requested by the Office of Financial Aid or any other agency providing financial assistance. Errors or omissions may delay the disbursement of eligible funds.
2. read and understand all documentation and/or agreements that he/she signs and submit to any department and/or agency.
3. review the award letter and all other notices sent to him/her regarding the responsibilities and conditions that must be adhered to by students receiving financial aid.
4. understand what portion of his/her financial aid package is gift-aid (it does not have to be repaid or earned) and what portion is self-help aid (it must be repaid or earned). If any portion of the self-help aid is in the form of a student loan, make sure to know: the total amount of the loan, the interest rate assessed to the amount borrowed, the repayment schedule, the time-frame of the repayment schedule, and the start date for the repayment schedule.
5. notify the lender(s) of any changes to his/her name, address, and enrollment status if the student is a loan borrower.
6. review and understand the amounts pertaining to the cost of attendance and the Refund Policy for Grand Canyon University as stated in the Financial information section of the University Catalog.

7. review and comply with all rules and regulations pertaining to academic, financial aid, and University conduct policies.

8. know that any intentional misrepresentation of information on applications and/or documentations submitted for Federal Financial Aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.

9. be aware of the appeal process and procedures.

SCHOLARSHIPS

The purpose of the academic scholarship program is to enable undergraduate students to complete their bachelor degrees. GCU scholarships are not awarded for Summer courses. The scholarship program is not intended for second degrees or double majors if it would require additional hours. Most baccalaureate programs at Grand Canyon University require 128 hours to complete. If a student declares a major which requires more than 128 credit hours to complete, then the academic scholarship may apply for the necessary additional hours required to earn the degree. However, scholarships would not be applicable if a student chooses to change majors necessitating additional courses above the 128 hours required for a degree.

Endowed and academic scholars must enroll in at least 12 credit hours each semester at Grand Canyon University in which the scholarship is used unless the student is graduating at the end of the semester and needs less than 12 credits to graduate. In this case the scholarship may be prorated for the number of hours required to complete the degree for the last semester of the study only.

Students may not receive more than 50% of their tuition costs in scholarships generated by institutional funds, with the exception of Grants-in-Aid and Scholars 100 scholarships. Scholarships are not awarded for summer enrollment.

If students use the scholarship award to pay the tuition for a course and then withdraw, the award will be adjusted accordingly; students are advised to check with the Business Office for information regarding the effect of the scholarship adjustment to their student account balance. Recipients of any Grand Canyon University scholarship that requires full-time enrollment will lose that scholarship if they drop below full-time enrollment. The scholarship will be revoked for the semester the students drop below full-time status and for all future semesters. Students can appeal any scholarship denials to the Financial Aid Committee by completing a Financial Aid Appeal form.

If students lose an academic scholarship because their GPA falls below the requirement or their enrollment drops below full-time status, the scholarship may not be regained. If the scholarship was lost due to GPA only, students may qualify for other scholarships. For example, if students lose their eligibility for Top 5% due to GPA, they may be able to qualify for the Top 10%. A Financial Aid Committee Appeal form will need to be completed each year.

Academic Scholarships
Continuing Students
Grand Canyon University Honors

Students who have completed a minimum of two consecutive full-time semesters at Grand Canyon University with a 3.50 cumulative Grand Canyon University GPA are eligible to apply for a Grand Canyon University Honors Scholarship. The amount of this scholarship is 20% of the tuition cost for 24 credit hours.

This scholarship is renewable for the remaining number of credit hours required to complete a 128 credit hour bachelor's degree provided:

1. A cumulative 3.25 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid file is completed before all funds are committed.

Freshmen Students
Scholars 100

High school graduates who are Valedictorian or Salutatorians of their class, or who graduate with a 4.00 GPA on a 4.00 scale, or who are National Merit Finalists, may apply for one of the 100% tuition scholarships the University makes available to incoming freshmen the Fall semester after their high school graduation. GPAs are determined by an official seventh-semester transcript. Applications for the Scholars 100 Scholarship are available from the Office of Admission and must be completed and returned to the Office of Admission by February 15.

A student who has earned any college credits may not qualify for this academic scholarship unless the hours were taken while the student was concurrently enrolled in high school. These allowable credit hours would reduce the hours of the scholarship award proportionately.

Students who are chosen to receive this scholarship are encouraged to participate in the University's Honors Program. See page 31 for a complete description of this unique interdisciplinary curriculum. This scholarship is renewable for up to 128 credit hours to complete a bachelor's degree provided:

1. A cumulative 3.75 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid file is completed before all funds are committed.

Top Five Academic

High school students who graduate in the top 5% of their high school class and do not qualify for other institutional academic scholarships may qualify for 50% of tuition for 24 credit hours per year. Students may also qualify with an ACT composite score of 30 or higher or SAT composite score of 1300 or higher.

A student who has earned any college credits may not qualify for this academic scholarship unless the hours were taken while the student was concurrently enrolled in high school and had the equivalent of a 3.50 GPA in college courses completed. These allowable credit hours would reduce the hours of the scholarship award proportionately. This scholarship is renewable for up to 128 credit hours to complete a bachelor's degree provided:

1. A cumulative 3.50 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid file is completed before all funds are committed.

Top Ten Academic

High school students who graduate in the top 10% of their high school class and do not qualify for any other institutional academic scholarship may qualify for 25% of tuition for 24 credit hours per year scholarship. Students may also qualify with an ACT composite score of 28 or higher or an SAT composite score of 1240 or higher.

A student who has earned any college credits may not qualify for the academic scholarship unless the hours were taken while the student was concurrently enrolled in high school and had the equivalent of a 3.25 GPA in college courses completed. These allowable credit hours would reduce the hours of the scholarship award. This scholarship is renewable for up to 128 credit hours to complete a bachelor's degree provided:

1. A cumulative 3.25 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid file is completed before all funds are committed.

Transfer Students
Transfer Honors Scholarships

First-time Grand Canyon University students who transfer in at least 24 credit hours of coursework to Grand Canyon University with a cumulative 3.50 GPA are eligible to apply for a Transfer Honors Scholarship. The amount of this scholarship is 20% of the tuition for 24 credit hours per year. Students must meet all eligibility requirements their first semester at Grand Canyon University to receive the award.

This scholarship is renewable for the remaining number of credit hours required to complete a 128 credit hour bachelor's degree provided:

1. A cumulative 3.25 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid File is completed before all funds are committed.
4. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship
   (Professional Studies and Graduate courses are <u>not</u> considered to be traditional).

Church Matching Scholarships

The University will match dollar-for-dollar, up to a maximum amount of $2,500 each academic year, for each dollar awarded to a GCU student by the student's Christian-affiliated church. The Church Matching Scholarship is awarded during the fall and spring semesters only. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship (Professional Studies and Graduate courses are not considered to be traditional).

Pastor/Missionary Dependent Scholarships

Dependent children and spouses of currently serving Christian pastors and missionaries may receive this award provided:

1. A cumulative 2.00 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid File (including denominational workers documentation) is completed before all funds are committed.
4. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship.
   (Professional Studies and Graduate courses are not considered to be traditional).

Convention Scholarships

Southern Baptist students from states that do not have a Southern Baptist College may receive this scholarship provided:

1. A cumulative 2.00 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. The Financial Aid File (including church denomination) is completed before all funds are committed.
4. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship.
   (Professional Studies and Graduate courses are not considered to be traditional).

Eagle Boy Scout Scholarship

Students may receive a scholarship if they have achieved the Eagle Scout Award provided:

1. A cumulative 3.00 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship.
   (Professional Studies and Graduate courses are not considered to be traditional).

Girl Scout Gold Award Scholarship

Students may receive a scholarship if they have received the Gold Award provided:

1. A cumulative 3.00 Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.
3. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship.
   (Professional Studies and Graduate courses are not considered to be traditional).

Acteen Scholarships

Eligible recipients must submit written documentation regarding their MissionQuest achievements from their Acteen Advisor/Mentor to the Office of Financial Aid.

1. The student must remain continuously enrolled full-time at Grand Canyon University.
2. A cumulative 2.00 Grand Canyon University GPA must be maintained.
3. Only those students who will be taking Traditional Undergraduate courses that are assessed a full tuition charge will be eligible to receive this scholarship.
   (Professional Studies and Graduate courses are not considered to be traditional).

Work Grants

Students may qualify for work grants in publications, intramural sports, and as residence hall assistants. Information can be obtained from the Office of Student Life on specific requirements and stipends available.

Departmental/Institutional Scholarships

Special ability scholarships are available in the areas of Business, Nursing, Gerontology, Art, Drama, Speech, Music, etc. Application must be made through the college dean/department chairperson or faculty member in charge of scholarships in the student's area of interest. Recipients of such scholarships will be expected to maintain at least a cumulative 2.00 Grand Canyon University GPA and be enrolled full-time. Additional requirements may be placed on the student by the college/department awarding the scholarship.

Students are required to submit a completed Application for Admission and register for classes before funds will be released into the student's account.

Endowed Scholarships

Students enrolled full-time at Grand Canyon University may apply for endowed scholarships. These scholarship funds are the result of donations made to the University by alumni and friends of the institution. The interest on the accounts is calculated on a yearly basis and awarded to students based on criteria set by the donor. **Students who complete the FAFSA and Application for Admission have automatically applied for the scholarships which include demonstrated need as one of the criteria for award.** Unless otherwise stipulated, the basic academic requirement for any of these scholarships is a cumulative 2.00 Grand Canyon University GPA. Students may apply for these scholarships by completing their Financial Aid file before all funds are committed. Scholarship recipients will be expected to write a thank you letter to the donor before the funds will be released. These scholarship awards may not exceed the 50% cap on scholarships a student may receive through institutional funding. (The University has other endowed scholarships that have not attained the $10,000 level presently required by Board policy for inclusion in the catalog.)

Alumni Scholarship Endowment
Charles E. Arant, Jr. Business Memorial Scholarship
Arvizu Hispanic Scholarship
Asian Scholarship
Whit and May Baker Scholarship
N.E. and Lora Barker Scholarship Fund
Fred R. and Dorthy G. Barnes Scholarship
Ernest I. and Eurice Bass Scholarship Fund
Dr. George C. Beakley, Jr. Scholarship
Beck Memorial Scholarship
Woodrow and Letress Berryhill Scholarship
David and Mildred Brazell Scholarship
Henry and Dollie Brice Memorial Scholarship
James Carroll Scholarship
Clara Burghout Memorial Scholarship
Wayne P. Cerow Scholarship Fund
Mary Cheatham Christian Studies Scholarship
Mary Cheatham Education Scholarship
Mary Cheatham/Susan Thomas Nursing Scholarship
Chimiarra Award
Cook/Bishop Memorial Presidential Grant
Craig-McElwaine Education Scholarship
G.D. Crow Memorial Scholarship
Hilton Jones Crow Scholarship
Davis Scholarship
Keith and Mary Sue Davis Scholarship

Jewel Peters Patterson and Pearline Thomas-Dees Scholarship
Walter and Pearl Thomas-Dees Education Scholarship
Harold Dye Family Scholarship
Glenn Eason Educational Scholarship
David H. Eaton Scholarship
William K. Foster Memorial Scholarship
Evans-Griffin Scholarship
Martha Frances Memorial Scholarship
Frank and Elsie Frazier Indian Scholarship
Wesley and Lola Freeburg Scholarship Fund
Pam Gardner Memorial Scholarship
Margaret Goatcher Scholarship
Jim and Claire Goins Living Memorial
Grand Canyon University Guild Scholarship
Louis Willard and Katheryn Opal Hardcastle Scholarship
Ernest E. and Linnie Ann Hatcher Memorial Scholarship
S.F. and Jewel Hawkins Memorial Scholarship
William R. Hintze Alumni Scholarship Endowment
William R. Hintze Memorial Presidential Grant
Howerton-Maben Scholarship
J.W. Kieckhefer Endowed Scholarship
Richard A. Jackson Scholarship
Rob Jones MBA Scholarship
Tom S. Kent Family Scholarship Fund
Max Link Music Scholarship
Sarah Smithey Link Business Scholarship
D.C. Martin Scholarship Endowment Fund
Mildred Mitchell Martin Scholarship
Dan Maxon Scholarship
Paul and Esther McCarty Memorial Scholarship
Mary McDowell Ministerial Scholarship
Fannie Mae Meredith Music Scholarship
Ken and Diane Miller Scholarship Endowment Fund
Erdie L. Morris Scholarship
Carl Paetz Memorial Scholarship
Crystle Paetz Nursing Scholarship
Joyce Daily Parker Scholarship
Lowell B. Parker Ministerial Scholarship Fund
Mark A. Pevey Scholarship
John B. Will and Fred and Norma Pfeiffer Scholarship
Dr. and Mrs. Robert Pickering Scholarship
Edward W. Pollock Family Scholarship
Sarah Hunt Potter Endowment
Martha Rummel Rahe Memorial Scholarship
Willis J. and Ida M. Ray Memorial Scholarship
Mack D. and Bonnie Jean Reagan Business Scholarship
Riddle Endowed Scholarship Fund
Reverend William D. and Cora Rummel Ministerial Scholarship
Marci Salmon Education Scholarship
Tim Salmon Business Scholarship
Eugene "Chick" Scott – Arizona Flycasters Club Environmental Biology Scholarship
Select Information Services, Inc. Scholarship Endowment Fund
Dave Siebenman Scholarship
Don Sheriff International Scholarship
Ed and Betty Shugart Endowment Fund
C.J. and Thelma B. Smith Ministerial Scholarship
Jerry D. Smithey Business Scholarship
Dinah Stafford Education Scholarship
A.L. Stoker Memorial Scholarship
Margaret N. Stokes, RN, Endowed Scholarship
Roy F. and Helena H. Sutton Scholarship Fund
Winston A. Wahlstrom Scholarship
Weeks Scholarship
Grace Weller Piano Scholarship
I.B. and Opal Williams Hispanic Scholarship
Cecil Wood Trust
Helen Youngs Memorial Scholarship

Aid From Private Businesses, Foundations, and Organizations

The scholarships listed below may require separate applications. Please see the Office of Financial Aid for application information and deadlines.

Datatel Scholarship
Dougherty Foundation Loan/Grant
Farmers Insurance Group of Companies Scholarship
Hegel Future Teachers Scholarship Fund
Howard Relfe Memorial Scholarship
International Phoenix Women's Scholarship
Dorothea Van Deusan Opdyke Scholarship
Eurice M. Bass Foundation
Phelps Dodge Scholarship
Solid Rock
USA Funds
Viad
Otto and Edna Neeley Scholarship

ROTC Scholarships

Air Force and Army ROTC scholarships are available to Grand Canyon University students. Scholarships vary in amount with a maximum award providing full tuition as well as an allowance for fees and curriculum-required textbooks. For information contact the Air Force and Army ROTC representative at Arizona State University or the ROTC office on campus: Army ROTC at Grand Canyon University (602) 589-2486, USAF at Arizona State University (480) 965-3181, or Army ROTC at Arizona State University (480) 965-3318.

Tribal Scholarships

These scholarships require the student to turn in a Needs Analysis form to the Office of Financial Aid to be processed and sent to the Native American agency of the respective student. The agency also requires the student to submit an application for Federal Aid to the Office of Financial Aid. Each agency has deadlines, and Needs Analysis forms must be sent each semester. It is the student's responsibility to make sure that the forms are submitted to the Office of Financial Aid in a timely manner for the process to be completed by the deadline.

Indian Health Service (IHS)

This Native American Scholarship is for applicants in the health care field. An invoice must be sent to the IHS agent each semester with documentation of educational costs.

Off Campus Scholarships (Which require no Grand Canyon University Assistance)

The Office of Financial Aid has information on outside scholarships available to students through associations, corporations, hospitals, etc. These scholarships require applications to be sent to the appropriate address by the specified deadline.

Grants-In-Aid

The University offers athletic and performance grants-in-aid that are not subject to the 50% cap for scholarships. Students should contact the Athletic Director, the Dean of the College of Liberal Arts, or their designees for additional information.

GRANTS

Grants are categorized as Gift-Aid and do not have to be repaid by the recipient. The Federal Pell Grant, the Federal Supplemental Educational Opportunity Grant (SEOG) and the Leveraging Educational Assistance Partnership Program (LEAP) are awarded to students based on financial need.

Federal Pell Grants

Pell Grants are made available to undergraduate students who do not have a bachelor's degree already. The student's eligibility is determined by a schedule developed by the Department of Education, Washington, DC. Students who are eligible for a Pell Grant must make satisfactory progress to receive this award. Students may apply for the Federal Pell

Grant by completing a FAFSA. Refer to an earlier Financial Aid section titled the "Application Process." Applications must be submitted annually.

Grand Canyon University is in compliance with the standards of the US Department of Education regarding a drug free workplace.

Any student who receives a Pell Grant will be asked to certify that he or she will not engage in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance during the period covered by the Pell Grant.

Federal Supplemental Educational Opportunity Grant (SEOG)

The SEOG provides gift aid to undergraduate students who do not have a bachelor's degree. Grants may range from $100 to $1,250 and may not exceed $4,000 per year. Students may apply for the Federal Supplemental Educational Opportunity Grant (SEOG) by completing a FAFSA. Refer to an earlier Financial Aid section titled the "Application Process."

Leveraging Educational Assistance Partnership (LEAP)

These are grant funds for Arizona residents available from federal, state, and institutional sources to assist deserving students who have financial need. Grants may range upward from $100 to $2,500 per year. Students may apply for the Leveraging Educational Assistance Partnership (LEAP) by completing a FAFSA. Refer to an earlier Financial Aid section titled the "Application Process."

STUDENT LOANS

Loans are often part of a financial award package. They provide Grand Canyon University students with an opportunity to defer part of their educational costs by borrowing now and paying later. Although there is much discussion on the viability of debt burden, the Office of Financial Aid is of the opinion that the loan debt is contracted so the student can invest in him or herself.

Please note that the Free Application for Federal Student Aid (FAFSA) must be submitted each academic year and is required to establish the student's eligibility for federal student loans. Likewise, eligibility for certain loans and loan amounts may change according to the information reported on all required documentation

Loan Programs
Federal Carl D. Perkins/National Direct Student Loan Program (NDSL)

The Federal Perkins Loan provides long term loans for United States citizens and permanent residents. The amounts awarded vary, depending on financial need and the availbility of limited funds. No interest is charged, nor is repayment required while the borrower is enrolled at least one-half time. Nine months after the borrower ceases to be enrolled at least half-time, payments begin at an interest rate of 5%. Loan repayment must be completed within a ten-year period at a minimum repayment rate of $40 per month. Under certain circumstances, a portion of the loan may be canceled for designated public service. To be considered for this loan, a student must file the application for Federal Student Aid. The application procedure is described in the "Financial Aid Application Process" section.

Federal Family Education Loans (FFEL)

These loans are secured from an off-campus lending agency such as a bank, credit union, savings and loan association, or insurance agency. To be considered for this loan, a student must file an Application for Federal Student Aid.

Both subsidized and unsubsidized loans have the same terms and conditions, *except unsubsidized loan borrowers are responsible for interest that accrues during all in-school, grace, and deferment periods.*

A student must be enrolled at least half-time in order to be eligible for a Stafford loan.

Annual and Aggregate Loan Limits

	DEPENDENT STATUS Maximum Federal (Sub & Unsub)	INDEPENDENT STATUS Maximum Federal (Sub)	ACADEMIC YEAR Maximum Federal (Sub & Unsub)
Annual Limits			
Year 1	$2,625	$2,625	$6,625
Year 2	$3,500	$3,500	$7,500
Year 3, 4, & 5	$5,500	$5,500	$10,500
Graduate/Professional	n/a	$8,500	$18,500
Aggregate Limits			
Dependent Undergraduate	$23,000	n/a	n/a
Independent Undergraduate	n/a	$23,000	$46,000
Graduate/Professional	n/a	$65,600	$138,500

The interest rate for all borrowers is determined each year and is announced during the month of July.

1. See the Office of Financial Aid for the most current interest rate that applies to Federal Student Loans.
2. Borrowers must meet the general eligibility requirements and be enrolled at least half time each semester.
3. Repayment on the principle loan balance and the interest begins six (6) months after the borrower drops below half-time enrollment status or graduates.
4. Monthly loan payments will not be less than fifty dollars ($50) and must be repaid within the time-period specified by the terms of your repayment contract.

Applications for Federal Student Loans are available from the Office of Financial Aid for Grand Canyon University.

PLUS Loans

PLUS Loans are for parent borrowers. This loan provides additional funds for educational expenses and, like the Stafford, is made by a lender such as a bank, credit union, or savings and loan association. The PLUS enables parents to borrow up to the full cost of attendance less any other financial aid for each eligible dependent. This rate may vary from year to year. Call your lender to obtain the current interest rate. PLUS borrowers must begin repayment within 60 days after the loan is disbursed. Before the PLUS Loan can be awarded, a determination must be made to see if the student is eligible for the Stafford. To be considered for the PLUS loan, a student must file an application for Federal Student Aid.

Disbursement of Student Loans

The United States Department of Education requires that there be multiple disbursements of loans. This applies to all loans guaranteed on or after January 1, 1990 for loan periods beginning on or after that date. If the loan period is for one semester, the loan must be disbursed in equal amounts; the first half to be disbursed at the beginning of the semester and the second half to be disbursed after the mid-point of the semester. The loan disbursement dates are dependent upon the receipt date of the loan application and the Federal Regulations. According to Federal Regulations, first-time, first year undergraduate borrowers may not receive their first loan disbursement for the academic year until after 30 days have passed from the first day of classes. Contact the Office of Financial Aid for more information regarding disbursement of Federal Student Loans.

Students Receiving Over-awards

Federal Regulations require all schools to return the amount of federal assistance disbursed to a student that is greater than the amount earned by the student according to the number of days the recipient is enrolled as a student. (Refer to the Refund Policies listed earlier in this catalog for more details.)

Therefore, the University will withhold and promptly return to the lender the Federal Loan disbursement not yet delivered to the student that exceeds the eligible amount of assistance, including all financial aid awards. The school may only return to the lender the calculated ineligible portion.

Student Employment

Student employment at Grand Canyon University seeks opportunities to provide academic or career oriented jobs, develop life skills, and meet college expenses.

Employment opportunities include Federal Work Study (FWS), Non-Federal Work Study (NFWS), Community Service, and Off Campus Jobs. Positions are posted daily on the northeast outside wall of the Office of Student Life.

Information regarding work-study positions may be obtained at the front desk of the Office of Student Life.

Employment Guides are also available from the Office of Student Life to assist students with employment procedures.

Federal Work Study Programs (FWS)

This program provides part-time employment for United States citizens and permanent residents who have demonstrated financial need on the Free Application for Federal Student Aid. The maximum amount a recipient can earn under this program is determined through an evaluation of the FAFSA. General wage policies are established by the University within the guidelines established by the United States Department of Education. Work Study students are paid on an hourly basis and are not eligible for fringe benefits such as holiday, vacation, or sick pay. They are also not eligible for unemployment. The application procedure is described in the "Financial Aid Award Procedures" section. These on-campus positions are limited according to the amount of available funds.

Part-Time Jobs Off-Campus

After viewing the job board, students must register at the Office of Student Life to obtain information regarding available positions.

Approvals

Grand Canyon University is approved for training eligible students in the following government programs: The Department of Education Title IV programs, Veterans Education, Indian Health Service, Vocational Rehabilitation, Tribal Agencies, and the Bureau of Indian Affairs.

STUDENT LIFE

Statement of Principle

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

Hail to thee, Grand Canyon College,
Alma Mater true.
Set amidst the desert's glory,
Highest praise to you.
So to God our hopes aspiring,
This our pledge divine:
Striving, seeking, finding, serving
God and all mankind.

Student Life Mission Statement

As an integral part of the educational mission of Grand Canyon University, the Office of Student Life seeks to create living and learning opportunities that guide all students toward:

1. Christlikeness
2. Academic success
3. A lifestyle of personal excellence

Calendar/Handbook

The Student Handbook/University Calendar is published annually by the Office of Student Life. It provides information, rules, policies, procedures, and a monthly calendar of campus events. It is the student's responsibility to become familiar with, and adhere to, the rules, policies, and procedures contained within the Student Handbook.

Health Services

Mandatory Student Health Insurance

To help insure students will not be left with large medical bills that force them to disrupt their educational goals, all undergraduate students enrolled in 12 or more credit hours are automatically charged for student health insurance at registration. Students enrolled in less than 12 credit hours, graduate students, Professional Studies students and off-site students may voluntarily enroll in the plan.

Students who are currently enrolled in insurance programs that provide acute and continuing care in the Phoenix area may apply for an insurance waiver. Waivers must be completed and returned along with front and back copies of the insurance card to the Health Center by each semester's deadline date. Waivers must be turned in the first semester a student is full-time and every Fall semester thereafter. Students will be notified if their application for a waiver has been accepted or denied. No waivers will be accepted after the deadline.

Features of the current Student Insurance plan include:

- Affordable health insurance.
- Easy access to care.
- Inpatient and outpatient coverage at usual and customary charges up to the policy maximum.
- No pre-existing condition clauses if there is not a 30-day lapse between insurance companies.
- Excess Provision.

For complete details, brochures are available at registration at the Business Office and Health Center

Residence Life/Housing

Any student officially admitted to Grand Canyon University is eligible to apply to live on campus. GCU offers both residence hall and apartment housing. All unmarried freshman, sophomores, and transfer students, who are under the age of 21, are required to live in the residence halls on campus. Room and board charges for students who reside in the residence halls include a meal plan of 21, 14, or 10 meals per week. Students 21 years of age, married, or with children are encouraged to live on campus in the North Rim Apartment Complex. Apartment residents are not required to purchase a meal plan but may do so if they choose.

The residence halls are supervised by a staff of professional Residence Directors and paraprofessional Resident Assistants. If we received your completed application and your $200 deposit by April 15 we will mail your roommate and suite assignment on May 1. All new students who send in a completed application by April 15, will be placed in the new residence hall suites. Roommate assignment for residence hall students will be based on preferences indicated by you on your application. The second page of the Residence Life Application is very important. If you want to share a suite with specific people, you need to request to live with them and they must also request to live with you. Residence halls are closed during Christmas and Spring Break. Summer housing is provided on a limited basis for those students working on campus or attending summer school. Students must maintain full-time status to be eligible to remain in campus housing. Part time students over the age of 21 can petition to live on campus in the North Rim Apartments.

Apartments are available furnished or unfurnished. Priority is given to married students and students with families. Seniors and juniors are encouraged to live on campus. Roommate selection for the apartments is made by the student, not the University. All utilities, including local telephone service and basic cable, are included in the monthly rent.

A completed application and $200 deposit is required for placement in campus housing. Additional information about living on campus and an application can be obtained by contacting the Residence Life Office, PO Box 11097, Phoenix, AZ 85061-3030, or by calling 602-589-2860 or 1-800-800-9776. The Residence Life Website is http://www.grand-canyon.edu/stu_life/reslf.htm.

Student Conduct

Grand Canyon University attempts to create an atmosphere conducive to the purposes of a liberal arts education in the Christian tradition. All students who enroll in the University are expected to accept the responsibilities of campus citizenship and to show consideration and respect for the personal freedom and property rights of members of the civic community and the academic community. Students are expected to give primary attention to their college work

and to all classes, exercises, and engagements which require their attendance. While some students may not have personal convictions in accord with the University's standards, rules, policies, and procedures, a person's enrollment at Grand Canyon University acknowledges that he or she accepts the responsibility for honorable adherence to the same, both on and off campus, while a student at the University. When a student does not meet the University's general standards of behavior, or comply with its rules, the University may take disciplinary action. Such action may take the form of a reprimand, restriction of certain privileges, suspension, or final dismissal. As a private institution, Grand Canyon University reserves the right to determine who will enter and who will remain on campus. Students should become familiar with, and adhere to, the standards, rules, policies, and procedures contained within the Student Handbook.

Campus and Community Ministries/Chapel

A complete Grand Canyon University education includes experiences that seek to develop the spirit, as well as the mind and body. Chapel attendance is an integral part of this process and is a requirement for graduation.

All students must schedule their classes with a chapel session in their schedule plan. The chapel requirement should be taken into consideration when planning your work and family schedule. Any graduating senior who is deficient in attendance requirements will have his or her diploma withheld.

Each student taking nine hours or more is required to attend a minimum of ten chapels per semester. Students enrolled in less than nine hours, evening students, those already possessing degree, and those whose off-campus internships or teaching practicums conflict with the chapel schedule will be placed on exempt status. Questions regarding chapel should be directed to the Office of Spiritual Life.

Intercollegiate Athletics

The Intercollegiate Athletics Department of Grand Canyon University seeks to provide intercollegiate athletic participation for students at the University. Recognizing that intercollegiate competition can be a vital component in the total educational experience of a student, the department attempts to operate with the best interests of the physical, educational, and spiritual welfare of those students at heart.

The University offers competition in ten intercollegiate sports, sponsoring four sports each for men and six for women. Women's teams compete in soccer, volleyball, basketball, tennis, golf and softball. Men's teams compete in soccer, basketball, baseball, and golf.

All teams compete as members of the National Collegiate Athletic Association (NCAA) at the Division II level. All programs are also members of the California Collegiate Athletic Association, competing for conference championships with 11 other institutions.

Grants-in-aid are available in all sports. Special academic regulations apply to those interested in competing in intercollegiate athletics. Please contact the Athletic Compliance Office for specific regulations.

Student-athletes, like all students at the University, are expected to abide by the standards, rules, policies, and procedures listed in this catalog and the Student Handbook. Because of their participation on an athletic team, student-athletes may be subject to testing for banned substances as designated by the NCAA. A copy of the athletic department drug testing policy may be obtained by contacting the Intercollegiate Athletic Office.

Food Service

The University dining hall provides meals during the academic year. It is closed during Thanksgiving, Winter Break, Spring Break, and Summer Break.

Students living in the residence halls are required to purchase a University meal plan. Others may buy meals on an individual basis or may purchase a meal plan.

Light lunches, grilled options, and refreshments are available in the snack bar located in the Student Center.

Disability Services

Grand Canyon University values all of its students. In order to provide reasonable accommodations for specific needs of students with disabilities, we invite self-declaration of disabilities upon acceptance of admissions. Records are confidential and the information is shared only with those who need to know for accommodation purposes.

It is the student's responsibility to request the exception/modification in writing prior to the date services are expected. To allow the University sufficient time to make appropriate plans, requests should be submitted no later than August 1 for Fall classes, December 1 for Spring classes, and two weeks prior to a Summer session when accommodation is needed. The University will respond in writing.

Requests should be directed to the Coordinator of Services for Students with Disabilities, Health and Wellness Center, Grand Canyon University. The University reserves the right to ask for any documented verification of need. The University cannot provide accommodations that are not requested.

After consulting with the Coordinator of Services for Students with Disabilities, a student who is dissatisfied with the accommodations provided by the University may make a request for further investigation with the Vice President for Academic Affairs for matters pertaining to the classroom/academic requirements and/or to the Vice President for Student Life in the area of the physical environment. If the concern is still unresolved, the final appeal should be in written format and addressed to the University Disabilities Coordinator.

Most University activities, services, and programs are accessible to any student with a physical disability. We expect that any student with a physical disability has followed the procedure for disability services outlined in the Student Handbook. In the event that the student did not do so—because the physical accessibility might be reasonably anticipated without a prior request pursuant to that procedure—the student should direct a written request to the Coordinator of Services for Students with Disabilities, Health and Wellness Center, as soon as possible. Grand Canyon University will make every good faith attempt to reasonably accommodate students within its Christian learning environment, but reserves the right to request timely documentation and cooperation.

STUDENT ACTIVITIES

Intramurals

Intramural competition at Grand Canyon University seeks to meet the needs of every student, regardless of skill or ability, and is open to all current students except varsity athletes in their corresponding sports. Intramural sports and activities currently include volleyball, softball, tennis, laser tag, soccer, basketball, and flag football.

Drama and Speech Activities

Opportunities for dramatic and speech participation are available in plays, operas, and intercollegiate forensics and debate. These opportunities are available for all students, not just those majoring in these areas.

Music Programs

Students from the entire University combine with music majors and minors in performing in choirs, wind ensembles, jazz bands, chamber ensembles and orchestras, guitar ensembles, operas, and Broadway musicals each year.

University Singers is a non-auditioned ensemble open to interested students of the University with the instructor's approval. Membership in all other ensembles will be determined by audition. For more information, please contact the College of Liberal Arts.

Special Events

There are various events throughout the school year that have become traditions at Grand Canyon University. In the Fall there are many events planned around the New Student Orientation, as well as Spiritual Emphasis Week, Club Rush Week, Harvest Festival, and the Hanging of the Green. During the Spring semester, Grand Canyon University has events such as the Staley Lecture Series, Homecoming, Spring Formal, Honors Day, Athletic Awards Banquet, and Oozeball (mud volleyball).

Clubs and Organizations

Over 20 student organizations meet regularly. Some are service and donor organizations, some extend the exploration of specific majors or issues, and some provide social interaction.

Campus Leadership Council (CLC)

The Campus Leadership Council leads the student body in planning and promoting student life activities, programs, and services. Interviews are held each Spring to determine council leadership. The Student Body President is elected by the student body. Applications are available in the Office of Student Life.

Publications

Every year, publications are produced by students. These include the campus newspaper (*Canyon Echoes*) and literary journal (*Shadows*).

GENERAL ACADEMIC REGULATIONS

GENERAL ACADEMIC REGULATIONS SPECIFIC TO UNDERGRADUATE STUDENTS

Preface

This section of the catalog describes many policies related to a student's academic life at Grand Canyon University. The policies are intended to assure the student a high quality education and to reflect that quality to accrediting agencies, state licensing/certifying agencies, individuals and groups who provide scholarships or otherwise support the University, and to potential employers and graduate schools. The University recognizes that there are individual circumstances and situations which may necessitate exceptions to these policies. When the purpose of the policy or regulation is not being defeated, the University will make every reasonable effort to accommodate those exceptional circumstances and provide a process for the student to appeal or request that an exception be granted. Often the appeals process is explained with the policy, but in any case where it is not described, the student should ask the Office of the Chief Academic Officer how to proceed. The University has no right to change policies or procedures of another organization for which it is merely acting as an agent.

The student should especially note that incomplete registration, failure to meet payment arrangements, or failure to follow other policies stated in the catalog may result in administrative withdrawal from classes.

Students enrolled in, or considering enrollment in, the University's professional studies programs should be aware that some specific policies are different for those programs. Among the affected policies are those concerning the academic semester hour, course load, reading and conference, correspondence and extension credit, and evaluation of transfer credit. Please see program advisors for clarification and details.

Academic Advisement

Every student at Grand Canyon University is assigned to an advisor, usually a faculty member in the major field of study, for the purpose of assisting the student with proper academic planning. **However, it is the student's responsibility to become familiar with and adhere to the policies and degree requirements stated within the catalog.** Students are encouraged to seek academic counseling regularly throughout their academic career.

An academic checksheet, available upon request in the Office of Academic Records, is a record showing the student's coursework completed to date. Students should refer to the "Graduation Requirements" section of this catalog for specific details regarding graduation.

Academic Semester Hour

Grand Canyon University operates on the semester plan, offering two regular semesters of approximately 15 weeks each. Credit is expressed in terms of semester hours. One semester hour normally requires the equivalent of one 50-minute class period per week throughout a semester. Adaptations of this principle are sometimes employed, especially in music, physical education activity, and laboratory courses. Summer session is operated on an accelerated schedule which is in accord with the semester hour principle. Some professional studies programs also operate on an accelerated schedule.

Class Attendance

1. Students are expected to be regular and punctual in class attendance. The University believes that students themselves are primarily responsible for attendance. Instructors will provide students with written statements of their policies with respect to absences. If students violate the instructor's attendance requirements, the instructor may recommend to the Chief Academic Officer that the student be administratively dropped from the course. If the student is administratively dropped, it will result in a grade of "W." **No refunds are made for administrative withdrawals.** Students may appeal administrative drops to the Office of the Vice President for Academic Affairs.

2. The student must notify the Office of Student Life directly when an absence from class of one week or more is unavoidable. The Office of Student Life will notify instructors upon request. Instructors will permit students to make up tests and other work when the absence was entirely unavoidable (at the instructor's discretion) or authorized by the Chief Academic Officer.

3. To secure permission to make up work missed by an absence, students must account to their instructors in the manner prescribed by their instructors immediately after their return to class.

4. Regular and punctual attendance may be considered in assigning grades.

5. Class attendance records are effective as of the first day of class meetings in each semester. Students who register late are counted absent for each class meeting already missed.

Classification of Courses

Courses are numbered from 100 to 699. The course numbering system is as follows:

100-299 are lower division courses designed for freshman and sophomore students.

Usually a freshman will not be permitted to take a course which bears a number higher than 299 and a sophomore not higher than 399. Certain classes are closed to freshmen who have not had designated prerequisites (consult course description for pre-requisite requirement).

300-499 are upper division courses designed for juniors and seniors.

500-699 are graduate level courses.

Classification of Students

Freshmen are those students who have not yet completed 30 semester hours.

Sophomores are those students who have completed from 30 to 59 semester hours.

Juniors are those students who have completed from 60 to 89 semester hours.

Seniors are those students who have completed a minimum of 90 semester hours.

Students are not permitted to graduate at the end of a semester or term which they began with a GPA of less than 2.00. (See page 28 for "General Graduation Requirements.")

Fifth Year Students are those students who have completed a bachelor's degree from a regionally accredited institution and are accepted for a program of specified upper division courses to secure standard teacher certification.

Graduate Students are those students who have completed a bachelor's degree from a regionally accredited institution and have been admitted into the graduate program of study offered by one of the colleges of the University.

Second Degree Students are those students who have completed a bachelor's degree from a regionally accredited institution and are completing the requirements for a second bachelor's degree (see page 30).

Unclassified Students are those students who are not working toward a degree and/or are not included in the above classifications.

Concurrent Enrollment

Undergraduate students may enroll at other institutions while enrolled at Grand Canyon University, provided that University policies are not violated, and:

1. The student completes the necessary paperwork in the Office of Academic Records prior to enrollment to ensure progress toward a degree.

2. Total enrollment at all institutions in a given semester does not exceed 18 hours without prior permission from the Academic Appeals Committee.

3. Requests from undergraduate students to the Academic Appeals Committee have the endorsement of the student's advisor.

4. Requests from students in master's degree programs are submitted to the dean of the appropriate college.

Transfer credit may not be accepted if the above guidelines are not followed. Undergraduate students enrolled in less than 12 hours at Grand Canyon University are not under these regulations. Concurrent Enrollment forms and Academic Appeals Committee petitions are available in the Office of Academic Records.

It is **strongly** recommended that students do not enroll concurrently at a community (junior) college after their sophomore year. Community college courses are designed to be introductory in nature and should be taken during the student's first two years. Postponing them until later usually disrupts the sequence of courses in a major and results in poor grades in the advanced classes. Postponing University Liberal Arts Foundation requirements also leads to poor performance in upper division courses which assume the general background gained from the University Liberal Arts Foundation requirements.

COURSES

Auditing of Courses

Under certain conditions a student may wish to audit a course rather than take it for credit in a degree program. The student will receive a grade of "S" (Satisfactory) or "U" (Unsatisfactory) instead of a letter grade.

The student wishing to audit a course will typically do so at the time of registration before the beginning of the course. Students may sometimes be allowed to change their registration from credit to audit during the first half of the course but this should be rare and due to unusual or extenuating circumstances. Certain professional programs (e.g., Nursing or Education) offered by the University may restrict the ability of students to audit courses. These programs also reserve the right to treat a mid-course change to audit status within the professional program as if the student had failed the course and require the student to be re-admitted to the program.

Students considering a change to audit status should confer with their academic advisor or the dean of the college which offers their major before finalizing the change with the Office of Academic Records. Students desiring to change their registration status from credit to audit must request this change by filling out the appropriate form (including signatures) in the Office of Academic Records. The instructor should also be notified of the change by the student so that he or she can make the appropriate change in his or her grading standards.

It is the responsibility of the student auditing a course to ascertain from the instructor the expectations regarding the behavior of an auditing student in the course. Students not meeting the instructor's expectations for an "S" grade will be given a "U" grade.

Students may take a course for credit which they have previously taken as an audit course. A student may not change from audit to credit after the last day for registration for credit as listed in the academic calendar of the current University catalog.

Professional studies courses are generally not available for audit.

Change of Courses

After students have completed registration and before classes begin, no changes in course schedules are permitted without the signatures of the students' advisors and the Office of Financial Aid. After the semester begins, no changes in course schedules are permitted without the signatures of the professor concerned, the Registrar or the Chief Academic Officer, and the Office of Financial Aid. Tuition may be refunded when changes in class schedules are made upon the recommendation of the Chief Academic Officer. **Tuition Refunds are determined by the date the student files a completed withdrawal form with the Office of Academic Records.** (See the schedule of refunds on page 15.)

A student is not permitted to enroll for credit in a course after the last date to enroll for credit as shown in the Academic Calendar on page iv.

Course Load

An undergraduate student who is enrolled for a minimum of 12 semester hours of credit is defined to be full-time during the Fall or Spring semester. A total of six semester hours of credit during the Summer sessions is considered full-time.

A graduate student who is enrolled for a minimum of nine semester hours of credit is defined to be full-time during the Fall or Spring semester.

International students must carry a minimum of 12 semester hours each semester in order to maintain student status required for the F-1 visa. All international students are required to register for UNV 101, University Success, their first semester.

Students may not register for more than 18 hours except upon recommendation of their advisor and permission from the Chief Academic Officer.

Only one course (three credit hours) may be taken during the Summer I session. The maximum course load normally allowed during other Summer sessions is six semester hours. If one course is a four-hour course, or if one hour of Physical Education or Applied Music is taken, the student may be permitted to take seven hours.

Carrying a normal course load in college is considered to be a full-time job. For this reason it is suggested that students who work while attending school should not take more than 15 credit hours per semester.

Dropping Courses

A student is not permitted to withdraw from (drop) a course after the last day for dropping (see Academic Calendar) without receiving a grade of "F", except for very extenuating reasons. Evaluation by the Academic Appeals Commitee is required before permission for late withdrawal can be granted.

A student who discontinues a course at any time without withdrawing officially from it will be given a grade of "F" in the course. Tuition refunds are determined by the date the student files a completed drop form with the Office of Academic Records. Students are responsible for non-refundable charges based on the tuition refund schedule listed in the class Bulletin for the semester or session involved.

Instructions and forms for dropping courses may be obtained in the Office of Academic Records.

Order of Taking Courses

A student is expected to take required courses at the earliest opportunity. The University Liberal Arts Foundation requirements, in particular, are designed to provide a broad liberal arts background for the rest of the student's university experience and should be completed in the freshman and sophomore year. Exceptions to this should be rare and limited to students who transfer from other schools after their sophomore year. A student classified as a senior is not permitted to take, as an elective, a freshman-level course without permission from the faculty advisor and the Dean of the appropriate College.

Repeating Courses

A grade of "D" or "F" earned at Grand Canyon University may be removed from an undergraduate student's GPA only by repeating the course at Grand Canyon University. The last grade earned is considered the grade of record as it pertains to credit toward graduation and the student's cumulative GPA. Both grades are reflected on the transcript. The student should note that graduate schools or other institutions may calculate grades in an alternate fashion.

A grade of "C," "D," or "F" earned at Grand Canyon University may be removed from a graduate student's GPA under the same conditions and with the same results as stated above.

This policy does not apply to special topics and independent study courses that have different content from semester to semester.

Once a student has been awarded a degree by the University, he or she may not repeat a course which is a part of that degree for the purpose of changing the grade on the official transcript.

Special Study Courses

Certain course numbers have been reserved for special study courses which departments of the University wish to approve. These fall into three categories:

Independent Study

Department/College number 499 (undergraduate) or Department/College number 599/699 (graduate) is assigned to these classes. Research, seminars, or readings on a special topic to be selected by the student and the faculty advisor are appropriate. This type of course may be taken for one, two, three, or four hours, depending upon the amount of time and work involved and may be repeated for up to four hours total credit per subject area unless specified otherwise in requirements for a major. Independent Study is reserved for junior and senior students with a cumulative GPA of at least 3.00, with approval of the dean, department chairperson, and instructor.

Practicum

Numbered 399 in each department/college (except the College of Nursing and the College of Education) for one, two, three, or four hours of credit, the practicum is a supervised practical experience in the student's major area of interest. A minimum of 45 hours (maximum 60) of practical experience will be scheduled for each semester hour of credit. The experience must be arranged with an agency, organization, or individual that agrees to provide an advisor to work with the faculty advisor in designing and evaluating the student's experience. This course is for junior and senior students with at least a cumulative 2.00 GPA and may be taken any semester with approval of the faculty advisor, the dean, and department chairperson. Additional internship numbers are offered in the Master of Arts and Master of Education programs.

Reading and Conference

Any course listed in the catalog may be taken by reading and conference with the instructor, with approval of the dean/department chairperson and the Chief Academic Officer. The student must have a legitimate reason for seeking course credit through reading and conference. Students may not be permitted to receive credit for more than two courses by this method. A minimum cumulative GPA of 2.00 is required.

Procedures for Special Study Courses

Students should:

1. Obtain the proper special study form from the Office of Academic Records (the Office of Academic Records keeps the records which indicate whether a student is eligible for a special study).
2. Complete the required special study form in conference with the appropriate instructor or academic advisor.
3. Obtain proper signatures.
4. File completed form with the Office of Academic Records no later than one week after the last day to register for credit for that semester (see Academic Calendar). A student is not officially registered for a special study course until the completed form has been filed with the Office of Academic Records. It is recommended that this procedure be completed prior to registration.

Withdrawing from Courses

To withdraw officially from all courses, a student must secure a Complete Withdrawal form from the Office of Academic Records, obtain all signatures indicated on the form, and participate in an exit interview. A student who officially withdraws from all courses at any time during a semester receives a grade of "W." An unofficial withdrawal results automatically in a grade of "F." The University does not automatically withdraw students for non-attendance. A student withdrawing from some but not all courses must do so before the date specified in the Academic Calendar (see "Dropping Courses," page 24).

Tuition refunds are determined by the date the student files a completed withdrawal form with the Office of Academic Records. Students are responsible for non-refundable charges based on the tuition refund schedule listed in the class Bulletin for the semester or session involved.

Correspondence and Extension Credit

A maximum of 30 hours of credit by examination, extension, and correspondence work, including not more than 12 hours by correspondence, may be allowed for undergraduate graduation.

Credit for college-level seminary extension courses may be transferred to Grand Canyon University under certain conditions. Students planning eventual transfer of these courses should secure approval from the Dean of the J. Niles Puckett College of Christian Studies before they enroll in seminary extension courses.

Credit for any correspondence work and for any extension work transferred from another institution must be recorded with the Office of Academic Records prior to enrollment in the final semester before graduation. Such work done at any time by a student while enrolled in Grand Canyon University must meet all of the criteria for concurrent enrollment.

Eligibility for Activities

Any student may participate in extracurricular activities provided by the University except as restricted by regulations established for campus organizations and intercollegiate activities.

Grade Requirements

For graduation, undergraduate students must present **a minimum of 128 semester hours of credit and a cumulative GPA of 2.00 for all courses attempted at Grand Canyon University. At least 45 hours must be upper division credit.**

Graduate students must maintain a minimum cumulative GPA of **3.00** for graduation.

The regulation concerning grades on college work taken elsewhere is given on page 11.

Students must also have a "C" average (2.00 GPA) in their majors. Any course completed with a grade below "C" may not count toward their major.

Candidates for a secondary teaching certificate must have a minimum GPA of 2.50 in their teaching majors.

In calculating a student's GPA in the major, work transferred for the major is evaluated on the same basis as work taken at Grand Canyon University.

Grading System*

The grading system used at Grand Canyon University is as follows:

A	= 4.0 pts	Superior; extraordinary scholarship; outstanding performance
A-	= 3.7 pts	
B+	= 3.3 pts	
B	= 3.0 pts	Far above average; unusually good work
B-	= 2.7 pts	
C+	= 2.3 pts	
C	= 2.0 pts	Average; standard performance; acceptable college work
D	= 1.0 pts	Passing; but below standard
F	= 0.0 pts	Failure or unauthorized withdrawal
I	= 0.0 pts	Incomplete
W	= 0.0 pts	Authorized withdrawal; no credit
Cr	= 0.0 pts	Credit given, but no grade or quality points
S	= 0.0 pts	Satisfactory completion of audit or non-credit course
U	= 0.0 pts	Additional work needed to meet requirements in non-credit or non-grade course
NR	= 0.0 pts	Not reported by instructor
IP	= 0.0 pts	Course currently in progress

*Effective Fall/99

Administrative Withdrawal

University professors are to provide students with a written attendance policy. If a student fails to comply with a stated attendance policy, the professor may administratively withdraw the student from the course. Students are responsible for all tuition and fees.

Appeal of Grade

A student who feels that a grade has been unfairly awarded may appeal the grade through the procedure described in the Student Handbook.

Audit Grade

Courses taken for no credit (audit) earn a grade of "S" or "U." Audit courses **do not** earn credit toward graduation, nor do they fulfill requirements for course prerequisites.

Averaging of Grades

For the purpose of computing GPAs, grade points are assigned as follows: "A," four points for each semester hour; "A-," three and seven tenths points; "B+," three and three tenths points, "B," three points, "B-," two and seven tenths points, "C+," two and three tenths points, "C," two points; "D," one point; "F," zero points. Other grades are not included in GPA computation. To calculate the GPA, semester hours for each course are multiplied by the grade points for that grade. The sum of these products is divided by the number of hours which carry "A," "A-," "B+," "B," "B-," "C+," "C," "D," and "F" grades. The GPA that appears on a Grand Canyon University transcript is based only upon work taken in residence at Grand Canyon University.

Change of Grade

Final grades normally may be changed only by the instructor of the course. The instructor must submit an official grade change form, a copy of which will be mailed to the student. (If the instructor is no longer at the University, the student should consult with the dean of the college in which the course was offered.)

Credit Grade

Certain courses earn credit toward fulfilling requirements but do not count in GPA computations. These courses are given a grade of "Cr" (credit). This grade is not offered as an option to students; rather, the courses earn only grades of "Cr," "S," or "U." A grade of "U" earns no credit.

Incomplete Grade

An incomplete grade will be given at the end of the semester or session only when seriously extenuating circumstances prevent a student from completing course requirements before the close of the grading period. The instructor must file a written explanation for assigning an incomplete grade and a statement of what the student must do to complete the course requirements. When a grade of "I" is given, the student must complete all necessary work **within the following semester.** Incompletes earned in the Fall semester are to be completed by the date set by the instructor and no later than April 15. Incompletes earned in the Spring semester and Summer sessions are to be completed by the date set by the instructor and no later than December 1. (Exceptions may be granted at the request of the instructor when the student is required to attend all class sessions and take the final examination with the current semester's class.) Failure to complete the required work within the specified time will result in the grade being changed to an "F." **Neither the "I" nor the "F" can be changed to a "W" at a later date.**

Withdrawal Grade

The grade of "W" will be given only when a student has officially withdrawn from the course prior to the penalty date as stated in the current semester bulletin. To withdraw officially from a course, a student must obtain necessary forms from the Office of Academic Records, secure all required signatures, and pay any withdrawal (drop) fees in the Business Office. Withdrawals (drops) are considered official as of the date the student files a completed withdrawal form with the Office of Academic Records. Failure to follow these procedures will result in a grade of "F."

STANDARDS OF ACADEMICS

Academic Honors
Freshman Honor Roll

At the close of each semester, GPAs for freshman students carrying 12 or more semester hours with a minimum of eight semester hours of graded courses are calculated to determine eligibility for this honor. Those freshman students whose semester GPA is 3.00 or above qualify for the Freshman Honor Roll.

Sophomore Honor Roll

At the close of each semester, GPAs for sophomore students carrying 12 or more semester hours with a minimum of eight semester hours of graded courses are calculated to determine eligibility for this honor. Those sophomore students whose semester GPA is 3.25 or above qualify for the Sophomore Honor Roll.

Dean's List

At the close of each semester, GPAs for all undergraduate students carrying 12 or more semester hours with a minimum of eight semester hours of graded courses are calculated to determine eligibility for this honor. Students whose semester GPA is 3.50 or above qualify for the Dean's List. (Note: The Dean's List recognition supersedes Freshman and Sophomore Honor Roll recognitions.)

Junior Marshals

Special recognition is given to the two juniors with the highest GPA at the end of the Fall semester of their junior year. This honor is restricted to those who have transferred in no more than 12 semester hours.

Ray-Maben Scholars

This recognition represents the highest scholarship honor awarded by Grand Canyon University. Criteria are established by the faculty and the honor is bestowed each year at graduation. The criteria consists of a cumulative and Grand Canyon University GPA of at least 3.90, with no more than 12 transferrable semester hours.

Graduation With Honors

Undergraduate students who have earned at least 60 hours at Grand Canyon University may qualify for honors at graduation by maintaining one of the following GPAs:

3.40 to 3.59 may qualify for graduation *cum laude;*

3.60 to 3.79 may qualify for graduation *magna cum laude;*

3.80 to 4.00 may qualify for graduation *summa cum laude.*

Second degree and graduate students are not eligible for honors. In order to qualify for a specific honor, students must meet or exceed the GPA requirement for that honor both on work done at Grand Canyon University and on all college work attempted. Transfer students may not graduate with an honor higher than that to which their GPA at Grand Canyon University would qualify them.

Other Honors
Wall Street Journal Award

The Wall Street Journal Award is given annually to an outstanding business student recommended by the College of Business and Professional Studies and approved by the faculty. The award includes an inscribed medallion and a one-year subscription to the Wall Street Journal.

Who's Who Among Students In American Colleges and Universities

The honor recognizes, each year, approximately 15 seniors with outstanding records of campus activities, community service, and academic achievement. Nominees must have a cumulative and Grand Canyon University GPA of at least 3.00 and have attended for at least two semesters as a full-time student. Selections are made by the faculty and student body.

Academic Probation

Undergraduate students whose cumulative GPA on 12 or more hours attempted at Grand Canyon University drops below 2.00 are placed on academic probation.

An undergraduate student on academic or disciplinary probation is not eligible for any grant or scholarship administered by the University nor for an office in any student organization. An undergraduate student on probation is not classified as a senior scheduled for graduation (see page 29).

Probationary status is removed when the undergraduate student earns a cumulative GPA of 2.00 or above on all work attempted at Grand Canyon University.

Once admitted into the graduate field of study, a graduate student whose cumulative GPA drops below 2.80 is placed on academic probation.

Academic Suspension

An undergraduate student who has undertaken 24 hours in residence at the University will normally be suspended at the end of a semester in which his or her cumulative GPA falls below the following minimums:

1.50 for freshmen and sophomores
1.75 for juniors
2.00 for seniors

A student who has been suspended may apply in writing to the Vice President for Academic Affairs for reinstatement. A student subject to academic suspension for the third time is normally given final dismissal.

A student reinstated after an academic suspension is admitted with specification (see "Admission with Specification," page 6). Persons thus admitted retain probationary status until they have earned a cumulative GPA of 2.00 at Grand Canyon University.

Once admitted into the graduate field of study, a graduate student will normally be suspended at the end of a semester in which his or her cumulative GPA falls below 2.50. A graduate student admitted into a master's program should contact the relevant college for the procedure to appeal academic suspension.

(Note that the academic standards for receiving financial aid are stricter [higher] than the general academic standards in that they require a 2.00 GPA regardless of the student's year in school. See the "Financial Aid" section of this catalog.)

Student Records

Annually, Grand Canyon University informs students of the Family Educational Rights and Privacy Act of 1974. This act was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data. Students also have the right to file complaints with The Family Educational Rights and Privacy Act (FERPA) office concerning alleged failures by the institution to comply with this act.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Office of Academic Records.

GRADUATION REQUIREMENTS

Degrees Offered

The University offers curricula leading to the degrees of Master of Arts in Education, Master of Arts in Teaching, Master of Education, Master of Business Administration, Master of Science in Executive Fire Science Leadership, Bachelor of Arts, Bachelor of Business Administration, Bachelor of Liberal Studies, Bachelor of Music, Bachelor of Science, and the Bachelor of Science in Nursing.

The **Master of Arts in Education** degree is granted to practicing elementary and secondary teachers in a specialized field of study:

Elementary Education
Reading Education
Secondary Education
Teaching English as a Second Language

The **Master of Arts in Teaching** degree is in a distance learning 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.

The **Master of Education** degree is granted to those students who have completed a bachelor's degree from a regionally accredited institution and are 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.

Elementary Education
Secondary Education
Special Education

The **Master of Business Administration** is granted to those students who have completed a bachelor's degree from a regionally accredited institution and are seeking an evening MBA program. The program is designed for completion in two years if all prerequisites have been met prior to enrollment.

The **Master of Science in Executive Fire Service Leadership** is granted to those students who have completed a bachelor's degree from a regionally accredited institution and are seeking an on-line program. The program is designed for completion in two years if all requirements and prerequisites have been met.

The **Bachelor of Arts** degree is granted to majors in the following areas:

Applied Music
Art Education
Biblical/Theological Studies
Biochemistry
Christian Education
Christian Leadership
Communications
Creative Arts in Worship
English Literature
English Teaching
Graphic Design
History
International Studies
Philosophy
Political Science
Speech/Theatre
Studio Art
Theatre/Drama

The **Bachelor of Business Administration** degree is granted to majors in the following areas:

Accounting
Business Administration
Marketing

The **Bachelor of Liberal Studies** is granted to those who complete a program designed primarily for adults who are interested in a broad spectrum of studies for personal enrichment or in obtaining a degree acceptable for fields of endeavor which do not require specific traditional degrees.

The **Bachelor of Music** degree is the initial collegiate degree in music designed for students who seek a career as professional performers or teachers.

Church Music
Piano Performance
Vocal Performance

The **Bachelor of Science** degree is granted to majors in the following areas:

Allied Health (not a regular degree, see page 120)
Applied Management
Athletic Training
Biology (Environmental)
Biology (General)
Biology (Human)
Biology (Secondary Teaching)
Chemistry
Chemistry (Secondary Teaching)
Corporate Fitness and Wellness
Elementary Education
Justice Studies
Mathematics
Mathematics (Engineers)
Mathematics (Secondary Teaching)
Music Education
Organizational Sociology
Physical Education
Physical Science
Physics (Secondary Teaching)
Psychology
Public Safety Administration
Recreation
Science for Elementary Teachers
Secondary Education
Sociology
Special Education – LD/ED(EH)
Speech Teaching

The **Bachelor of Science in Nursing** is granted to majors in nursing (and RN to BSN Track).

Minors Offered

Athletic Coaching
Behavioral Sciences
Bilingual Education
Biology
Biophysical Science
Business
Chemistry
Christian Leadership
Christian Studies
Critical Thinking and Expression
English
English as a Second Language
Exercise Science
German
Health Education
History
Humanities
Justice Studies
Mathematics
Music
Philosophy
Photography
Physical Education
Physics
Political Science
Psychology
Recreation
Science Teaching
Social Sciences
Sociology
Spanish
Speech
Studio Art
Theatre
Writing/Journalism

Pre-Professional Programs

Dentistry
Medicine
Optometry
Osteopathic Medicine
Pharmacy
Physical Assistant
Occupational Therapy
Physical Therapy
Podiatry
Sports Health Care
Veterinary Medicine

Choice of Catalog

University, college, and department requirements may change and often are upgraded.

1. A candidate for a degree from Grand Canyon University may elect to meet the requirements for graduation as outlined in the catalog in effect at the time of his/her original matriculation or those of any subsequent catalog, provided the student has remained in continuous enrollment at Grand Canyon University. Continuous enrollment is defined as enrollment in every Fall and Spring semester; enrollment in the Summer session is not relevant for the purposes of catalog choice. Any changes of Catalog year need to be reported and changed on your Intent to Graduate form in the Office of Academic Records to ensure correct degree evaluation.

2. A student who has been readmitted after a period of non-attendance, or after attending an institution other than Grand Canyon University (including an Arizona community college), will graduate under the requirements for graduation as stated in the catalog at the time of readmission. This provision applies whether the period of non-attendance at Grand Canyon University was voluntary or due to academic suspension.

3. Students who complete one degree program and then wish to pursue a second degree do not necessarily do so under the same catalog as their first degree. These students must meet the catalog requirements in effect at the time they begin work toward the second degree, unless they have remained in continuous enrollment for both degrees, and both degrees will be posted at the same time.

4. Students who transfer directly to Grand Canyon University from an Arizona community college will be permitted to follow the degree requirements specified in the Grand Canyon University catalog in effect at the time they were initially enrolled in an Arizona community college, providing their college attendance has been continuous and they remain continuously enrolled at Grand Canyon University after transferring. (Such a student may instead elect to graduate under any subsequent catalog issued while the student is in continuous enrollment.)

Inquiries about these policies may be directed to the Office of Academic Records.

Curricular Requirements for Graduation

The completion of the required 128 semester hours for a baccalaureate degree usually requires four years of 32 semester hours each. The freshman and sophomore years are usually spent in general or introductory courses in diversified liberal arts areas. During the remaining two years, the student may concentrate in the field of major interest. The work for the entire program consists of: University Liberal Arts Foundation, major and minor subjects, and elective courses.

Course Scheduling and Content

The University attempts to schedule courses with sufficient frequency to allow students to meet graduation requirements within a reasonable amount of time. (For instance, some courses may be offered every other year while others may be offered every Fall or every Spring.) This places the responsibility on the student to plan sufficiently to take courses when they are offered. The University reserves the right to cancel any scheduled class due to insufficient enrollment or other reasons. When a course cancellation causes scheduling difficulties, the student should consult with his or her academic advisor or the dean of the college which offers the course to obtain options for remedying the situation. The University retains the right to modify class schedules or offering patterns and allows course instructors the freedom within the University's mission to cover course topics as they wish.

A student may elect to take courses from the curriculum offered in each college in addition to the courses which may be required in his or her major area.

An academic advisor will help each student select a combination of major, minor, and elective studies appropriate for that individual. However, it is the ultimate responsibility of students to plan their course of study appropriately.

General Requirements for Graduation

Undergraduate students who have earned at least 90 credit hours must file an Intent to Graduate form with the Office of Academic Records. Students may file the form earlier if they choose.

Graduate students must file an Intent to Graduate form with the Office of Academic Records at least one semester prior to their anticipated graduation date.

Intent to Graduate forms may be obtained from the Office of Academic Records.

A one-time non-refundable fee must be paid before returning the completed form to the Office of Academic Records. Once the completed Intent to Graduate form has been filed in the Office of Academic Records, an official check of remaining degree requirements will be provided.

Academic Regalia for Commencement

Degree candidates participating in the commencement exercises are required to wear the prescribed academic regalia, which may be obtained through the University Bookstore.

Attendance at Commencement

A candidate for graduation is expected to attend public commencement exercises which are held annually in May. In extreme hardship cases a student may be excused, but only when a written request is approved by the Vice President for Academic Affairs. Graduate students must complete their entire program prior to being permitted

attendance at commencement and any of the associated activities unless prior approval has been given by the appropriate college dean.

Eligibility to Participate in Commencement

Prospective graduates who have filed an Intent to Graduate form with the Office of Academic Records at least one semester in advance of their anticipated graduation date will be invited to participate in the May Commencement Exercises. Students planning to complete requirements in the Summer sessions must file a written plan with the Office of Academic Records prior to March 15 to account for all outstanding requirements. Once the plan has been approved by the Office of Academic Records, the student may participate in the May Commencement Exercises. Summer graduates with more than 12 hours to complete in the Summer sessions will not be allowed to participate in the May Commencement Exercises unless prior approval has been obtained from the Office of Academic Records and the Academic Appeals Committee.

Grade Requirements for Graduation

1. UNDERGRADUATE: To graduate at the end of a given semester, an undergraduate student must have a cumulative 2.00 GPA ("C") **at the beginning of the final semester.**

2. GRADUATE: To graduate at the end of a given semester, a graduate student must have a cumulative 3.00 GPA ("B") **at the beginning of the final semester.**

Correspondence and Extension Credit

Record of all correspondence and extension work transferred from another institution must be filed with the Office of Academic Records prior to enrollment in the final semester before graduation. (See page 25 for additional information concerning correspondence and extension credit.)

Minimum Residence

For undergraduate students, at least 30 semester hours, including the 12 semester hours immediately preceding graduation, must be completed at Grand Canyon University.

Undergraduate students are required to complete at least 21 semester hours in their major subject, 15 of which must be upper division hours, at Grand Canyon University. In addition, undergraduate students are required to complete at least nine semester hours in their minor subject, three of which must be upper division, at Grand Canyon University. Students pursuing majors that do not require a minor must take 30 semester hours in their major subject, 18 of which must be upper division, at Grand Canyon University.

Graduate students in the Master of Education degree program with an Elementary Education specialization must complete education requirements, 40 semester hours of professional preparation requirements, and 18 semester hours of masters course work.

Graduate students in the Master of Education degree program with a Secondary Education specialization must complete education prerequisites, 35 semester hours of professional preparation requirements and 22 semester hours of masters course work.

Graduate students in the Master of Arts in Education degree program must take 36 semester hours.

Graduate students in the Master of Arts in Teaching degree in the Distance Learning program must complete a prescribed program of 30 semester hours.

Graduate students in the Master of Education program with a Special Education specialization must complete education prerequisites, 46 semester hours of professional prerequisites, and 18 semester hours of masters course-work. Certification is received in learning disabilities K-12, emotionally handicapped K-12, and elementary education.

Graduate students in the Master of Business Administration degree program must take 24 semester hours, including the 12 semester hours immediately preceding graduation, at Grand Canyon University.

Graduate students in the Master of Science in Executive Fire Service Leadership must complete a prescribed program of 37 hours.

Total Hours

The total number of semester hours for a Master of Arts in Education degree is not to exceed 30. Refer to the College of Education for specific programs of study.

The total number of semester hours for a Master of Education degree is not to exceed 60. Refer to the College of Education for specific courses.

The minimum number of semester hours required for a baccalaureate degree is 128 with a minimum cumulative GPA of 2.00, indicating an average of "C," on all coursework taken at Grand Canyon University.

Major Grade Point Average

Undergraduate students must also have at least a cumulative 2.00 GPA in their majors and are not permitted to count any course with a grade below "C" toward their majors. Higher GPAs are required by specific departments/colleges.

Graduate students must maintain a cumulative 3.00 GPA.

Minor Grade Point Average

Undergraduate students must have at least a cumulative 2.00 GPA in their minors and are not permitted to count any course with a grade below "C" toward their minors.

Upper Division Requirements

For a baccalaureate degree, a student must earn a minimum of 45 semester hours in upper division (300 or above) courses. In exceptional cases, students may petition the Academic Affairs Committee for special consideration.

University Liberal Arts Foundation (ULAF)

Grand Canyon University was founded as a Christian liberal arts college over 50 years ago and proudly maintains that heritage even though the institution has undergone extensive changes over the intervening years. Now a burgeoning University with multiple professional and applied degree programs complementing its traditional liberal arts and sciences curriculum, Grand Canyon University continues to maintain that a core of liberal arts knowledge and the integrative ability potentially inherent in that core remains the best preparation for a productive and satisfying life in today's world. To that end, the University has developed a set of learner goals which, when taken as a whole, are viewed as comprising our expectations for this part of the student's experience at Grand Canyon University. Each learner goal is paired with a course or group of courses in a core area of study and these comprise the University Liberal Arts Foundation. The ULAF, comparable to what is often called "general education" or "general studies" at other institutions, is intended to be the foundation of the student's undergraduate education. The ULAF purposely allows the student some flexibility and choices in order to make the foundation as relevant as possible to the student's areas of academic interest, but it also is specific enough to ensure that some basic skills and knowledge are a part of the foundation.

Self-Placement In English Classes

Freshman and transfer students have the opportunity to make an important decision which could affect their success in some courses here at Grand Canyon University. They have the choice of enrolling in one of two courses which have proven to be beneficial for students who need to improve their writing skills in order to succeed at meeting college-level communication expectations. Specifically, if their ACT scores are 1 to 18 and/or their SAT verbal are 200 to 389, then the administration strongly recommends that they enroll in UNV 105 (Writing Experience I). If their ACT scores are 19-20 and/or their SAT verbal scores are 390 to 469, then the administration strongly recommends that they enroll in UNV 110 (Writing Experience II). Even if they have already completed ENG 101 and 102 somewhere else, they will likely benefit from taking either of these courses if their test scores fall within these lower ranges. Also, if they have been away from college for a long time, then taking either of these courses will greatly benefit them as a refresher of the basics. See the chart below for complete placement information.

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 ESL

Learner Goals

1. To develop an understanding of the Bible and Christian values and how they may be integrated into living in the world today. (See Core Area I.)
2. To demonstrate the ability to write competently, speak effectively, and use the tools of modern technology to communicate. (See Core Area II.)
3. To develop an understanding of and appreciation for historical, literary, and philosophical heritage. (See Core Area III.)
4. To develop knowledge and appreciation for the dynamic relationship between the individual and society. (See Core Area IV.)
5. To demonstrate an understanding of mathematical concepts, applications, and connections between mathematics and daily living. (See Core Area V.)
6. To achieve an understanding of the philosophy and methods of science. (See Core Area VI.)
7. To develop an appreciation for the arts and their relationship to daily living. (See Core Area VII.)

University Liberal Arts Foundation Requirements

(GENERAL - Refer to the ULAF for each college for any variations)

I. Christian Perspectives: **6 hours**

Track 1: BIB 113 Old Testament History (3)
AND
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND
One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication: **10 hours**

A. English — 6 hours*
ΔENG 101 Academic Writing (3)
ΔENG 102 Research Writing (3)

B. Speech — 3 hours
SPC 113 Fundamentals of Speech (3)

C. Computer Literacy — 1 hour
CIS 180 Computer Information Systems Module (1)

III. Heritage **6 hours**

A. History — 3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)

B. Literary and Philosophical Tradition — 3 hours
Any literature course with an "ENG" prefix or any philosophy course with a "PHI" prefix

IV. Personal and Social Environment **3 hours**

Any economics (ECN), foreign language (FRE, GER, SPA, etc.), geography (GEO), political science (POS), psychology (PSY), or sociology (SOC) course

V. Mathematical Inquiry **3 hours**

MAT 120 Intermediate Algebra or higher mathematics course

VI. Scientific Inquiry **4 hours**

Any biology (BIO), chemistry (CHM), geology (GLG), or physics (PHY) course which contains a laboratory component

VII. Fine Arts **3 hours**

Any art, music, or theatre course

Total University Liberal Arts Foundation Requirements: 35 hours**

* Students who have been placed in ENG 103 Honors Composition based on ACT and/or SAT scores may satisfy the requirements of the English section of Core Area II by successfully completing this course. This may reduce the total ULAF requirements to 32 hours for those students.

Δ Writing-Intensive course.

** Students should consult the specific section of the catalog describing their college's requirements. Some requirements may differ.

As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count toward meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers and receive a grade for the effectiveness of the written assignments.

The University has always accepted comparable courses from other regionally accredited institutions which, in the judgment of the faculty, meet the intent of the requirements as specified. The faculty teaching a specific discipline will be consulted when the Office of Academic Records cannot establish whether or not a particular transferred course is substantially similar to the ULAF requirement.

Bachelor Degree Candidates – Suggested Program of Study

The following program of study for a beginning student will meet many of the University Liberal Arts Foundation requirements. Students should adapt the program to meet their specific matriculation plan for which they are ultimately responsible. This program emphasizes the importance of choosing a major (and a minor, in most cases) field of study during the first year.

First Semester:	
UNV 101*	2 hour
BIB 103 or BIB 113	3 hours
Δ ENG 101	3 hours
HIS 103 or HIS 105	3 hours
TRE 120/ARH 100/or MUS 252	3 hours
CIS 180	1 hour
Elective	1 hour
	16 hours
Second Semester:	
UNV 304/UNV 305/UNV 306/or BIB 123	3 hours
Δ ENG 102	3 hours
ECN/GEO/POS/PSY/or SOC elective	3 hours
BIO/CHM/or PHY - lab science	4 hours
(PHY 101 is recommended for students who have not had a physical science course in high school.)	
Elective	3 hours
	16 hours

*This course is not required as part of the University Liberal Arts Foundation requirements but has been found to be of practical value to most students. UNV 101 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.

Δ Writing-Intensive course.

As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce

students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count toward meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers and receive a grade for the effectiveness of the written assignments.

Sophomore Year:	Fall	Spring
SPC 113	3 hours	
PHI 101 or ENG literature course		3 hours
MAT 120 or higher	3 hours	
major, minor, electives	9 hours	13 hours
	15 hours	16 hours

Junior Year:	Fall	Spring
major, minor, electives	17 hours	16 hours
	17 hours	16 hours

Senior Year:	Fall	Spring
major, minor, electives	17 hours	16 hours
	17 hours	16 hours

(Students who elect to take a foreign language should adjust this plan to allow the classes to be taken in the same year. Students continuing a foreign language from high school should begin those courses in their freshman year.)

Bachelor of Liberal Studies (B.L.S.) – Degree Requirements

Students who elect to study for a Bachelor of Liberal Studies degree will complete the following requirements:

University Liberal Arts Foundation	35 hours
Electives	93 hours
	128 hours

A minimum of 45 hours must be in upper division courses.

A maximum of 21 hours of upper division work in any one academic area will be acceptable toward the degree. (ACC, BUS, ECN, FIN, and MKT are all considered to be in the same academic area.)

A minimum grade of "C" must be earned in all upper division courses.

An overall grade of "C" must be maintained.

The student must satisfy the minimum residence requirement of at least 30 hours, 18 of which must be upper division.

Special Conditions

Students who elect this program must sign a statement that they understand the Bachelor of Liberal Studies degree may not be accepted for teacher certification, admission to professional schools, or admission to graduate school.

Major and Minor Subjects

By the beginning of the junior year undergraduate students are required to select one subject area, to be known as their 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. In any case, at least 15 hours must be upper division. Students must also have a cumulative 2.00 GPA in their major and are not permitted to count in the major any course with a grade below 2.00. A candidate for a secondary teaching certificate must have a 2.50 average or above in the teaching major.

With few exceptions, undergraduate students must also select a different subject area, to be known as the minor, in which they must present 18 hours of acceptable credit. Of these 18 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.* (Effective Fall 2000)

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.

Transfer students should consult the paragraph concerning minimum residence (see page 29).

Second Degree*

A student who has earned a baccalaureate degree from a regionally accredited college or university may be granted an additional baccalaureate degree from Grand Canyon University upon completion of the following:

1. Meeting the admission criteria for that degree.
2. Filing an Intent to Graduate form with the Office of Academic Records for the degree sought.
3. Meeting ULAF requirements for Biblical Understanding and Written Communication, all degree prerequisites and requirements, and all other University requirements for the second degree.
4. Selecting a major field not used as a major for the previous degree. (See specific major for number of hours required.)
5. Completing a minimum of 30 additional credit hours in the major area at Grand Canyon University (36 for those who have not met the six-hour requirement in Bible) after the conferral of the previous baccalaureate degree(s).

***NOTE: Second Degree students do not qualify for honors at graduation.**

Double Degree*

A student wishing to pursue two degrees simultaneously from Grand Canyon University must meet the following requirements:

1. Obtain permission from the Office of Academic Records and the dean(s) of the college(s) under which the degrees are offered.
2. File an Intent to Graduate form with the Office of Academic Records for each degree sought.
3. Meet the ULAF requirements, all degree prerequisites and requirements, and all other University requirements for each degree sought.
4. The two degrees must be different (e.g., B.A. and B.S. or B.S. and B.S.N.). A minor only needs to be completed in one of the two degrees.
5. Complete a minimum of 30 credit hours at Grand Canyon University beyond the requirements for the first degree (e.g., a minimum of 158 credit hours if the requirements for the first degree were completed after 128 hours).
6. Complete the requirements for both degrees before being granted either degree.

***NOTE: Double Degree students may only earn honors on their first degree.**

GENERAL ACADEMIC REGULATIONS SPECIFIC TO GRADUATE STUDENTS

Application and Admission

Application files are maintained for one year. If an applicant is not accepted or does not enroll within that time frame, the file becomes inactive and reapplication is necessary.

To be considered for admission to a graduate program, a student must meet the acceptance criteria of the specific college as well as University requirements.

Official Transcripts

Applicants must submit a set of official transcripts from each

postsecondary institution attended to the Office of Admission. Official transcripts must be sent directly from the issuing institution to the Grand Canyon University Admission Office. In order for transcripts to be considered official, they must arrive in a sealed college/university envelope. Unofficial transcripts or hand carried transcripts (except those in sealed college or university envelopes) are unacceptable.

Grade Point Average

Once accepted into a graduate program, students must maintain a cumulative 3.0 GPA on a 4.0 scale. A graduate student whose cumulative GPA drops below 3.0 on a 4.0 scale in any semester will be placed on Academic Probation. A graduate student will be suspended if the cumulative GPA drops below 2.5 on a 4.0 scale in any given semester. Written petitions to continue in the graduate program must be submitted to the Dean/Director of the program.

Graduate programs do not accept a "D" as a passing grade. A student must repeat any course for which a grade of "D" is received. Some graduate programs adhere to a higher standard in this regard. Please refer to your specific college regarding acceptable course grades.

To repeat a course, a student must re-register for the course as well as pay all related tuition and fees.

Honor Code

Given the purpose and Christian foundation of Grand Canyon University, all students are expected to possess a high standard of conduct and personal integrity. Dishonesty, cheating, plagiarism and other examples of academic dishonesty will not be tolerated. Plagiarism is defined as representing the language or ideas of another as one's own.

Penalties may include not receiving credit for a specific assignment, failing a course, suspension, or expulsion from the University.

Request for Incomplete Grade

GCU allows some students to extend courses over an additional semester. When seriously extenuating circumstances prevent a student from completing course requirements before the semester deadline, the program administrator may grant an extension. The student must request the extension in writing on an Extension Request Form. The student must include documentation supporting the request. The form must be received in the degree program office at least ten days prior to the semester deadline. In order for the request to be reviewed, the semester must have been paid in full. If approved, the student will receive a grade of "I" (Incomplete) for the course. Once the student completes the course requirements, the instructor must file and sign a Change of Grade Form in the Office of Academic Records. Students must complete all necessary work within the Incomplete Grade Deadline. (The Fall semester deadline is April 15th and the Spring semester deadline is December 1st). Failure to complete the required work in the specified time will result in a grade of "F." Requests for course extensions may be denied. Withdrawing from the course is only an option during the semester of registration, not during a course extension.

Drop/Add

A student who drops a course in a graduate program will receive a grade of "W" as long as the course is dropped before the Drop Deadline. A drop is only processed when a student submits written notification of the drop to the Dean/Director of the program prior to the deadline. A student may not drop a course for which an extension has been granted. A student who drops a course is obligated to pay tuition and fees for the course according to the published refund schedule.

Inactive Status

Students must notify the program director and fill out appropriate paperwork in the Office of Academic Records, Business Office, and Office of Financial Aid in order to be placed on Inactive Status.

Withdrawing from the University

A student who completely withdraws from the University must reapply for admission to the graduate program and petition the Director/Dean of their program for readmission to the program.

Limitation of Time

A Master's level graduate program must be completed within five (5) years from the initial registration date. After that date, students must petition to the Dean/Director of their college for permission to continue with the original program of study.

Graduation Requirements

It is the responsibility of the graduate student to file a Statement of Intent to Graduate with the Office of Academic Records one semester prior to graduation. A graduate student must have a cumulative 3.0 GPA on a 4.0 scale at the beginning of the semester in which the student plans to graduate. Grand Canyon University holds commencement once a year in early May. Students completing their program requirements during the fall semester can participate in Commencement in May.

UNIVERSITY SPECIAL PROGRAMS

Preface

While the University is organized into several colleges, there are some academic programs which fall outside the subject matter taught in any of the colleges and other programs which cross over the boundaries of two or more colleges. Some of these programs offer specific courses, others offer services or educational experiences to specific groups of students. Some programs are totally staffed and operated within the University. Others involve relationships with other colleges, universities, organizations, or countries. All are designed to better allow the University to accomplish its mission.

Academic Tutoring

In an effort to offer academic support to any student attending Grand Canyon University, the services of tutors in both writing and mathematics are available in the Academic Support Center (ASC) located in the Fleming Classroom Building. The tutors, both faculty members and students, are trained to provide help in brainstorming, organizing, developing, revising and editing drafts, as well as giving assistance in solving mathematical problems. Students having difficulty in their classes should consult with their instructor in conjunction with visiting the ASC. The writing tutors can be a valuable resource for those students completing compositions in all subjects, but especially for tasks assigned in Writing-Intensive courses across the disciplines.

Christian Perspectives

For centuries the Christian worldview aided believers in their attempts to understand the environment, their fellow humans, and the social world where they interacted. The increasing secularization of the modern mind has led many Christians to conclude that there is a fundamental conflict between academic pursuits and the Christian faith. Thus, many Christians, isolating themselves from the forces of "modernization," divide the world into two opposing camps: the world of the mind and the world of faith.

Grand Canyon University offers an alternative for the growing Christian. Grand Canyon University wants dedicated Christians to re-engage the intellectual community. It is our contention that faith and the academic disciplines are complementary forces that, when engaged in dialogue, create a deeper faith and a more complete understanding of the universe. If Christians are to be effective in the 21st century, we must find a way to reintegrate our thoughts and commitments into the broader cultural community.

The University offers three courses (UNV 304, UNV 305, UNV 306) as part of its efforts to accomplish this task (see page 38).

Honors Program

The Honors Program is designed for exceptional and academically motivated students. The Grand Canyon University Honors Program provides an integrated learning experience which offers students the challenge to fulfill their intellectual and personal potential in a unique interdisciplinary curriculum.

Team-taught classes creatively combine traditional academic disciplines and encourage students to appreciate how the pieces of their world fit together. The Honors core interdisciplinary courses help students establish vital connections among the various areas of study, while a Senior Project enables students to demonstrate scholarship within their selected major field of study.

Students will enjoy stimulating exchange and University spirit resulting from class discussions and co-curricular activities. They will explore historic and contemporary issues in ethics, the arts, literature, economics, philosophy, natural sciences, the environment, and other fields with fellow Honors students and professors in a shared experience that fosters group camaraderie and friendship. Students that are interested in the Honors Program may apply through the Director of the Honors Program. Scholars 100 students that apply for admittance into the program receive automatic acceptance.

More information concerning general criteria for selection is available through the Director of the Honors Program.

University Success Program

UNV 101, University Success, is a course 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 graded, one-credit class 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 career planning, effective communication, confidence and leadership, health and fitness, stress management, keeping faith, and others.

More information concerning this program is available through the Office of Student Life.

CENTER FOR INTERNATIONAL EDUCATION

Grand Canyon University is committed to education which helps citizens expand their worldview and deepen their understanding of the peoples of the world. Study-abroad programs operate under the idea that firsthand knowledge of other peoples and their cultures builds international awareness, creates concern for God's human creation, and contributes to a more just and peaceful world.

Since 1983, Grand Canyon University's students, faculty, and staff have traveled to over 40 countries to teach, minister, or study. The Center for International Education was established in 1986 to enhance and increase study-abroad programs.

The Center for International Education offers a variety of experiential education programs which examine the problems of cross-cultural communications and the dynamics of demonstrating Christ's love to the world. Academic programs include participating in mission projects, teaching English in Third World countries, studying abroad at foreign universities, or gaining practical experience with international businesses. A unique feature of this program is that it provides participants with opportunities to meet leaders in other countries as well as communicate with the poor and needy of the world. It strives to help students understand the people of other countries, to re-evaluate their own beliefs, and to affirm the beliefs that are important to them.

Students interested in any international learning must make arrangements through Grand Canyon University's Center for International Education well in advance of the anticipated date of study abroad.

American Language Program (ALP)

The American Language Program (ALP) offers pre-college English preparation courses for international students who have some English training but lack the necessary TOEFL score for entrance into academic programs at Grand Canyon University. The program is designed to assist international students in studying English and acquiring the skills necessary for entrance into a full academic program. The latest methods of teaching English are used, including video instruction and computer programs.

Students receive a certificate but do not earn credit hours toward a degree for this program. Interested international students should contact Grand Canyon University's Center for International Education. The University may choose to waive the TOEFL requirement for students who successfully complete the ALP program.

Study Abroad and International Programs

Study abroad students typically enroll at Grand Canyon University in a "holding" course such as UNV 300 to retain their enrollment and eligibility for financial aid. Upon successful completion of the semester, the specific credit for the experience replaces the holding course. Students are required to affirm with their major advisor how study abroad courses will apply to Grand Canyon University's requirements.

Grand Canyon University Study Abroad Programs

China — Grand Canyon University has relationships in China with the Guangxi Education Commission, making all the institutions within the Guangxi Region available to students. In far northwest China, Xinjiang Agriculture University receives ten students each summer. These students teach English as a Second Language for one month.

Germany — Grand Canyon University's German language students may accompany their instructor to the University of Heidelberg Sprachlabor to enhance their German language training.

Hong Kong — Through an agreement with Hong Kong Baptist University, students may study at that University for a semester or a year. Grand Canyon University "owns" a room in a new dormitory built on land left to HKBU when the British left the island. The University offers a variety of courses taught in English, as well as language courses. Hong Kong offers an exciting location for study.

Hungary — Each semester students from Grand Canyon University teach English as a Second Language at Eszterhazy Karoly Teacher Training College. Several of the Hungarian students then come to campus to experience American culture and language.

Israel — Grand Canyon University is a member of a consortium of more than 100 schools who send students to study at the Jerusalem University College, an Evangelical Protestant Christian University-level institution established in 1957 and located in Jerusalem, Israel. The school offers long and short term programs, graduate and undergraduate programs, as well as short-term academic study tours. The institution is dedicated to the study of the geography, culture, history, languages, and archeology of biblical lands as they relate to biblical interpretation and a better understanding of the Middle East.

Lithuania — Teaching English as a Second language is the focus of this summer program in Vilnius, Lithuania.

Mexico — A relationship with the Universidad Kino in Phoenix's sister city of Hermosillo offers students the opportunity to study Spanish or business for a summer, semester, or year. Students may add a service component to this program by working in an orphanage school on the campus of Universidad Kino.

United Kingdom — Business students exchange with students at Staffordshire University in Stoke-on-Kent for a semester or a year.

Contempoary Music Center (CMC)

Located on the beautiful island of Martha's Vineyard (five miles off the coast of Cape Cod, Massachusetts), this program offers you the opportunity to spend a semester studying, living and working with faculty, music industry experts and other students who share your interest in making and marketing contemporary music. You will get hours and hours of hands-on experience, plus lectures, seminars, directed study and intensive field experience in Nashville. When not in class, you'll be in the studio or the music business offices, and, together with your classmates, you'll make and market a CD of original music.

COUNCIL FOR CHRISTIAN COLLEGES AND UNIVERSITIES PROGRAMS

The Council for Christian Colleges and Universities (CCCU) offers and coordinates several programs for which Grand Canyon University students who are juniors or seniors and have a GPA of at least 2.75 are eligible to apply. Students who have previously attended these programs have returned to campus to report that these have been life-changing experiences. These programs are all based on the idea of integrating one's personal faith with the experience of learning through life experience in internships or service opportunities. Preference is given to early applicants. Applications may be obtained from the Center for International Education. Final admission to any of the programs is the decision of the CCCU.

The CCCU sets the charges for the programs and bills Grand Canyon University. The student is responsible for the payment of these charges to Grand Canyon University. Most financial aid programs for which a student is otherwise eligible will also be applicable to these programs.

American Studies Program

Founded in 1976, the American Studies Program has served hundreds of students from Coalition member institutions as a "Washington, D.C. campus." ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on-experience with an internship in their chosen field and explore pressing national and international issues in public policy seminars which are issue-oriented, interdisciplinary and led be ASP faculty and Washington professionals. Internships are tailored to fit the student's talents and aspirations and are available in a wide range of fields. ASP bridges classroom and marketplace, combining Biblical reflection, policy analysis and real world experience. Students are exposed to on-the-job learning that helps them build for their future and gain perspective on the calling of God for their lives. They are challenged in a rigorous course of study to discover for themselves the meaning of Christ's Lordship in putting their beliefs into practice. The aim of the program is to help coalition schools prepare their students to live faithfully in contemporary society as followers of Christ. Students earn 16 semester hours of credit.

China Studies Program

The China Studies Program allows students to engage this large and intriguing country from the inside. While living and experiencing Chinese civilization firsthand, students participate in seminar courses in the historic, cultural, religious, geographical, and economic realities of this strategic, populous nation. In addition to the study of standard Chinese, students will assist Chinese students learning English, allowing for one-on-one interaction. Students earn 16 semester hours of credit.

Latin America Studies Program (LASP)

Students of Council member colleges have the opportunity to live and learn in Latin America through the Latin American Studies Program, based in San Jose, Costa Rica. The program seeks to introduce students to as wide a range of Latin American experiences as possible through the study of language, literature, culture, politics, history, economics, ecology, and religion of the region. Living with a Costa Rican family, students experience and become a part of the day-to-day lives of typical Latin Americans. Students also participate in a service opportunity and travel for three weeks to nearby Latin American nations. Students earn 16 semester hours of credit.

Los Angeles Film Studies Center (LAFC)

The Los Angeles Film Studies Center is designed to train students of Council member institutions to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn and work in the Los Angeles area near major studios. The curriculum consists of two required seminars focusing on the role of film in cultures and the relationship of faith to work in this very important industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hands-on-experience. The combination of the internship and the seminars allows students to explore the film industry within a Christian context and from a liberal arts perspective. Students earn 16 semester hours of credit.

Oxford Honors Program (OHP)

Honors and other highly qualified students of council member institutions have the exciting opportunity to study in England through an interdisciplinary semester at Oxford University. The rigorous academic program, aimed at increasing critical thinking skills and scholarship from an integrative Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature, and philosophy. Students earn 16 semester hours of credit.

Oxford Summer School Program

The summer equivalent of the Oxford Honors Program allows students of council member institutions to spend a summer term studying at the Center for Medieval and Renaissance Studies (CMRS) of Keble College at Oxford University. The program includes multidisiplinary study of the Renaissance and Reformation through examination of philosophy, art, literature, science, music, politics, and religion of early modern Europe. Students earn 6-9 semester credit hours, which are administered directly to member institutions by CMRS.

Middle East Studies Program (MESP)

The Middle East Studies Program, based in Cairo, Egypt, allows Council students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural, and literary traditions of Middle East people. In addition to seminars, students study the Arabic language and work as volunteers with various organizations in Cairo. Students earn 16 semester hours of credit.

Russian Studies Program (RSP)

RSP students are exposed to the depth and diversity of Russian culture during a semester spent in Russia's three largest cities: Moscow, St. Petersburg, and Nizhnii Novgorod. In addition to three seminar courses entitled: History and Sociology of Religion in Russia; Russian Peoples, Cultures and Literature; and Russia In Transition, students receive instruction in the Russian Language, choosing either four or six semester hours of language course work. For those opting for four hours of Russian, a semester course entitled International Russian Relations and Business in Russian is available. Students generally earn 16 semester hours of credit.

Summer Institute of Journalism (SIJ)

Council campuses are invited to choose two student journalists to apply for this four-week, all-expenses-paid experience in Washington, D.C. Fifteen students are selected to participate in the Institute, which lasts from mid-May to mid-June. The Institute blends classroom experience with hands-on work and is an excellent opportunity to learn through lectures and panels with leading journalists who share a strong Christian commitment. Participants also take part in seminars taught by communications professors from Council member institutions, take part in the field trips, and complete workshop projects for local newspapers. The course provides valuable insight and training in gathering and writing news, editing copy, and designing layout. The institute seeks to develop students as Christian journalists – exhibiting both professionalism and legal/ethical integrity. Students generally earn 4 semester hours of credit.

Canyon Institute for Advanced Studies

Canyon Institute for Advanced Studies is a Christian interdisciplinary research center focusing on foundational issues. As an academic institution, we seek fundamental epistemological, factual and ethical relationships among diverse disciplines, including the natural and social sciences, philosophy, arts and humanities, health sciences, politics, economics, management, education, and theology. As a Christian institute, Canyon Institute for Advanced Studies promotes serious scholarly interaction between Christian faith and academic disciplines. We bring sincere Christian minds and creative resources together to pursue knowledge and understanding that will provide Christians with clear, holistic, global perspectives to enhance leadership in the community of faith. Activities of Canyon Institute for Advanced Studies include research, publication and scholarly exchanges, seminars, conferences, public lectures and outreaches such as consultation and support for individuals and communities who seek intellectual leadership and Christian perspectives. More information can be found on our website www.canyoninstitute.org.

RESERVE OFFICER TRAINING PROGRAMS (ROTC)

Through an agreement with Arizona State University in Tempe, Arizona, students at Grand Canyon University can take classes in ROTC. Students register for the classes at Grand Canyon University and attend the courses at Grand Canyon University or Arizona State University, depending on the course(s).

The goal of ROTC classes is to provide a foundation of military knowledge and skills needed by junior officers in the military. Students may take ROTC credit in Military Science (Army) or Aerospace Studies (Air Force).

For further information contact Grand Canyon University at (602) 589-2550, Arizona State University Army ROTC at (480) 965-3318 or Air Force ROTC at (480) 965-3181.

AIR FORCE ROTC

Purpose

The Department of Aerospace Studies curriculum consists of the General Military Course and History for freshmen and sophomores (AES 101, AES 103, AES 201, AES 203) and the Professional Officer Course for juniors and seniors (AES 301, AES 303, AES 401, AES 403) and a once-a-week leadership laboratory (AES 102, AES 104, AES 202, AES 204, AES 302, AES 304, AES 402, AES 404).

General Qualifications

Men or women entering AFROTC must:

1. Be a citizen of the United States (non-citizens may enroll, but must obtain citizenship prior to commissioning).
2. Be of sound physical condition.
3. Be at least 17 years of age for scholarship appointment or admittance to the Professional Officer Course.

Additionally, scholarship recipients must be able to fulfill commissioning requirements by age 27. If designated for flying training, the student must be able to complete all commissioning requirements prior to age 26.5 years; other categories must be able to complete all commissioning requirements prior to age 30.

Four-Year Program (GMC and POC)

A formal application is not required for students entering the four-year program. A student may enter the program by simply registering for one of the General Military Course (GMC) classes at the same time and in the same manner as other courses. GMC students receive two semester hours of credit for each AES 100 and AES 200 class completed, for a total of eight semester hours. GMC students not on AFROTC scholarships incur no military obligation. Each candidate for commissioning must pass an Air Force aptitude test, a physical fitness test, and a physical examination, and be selected by a board of Air Force Officers. If selected, the student then enrolls in the Professional Officer Course (POC), the last two years of the AFROTC curriculum. Students attend a four-week field training course at an Air Force base, normally between the sophomore and junior year. Upon successful completion of the POC and the college requirements for a degree, the student is commissioned in the US Air Force as a Second Lieutenant. The new officer then enters active duty or may be granted an educational delay to pursue graduate work.

Two-Year Program (POC)

The basic requirement for entry into the two-year program is that the student have two academic years of college work remaining, either at the undergraduate or graduate level. Applicants seeking enrollment in the two-year program must pass an Air Force aptitude and medical examination, and be selected by a board of Air Force officers. After successfully completing a six-week field training course at an Air Force base, the applicant may enroll in the Professional Officer Course in the AFROTC program. Upon completion of the POC and the college requirements for a degree, the student is commissioned.

Qualifications for Admittance

Qualifications for Admittance to the Professional Officer Course (POC) are:

1. For the four-year student, successfully completing the General Military Course and the four-week field training course.
2. For the two-year application, completing the six-week field training course.
3. Passing the Air Force Officer Qualifying Test (AFOQT).
4. Passing the Air Force physical examination.
5. Maintaining the minimum GPA required by the University.
6. Maintaining PFT/1.5 Standards.

Pay and Allowance

POC members in their junior and senior years receive $200 per month for a maximum of 20 months of Professional Officer Course attendance. Students are also paid to attend field training. In addition, uniforms, housing, and meals are provided during field training at no cost to the student. Students are reimbursed for travel to and from field training.

Scholarships

AFROTC offers scholarships annually to outstanding young men and women on a nationwide competitive basis. Scholarships cover full college tuition for resident and nonresident students as well as an allowance for books, fees, supplies, and equipment, plus a monthly tax-free allowance of $200. Scholarships are available on a four-, three- and two-year basis. To qualify for the four or three year scholarship, students must be US citizens and submit an application prior to December 1 of their senior year in high school. Interested students should consult their high school counselors or call AFROTC at Arizona State University for application forms to be submitted to HQ AFROTC, Maxwell AFB, AL 36112-6663. Students enrolled in AFROTC at Arizona State University are eligible for a limited number of three or two-year scholarships. Those interested must apply though the Department of Aerospace Studies. Consideration is given to academic grades, score achieved on the Air Force Officer Qualifying Test, and physical fitness. A board of officers considers an applicant's personality, character, and leadership potential.

ARMY ROTC

Purpose

The Department of Military Science curriculum consists of the basic course (MIS 101, MIS 102, MIS 201, and MIS 202) and the advanced course (MIS 301, MIS 302, MIS 401, and MIS 402). The goal of this professional education curriculum is to prepare students with leadership potential to be commissioned US Army officers. Objectives include developing the following characteristics in the students: leadership and managerial skills; the ability to think creatively; the ability to speak and write effectively; appreciation of the requirements for national security; and an understanding of the nature and functions of the US Army. Upon successful completion of the advanced course and graduation, qualified students receive commissions in the Active US Army (on a competitive basis), Army Reserve, or Army National Guard.

General Qualifications
Basic Course

Any student who is enrolled at Grand Canyon University can enter into the military science basic classes. It is strongly recommended that the student be in good physical shape because some of the curriculum requires physical exertion.

Advanced Course

Any student who is enrolled at Grand Canyon University may enroll in the military science advanced course. However, to be competitive and obtain a commission in the US Army, students must meet the following requirements:

1. Be a citizen of the United States (non-citizens may enroll but must obtain citizenship prior to commissioning).
2. Be of sound physical condition and pass the US Army physical fitness test.
3. Meet the required professional military educational requirements.
4. Be at least 17 years of age for entrance into the advanced course and be able to complete all commissioning requirements prior to age 30.

Only those students in the basic and advanced courses who meet required military regulations are eligible to receive financial assistance through the US Army. Members of the Department of Military Science at Arizona State University are available during normal office hours to answer questions or provide counseling.

Four-Year Program

Students may enroll in Army ROTC during their freshman year. They take the basic course during the first two years, receiving a total of 13 semester hours of credit for the four semesters of study. Upon satisfying the requirements stated previously, they enter the advanced

course where they will earn 12 semester hours for the four semesters of study. Students are also required to attend a six-week advanced summer camp at Ft. Lewis, Washington, between their junior and senior years. To preclude excessive course overloads, students in certain majors, especially nursing, should plan an additional semester or two and/or summer school to complete degree requirements. ROTC students must meet all of the degree requirements of the college. Upon successful completion of the advanced course and requirements for a degree, students are commissioned as Second Lieutenants in the Regular US Army, Army Reserve, or Army National Guard.

Two-Year Program

Students must have at least two academic years of college work remaining, either at the undergraduate or graduate level. The student must also have reached academic junior status. This program is open to all students with the exception of three- and four-year Army ROTC scholarship winners. Students seeking enrollment in the two-year program should make application during the Spring semester of the year in which they desire to enter the program. Students must attend and successfully complete a paid five-week basic camp at Fort Knox, Kentucky (conducted during June and July) prior to enrolling in the advanced course. Students with previous military experience or who are currently members of the National Guard or Reserves may be admitted directly into the two-year program provided they are academic juniors. They then follow the same program and meet the same requirements as stated for advanced course students in the four-year program.

Qualifications for Admittance to the Advanced Course

To be admitted to the advanced course, students must:

1. Successfully complete the basic course, if they are in the four-year ROTC program; if they are in the two-year program, they must be selected for and successfully complete the six-week basic summer camp, or have completed prior military service.
2. Achieve and maintain the minimum cumulative GPA required for graduation in the student's selected major, but no less than 2.00.
3. Attain at least junior class standing.
4. Maintain full-time student status.

Pay and Allowance

Each advanced course student receives one-half the pay of a second lieutenant during attendance of the six-week advanced camp. Uniforms, housing, and meals are provided at the camp without cost to the students, and they are reimbursed at the current mileage rate for travel to and from camp. All students in the advanced course, regardless of scholarship status, are paid about $1,500.00 tax-free for each of these two years.

Scholarship Programs

The Army ROTC offers scholarship programs for outstanding young men and women who are motivated toward a career as professional officers in the US Army. These scholarships are awarded in varying amounts for tuition. In addition, the scholarship pays $150.00 subsistence allowance and $225.00 each semester for textbooks and supplies. A scholarship for four years is available to freshmen who will enter the four-year program. Applications must be submitted in accordance with a schedule furnished by the high school counselors. Selection is made on a nationwide basis.

Scholarships for continuing students are available for three- and two-year periods commencing with the sophomore and junior years of ROTC, respectively. Applications are open to all students in good standing with the University; previous ROTC or military experience is not required for application for two- and three-year scholarships. Selection is made by a review board at the national level. Acceptance of any of the three scholarship programs requires a service commitment to serve in the Active Army for a period of up to four years after commissioning and graduation.

Active Duty Requirements

Graduates of Army ROTC may serve as officers in the Active Army, Army National Guard, or Army Reserve. Active duty commitments may vary from four years to as little as three months. Scholarship students have up to a four-year active duty commitment.

UNIVERSITY-WIDE COURSES

AEROSPACE STUDIES

AES 101 — **2 hours**
Air Force Today I

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 — **0 hours**
Leadership Lab

Every Fall. Emphasis on common Air Force customs and courtesies, drill and ceremonies, health and physical fitness through group participation. Corequisite: AES 101.

AES 103 — **2 hours**
Air Force Today II

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 — **0 hours**
Leadership Lab

Every Spring. Continuation of AES 102 with more in-depth emphasis on learning the environment of an Air Force officer. Corequisite: AES 103.

AES 201 — **2 hours**
The Evolution of USAF Air and Space Power I

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 — **0 hours**
Leadership Lab

Every Fall. Application of advanced drill and ceremonies; issuing commands; knowing flag etiquette; and developing, directing, and evaluating skills to lead others. Corequisite: AES 201.

AES 203 — **2 hours**
The Evolution of USAF Air and Space Power II

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 — **0 hours**
Leadership Lab

Every Spring. Continuation of AES 202 with an emphasis on preparation for field training. Corequisite: AES 203.

AES 301 — **3 hours**
Air Force Leadership Studies I

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 — **0 hours**
Leadership Lab

Every Fall. Advanced leadership experiences applying leadership and management principles to motivate and enhance the performance of other cadets. Corequisite: AES 301.

AES 303 — **3 hours**
Air Force Leadership Studies II

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 **0 hours**
Leadership Lab

Every Spring. Continuation of AES 302 with emphasis on planning the military activities of the cadet corps and applying advanced leadership methods. Corequisite: AES 303.

AES 401 **3 hours**
National Security Affairs

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 **0 hours**
Leadership Lab

Every Fall. Advanced leadership experience demonstrating learned skills in planning and controlling the military activities of the corps. Corequisite: AES 401.

AES 403 **3 hours**
Regional Security Issues

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 **0 hours**
Leadership Lab

Every Spring. Continuation of AES 402 with an emphasis on preparation for transition from civilian to military life. Corequisite: AES 403.

MILITARY SCIENCE

EPE 105 **1 hour**
Army Master Fitness

Every semester. Beginning instruction in physical conditioning. Three hours of physical fitness lab per week. May be repeated for credit.

MIS 101 **3 hours**
Introduction to the Military

Every Fall. An overview of the mission and organization of the Army and its role in national defense. Three hours lecture/conference, two hours lab.

MIS 102 **3 hours**
Land Navigation, First Aid, and Survival

Every Spring. Introduction to military maps and land navigation; first aid and lifesaving techniques; and basic outdoor survival skills. Three hours lecture/conference, two hours lab.

MIS 201 **4 hours**
Military Science and Leadership

Every Fall. Study of how to influence, how to communicate, and how to plan and organize. Three hours lecture/conference, and two hours lab.

MIS 202 **3 hours**
Introduction to Leadership Dynamics

Every Spring. An introduction to interpersonal dynamics involved in military team operations, and discussion of theory and application of military leadership principles. Three hours lecture/conference, two hours lab.

MIS 301 **3 hours**
Advanced Military Science I

Every Fall. An examination of the theory and dynamics of the individual soldier and military units in offensive combat operations. Two hours lecture/conference, 1.5 hours of Leadership Practical Application, one two-day field exercise, three one-day field exercises. Prerequisites: MIS 101, MIS 102, MIS 201, MIS 202 (or equivalent), and concurrent enrollment in EPE 105.

MIS 302 **3 hours**
Advanced Military Science II

Every Spring. A course in the theory and dynamics of military units in defensive combat operations. Two hours lecture/conference, 1.5 hours Leadership Practical Application, one three-day field exercise, two one-day field exercises. Prerequisites: MIS 101, MIS 102, MIS 201, MIS 202 (or equivalent), and concurrent enrollment in EPE 105.

MIS 401 **3 hours**
Advanced Military Science III

Every Fall. Study of the military legal system; preparation and conduct of military training; leadership development, ethics, and professionalism of the military officer conduct of joint operations; supervising supply and maintenance activities; and officer/NCO relations. Three hours lecture/conference, two hours Leadership Practical Application, one two-day field exercise, three one-day field exercises. Prerequisites: MIS 301, MIS 302, and concurrent enrollment in EPE 105.

MIS 402 **3 hours**
Advanced Military Science IV

Every Spring. An examination of military correspondence; customs and traditions of the service; counseling and motivating subordinates; introduction to Army Family Team Building; and preparation for commissioning. Three hours lecture/conference, two hours Leadership Practical Application, one three-day field exercise, two one-day field exercises. Prerequisites: MIS 301, MIS 302, and concurrent enrollment in EPE 105.

HONORS COURSES

HON 340 **3 hours**
Honors Interdisciplinary Seminars

Fall and Summer on demand. These team-taught classes integrate traditional academic disciplines. Honors students use these seminars to satisfy University Liberal Arts Foundation core requirements. Students may repeat an HON 300 Seminar bearing the same number for full credit. Prerequisite: Honors Program participant.

HON 350 **3 hours**
Honors Interdisciplinary Seminars

Spring and Summer on demand. These team-taught classes integrate traditional academic disciplines. Honors students use these seminars to satisfy University Liberal Arts Foundation core requirements. Students may repeat an HON 300 Seminar bearing the same number for full credit. Prerequisite: Honors Program participant.

HON 360 **3 hours**
Honors Interdisciplinary Seminars

Every other Fall and Summer on demand. These team-taught classes integrate traditional academic disciplines. Honors students use these seminars to satisfy University Liberal Arts Foundation core requirements. Students may repeat an HON 300 Seminar bearing the same number for full credit. Prerequisite: Honors Program participant.

HON 370 **3 hours**
Honors Interdisciplinary Seminars

Every other Spring and Summer on demand. These team-taught classes integrate traditional academic disciplines. Honors students use these seminars to satisfy University Liberal Arts Foundation core requirements. Students may repeat an HON 300 Seminar bearing the same number for full credit. Prerequisite: Honors Program participant.

HON 450 **3 hours**
Honors Project

Every semester. This capstone course requires students to complete a major work of original independent research or artistic expression. Prerequisites: Completion of four HON 300-level courses and approval by the Honors Director.

HON 498 **3 hours**
Advanced Topics in Faith and Discipline

On demand. This repeatable, interdisciplinary seminar 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. Special Note: This course may not substitute for the required HON 300 Interdisciplinary Seminars that Honors Students must complete. Prerequisites: UNV or HON 300-level course or instructor's approval.

UNIVERSITY COURSES

UNV 050 **0 hours**
American Language Program

Every semester. This program is designed for international students who have some English training but have not obtained the required TOEFL score for admittance into academic programs. It offers students the opportunity to study English, acquire skills, and gain experience to successfully enter a full academic program. Students receive a certificate, but do not earn credit hours toward a degree program.

Prerequisite: Approval from the Director of the Center for International Education.

UNV 051 **0 hours**
American Language Program

Every semester. This program is designed for international students who have some English training but have not obtained the required TOEFL score for admittance into academic programs. It offers students the opportunity to study English and acquire skills for successfully entering a full academic program. Students receive a certificate, but do not earn credit hours toward a degree program. Prerequisite: Approval of Director of Center for International Education.

UNV 101 **2 hours**
University Success

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 graded, two-credit class 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 **3 hours**
Writing Experience I

Every semester. A course for students whose SAT or ACT scores indicate their need for a review of writing skills and strategies. May be repeated for a maximum of six hours.

UNV 110 **1 - 3 hours**
Writing Experience II

Every semester. Five weeks of intensive grammar review and practice of the basic writing skills necessary to succeed. May be repeated for a maximum of three hours.

UNV 300 **1 - 16 hours**
Study Abroad

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 hours involved and the chosen course of study. Prerequisite: Approval of Director of Center for International Education or appropriate college dean.

UNV 304 **3 hours**
Science and the Christian Faith

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 **3 hours**
The Christian Mind

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 **3 hours**
Foundations of the Christian Faith

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 490 **3 hours**
International Studies Senior Seminar

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 **3 hours**
Advanced Topics in Faith and Disciplines

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.

The College of Business and Professional Studies

MISSION STATEMENT

The College of Business and Professional Studies seeks to prepare students for their careers by offering an innovative, high quality education that provides the competencies demanded by employers, delivered through centers of excellence, within an environment of Christian values. This preparation is accomplished within the mission of the University.

COLLEGE DESCRIPTION

The College of Business and Professional Studies (COBPS) is a **professional college offering both traditional and adult learner programs** focused on providing cutting-edge and innovative courses designed to meet students' career needs. The College offers courses of study for those who desire the traditional four-year baccalaureate degree, accelerated, degree-completion programs for the working adult, and graduate degrees for working professionals. As a student beginning a college education who knows that any future career will be enhanced by a business degree, or as a working adult who can advance career goals by furthering higher education, one of the College's academic divisions will have a quality program that will meet most career needs.

The Division of Business Studies offers a traditional four-year Bachelor of Business Administration (BBA) degree with majors in Accounting, Marketing, or Business Administration. There are also emphases in International Business and Computer Information Systems. The evening traditional MBA for working adults can be earned in two years because graduate courses are offered year-round. The COBPS business programs are nationally accredited.

For working adults seeking an undergraduate degree, the Division of Professional Studies offers degree completion programs in Applied Management and Organizational Sociology. The Public Safety Administration program is designed for police and fire professionals. These programs run in a student-focused, cohort model and are composed of a sequence of 12 courses that meet one night a week over 14 months. These programs offer a rigorous, challenging, and meaningful education that is friendly to working adults. The Master of Science in Executive Fire Service Leadership is an online program that offers an advanced degree for fire professionals in executive levels of service.

COLLEGE FEATURES

The College of Business and Professional Studies is comprised of two academic divisions. Each division serves a unique set of students and offers quality programs to meet specific students' career needs. In addition, each program and major in the College is committed to developing a curriculum that integrates the "4 C's," Communication Skills, Computer Skills, Critical Thinking and Problem Solving Skills, and Christian Values/Ethics. These "4 C's" are significant competencies demanded by employers beyond the expectations of knowledge provided through business and professional programs. College courses are taught in small classes that enhance learning and provide the opportunity for more comprehensive interaction between students and faculty.

DIVISION OF BUSINESS STUDIES

The Bachelor of Business Administration (BBA) degree and the Master of Business Administration (MBA) degree, for working adults, are offered through the traditional undergraduate and graduate programs of the Business Studies Division. The Business Division's academically qualified, full-time faculty all have relevant business and teaching experience. The Division 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 career.

DIVISION OF PROFESSIONAL STUDIES

The programs of the Professional Studies Division offer the personal attention and individual service that will take the anxiety out of returning to college and help students accomplish their learning goals. Neither work schedule, living location, nor time elapsed since last attending school should interfere with the completion of a Bachelor's degree. The Division of Professional Studies offers undergraduate degree completion programs for working adults. A Master of Science in Executive Fire Service Leadership (MSEFSL) is offered in the Division, as well. All courses are offered in an accelerated, seminar-style format. From the Professional Studies division, students will receive an accredited and respected university degree. Practical, innovative, and convenient degree programs allow adult learners to complete a Bachelor of Science degree in a little over a year's time, if they already have sufficient college level credit and work experience.

GRADUATE PROGRAMS

The College of Business and Professional Studies offers two graduate programs. The Master of Business Administration (MBA) is a traditional academic program with evening classes for working professionals. The Master of Science in Executive Fire Service Leadership (MSEFSL) is an online advanced degree for executive level fire professionals. Further information on these two programs is in the Graduate Programs section.

DIVISION OF BUSINESS STUDIES

DIVISION DESCRIPTION

The Division of Business Studies seeks to deliver a quality education within the liberal arts framework and the Christian values-based tradition of Grand Canyon University. To achieve this, academically qualified, full-time faculty with relevant business and teaching experience are committed to the primacy of teaching, small class sizes, and student-faculty rapport in a congenial and open environment.

The Division of Business Studies exists to serve both undergraduates who are preparing to initiate careers and working professionals who are seeking to further develop their careers. Through the College of Business and Professional Studies, Grand Canyon University is nationally accredited by the Association of Collegiate Business Schools and Programs to offer the following degrees: Bachelor of Business Administration degree with majors in Accounting, Business Administration, and Marketing, and Master of Business Administration degree. Certificate programs are offered in Computer Information Systems and Global Business.

DEGREE OFFERINGS

With the increasing complexity of the business world, solid academic preparation is essential to meet goals for success. The College offers the following three business majors to meet these goals.

Undergraduate

The **accounting major** is 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 **business administration major** emphasizes technical, human, and conceptual skills that encompass the functional areas of business.

The **marketing major** combines a strong business core with special emphasis in market forces, marketing strategy, and sales management. Marketing students prepare for careers in sales, merchandising, and market research.

Graduate

The **Master of Business Administration** (M.B.A.) degree is designed for working professionals who desire to complete their graduate degree without interrupting their professional careers. The program consists of 36 graduate credit hours offered during the evening. Students with the necessary academic or professional background who complete two courses per semester on a trimester basis will be able to complete the M.B.A. program in two years. For further information, see Graduate Programs.

STUDENT ORGANIZATIONS

The College of Business and Professional Studies offers students the opportunity to be members of two student organizations:

IMA Student Chapter, 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.

UNDERGRADUATE PROGRAMS

Undergraduate students must be admitted into the College of Business and Professional Studies before they can be considered for the Bachelor of Business Administration (BBA) degree. Normally, an application is filed by the student with the College of Business and Professional Studies at the end of the student's sophomore year. Until a student is admitted to the College of Business and Professional Studies, the only upper division business courses that can be taken are: BUS 307, 310, 315, and 318.

In order to meet the requirements for admission to the Business Administration baccalaureate program in College of Business and Professional Studies, a student must:

1. have a cumulative GPA of 2.50 for the following courses, as well as a grade of "C" (2.00 on a 4.00 scale) or better in each:
   ENG 101 and ENG 102 (6 hours)
   ACC 211 and ACC 212 (6 hours)
   ECN 201 and ECN 202 (6 hours)
   MAT 121 or higher (3-4 hours)
   BUS 251 (3 hours)
   CIS 180 (3 hours)
   Total 27-28 hours

2. pass a writing proficiency exam.

3. if native language is not English, pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 550.

Exceptions to these requirements may be granted by the Dean of the College of Business and Professional Studies or the Dean's designee.

Admission application forms may be obtained from the College of Business and Professional Studies. Admission is not required for business minors, but students planning to earn a minor in business must declare their intent, in writing, to the College in order to be approved to take the requisite courses. Second degree students, those seeking to earn a BBA, must apply to the College of Business and Professional Studies. Students from other areas of study within the University may take courses within the College of Business and Professional Studies with the written consent of the College Dean, or Dean's designee.

Admission to Grand Canyon University does not guarantee acceptance into the College of Business and Professional Studies.

Note: The direct transfer plan from accredited community colleges does not apply to the College of Business and Professional Studies programs.

INTERNSHIP GUIDELINES

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

Guidelines for a Business Internship:

1. Internships are limited to students who:
   a: have been admitted to the College of Business and Professional Studies
   b: have completed at least 60 semester hours
   c: have a cumulative GPA of 3.0 or higher, and
   d: have successfully completed CIS 301, FIN 301, MGT 301, and MKT 301.

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

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

4. 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.

5. At the end of the semester, interns will receive a grade of either credit ("S") or non credit ("U"). This determination is made by the Director of the Internship Program and the written evaluation of the intern's supervisor in the organization sponsoring the internship.

CERTIFICATE PROGRAMS

The following represent two certificate programs to enhance depth in specific areas. These certificates represent three elective courses (9 hours) above the principle courses and required courses within the major.

Computer Information Systems Certificate

All majors would complete the following electives:

CIS 302 Database and Decision Support Systems
CIS 303 System Analysis and Design
CIS 304 Designing Business Web Pages

Global Business Certificate

Business Administration majors would complete the following elective courses:

BUS 429 International Business Practicum
FIN 425 International Trade and Finance
MKT 425 International Marketing

Accounting or Marketing majors would complete the following elective courses:

BUS 306 International Business II
BUS 429 International Business Practicum
FIN 425 International Trade and Finance

DEGREE REQUIREMENTS
GENERAL CURRICULUM FOR DIVISION OF BUSINESS STUDIES
UNDERGRADUATE DEGREES

University Liberal Arts Foundation Requirements	51-52 hours
Lower Division Business Core	6 hours
Upper Division Business Core	27 hours
Major Concentration	18-24 hours
Electives	19-25 hours
Total General Curriculum Requirements	**128 hours**

UNIVERSITY LIBERAL ARTS FOUNDATION
COLLEGE OF BUSINESS AND PROFESSIONAL STUDIES

As previously indicated, the University Liberal Arts Foundation for the College of Business and Professional Studies differs from the University Liberal Arts Foundation found on page 30. Students majoring in the College of Business must complete all requirements listed below as part of the ULAF for the College of Business and Professional Studies. Changes and additional requirements are indicated by italicized print.

I. Christian Perspectives **6 hours**

Track 1: BIB 113 Old Testament History (3)
AND
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND
One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication **15-17 hours**

A. English — 9 hours*
Δ ENG 101 Academic Writing (3)
Δ ENG 102 Research Writing (3)
Δ *BUS 307 Business Communication (3)*
OR
Δ ENG 103 Honors Composition (3)
English Elective (3)
Δ BUS 307 Business Communication (3)

B. Speech — 3 hours
SPC 113 Fundamentals of Speech (3)

C. Computer Literacy — 3 hours
CIS 180 Computer Information Systems Modules (3)
Accounting majors:
CIS 180B Beginning Spreadsheets (1)
CIS 180J Accounting Applications (1)

III. Heritage **6 hours**

A. History — 3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)

B. Literary and Philosophical Tradition — 3 hours
Any literature course with an "ENG" prefix or any philosophy course with a "PHI" prefix

IV. Personal and Social Environment **9-12 hours**

ECN 201 Macroeconomic Principles (3)
ECN 202 Microeconomic Principles (3)
Accounting majors:
Any geography, political science, psychology, sociology, or foreign language course (3)
Business Administration and Marketing majors:
PSY 101 General Psychology (3)
SOC 101 Introduction to Sociology (3)

V. Mathematical Inquiry **6 hours**

MAT 121 College Algebra (3)**
BUS 251 Business Statistics (3)

VI. Scientific Inquiry **4 hours**

Any biology (BIO), chemistry (CHM), geology (GLG), or physics (PHY) course which contains a laboratory component (4)

VII. Fine Arts **3 hours**

Any art, music, or theatre course (3)

Total University Liberal Arts Foundation Requirement for the College of Business **49-54 hours**

As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as WI in the catalog descriptions will count toward meeting this requirement. While each college designates which courses

are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers, and receive a grade for the effectiveness of the written assignments.

* Students whose ACT or SAT scores place them into ENG 103 Honors Composition (3) must also complete an additional three hours upper division ENG elective to fulfill College of Business requirements for English.

** Calculus is recommended for those students who intend to pursue a program of graduate study.

Δ Writing-Intensive course

LOWER DIVISION BUSINESS CORE — ALL BUSINESS MAJORS

ACC	211	Financial Accounting	3 hours
ACC	212	Managerial Accounting	3 hours
		Total Lower Division Business Hours	**6 hours**

UPPER DIVISION BUSINESS CORE — ALL BUSINESS MAJORS

BUS	305	International Business I	3 hours
BUS	310	Business Law I	3 hours
BUS	318	Ethical Issues in Business and Society	3 hours
Δ BUS	480	Strategic Management	3 hours
CIS	301	Principles of Information Systems	3 hours
FIN	301	Fundamentals of Business Finance	3 hours
MGT	301	Principles of Management	3 hours
MGT	310	Production and Oper. Management	3 hours
MKT	301	Principles of Marketing	3 hours
		Total Upper Division Business Core Hours	**27 hours**

Δ Writing-Intensive course

DEGREE REQUIREMENTS — ACCOUNTING (B.B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for Business			51 hours
Lower Division Business Core			6 hours
Upper Division Business Core			27 hours
Free Electives			20 hours
Accounting Core			
ACC	321	Intermediate Accounting I	3 hours
ACC	322	Intermediate Accounting II	3 hours
ACC	331	Cost Accounting	3 hours
ACC	332	Advanced Cost Accounting	3 hours
ACC	383	Advanced Accounting	3 hours
ACC	429	Corporate Taxation	3 hours
ACC	430	Accounting Information Systems	3 hours
Elective from the following:			3 hours
ACC	401	Financial Statement Analysis (3)	
ACC	495	Accounting Theory (3)	
BUS	411	Internship (3)	
FIN	402	Intermediate Finance (3)	
		Total Degree Hours	**128 hours**

DEGREE REQUIREMENTS — BUSINESS ADMINISTRATION (B.B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for Business			52 hours
Lower Division Business Core			6 hours
Upper Division Business Core			27 hours
Free Electives			25 hours
Business Administration Core			
ACC	331	Cost Accounting	3 hours
BUS	306	International Business II	3 hours
BUS	315	Business Law II	3 hours
FIN	402	Intermediate Finance	3 hours
MGT	415	Organizational Behavior	3 hours
Any advanced marketing course			3 hours
		Total Degree Hours	**128 hours**

DEGREE REQUIREMENTS — MARKETING (B.B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for Business			52 hours
Lower Division Business Core			6 hours
Upper Division Business Core			27 hours
Free Electives			19 hours
Marketing Core			
MKT	302	Buyer and Consumer Behavior	3 hours
MKT	304	Promotion and Advertising	3 hours
MKT	305	Market Trends and Issues	3 hours
MKT	425	International Marketing	3 hours
MKT	440	Marketing Research and Reporting	3 hours
MKT	480	Marketing Management	3 hours
Electives from the following			6 hours
BUS	315	Business Law II (3)	
BUS	411	Internship (3)	
BUS	429	International Business Practicum (3)	
MKT	303	Sales and Sales Management (3)	
MKT	409	Retailing and e-tailing (3)	
		Total Degree Hours	**128 hours**

MINOR REQUIREMENTS — BUSINESS

Required Business Minor Core:			
ACC	211	Financial Accounting	3 hours
ACC	212	Managerial Accounting	3 hours
ECN	201	Macroeconomic Principles OR	
* ECN	202	Microeconomic Principles	3 hours
FIN	301	Fundamentals of Business Finance	3 hours
MGT	301	Principles of Management	3 hours
MKT	301	Principles of Marketing	3 hours
		Total Hours for Minor	**18 hours**

* Will not fulfill both ULAF and business minor requirements. Students are encouraged to take ECN 201 as part of the ULAF and ECN 202 for the business minor.

COURSE DESCRIPTIONS

ACCOUNTING

ACC 211 — **3 hours**
Financial Accounting

Every semester. An introduction to the fundamental principles and practices of financial accounting, and the construction of financial statements.

ACC 212 — **3 hours**
Managerial Accounting

Every semester. Continuation of ACC 211. An introduction to the use of managerial accounting data in the decision-making process. Prerequisite: ACC 211.

ACC 321 — **3 hours**
Intermediate Accounting I

Every Fall. An in-depth study of accounting objectives, principles, theory, and practice as related to assets and income determination. Prerequisites: ACC 212 and admission to the College of Business.

ACC 322 — **3 hours**
Intermediate Accounting II

Every Spring. Continuation of ACC 321. An examination of liabilities and owners' equity, special problems in income determination, and financial reporting. Prerequisite: ACC 321.

ACC 331 **3 hours**
Cost Accounting

Every Fall. A study of principles of internal accounting, including job order systems, activity-based costing and budgeting. Prerequisites: ACC 212 and admission to the College of Business.

ACC 332 **3 hours**
Advanced Cost Accounting

Every Spring. Continuation of ACC 331. A study of technical management accounting topics designed for the accounting major. Prerequisite: ACC 331.

ACC 383 **3 hours**
Advanced Accounting

Every Spring. A study of accounting theory as it applies to partnerships and business combinations, international accounting, and governmental accounting. Prerequisite: ACC 322.

ACC 401 **3 hours**
Financial Statement Analysis

Fall 2003, and alternate years. A detailed analysis and interpretation of a firm's three principle financial statements. Special focus is placed on the accounting principles used in the statements. Prerequisites: FIN 301 or ACC 321.

ACC 429 **3 hours**
Corporate Taxation

Every Spring. A study of the theory and practices of accounting for income taxes of corporations, partnerships, estates, and trusts. Prerequisite: ACC 322.

ACC 430 **3 hours**
Accounting Information Systems

Every Fall. 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: CIS 180J and CIS 301.

ACC 495 **3 hours**
Accounting Theory

Fall 2003, and alternate years. An exploration of financial accounting theory and its role in current accounting practice. Prerequisite: ACC 322.

BUSINESS

BUS 251 **3 hours**
Business Statistics

Every semester. 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 121 or equivalent.

BUS 305 **3 hours**
International Business I

Every semester. 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: Admission to the College of Business, MGT 301, and FIN 301.

BUS 306 **3 hours**
International Business II

Every Spring. A micro study of organization, management, and control issues in international operations, including market research, country evaluation and selection criteria, business entry, product service mix, distribution systems and sourcing, and production and export strategies. Prerequisite: BUS 305.

BUS 307Δ **3 hours**
Business Communications

Every semester. This course provides practice in writing effective business letters, memos, and reports. Emphasis is on effective written communication as it applies to human relations in business and as a managerial approach to effective communication. A Writing-Intensive course. Prerequisites: ENG 101 and ENG 102.

BUS 310 **3 hours**
Business Law I

Every semester. 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 315 **3 hours**
Business Law II

Every Spring. Continuation of BUS 310. Included in this course is the study of partnerships, corporations, sales, commercial paper, credit, and government regulations and agencies.

BUS 318 **3 hours**
Ethical Issues in Business and Society

Every semester. 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 411 **1 - 3 hours**
Business Internship

Every semester. An opportunity for students to practice principles learned in the classroom by working in an organization under the supervision of a practitioner. Prerequisites: Admission to the College of Business and permission of the Director of the Internship Program.

BUS 418 **3 hours**
Entrepreneurship

On demand. Development of business plans, preparation of financial packages, and evaluation of opportunities, risks, and problems associated with business development. Prerequisites: Admission to the College of Business, MGT 301, MKT 301, FIN 301.

BUS 429 **3 hours**
International Business Practicum

Every year. This practicum allows students to participate in a Phoenix residential in January or a foreign residential in May. Designed for students interested in intercultural diversity and its impact on group dynamics. Residentials are one or two weeks in duration, and participation is required at all activities. Prerequisites: Admission to the College of Business and instructor's approval.

BUS 480Δ **3 hours**
Strategic Management

Every semester. A capstone case course in business. Focuses on identification and analysis of general management problems in order to formulate policy recommendations to meet the needs of a general manager. A Writing-Intensive course. Prerequisites: MKT 301, MGT 301, FIN 301, MGT 310, CIS 301, senior status, and instructor's approval.

BUS 499 **1 - 3 hours**
Independent Study

On demand. See page 25.

COMPUTER INFORMATION SYSTEMS

CIS 180 **1 hour modules**
Computer Application Modules

Every semester. 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:

A. Word Processing
B. Beginning Spreadsheet
C. Beginning Database
D. Desktop Publishing
E. Intermediate Spreadsheet

H. Intermediate Word Processing
I. Accounting Applications
J. Presentation Graphics

Prerequisites: CIS 180D and CIS 180H require CIS 180A, or instructor's permission; CIS 180E requires CIS 180B; CIS 180J requires ACC 211.

CIS 301 **3 hours**
Principles of Information Systems

Every semester. An introductory course covering the fundamental principles of information systems. Integrates topics of management, organization, information, technology, and the systems approach. Emphasizes the planning, design, and implementation of information systems to aid decision making. Prerequisites: Three units of CIS 180 and admission to the College of Business.

CIS 302 **3 hours**
Database and Decision Support Systems

Every Fall. An in-depth examination of database systems and the various computer-based support systems that are used to aid decision making. Systems examined include 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: CIS 301.

CIS 303 **3 hours**
Systems Analysis and Design

Every Spring. An understanding of 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. Prerequisites: CIS 301.

CIS 304 **3 hours**
Designing Business Web Pages

Every Spring. Designing and evaluating 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. Prerequisites: CIS 301.

ECONOMICS

ECN 201 **3 hours**
Macroeconomics Principles

Every semester. A survey of how basic economic concepts, principles, and business practices are viewed from a macroeconomic approach. The course includes an overview of the American economy, national production, employment, and income. Also included is a study of the monetary and fiscal policy in the United States, the public sector, and economic growth. Macroeconomics and Microeconomics may be taken in any order. Prerequisite: MAT 120 or equivalent.

ECN 202 **3 hours**
Microeconomics Principles

Every semester. A microeconomics introduction covering prices and competition, non-price competition, income distribution, current domestic problems, international trade, and comparative systems. Microeconomics and Macroeconomics may be taken in any order. Prerequisite: MAT 120 or equivalent.

FINANCE

FIN 301 **3 hours**
Fundamentals of Business Finance

Every semester. 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. Prerequisite: Admission to the College of Business.

FIN 402 **3 hours**
Intermediate Finance

Every Spring. 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 **3 hours**
International Trade and Finance

Every Fall. 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.

MANAGEMENT

MGT 301 **3 hours**
Principles of Management

Every semester. An introductory course which deals with management in general and the basic management processes and functions in particular. Focuses on real-world management situations concerned with planning, organizing, leading, and controlling. Prerequisite: Admission to the College of Business.

MGT 310 **3 hours**
Production and Operations Management

Every semester. An introduction to designing, planning, operating, and controlling productive 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. Prerequisite: MGT 301, and admission to the College of Business.

MGT 415 **3 hours**
Organizational Behavior

Every Fall. A study of the interpersonal relations between individuals and groups in an organizational setting. The problems that arise out of these relations are analyzed and evaluated using the case method approach. Prerequisite: MGT 301.

MARKETING

MKT 301 **3 hours**
Principles of Marketing

Every semester. A survey of the marketing mix and marketing concept; analysis of 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. Prerequisite: Admission to the College of Business.

MKT 302 **3 hours**
Buyer and Consumer Behavior

Every Fall. 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 **3 hours**
Sales and Sales Management

Spring 2003, and alternate years. The application of 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 **3 hours**
Promotion and Advertising

Every Spring. 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 305 **3 hours**
Market Trends and Issues

Every Fall. A survey of the ever-changing variables affecting today's marketing mix. Topics include new product/new services/brand development; ethical and creative strategies; innovation/visionary strategies; and the integration of the marketing mix in tomorrow's world. Prerequisite: MKT 301.

MKT 409 **3 hours**
Retailing and e-tailing

Fall 2003, and alternate years. A study of 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 **3 hours**
International Marketing

Every Spring. 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. Prerequisites: MKT 301 and BUS 305.

MKT 440 **3 hours**
Marketing Research and Reporting

Every Fall. An introduction of 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: MKT 301 and BUS 251.

MKT 480 **3 hours**
Marketing Management

Every Spring. A manager's view to 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. Prerequisites: MKT 301 and MGT 301.

DIVISION OF PROFESSIONAL STUDIES

The Division of Professional Studies offers adult-oriented, professional development programs designed for individuals who are seeking to complete the requirements for a Bachelor of Science degree in an economically viable program that is designed to accommodate their busy personal and professional schedules.

DIVISION DESCRIPTION

The Bachelor of Science degrees in Applied Management, Organizational Sociology, and Public Safety Administration are degree completion programs offered only through the College of Business and Professional Studies. These programs are innovative, convenient, and cost-effective, allowing students to complete a regionally accredited B.S. degree in about 14 months. All courses are delivered in a seminar, open discussion format. The classes are facilitated by advanced-degreed professionals, specialists in the areas in which they teach. The concepts learned in the classroom can be immediately applied to one's work and personal life. Students in these programs design, implement, and evaluate an applied research project related to their occupations or communities. The project facilitates problem-solving, research design and methodology, and writing skills.

The programs consist of 36 semester hours of coursework, which are completed in 57 weekly, four-hour class sessions. These credits, combined with the number of credits transferred into the program from regionally accredited institutions and the number of credits earned through the portfolio evaluation process (prior learning), complete the 128 hour minimum requirement for a baccalaureate degree from Grand Canyon University.

ADMISSION INFORMATION

Students first must be accepted for admission by Grand Canyon University with 24 transferable credit hours from a regionally accredited academic institution. Following admission to the University, students must be admitted into the College of Business and Professional Studies before they can be considered for the Bachelor of Science degree in Applied Management, Organizational Sociology, or Public Safety Administration degrees.

Applicants for the degree completion programs must be at least 25 years of age; if less than 25, they may only be admitted with permission of the Dean and program director. They must also have either a minimum of two years (60 semester hours) of credit from a regionally accredited college or university or 51 transfer hours along with 9 semester hours in general education to be taken at Grand Canyon University. The transfer work must contain at least six hours of college-level English. Exceptions to the transfer policy may be made only with the permission of the Dean or program director. Applicants should also possess professional training and life experiences for which equivalent college credit can be awarded.

Interested students should complete the following steps:

1. Request an application packet from the University Admission Office or the College of Business and Professional Studies.

2. Call the College of Business and Professional Studies (602-589-2531) and set up an appointment with a representative to review your transcripts and determine your preliminary eligibility for the program. You will need unofficial copies of your transcripts for the appointment.

3. Submit a completed and signed Application for Admission along with a $50 non-refundable processing fee to:

   Grand Canyon University
   3300 West Camelback Road
   PO Box 11097
   Phoenix, AZ 85061-1097

4. Submit a completed Health History Form, accompanied by verification of current Measles, Mumps, and Rubella (MMR) immunization to the Office of Admission at the above address. If born on or after January 1, 1957, students must present documented evidence of immunization against or immunity to measles and rubella before they will be allowed to attend classes. University policy requires either a doctor's statement, a blood titre showing immunity, or a copy of a health department card as proof of immunizations. Measles information must include two measles or MMR immunizations — one at 15 months of age and one after 1980.

5. Request official transcripts from all previous colleges or universities attended to be sent to the Office of Admission. Applicants are not permitted to disregard their records of enrollment at other institutions. The transcripts must be mailed directly from the issuing institution to the Office of Admission. Applicants may use the Request for Official Transcript forms enclosed in the application packet.

Students who have completed work at institutions outside of the United States must have their transcripts evaluated by an approved credentials evaluation service. An additional fee, payable to the credentials evaluation service, is required. Brochures describing in detail the approved evaluation services and the fees incurred are available from the Office of Admission.

Once the above information is received, applicants will be notified of their status. Accepted applicants will need to select an available class night and must make arrangements to attend the College of Business and Professional Studies Orientation Program (normally held one week prior to the start of courses).

GRADUATION REQUIREMENTS

The College of Business and Professional Studies faculty and staff are available to advise students and develop a comprehensive degree plan designed to facilitate completion of academic requirements for the Bachelor of Science degree in the most effective manner. However, responsibility for selecting courses and maintaining normal progress toward graduation ultimately rests with the student.

UNDERGRADUATE PROGRAMS

The graduation requirements for the Bachelor of Science in Applied Management, Organizational Sociology, and Public Safety Administration, consist of three areas:

University Liberal Arts Requirements	35 hours
Applied Management, Organizational Sociology or Public Safety Administration Core Requirements	36 hours
Elective Requirements	57 hours
Total	**128 hours**

UNIVERSITY LIBERAL ARTS FOUNDATION REQUIREMENTS FOR APPLIED MANAGEMENT, ORGANIZATIONAL SOCIOLOGY, AND PUBLIC SAFETY ADMINISTRATION

The University Liberal Arts Foundation for the Professional Studies can be found in a separate brochure housed at the College of Business and Professional Studies.

DEGREE OFFERINGS*

Applied Management Core:

CCS 430	Group Dynamics	3 hours
ΔCCS 431	Portfolio Assessment	3 hours
CCS 432	Systems Concepts	3 hours
Δ CCS 433	Research Methodology	3 hours
CCS 450	Applied Information Systems	3 hours
CCS 435	Applied Communications	3 hours
ΔCCS 436	Literary Analysis	3 hours
CCS 437	Interpersonal Skills	3 hours
CCS 438	Human Resources	3 hours
CCS 439	Leadership Theories	3 hours
CCS 440	Ethical Decision Making	3 hours
CCS 441	Professional Research Project	3 hours
	Applied Management Core Hours	**36 hours**

Organizational Sociology Core:

SCS 430	Social Psychology Concepts	3 hours
ΔCCS 431	Portfolio Assessment	3 hours
SCS 450	Sociological Analysis of Organizations	3 hours
ΔSCS 433	Social Research Methods	3 hours
SCS 432	Urban Social Issues	3 hours
SCS 435	Race and Gender Issues	3 hours
ΔCCS 436	Literary Analysis	3 hours
SCS 437	Comparative Social Structures	3 hours
SCS 438	Human Resources	3 hours
SCS 439	Social Leadership Issues	3 hours
SCS 440	Social Ethics	3 hours
SCS 441	Social Research Project	3 hours
	Organizational Sociology Core Hours	**36 hours**

Public Safety Administration Core:

PSA 430	Group Dynamics	3 hours
PSA 451	Human and Community Service Delivery	3 hours
PSA 432	Political and Legal Systems	3 hours
Δ PSA 433	Research Methodology	3 hours
CCS 450	Applied Information Systems	3 hours
ΔCCS 436	Literary Analysis	3 hours
PSA 438	Human Resource Management	3 hours
ΔPSA 441	Professional Research Project	3 hours
PSA 435	Strategic Planning	3 hours
PSA 437	Psychology of Personal Development	3 hours
PSA 439	Leadership in Public Safety	3 hours
PSA 440	Ethics in the Public Safety Environment	3 hours
	Public Safety Administration Core Hours	**36 hours**

Δ Writing-Intensive course

ELECTIVES

Students will need to complete enough electives to meet the 128 semester hour minimum requirement for graduation. Up to 30 hours of electives may be earned through Prior Learning Credit. Additional hours may be completed at a regionally-accredited institution, earned through credit by examination, or taken through traditional courses at Grand Canyon University (traditional student tuition rates apply). (See "Evaluation of Transfer Credit" for additional information.) Total elective hour requirements are 57 hours for the Applied Management, Organizational Sociology, and Public Safety Administration degrees.

GRADE REQUIREMENTS

Students must maintain a 2.5 or higher GPA in the degree completion programs. No course with a grade below "C" will be counted toward graduation requirements in these programs.

COURSE DESCRIPTIONS

APPLIED MANAGEMENT

CCS 430 — **3 hours**
Group Dynamics

This course examines how group behavior affects organizational effectiveness, decision making, conflict resolution, and strategies for efficient group and task management.

CCS 431Δ — **3 hours**
Portfolio Assessment

A course that focuses on the preparation of students' personal portfolios and professional life-learning experiences. A Writing-Intensive course.

CCS 432 — **3 hours**
Systems Concepts

This course analyzes organizations using the systems model, and applies the systems model for solving organizational problems.

CCS 433Δ — **3 hours**
Research Methodology

This course helps students identify problems, review related literature, collect data, and measure objectives in their vocational environment. Students will apply analytical skills to management-related projects. A Writing-Intensive course.

CCS 435 — **3 hours**
Applied Communications

This course deals with the fundamentals and application of writing and presentation used in formal settings in the professional environment.

CCS 436Δ — **3 hours**
Literary Analysis

This course surveys the content, background, genre, and significance of literature using the Bible as the foundational text. A Writing-Intensive course.

CCS 437 **3 hours**
Interpersonal Skills

This course examines work relationships through the use of effective verbal and non-verbal applications and feedback skills. Looks at constructive ways of dealing with anger and conflict.

CCS 438 **3 hours**
Human Resources

This course explores values and perceptions of groups that affect recruiting, training, and evaluation, as well as current legal issues in human resources.

CCS 439 **3 hours**
Leadership Theories

This course provides an overview of motivation theory relating to individual and group functioning in organizations. Leadership styles and their impact on productivity are examined.

CCS 440 **3 hours**
Ethical Decision Making

This course explores philosophies of life, ethical theories, and values as a base of ethics and accountability in business and as a responsible lifestyle.

CCS 441 **3 hours**
Professional Research Project

This course requires students to implement theories and concepts in individual projects that apply to the students' occupations or vocations. Each program has its own emphasis in its research projects.

CCS 450 **3 hours**
Applied Information Systems

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.

ORGANIZATIONAL SOCIOLOGY

SCS 430 **3 hours**
Social Psychology Concepts

This course examines patterns of social interaction, norms, roles, and collective behavior. Intensive and critical analyses of the concepts of sociology are emphasized.

CCS 431Δ **3 hours**
Portfolio Assessment

A course that focuses on the preparation of students' personal portfolios and professional life-learning experiences. A Writing-Intensive course.

SCS 432 **3 hours**
Urban Social Issues

This course provides an analysis of the growth and problems in urban America from a social systems perspective.

SCS 433Δ **3 hours**
Social Research Methods

This course explores methods of sociological research, including the fundamental assumptions underlying research and practical experience in research design and data collection and analysis techniques. A Writing-Intensive course.

SCS 435 **3 hours**
Race and Gender Issues

This course explores how race and gender factors impact and influence organizational behaviors.

CCS 436Δ **3 hours**
Literary Analysis

This course surveys the content, background, genre, and significance of literature using the Bible as the foundational text. A Writing-Intensive course.

SCS 437 **3 hours**
Comparative Social Structures

This course provides social and cultural system comparisons. Roles, status, and social development in contemporary America are examined.

SCS 438 **3 hours**
Human Resources

This course explores values and perceptions of groups that affect recruiting, training, evaluation, and current legal issues in human resources.

SCS 439 **3 hours**
Social Leadership Issues

This course focuses on social theory in relation to individual leadership, group leaders, and organizational functioning within the context of greater social theory.

SCS 440 **3 hours**
Social Ethics

This course explores case issues and philosophies as they relate to social ability in society at large.

SCS 441 **3 hours**
Social Research Project

This course requires students to implement theories and concepts in individual projects that apply meta-sociology to students' occupations or vocations.

SCS 450 **3 hours**
Sociological Analysis of Organizations

This course introduces a variety of sociological paradigms on formal organizations, including rational, environmental, institutional, cultural and historical perspectives. These ideas will then be applied to analyzing contemporary organizations, including those in which the students are currently involved.

PUBLIC SAFETY ADMINISTRATION

PSA 430 **3 hours**
Group Dynamics

This course examines how group behavior affects organizational effectiveness, decision-making, conflict resolution and strategies for efficient group and task management.

PSA 432 **3 hours**
Political and Legal Systems

An analysis and application of the legal system's model for understanding governmental, legal, and operational problems via the application of systems theory.

PSA 433Δ **3 hours**
Research Methodology

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 **3 hours**
Strategic Planning

This course deals with the fundamentals and application of strategic analysis and planning in public safety.

CCS 436Δ **3 hours**
Literary Analysis

This course surveys the content, background, genre, and significance of literature using the Bible as the foundational text. A Writing-Intensive course.

PSA 437 **3 hours**
Psychology of Personal Development

This course examines personal and professional relationships through the use of effective verbal and non-verbal skills.

PSA 438 **3 hours**
Human Resource Management

This course explores values and perceptions of groups that affect recruiting, training, retention, evaluation, and current legal issues in human resources.

PSA 439 **3 hours**
Leadership in Public Safety

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 **3 hours**
Ethics in Public Safety

This course explores case issues and philosophies as they relate to accountability in the public safety environment.

PSA 441 **3 hours**
Professional Research Project

This course requires students to implement research theory and concepts in their individual research projects, which are related to public safety issues. The student is required to prepare and present the findings of their applied research project.

CCS 450 **3 hours**
Applied Information Systems

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 451 **3 hours**
Human & Community Service Delivery

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.

ULAF ELECTIVES FOR PROFESSIONAL STUDIES

CCS 101 **3 hours**
Introduction to Philosophy

This course is an introduction to the discipline of philosophy through a study of representative philosophical 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?

CCS 104 **3 hours**
Recent American History

This course deals with problems in the wake of the Civil War, postwar expansion, the Industrial Revolution in America, and its transition to a world power. The seminar's focus will be flexible, requiring out of class work coupled with discussions and informal oral presentations.

CCS 130 **3 hours**
Contemporary Math

This course will meet the math requirement for students in Professional Studies. Topics include: The real number system, mathematics of finance, basic descriptive statistics, metric system, and introduction to number theory.

CCS 253 **3 hours**
Christianity and Literature

This course explores the works of Christian authors with the goal of integrating Christian belief and literary study. The seminar's focus will be flexible, requiring out of class work coupled with discussions and informal oral presentations.

CCS 260 **4 hours**
Biochemistry

This course is an introduction to both the concepts of organic chemistry and biochemistry. Course includes a laboratory experience.

CCS 308 **3 hours**
Pathophysiology for Health Care Professionals

This course is designed to enhance the understanding and recognition of the pathology of the disease process.

CCS 361 **3 hours**
Valley Theatre Tours

This course is a study of valley theatres and their productions. Students will study dramatic criticism as well as attend productions and evaluate the performances.

CCS 363 **3 hours**
Introduction to Statistics

This course is designed to cover the basic principles of statistical analyses and the underlying assumptions of these analyses.

GRADUATE PROGRAMS

The College of Business and Professional Studies offers two graduate degrees: The Master of Business Administration and the Master of Science in Executive Fire Service Leadership.

MBA ADMISSION REQUIREMENTS

All holders of baccalaureate degrees from accredited institutions are welcome to apply. Candidates must apply to both the University and to the College of Business and Professional Studies.

1. Candidates must submit an application for admission, official transcripts of all prior coursework, and their score on the Graduate Management Admissions Test (GMAT).
2. Candidates are admitted based on their undergraduate GPA, GMAT scores, professional experience, and results of a personal interview with the Associate Dean for Graduate Programs or his/her designee.
3. Applicants whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL) with a minimum score of 575.
4. Applicants whose undergraduate studies do not include foundational work in business, such as finance and accounting, have an opportunity to take preparatory graduate courses in these areas (see page 49) to prepare them for advanced coursework.

MBA GRADUATION REQUIREMENTS

1. Participants must maintain an overall minimum GPA of 3.00 on a scale of 4.00.
2. Participants must enroll in a minimum of one course during each academic year, and all requirements for graduation must be completed within five years from the date of initial enrollment in the M.B.A. program.
3. Extensions of these times may be granted for cause, upon written petition to the Associate Dean for Graduate Programs.

TRANSFER CREDITS

A maximum of 12 semester hours of graduate credit, with grades of "B" (3.00 on a 4.00 scale) or better, will be accepted from other accredited graduate programs, provided the courses:

1. are the equivalent of courses at Grand Canyon University in content, level, and length of semester.
2. have been completed within five years prior to initial registration in the M.B.A. Program at Grand Canyon University.
3. have been pre-approved by the Associate Dean for Graduate Programs, if taken after enrollment in the M.B.A. Program at Grand Canyon University.

COURSE WAIVERS

Participants who demonstrate a high level of competence in an area covered by a core course may petition in writing to waive that course. Petitions must be received by the Associate Dean for Graduate Programs prior to the beginning of the course in question.

Participants requesting a waiver will be required to take a test equivalent to a comprehensive course final examination and must earn a grade of "B" or better on the test to waive the course.

Individuals who hold CMA certification, or those who hold CPA certification and have completed a course in Cost Accounting within the past five years with a grade of "B" or higher, will automatically receive a waiver for ACC 605 Managerial Accounting.

A waived course must be replaced with an additional elective course.

INTERNATIONAL OPPORTUNITIES

For those candidates interested in international business, one week "residentials" are held every May in a foreign country and every January in Phoenix. See BUS 629 International Business Practicum. Information will be provided by the Associate Dean for Graduate Programs.

DEGREE REQUIREMENTS – MASTER OF BUSINESS ADMINISTRATION

Master of Business Administration Core			
ACC	605	Managerial Accounting	3 hours
BUS	601	Quantitative Methods in Business	3 hours
BUS	604	Business Ethics and Society	3 hours
CIS	603	Information Systems	3 hours
ECN	607	Managerial Economics	3 hours
FIN	608	Managerial Finance	3 hours
MGT	602	Organizational Theory and Behavior	3 hours
MGT	609	Strategic Management	3 hours
MKT	606	Marketing Management	3 hours
Electives from the following			9 hours
ACC	611	Auditing I (3)	
ACC	612	Auditing II (3)	
ACC	617	Individual Taxation (3)	
ACC	619	Accounting Theory (3)	
ACC	620	Financial Statement Analysis (3)	
BUS	615	Business Law Seminar (3)	
BUS	624	Entrepreneurship (3)	
BUS	626	International Business (3)	
CIS	632	Web Design and Analysis (3)	
MGT	613	Operations Strategy (3)	
MGT	621	Project Management (3)	
MGT	623	Organizational Development (3)	
MGT	625	Business Leadership Concepts and Theories (3)	
MGT	626	Business Leadership Applications (3)	
MGT	631	Organizational Design for the Internet (3)	
MKT	633	Marketing on the Internet (3)	
Total Master of Business Administration Hours			**36 hours**

MASTER OF BUSINESS ADMINISTRATION — AREAS OF CONCENTRATION

An area of concentration is not required but is available for students who wish to specialize in a particular field. The requirement for a concentration is to take three elective courses (nine semester hours) in one area as listed below:

CONCENTRATION IN CYBER-BUSINESS:

CIS	632	Web Design and Analysis (3)
MGT	631	Organizational Design for the Internet (3)
MKT	633	Marketing on the Internet (3)

CONCENTRATION IN LEADERSHIP

MGT	623	Organizational Development
MGT	625	Business Leadership Concepts and Theories (3)
MGT	626	Business Leadership Applications (3)

COURSE DESCRIPTIONS

GRADUATE PREPARATION COURSES

The following 500-level courses are designed for graduate students who need or desire preparatory work in finance, accounting, or quantitative analysis.

ACC 501 — 3 hours
Accounting Practices

On demand. This course is designed for individuals who are preparing for more advanced coursework in accounting. Topics covered include the principles and practices of financial accounting and the fundamentals of managerial accounting.

FIN 501 — 3 hours
Financial Analysis

On demand. This course is designed for individuals who are preparing for more advanced coursework in finance and quantitative methods. Topics include financial analysis, financial planning, asset valuation, capital structure, and working capital management.

GRADUATE COURSES

ACC 605 — 3 hours
Managerial Accounting

Every Spring. A study of the accounting concepts used in management decision-making. Topics emphasized include procedures for internal reporting and evaluating results, profit planning, cost control, and budgeting. Prerequisites: ACC 211 and ACC 212, or ACC 501 or its equivalent, and graduate standing.

ACC 611 — 3 hours
Auditing I

On demand. A study of the principles involved in the examination of financial statements by independent accountants including sampling techniques, audit program development and use, and reporting. Professional code of ethics and legal considerations are also covered. Prerequisite: ACC 321 and graduate standing.

ACC 612 — 3 hours
Auditing II

On demand. A study of the principles involved in internal auditing. Includes internal controls, the responsibilities and authority of the internal audit function, and the types of audits conducted by internal auditors. Forensic accounting will also be covered. Prerequisite: ACC 321 and graduate standing.

ACC 617 — 3 hours
Individual Taxation

On demand. An examination of the fundamentals of federal income taxation of individuals, including current tax law, basic research, and tax planning methods. Computerized tax preparation will be included. Prerequisite: ACC 211, ACC 212 and graduate standing.

ACC 619 — 3 hours
Accounting Theory

On demand. An examination of the central issues which arise in the application of accounting concepts to situations encountered in business. Readings, case studies, and group and individual projects will be used to explore the role of financial and managerial accounting theories in current practice. Prerequisites: Graduate standing and 12 semester hours of accounting.

ACC 620 — 3 hours
Financial Statement Analysis

On demand. An analysis and interpretation of corporate financial reports. Topics include the form, content, and general accounting principles governing the construction of financial statements; valuation, classification, and income determination problems; the methods of analyzing and interpreting financial data; and the utility and limitations of financial accounting data. Prerequisites: Graduate standing and 12 semester hours of accounting or finance.

BUS 601 **3 hours**
Quantitative Methods in Business

Every Fall. A study of the statistical and other quantitative methods used in decision-making. The computer is used extensively in data analysis. Prerequisites: BUS 251 or FIN 501 or its equivalent, and graduate standing.

BUS 604 **3 hours**
Business Ethics and Society

Every Fall. This course explores the role of ethics in the organization. An emphasis is placed on the way ethics affects policy formation and professional conduct in business and society.

BUS 615 **3 hours**
Business Law Seminar

On demand. This course focuses on practical business law issues that arise frequently. It is directed to a limited number of topics that are often misunderstood by business people. Case studies in each area will be discussed in detail, including discussion and analysis of both the legal and factual aspects of more than a single legal issue. Prerequisite: Graduate standing.

BUS 624 **3 hours**
Entrepreneurship

On demand. Opportunities, risks, and problems associated with business development and operation are discussed. Topics include both the design of new ventures and the management of business growth and development. Both domestic and international opportunities are discussed. Prerequisites: MGT 301 or its equivalent, and graduate standing.

BUS 626 **3 hours**
International Business

On demand. This course covers the cultural, social, economic, and political factors important to the management of international business. Also discussed are currency exchange risks, the determination of market potential, assessing host country controls on business, market incentives, and political risk. Prerequisites: MGT 301 or its equivalent, and graduate standing.

BUS 690 **3 hours**
Special Topics in Business

On demand. Special areas of business not covered elsewhere in the graduate curriculum are studied. Topics may vary from semester to semester. May be repeated for credit. Prerequisite: Graduate standing.

CIS 603 **3 hours**
Information Systems

Every Summer. An examination of managerial issues associated with the application of computer-based information systems in the business environment. Within the context of general systems theory and with an applications orientation, the student will examine critical areas of design, development, and analysis of information systems. Prerequisites: CIS 301 or its equivalent, and graduate standing.

CIS 632 **3 hours**
Web Design and Analysis

On demand. A course for business managers designed to acquaint them with the technical issues surrounding the Internet. This class covers such topics as hardware issues, connectivity, the role of outside vendors and ISPs, and the use of software for Web page design. Prerequisite: CIS 603, and graduate standing.

ECN 607 **3 hours**
Managerial Economics

Every Spring. The application of microeconomic principles and techniques of analysis to management decision-making is covered. Areas emphasized include demand analysis, production planning, cost analysis, and product pricing. Optimization techniques are used extensively. Prerequisites: ECN 202, MAT 121, and BUS 251 or their equivalents, and graduate standing.

FIN 608 **3 hours**
Managerial Finance

Every Fall. A study of the finance function within the modern corporation. Emphasis is placed on the workings of capital markets and management actions that impact the determination of security values within capital markets. Topics discussed include financial analysis, working capital management, capital budgeting, and capital structure. Prerequisites: FIN 301 or FIN 501 or its equivalent, and graduate standing.

MGT 602 **3 hours**
Organizational Theory and Behavior

Every Spring. An examination of concepts and applications of behavior in organizations, including the study of motivation, organizational climate, group dynamics, leadership, and decision-making. Prerequisites: MGT 301 or its equivalent, and graduate standing.

MGT 609 **3 hours**
Strategic Management

Every Spring. An examination of the formulation of strategy and policy within the organization, emphasizing the integration of decisions within the various functional areas, ethical considerations of organizational policy, and international aspects of corporate strategy. Extensive use is made of the case method. Prerequisites: MGT 602, MKT 606, FIN 608, and graduate standing.

MGT 613 **3 hours**
Operations Strategy

On demand. An examination of 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. Application of concepts is emphasized. Prerequisite: Graduate standing.

MGT 621 **3 hours**
Project Management

On demand. 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. Prerequisite: ACC 501 or 605, BUS 601, and graduate standing.

MGT 623 **3 hours**
Organizational Development

On demand. An exploration of the behavioral forces and relationships that influence organizational effectiveness and change. Topics include the study of intervention strategy and application skills. Prerequisites: MGT 301 or its equivalent, and graduate standing.

MGT 625 **3 hours**
Business Leadership Concepts and Theories

On demand. This course features an academically challenging exploration of the nature of business leadership models and theories, examining these models through a broad variety of insights and viewpoints. The course provides a description and analysis of these approaches to leadership, giving special attention to how the models can improve leadership in the real-world organization of business. It utilizes a wide diversity of theoretical approaches to leadership designed to act as an orientation to the distinctive art and science of business leadership and a foundation for a study of practical applications in later courses. Prerequisites: Graduate standing.

MGT 626 **3 hours**
Business Leadership Applications

On demand. This course provides an in-depth review of how to understand fully and directly apply several of the more popular business leadership models. The course includes self and peer assessments of business leadership skills leading to organizational effectiveness in both domestic and international environments and cultures. The course analyzes and discusses leadership skills necessary to solve problems individually with support. Also included is how to build teams, as well as how to resolve conflict and other dysfunctional activities in a competitive environment. Prerequisite: MGT 625, and graduate standing.

MGT 631 **3 hours**
Organizational Design for the Internet

On demand. This class covers organizational issues surrounding the use of the Internet in business. Topics discussed include how the Internet fits into the

overall organizational strategy, how its introduction changes the climate within the organization, how an organization can effectively use the Internet for e-commerce, training, video conferencing, and other applications. The evaluation of Internet use based on current organizational structure is emphasized, as well as preparing the organization for change so that the introduction of the Internet can progress smoothly. Prerequisite: MGT 602, CIS 603, and graduate standing.

MKT 606 **3 hours**
Marketing Management

Every Fall. A study of assessing marketing's critical relation in organizational performance, building customer satisfaction, analyzing marketing opportunities, developing marketing strategies, planning marketing programs, writing a marketing plan, and managing the marketing effort. Prerequisite: MKT 301 or its equivalent, and graduate standing.

MKT 628 **3 hours**
International Marketing

On demand. An analysis of current trends and issues facing an international firm's efforts to the marketing mix. The comparisons of language, aesthetics, religions, business customs, and attitudes on the marketing concept and strategies are addressed. Prerequisites: MKT 606, BUS 626, and graduate standing.

MKT 633 **3 hours**
Marketing on the Internet

On demand. The problems and potential of marketing over the Internet are covered. This class focuses on the design of Web pages to make them more appealing to end users, the marketing of the Web site itself to increase its usage, and target marketing as applied to the Web. Prerequisite: MKT 606, and graduate standing,

MASTER OF SCIENCE EXECUTIVE FIRE SERVICE LEADERSHIP

The MSEFSL is an online graduate program for Executive Fire Officers. It is offered in two tracks.

TRACK I-NATIONAL FIRE ACADEMY – GRAND CANYON UNIVERSITY OPTION

The Master of Science in Executive Fire Service Leadership (MSEFSL) program offers an outstanding opportunity for graduates of the National Fire Academy's Executive Fire Officer Program (NFA-EFOP) to complete their graduate degree.

The graduate of the EFOP, or current EFOP student, can transfer the American Council on Education (ACE) graduate credits earned through the NFA-EFOP (a total of 16 credits) to Grand Canyon University and take an additional 21 credits (7 courses, 8 weeks in duration) in the MSEFSL program, completing a rigorous, pertinent, and fully accredited masters degree.

The program is offered entirely online and can be completed in eighteen months. The MSEFSL courses are facilitated by doctorally prepared professors that 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.

TRACK II-GRAND CANYON UNIVERSITY OPTION –

Grand Canyon University now offers a version of the NFA-EFO Program online. The student who cannot attend the NFA on-campus program can complete the entire, 12 course, thirty-six (36) credit hour master's degree online in about two (2) years. This option is offered for the applicant who cannot attend the on-campus, four year EFO Program. This option is also offered entirely online.

More information is available through our web direct connect-www.msefo.com.

GRADUATE PROGRAM ADMISSIONS REQUIREMENTS

Track I-NFA-GCU Option

Prospective students who hold a baccalaureate degree from an accredited institution and have graduated from the Executive Fire Officer Program (EFOP) or have completed the first EFOP Course and the required research project are welcome to apply.

Track II-GCU Option

All holders of baccalaureate degrees from accredited institutions who have experience in the Emergency Services arena and who meet College admission requirements are eligible for admission for the Track II-GCU Option.

Admissions Steps

1. Candidates must submit an application for admission, official transcripts of all prior coursework, and their National Fire Academy Transcript (for those applying for Track I-NFA-GCU Option). Forms available at www.msefo.com.

2. Candidates are admitted based on their undergraduate work, professional/occupational experience, and, in the case of the Track I-NFA-GCU Option, a review of a hard-copy of their best EFOP Applied Research Project.

   Note: EFOP graduates or current eligible EFOP participants will submit a hard-copy of their best EFOP Applied Research Project for review.

3. Applicants whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL) with a minimum score of 575.

4. Track I-NFA-GCU Option applicants must have received a grade of 3.0 or higher on each Applied Research Project (total of 4 projects/4 graduate credits) in order to receive NFA-EFOP American Council on Education (ACE) credits. These records are maintained at the NETC-NFA-EFOP offices.

GRADUATION REQUIREMENTS

1. Participants must maintain an overall minimum GPA of 3.00 on a scale of 4.00.

2. Participants must commit to a cohort model in which they progress in a continuous fashion until degree completion.

3. Students must complete all graduation requirements within a five year period after initial enrollment.

4. Extensions of these times may be granted for cause, upon written petition to the COBPS Dean.

TRANSFER CREDITS

Only successfully completed course work from the NFA-EFOP program can be transferred into the MSEFSL Program. No other graduate level work will be accepted.

COURSE WAIVERS

While this graduate program offers some case-by-case flexibility as to what graduate equivalent courses can be transferred into the Track I-MSEFSL and Track II-MSEFSL, participants are not allowed any other types of course waivers.

DEGREE REQUIREMENTS-MASTER OF SCIENCE IN EXECUTIVE FIRE SERVICE LEADERSHIP

Track I-NFA-GCU Option

- All students participating in the Track I-NFA-GCU Option will transfer

EFL 510 Executive Development (3 hours)
EFL 515 Executive Leadership (3 hours)
EFL 630 Applied Fire Service Research (4 hours)

- All students participating in the Track I-NFA-GCU Option will transfer any two (2) of the following:

EFL 520 Strategic Analysis of Fire Department Operations (3 hours)
EFL 525 Strategic Analysis of Community Risk Reduction (3 hours)
EFL 516 Fire Service Financial Management (3 hours)
EFL 514 Strategic Management of Change (3 hours)
EFL 513 Executive Analysis of Fire Service Operations in Emergency Management (3 hours)
EFL 512 Executive Planning (3 credit hours)

- All student participating in the Track I-NFA-GCU Option and the Track II-GCU Option will take the following courses offered exclusively by Grand Canyon University.

EFL 620 Organization Theory and Behavior (3 hours)
EFL 621 Information Systems (3 hours)
EFL 622 Public Policy (3 hours)
EFL 623 Community and Human Service Delivery (3 hours)
EFL 624 Public Sector Finance (3 hours)
EFL 625 Public Sector Ethics (3 hours)
EFL 626 Advanced Strategic Planning (3 hours)

Track II-GCU Option

Student participants who have not graduated from the NFA-EFOP program and are enrolling in the Track II-GCU option will take the following courses:

EFL 510 Executive Development
EFL 515 Executive Leadership
EFL 520 Strategic Analysis of Fire Department Operations
EFL 525 Strategic Analysis of Community Risk Reduction
EFL 620 Organization Theory and Behavior
EFL 621 Information Systems
EFL 622 Public Policy
EFL 623 Community and Human Service Delivery
EFL 624 Public Sector Finance
EFL 625 Public Sector Ethics
EFL 626 Advanced Strategic Planning
EFL 630 Fire Service Applied Research

COURSE DESCRIPTIONS

EFL 510 **3 hours**
Executive Development

This course examines contemporary fire service issues in a framework of team development and consensus decision making. Course will enhance the current and future fire service executives' ability to effectively and efficiently lead within a dynamic and complex organization by enhancing team development skills. Major topics include team building, project development, research, and problem solving.

EFL 512 **3 hours**
Executive Planning

This course will prepare current and future executive level fire service managers for planning within their departments through the step-by-step process of planning, acquiring, and evaluating a management information system.

- All students participating in the Track I-NFA-GCU Option or the Track II-GCU Option will take the following courses offered exclusively by Grand Canyon University:

EFL 513 **3 hours**
Executive Analysis of Fire Service Operations in Emergency Management

This course will provide the student with an understanding of strategic management principles relevant to commanding and managing incidents involving major fire, life, and property loss.

EFL 514 **3 hours**
Strategic Management of Change

This course will provide the theoretical and skills acquisition education on change management that are required of current and future executive level fire service officers in emergency services organizations. Additionally, the course will provide an understanding of the need for change, as well as a forum and environment in which the student can exchange ideas and individual viewpoints regarding current and future issues relating to change management.

EFL 515 **3 hours**
Executive Leadership

The focus of this course is to develop the ability to conceptualize and employ the key processes used by effective executive level managers. A major focus of the course is on individual preparation and executive skills for leadership.

- All students participating in the Track I-NFA-GCU Option will transfer two (2) of the following:

EFL 516 **3 hours**
Fire Service Financial Management

The purpose of this course is to prepare the student to manage a fire department financial program, including the planning for and design of the financial system, as well as budget preparation, justification, and administration.

EFL 520 **3 hours**
Strategic Analysis of Fire Department Operations

The focus of this course is to enable the student to understand principles of strategic management and apply these principles to the analysis, evaluation, and control of incidents involving major life loss from fires.

EFL 525 **3 hours**
Strategic Analysis of Community Risk Reduction

The purpose of this course is to assist the current and future executive fire officer in the development of his/her leadership skills directed at the important task of injury prevention in an effort to create better and more humane communities.

EFL 620 **3 hours**
Organization Theory and Behavior

This course examines organizations from a sociological perspective, considering structural issues and 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 **3 hours**
Information Systems

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 **3 hours**
Public Policy

The focus of this course is on how public action takes place and primarily on what course(s) of action are available, and on 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 pubic sector and will encourage a familiarity with public issues that will be useful for Fire Service Executives as they make administrative or policy making 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.

EFL 623 **3 hours**
Community and Human Service Delivery

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 **3 hours**
Public Sector Finance

An advanced introduction to the fundamentals of financial management. Emphasis is on 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 **3 hours**
Public Sector Ethics

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 of capitalism; 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 **3 hours**
Advanced Strategic Planning

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 630 **4 hours**
Applied Fire Service Research

The preparation of 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 that 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.

The J. Niles Puckett College of Christian Studies

MISSION STATEMENT

The J. Niles Puckett College of Christian Studies prepares students called to ministry and Christian service; instruct students who want to understand more deeply the theological and philosophical implications of the Christian faith; an supports the University's liberal arts foundation by equipping all students with a working knowledge of the Bible and th Christian worldview.

COLLEGE DESCRIPTION

The J. Niles Puckett College of Christian Studies exists to guide students in challenging learning experiences, t provide them with a strong Biblical foundation for ministry, and to equip them for service in the Christian communit The courses are designed to equip students with an understanding of the Bible and its historical and theologic 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 Christia 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.

Christian Studies students may choose from four traditional degree programs. Each of these degree programs seeks to provide a solid foundation for working with people in all fields of Christian endeavor, as well as to prepare students for seminary. Students should examine and choose the degree program which best fits their goals in ministry.

The Bachelor of Arts in Biblical/Theological Studies degree program is designed to equip students primarily in knowledge of the Bible and theology, either in preparation for seminary or for a ministry emphasizing preaching and teaching of the Bible and its theological truth.

The Bachelor of Arts in Christian Education degree program is designed to equip students primarily in knowledge and skill related to Christian education, either in preparation for seminary or for a ministry of designing and carrying out the Christian education program in, but not limited to, the context of the local church.

The Bachelor of Arts in Creative Arts in Worship degree program is designed to equip students primarily in knowledge and skill related to Christian worship, either in preparation for seminary or for a ministry of designing and leading Christian worship in, but not limited to, the context of the local church.

The Bachelor in Arts in Philosophy degree program is designed to equip students with the tools needed for developing Christian solutions to philosophical and ethical problems. More broadly, the program aims to provide a sound grasp of philosophy in general and to sharpen the analytical skills needed for meaningful participation in philosophy.

The Christian Leadership minor is designed to support the student's major by focusing on transferable management and leadership skills, styles, and models understood within a Christian context. An important facet of this minor is its internship component.

The Christian Studies Minor is designed to provide students with a basic yet fundamentally sound foundation for understanding the essential beliefs and practices of Christianity.

The College of Christian Studies also offers a non-traditional degree completion program in Christian Leadership. The Christian Leadership program at Grand Canyon University adopts a servant leadersh perspective and applies it to 21st Century issues, responding to th particular needs of today's and tomorrow's leaders. The program i designed to sharpen leadership capabilities in any setting, whil introducing and applying Christian ideals to the workplace.

As a graduation requirement, all students must successfully comple four **(three for those students who substitute ENG 103 for ENG 10 and 102)** courses which have been designated as Writing-Intensive. Th purpose of the Writing-Intensive courses is two-fold: to introdu students to genres and styles of writing appropriate to their ow disciplines; and to give students continued practice in writing standa academic English in structuring, drafting, and revising compositio effectively. Two of these courses must be ENG 101 and 102 (or EN 103, which replaces both). At least one of the Writing-Intensi courses must be upper division and from the student's major. On those courses designated as Writing-Intensive in the catalog descriptio will count toward meeting this requirement. While each colle designates which courses are Writing-Intensive, the student in one these classes can expect to produce significant amounts of writin complete multiple drafts which may be reviewed by peers, and receive grade for the effectiveness of the written assignments.

DEGREE REQUIREMENTS — BIBLICAL/THEOLOGICAL STUDIES (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the J. Niles Puckett of Christian Studies (see page 30).

Minor required.

Minor cannot be Christian Studies or Leadership minor.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Note the following modifications in the ULAF requirements:

I. Christian Perspectives: 6 hou

Track 1:

BIB 113 Old Testament History (3) **AND**

BIB 123 New Testament History (3)

IV. Personal and Social Environment: 3 hou

PSY 101 General Psychology (3)

Biblical/Theological Studies Major:

BIB	313	Biblical Interpretation	3 hours
BIB	433	Life and Teachings of Christ	3 hours
BIB	442	The Pentateuch	3 hours
ENG	201	Intermediate Grammar	3 hours
HTH	303	History of Christianity in America	3 hours
HTH	353	History of Christianity	3 hours
HTH	373	Christian Doctrines	3 hours
HTH	463	World Religions	3 hours
MIN	202	Introduction to Ministry	3 hours
MIN	220	Management for Ministry	3 hours
MIN	315	Basic Christian Discipleship	3 hours
MIN	443	Leadership for Ministry	3 hours
Δ MIN	490	Senior Seminar	3 hours
MIN	497	Ministerial Internship	3 hours

Select 12 hours of electives from the following courses: 12 hours

BIB	423	General Epistles and Revelation (3)
BIB	432	Old Testament Prophets (3)
BIB	443	Life and Letters of Paul (3)
BIB	453	Old Testament Poetry (3)
BIB	463	Biblical Backgrounds (3)
BIB	498	Special Topics (3)
BIB	499	Independent Study (1-4)
GRK	274	Beginner's Greek I (4)
GRK	284	Beginner's Greek II (4)
GRK	373	Advanced Greek Grammar I (3)
GRK	383	Advanced Greek Grammar II (3)
HTH	323	Christian Missions (3)
HTH	375	Survey of Contemporary Theology (3)
HTH	498	Special Topics (3)
HTH	499	Independent Study (1-4)
MIN	323	Evangelism (3)
MIN	373	Pastoral Ministry (3)
MIN	383	Homiletics (3)
MIN	498	Special Topics (3)
MIN	499	Independent Study (1-4)
PHI	101	Introduction to Philosophy (3)
PHI	225	Introduction to Ethics (3)

Total Major Hours **63 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — CHRISTIAN EDUCATION (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the J. Niles Puckett College of Christian Studies (see page 30).

Minor required.

Minor cannot be Christian Studies or Leadership minor.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Note the following modifications in the ULAF requirements:

I. Christian Perspectives: **6 hours**

Track 1:

BIB	113	Old Testament History (3) AND
BIB	123	New Testament History (3)

II. Communication **3 hours**

CIS	180B	Beginning Spreadsheet
CIS	180C	Beginning Database
CIS	180D	Desktop Publishing

III. Personal and Social Environment: **6 hours**

PSY	101	General Psychology (3)
SOC	101	Introduction to Sociology (3)

Christian Education Major:

BIB	433	Life and Teachings of Christ	3 hours
BIB	442	The Pentateuch	3 hours
CAW	201	Introduction to Worship	3 hours
ENG	201	Intermediate Grammar **OR**	
ENG	314	English Syntax	3 hours
ΔENG	301	Advanced Composition	3 hours
HTH	303	History of Christianity in America	3 hours
HTH	333	Psychology of Religion	3 hours
HTH	373	Christian Doctrines	3 hours
MIN	202	Introduction to Ministry	3 hours
MIN	213	A Survey of Christian Education	3 hours
MIN	220	Management for Ministry	3 hours
MIN	315	Basic Christian Discipleship	3 hours
ΔMIN	393	Hymnology	3 hours
MIN	443	Leadership for Ministry	3 hours
ΔMIN	490	Senior Seminar	3 hours
MIN	497	Ministerial Internship	3 hours
PSY	341	Lifespan Development	3 hours
SOC	333	Marriage and the Family	3 hours
SOC	498	Advanced Topics In Sociology: Sociology of Religion	3 hours
SPC	311	Advanced Public Speaking	3 hours

Total Major Hours **75 hours**

Δ Writing-Intensive course

DEGREE REQUIREMENTS — CREATIVE ARTS IN WORSHIP (B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for the J. Niles Puckett College of Christian Studies (see page 30).

No minor required.

The student will select one of three core development emphases.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Note the following modifications in the ULAF requirements:

I. Christian Perspectives: **6 hours**

Track 1:

BIB	113	Old Testament History (3) AND
BIB	123	New Testament History (3)

IV. Personal and Social Environment **3 hours**

PSY	101	General Psychology (3)

Creative Arts in Worship Major

ARH	100	Art Appreciation	3 hours
ART	201	Photography	3 hours
CAW	201	Introduction to Christian Worship	3 hours
CIS	180D	Desktop Publishing	1 hour
CIS	180L	Presentation Graphics	1 hour
EDU	313	Educational Psychology	3 hours
HTH	333	Psychology of Religion	3 hours
HTH	373	Christian Doctrines	3 hours
MIN	202	Introduction to Ministry	3 hours
MIN	243	Management for Ministry	3 hours
MIN	315	Basic Christian Discipleship	3 hours
MIN	443	Leadership for Ministry	3 hours
MCH	378	Music in Worship	3 hours
ΔMCH	393	Hymnology	3 hours
MUS	252	Music Appreciation	3 hours
SPC	311	Advanced Public Speaking	3 hours
TRE	270	Christian Drama	3 hours

Total Major Hours **56 hours**

Δ Writing-Intensive course

Select one emphasis:

Music Emphasis

*CAW	300	Worship Participation	4 hours
CAW	410	Worship Internship I - Music Emph.	3 hours
CAW	411	Worship Internship II - Music Emph.	3 hours
MAP	—	Major Applied Instrument or Voice (Italian Diction recommended)	4 hours

MAP —	Secondary Applied Piano or Voice	2 hours
MEN —	Ensemble	3 hours
ΔMIN 490	Senior Seminar	3 hours
MUS 009	Recital Attendance (four semesters required)	0 hours
+ MUS 191A	Aural Perception	2 hours
+ MUS 191B	Harmony **OR**	
+ MUS 105	Fundamentals of Music	2 hours
MUS 381	Conducting I	2 hours
	Total Music Emphasis	**28 hours**

* May not be taken concurrently with Internship.

\+ Must be taken concurrently.

Δ Writing-Intensive course

Speech/Performance Emphasis

*CAW 300	Worship Participation	4 hours
CAW 412	Worship Internship I – Speech/Performance Emphasis	3 hours
CAW 413	Worship Internship II – Speech/Performance Emphasis	3 hours
ΔMIN 490	Senior Seminar	3 hours
SPC 292	Group Discussion	3 hours
SPC 318	Voice and Diction	3 hours
SPC 378	Oral Interpretation of Literature	3 hours
SPC 398	Communications and the Media	3 hours
SPC 420	Readers Theatre Workshop	3 hours
	Total Speech/Performance Emphasis	**28 hours**

* May not be taken concurrently with Internship.

Δ Writing-Intensive course

Theatre Emphasis

* CAW 300	Worship Participation	4 hours
CAW 414	Worship Internship I - Theatre Emph.	3 hours
CAW 415	Worship Intern. II - Theatre Emph.	3 hours
TRE 120	Introduction to the Theatre	3 hours
TRE 140	Stagecraft	3 hours
TRE 150	Acting I	3 hours
TRE 345	Scene Design **OR**	
TRE 440	Stage Lighting and Design	3 hours
TRE 498	Stage Direction	3 hours
ΔMIN 490	Senior Seminar	3 hours
	Total Theatre Emphasis	**28 hours**

* May not be taken concurrently with Internship.

Δ Writing-Intensive course.

Total Major Hours	**84 hours**

DEGREE REQUIREMENTS – PHILOSOPHY

(B.A. DEGREE; Minor Required)

University Liberal Arts Foundations for the J. Niles Puckett College of Christian Studies (see page 30).

Minor required

Electives (As needed to satisfy the 128 semester hour minimum graduation requirements)

Note the following modification in ULAF requirements:

I. Christian Perspectives: **6 hours**

Track 1:

BIB	113	Old Testament History (3) AND
BIB	123	New Testament History (3)

Philosophy Major

PHI	101	Intro to Philosophy	3 hours
PHI	215	Intro to Logic	3 hours
PHI	225	Intro to Ethics	3 hours
PHI	312	Ancient Philosophy	3 hours
PHI	313	Modern Philosophy	3 hours
PHI	314	Medieval Philosophy	3 hours
ΔPHI	316	Metaphysics	3 hours
PHI	318	Faith and Reason	3 hours
PHI	319	Epistemology	3 hours
ΔPHI	490	Senior Seminar	3 hours

Select 6 additional hours from remaining PHI-courses, **OR** from the following list:

BIB	313	Biblical Interpretation
HTH	373	Christian Doctrines
HTH	375	Contemporary Theology
MAT	300	Intro to Mathematical Thought
POS	344	Political Thought
POS	370	Politics, Religion, and Ethics

Total Major Hours	**36 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — CHRISTIAN STUDIES

Note the following modifications in the ULAF requirements:

I. Christian Perspectives: **6 hours**

Track 1:

BIB	113	Old Testament History (3) AND
BIB	123	New Testament History (3)

IV. Personal and Social Environment: **3 hours**

PSY	101	General Psychology

Minor Requirements:

HTH	333	Psychology of Religion	3 hours
HTH	353	History of Christianity	3 hours
HTH	373	Christian Doctrines	3 hours
MIN	315	Basic Christian Discipleship	3 hours
BIB	313	Biblical Interpretation	3 hours
PHI	101	Introduction to Philosophy **OR**	
PHI	225	Introduction to Ethics	3 hours
		Total Minor Hours	**27 hours**

MINOR REQUIREMENTS — CHRISTIAN LEADERSHIP

Note the following modifications in the ULAF requirements:

I. Christian Perspectives: **6 hours**

Track 1:

BIB	113	Old Testament History (3) AND
BIB	123	New Testament History (3)

IV. Personal and Social Environment: **3 hours**

PSY	101	General Psychology

Minor Requirements:

HTH	333	Psychology of Religion	3 hours
MIN	243	Management for Ministry	3 hours
HTH	373	Christian Doctrines	3 hours
MIN	315	Basic Christian Discipleship	3 hours
MIN	443	Leadership for Ministry	3 hours
MIN	497	Ministerial Internship	3 hours
		Total Minor Hours	**27 hours**

MINOR REQUIREMENTS — PHILOSOPHY

PHI	101	Introduction to Philosophy	3 hours
PHI	215	Introduction to Logic	3 hours
PHI	225	Introduction to Ethics	3 hours
PHI	312, 313, or 314 (your choice)		3 hours
PHI	—	Philosophy electives	6 hours
		Total Minor Hours	**18 hours**

NON-TRADITIONAL DEGREE REQUIREMENTS — CHRISTIAN LEADERSHIP

(B.A. DEGREE; No Minor Required)

CHL	430	The Dynamics of Groups	3 hours
CCS	431	Portfolio Assessment	3 hours
CHL	432	Leadership Theory and Praxis	3 hours

CHL 434	Research Methodology	3 hours
CHL 436	Administration Aspects of Leadership	3 hours
CHL 438	Spiritual Formation for Leaders	3 hours
CHL 440	Building Interpersonal Relationships	3 hours
CHL 442	The Leader as Coach and Mentor	3 hours
CHL 444	Ethical Challenges for the Christian Leader	3 hours
CHL 446	Issues in Counseling	3 hours
CHL 448	Leadership in the Global Community	3 hours
CHL 450	Professional Project	3 hours
	Christian Leadership Core Hours	**36 hours**

Students will need to complete enough electives to meet the 128 semester hour minimum requirement for graduation. Up to 30 hours of electives may be earned through Prior Learning Credit. Additional hours may be completed at a regionally-accredited institution, earned through credit by examination, or taken through traditional courses at Grand Canyon University (traditional student tuition rates apply). (See "Evaluation of Transfer Credit" for additional information.) Total elective hour requirements are 57 hours.

BIBLICAL STUDIES

BIB 103 **3 hours**
Survey of the Bible

Every semester. An introduction to the study of the Bible to provide 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 ULAF requirements of the University but does not serve as the required prerequisite for certain upper division courses in the J. Niles Puckett College of Christian Studies.

BIB 113 **3 hours**
Old Testament History

Every semester. 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 the close of the Old Testament period.

BIB 123 **3 hours**
New Testament History

Every semester. A general historical survey of the New Testament, beginning with the interbiblical period, with the main emphasis given to the Gospels and Acts.

BIB 313 **3 hours**
Biblical Interpretation

Every Spring. This course helps equip students interested in more serious Biblical studies to understand and use basic principles of Biblical interpretation. An introduction to the nature of Biblical 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 423 **3 hours**
General Epistles and Revelation

Spring 2004, and alternate years. 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 Revelation. Prerequisites: BIB 113 and BIB 123.

BIB 432 **3 hours**
Old Testament Prophets

On demand. 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 **3 hours**
Life and Teachings of Christ

Fall 2004, and alternate years. 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 **3 hours**
The Pentateuch (Genesis-Deuteronomy)

Fall 2003 and alternate years. 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 **3 hours**
Life and Letters of Paul

Spring 2003, and alternate years. 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.

BIB 453 **3 hours**
Old Testament Poetry

On demand. A study of the poetical books of the Old Testament, with reference to their literary style, occasion of writing, authorship, content, and interpretation. Prerequisites: BIB 113 and BIB 123.

BIB 463 **3 hours**
Biblical Backgrounds

On demand. A geographical and archaeological survey of Palestine and the countries near it, and an examination of the important political, social, and religious customs, and conditions which have a bearing on Biblical history. Prerequisites: BIB 113 and BIB 123.

BIB 498 **3 hours**
Special Topics

Every semester. Topics of interest to students not covered in-depth in other courses will be considered. Prerequisites: Sophomore status and three hours of Bible.

BIB 499 **1-4 hours**
Independent Study

On demand. See page 25.

CREATIVE ARTS IN WORSHIP

CAW 201 **3 hours**
Introduction to Christian Worship

Every Spring. The course will examine the Biblical and historical roots of worship, explore the articulators of worship, and help guide the participants in the development of pastorally sensitive, personally effective, and theologically sound worship services.

CAW 300 **2 hours**
Worship Participation

Every semester. A practicum, whereby students may choose the area of worship ministry in which they are most interested and participate in that area. Students should choose either the music, speech/performance, or theatre fields. Participation may be either on or off campus, or a combination of both, but must be supervised. May be repeated for a maximum of four credit hours. Prerequisite: CAW 201.

CAW 410 **3 hours**
Creative Arts in Worship Internship I — Music Emphasis

Every semester. An experiential learning opportunity for students to combine classroom knowledge and theories with real-world ministry applications under the supervision of a minister in the area of music. Prerequisites: CAW 300 and completion of all other emphasis requirements.

CAW 411 **3 hours**
Creative Arts in Worship Internship II — Music Emphasis

Every semester. A continuation of CAW 410. Real-world ministry applications under the supervision of a minister in the area of music. Prerequisite: CAW 410.

CAW 412 **3 hours**
Creative Arts in Worship Internship I — Speech/Performance Emphasis

Every semester. An experiential learning opportunity for students to combine classroom knowledge and theories with real-world ministry applications under the supervision of a minister in the area of speech/performance. Prerequisites: CAW 300 and completion of all other emphasis requirements.

CAW 413 **3 hours**
Creative Arts in Worship Internship II — Speech/Performance Emphasis

Every semester. A continuation of CAW 412. Real-world ministry applications under the supervision of a minister in the area of speech/performance. Prerequisite: CAW 412.

CAW 414 **3 hours**
Creative Arts in Worship Internship I — Theatre Emphasis

Every semester. An experiential learning opportunity for students to combine classroom knowledge and theories with real-world ministry applications under the supervision of a minister in the area of theatre. Prerequisites: CAW 300 and completion of all other emphasis requirements.

CAW 415 **3 hours**
Creative Arts in Worship Internship II — Theatre Emphasis

Every semester. A continuation of CAW 414. Real-world ministry applications under the supervision of a minister in the area of theatre. Prerequisite: CAW 414.

HISTORICAL/THEOLOGICAL STUDIES

HTH 303 **3 hours**
History of Christianity in America

Every Spring. Also HIS 303. 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, social, and intellectual traditions in American culture shaped Christianity and were, in turn, shaped by Christianity.

HTH 323 **3 hours**
Christian Missions

On demand. A survey of Christian missions throughout the world, with special emphasis upon the missionary activities and techniques of Southern Baptists, usually taught by the visiting missionary-in-residence.

HTH 333 **3 hours**
Psychology of Religion

Every Spring. Also PSY 333. Designed to help the student understand and relate to the varied processes involved in religious experiences. Special attention is given to the conversion experience, religious motivation, and the impact of group dynamics.

HTH 353 **3 hours**
History of Christianity

Every Fall. Also HIS 353. A study of the significant movements within the church from New Testament times through the Reformation. Special emphasis is given to the ancient Christian Church, the Church Fathers, heresies, monasticism, the Papacy, and the practices and problems of the Church.

HTH 373 **3 hours**
Christian Doctrines

Every Fall. 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 **3 hours**
Contemporary Theology

On demand. 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, and Liberation Theology.

HTH 463 **3 hours**
World Religions

Spring 2003 (every third semester). Also PHI 463. 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.

HTH 498 **3 hours**
Special Topics

Every semester. Topics of interest to students not covered in-depth in other courses will be considered. Prerequisites: Sophomore status and three hours of Bible.

HTH 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

PRACTICAL MINISTRIES

MIN 202 **3 hours**
Introduction to Ministry

Every Fall. 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 203 **3 hours**
Introduction to Youth Ministry

On demand. A study of Christian youth ministry and its relationship to the local church. Attention will be given to preparation and planning for youth ministry and its impact on the lives of adolescents.

MIN 213 **3 hours**
A Survey of Christian Education

Spring 2003, and alternate years. 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 **3 hours**
Management for Ministry

Every Fall. 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 270 **3 hours**
Christian Drama

On demand. Also TRE 270. A creative Christian dramatics lab with opportunities to perform for churches and other groups. Emphasis is on directing, selecting, and editing, as well as performing religious drama with a Christian message or on correlating Christian drama with music. Ways and means of utilizing dramatic activity, organizing a drama group, and training the inexperienced within a church are studied.

MIN 315 **3 hours**
Spiritual Formation

Every semester. 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. Prerequisite: MIN 202.

MIN 323 **3 hours**
Evangelism

On demand. A study of the history, theology, principles and methods of New Testament evangelism, including personal, church, and mass evangelism. Each student will be encouraged to do personal work as a part of this course. Prerequisites: BIB 113 and BIB 123.

MIN 363 **3 hours**
Instructional Technology

Every semester and every Summer. Also EDU 363. A survey of the role of audiovisual aids, projected and non projected, in learning and communication with emphasis on the selection, preparation, evaluation and utilization of such materials and equipment. Course involves practicum experience.

MIN 373 **3 hours**
Pastoral Ministry

On demand. 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 383 **3 hours**
Homiletics

On demand. A study of principles and practices of preaching, types of sermons, and principles and procedures of sermon preparation and delivery. Students will prepare and deliver several sermons during the course. Prerequisites: BIB 113 and BIB 123.

MIN 393Δ **3 hours**
Hymnology

Fall 2003, and alternate years. Also MCH 393. A survey of hymnology during the history of the Christian church designed to bring about more meaningful usage of the hymn in congregational singing and in all areas of Christian life and worship. Emphasis is placed upon American hymnology. No musical background is required. A Writing-Intensive course.

MIN 443 **3 hours**
Leadership for Ministry

Every Spring. An exploration of leadership within the context of Christian ministry. Special attention is given to the study of leadership theories, leadership behavior, and the implementation of leadership principles. Prerequisite: Junior status.

MIN 490Δ **3 hours**
Senior Seminar

Every Spring. This course allows students to integrate their call to ministry and vocational intent with their academic activity. This course should be taken during the student's final semester. A Writing-Intensive course. Prerequisites: Senior status and instructor's approval.

MIN 497 **1 - 3 hours**
Ministerial Internship

Every Spring. 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.

MIN 498 **3 hours**
Special Topics

Every semester. Topics of interest to students not covered in-depth in other courses will be considered. Prerequisites: Sophomore status and three hours of Bible.

MIN 499 **1 - 4 hours**
Independent Study

Every semester. See page 25.

NEW TESTAMENT GREEK

GRK 274 **4 hours**
Beginner's Greek I

Fall 2003, and alternate years. Offered for persons who are studying Greek for the first time or for those whose preparation is not adequate for entering a more advanced class in Greek. Designed to give the fundamentals necessary to read the Greek New Testament.

GRK 284 **4 hours**
Beginner's Greek II

Spring 2004, and alternate years. Continuation of GRK 274. A study of Greek grammar is completed, with simple exercises for reading and translation. Prerequisite: GRK 274 or equivalent.

GRK 373 **3 hours**
Advanced Greek Grammar I

Fall 2004, and alternate years. For second-year students of the Greek New Testament. Forms, syntax, and prose composition are reviewed. The student is required to translate a New Testament book and is given, with each lesson, a demonstration of the significance of Greek forms as vital to accurate translation. Prerequisite: GRK 284.

GRK 383 **3 hours**
Advanced Greek Grammar II

Spring 2005, and alternate years. Continuation of GRK 373. This course includes an exegesis of one short New Testament book, designed to help prepare the student for the use of the most effective methods of exegesis of the Greek New Testament. Prerequisite: GRK 373.

GRK 499 **1 - 4 hours**
Independent Study

Every semester. See page 25.

PHILOSOPHY

PHI 101 **3 hours**
Introduction to Philosophy

Every Fall. 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 **3 hours**
Introduction to Logic

Every Fall. A study of the principles of correct reasoning with emphasis on distinguishing between good and bad arguments of various types.

PHI 222 **3 hours**
Foundations of Analytical Thinking

Every Spring. 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.

PHI 225 **3 hours**
Introduction to Ethics

Every Spring. 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 303Δ **3 hours**
Philosophy of Education

Every semester. A study of the historical, philosophical, and sociological influences which have shaped American education, the issues faced by educators today, and the challenges for 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. Includes a first phase observation in the K-12 classroom. A Writing-Intensive course. Prerequisite: Sophomore status.

PHI 310 **3 hours**
Christianity and the Legal Profession

On demand. This capstone for pre-law minors provides students the opportunity to interact with practicing Christian lawyers who will challenge them to discover just how they can integrate the teachings of Christ into a legal career. This course addresses current ethical issues within the legal profession from a distinctly Christian viewpoint. Not necessary to be a pre-law minor to take this course. Prerequisite: Senior status or instructor's approval.

PHI 312 **3 hours**
Foundations of Western Thought

Also HIS 312. A survey of the development of Western thought from ancient Greece through the Middle Ages, with particular emphasis on the contributions of Plato and Aristotle. Prerequisite: PHI 101 or instructor's approval.

PHI 313 **3 hours**
Shapers of the Modern Mind

A study of thinkers from the Renaissance to contemporary times who have helped to form our understanding of ourselves and the world we live in. Focus will be on major philosophic systems of the modern period. Prerequisite: PHI 101 or instructor's approval.

PHI 314 **3 hours**
Medieval Philosophy

A survey of Western philosophy from 400 AD to roughly the time of Descartes. Special attention will be given to the writings of Augustine, Anselm, and Thomas Aquinas. Perquisite: PHI 101 or instructor's approval.

PHI 316Δ **3 hours**
Metaphysics

A study of traditional questions raised in metaphysics or ontology (i.e., "the study of being"). Examples of these questions which may be considered are: Are there universals (i.e., objects which can exist in more than one place at a time?) Are all events determined by prior causes, or is there genuine human freedom? Are human persons purely physical objects or do they have immaterial souls? The course will encourage reflection on the relationship between worldview and metaphysics.

PHI 318 **3 hours**
Faith and Reason

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 319 **3 hours**
Epistemology

A study of traditional questions raised in the theory of knowledge. Examples of questions to be considered are: What is the correct analysis of knowledge? Is sense perception a reliable source of knowledge? Is there any priori knowledge (i.e., knowledge independent of sensory experience)? The course will encourage reflection on the relationship between worldview and theory of knowledge.

PHI 322 **3 hours**
Advanced Analytical Thinking: Case Studies

Every Fall. 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. Prerequistes: PHI 215, PHI 222.

PHI 463 **3 hours**
World Religions

Spring 2003 (every third semester). Also HTH 463. 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.

PHI 490 **3 hours**
Senior Seminar

This course will provide students the opportunity for intensified discussion and the development of individual interests leading to the central goal of crafting a piece of work which would be suitable for submission to an undergraduate journal in philosophy. A Writing-Intensive course. Prerequisites: Senior status and instructor's approval.

PHI 499 **1- 4 hours**
Independent Study

On demand. See page 25.

Non-Traditional Program — J. Niles Puckett College of Christian Studies

CHRISTIAN LEADERSHIP

CHL 430 **3 ho**
The Dynamics of Groups

The social and communication characteristics of groups that d organizations are studied with regard to their special leader and member role relational culture. Special attention is given to development of members. cohort nature of the Christian Leadership program becomes a model for de with organizations, councils, and committees. Students assess the spe leadership needs for their own context.

CHL 432 **3 ho**
Leadership Theory and Praxis

Definitions of leadership are explored and various models and style leadership are identified. Students assess their own skill sets, learn new ones develop strategies for being a more effective leader in various contexts. influence of values on decision-making is examined. Students compare their skills with the needs of their context identified in CHL 430.

CHL 434Δ **3 ho**
Research Methodology

This course helps students identify problems, review related literature, co data, and measure objectives in their vocational environment. Students de their analytical skills and apply them through quantitative or qualitative res methods in generating their final research projects. Specific quantitative too introduced. Qualitative tools will be emphasized, such as case method, verb reports, incident reports, process notes, and journaling. These will reinforc importance of theological reflection and mentoring. Mentors help studen identify problems and issues related to their project. A Writing-Intensive cou

CHL 436 **3 ho**
Administration Aspects of Leadership

Students will become familiar with the administrative skills necessary for effectively leading a successful organization. Students explore managem systems, resources, and time, as well as learn to network and to under change and transition.

CHL 438 **3 ho**
Spiritual Formation of Leaders

This course examines the spiritual and Biblical understanding and prepar necessary for effective Christian leadership. Attention is given to spi formation of self and groups, articulation of vision, exploration of call to voc and position.

CHL 440 **3 ho**
Building Interpersonal Relationships

Students assess and examine their communication styles, personality and understanding of relationships. They will practice interpersonal necessary for strong building and maintaining of relationships. Students de an understanding of who they are, the necessity of establishing their trustworthiness, and the importance of effective communication techniq fostering relationships.

CHL 442 **3 ho**
The Leader as Coach and Mentor

Coaching and mentoring are important dimensions of effective leade This course will reinforce the personal leadership effectiveness of the studen helping them to improve the personal, interpersonal and leadership effecti of those with whom they work. Students will build on the foundations of se leadership and mutual accountability as they identify potential team-bui experiences and persons to begin to mentor.

CHL 444 **3 ho**
Ethical Challenges for the Christian Leader

Specific ethical issues will be raised through which students will examine their Christian values influence their actions and decisions as they live out faith in their vocations and positions. After an introduction to Christian e issues are investigated through the use of case studies.

CHL 446 **3 hours**

Issues in Counseling

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 **3 hours**

Leadership in the Global Community

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 a 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 **3 hours**

Professional Project

This capstone course requires students to implement theories and concepts in individual projects related to leadership in their vocational or avocational 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 requirements of the Christian Leadership program.

The College of Education

MISSION STATEMENT

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

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. The College of Education offers Bachelor of Science (B.S.), Master of Arts (M.A.), Master of Education (M.Ed.), and Master of Arts in Teaching (M.A.T.) degree programs and has been approved by the Arizona Board of Education since 1954.

COLLEGE FEATURES

STATEMENT OF SUPPORT

Starting with December 1984, graduates of the College of Education at Grand Canyon University have been provided with the following support during their first year of teaching: the University will give assistance to any teaching graduate who is experiencing difficulty in the first year of teaching in the area for which they have been certified to teach. This assistance continues through the first year of teaching at no expense to the school district or to the teacher graduate.

Faculty from Grand Canyon University will support the new teacher by acting as consultants in such areas as: curriculum planning and design, classroom management, content presentation, and individualized instruction.

The need for assistance may be determined by the Grand Canyon University graduate or by the principal or superintendent. The College of Education will respond to such requests by providing faculty with appropriate expertise, either from Education or other disciplines.

COE CAREER SERVICES

COE Career Services is open to all College of Education graduates, including B.S., Fifth Year, M.Ed., M.A., and M.A.T. students who have completed the teacher certification program at Grand Canyon University. The most recent degree must be from Grand Canyon University. If one is enrolled in a program at another university or has taken additional courses at another university to complete an endorsement or area of certification, the placement services of that university should be utilized. Grand Canyon University will continue sending files which will contain only information pertaining to a student's degree or certification program at Grand Canyon University, (i.e., no transcripts beyond a student's Grand Canyon University degree would be included or referred to in the packet). Please contact the COE Career Services Office regarding fees for this service. While the services offered through the COE Career Services Office are to be of benefit to the student, employment is the responsibility of the student and not the College of Education or the University.

PROGRAM FEATURES

The Education Program provides these special features:

- Practical classroom experience beginning as early as the freshman year with a minimum of 100+ hours in the K-12 classroom prior to student teaching.
- Opportunities to design curriculum materials.
- T.E.A.C.H., a student professional organization which provides encouragement to students via projects, speakers, and workshops.
- A Career Service that averages a 95% placement rate for education graduates in the past 15 years.
- Faculty who have an average of 10 years experience in the K-12 school system.
- Adjunct faculty who hold concurrent employment in classroom and administrative positions.
- Semester long Student Teaching.
- Choices of study in the areas of: Special Education in Learning Disabilities, Emotional Disabilities, and Mental Retardation; Secondary (grades 7-12) with a second major in an academic area; Elementary (grades K-8); Reading Endorsement (grades K-12); Teaching English as a Second Language Endorsement (grades K-12) and K-12 Endorsement in the areas of Art, Music, and Physical Education.
- Accelerated M.Ed. program taught at night in a cohort setting.
- Master of Arts in Teaching by Distance Learning.
- On-line M.Ed. program in Education Administration, Reading Education, Technology in Education, and Special Education.

TEACHER EDUCATION CURRICULA

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.

Coursework is offered leading to teacher certification in the following areas:

1. Elementary Education and a minor in special education, teaching English as a second language, reading, or a content area commonly taught in grades K-8 in the Arizona public schools;

2. Special Education-Learning Disabilities, Mental Retardation, and Emotional Disabilities, offered as a double major with Elementary Education;

3. Teaching English as a Second Language Provisional Endorsement (An Arizona elementary, secondary, or special education teaching certificate, three hours of ESL 420/520c, and three hours of ESL 423/523c is required.) This is valid for three years and is non-renewable;

4. Secondary Education (Certifiable majors are determined by the Arizona State Department of Education as any course of study that is commonly taught in grades 7-12 in public schools in Arizona.) Refer to the respective departments for a listing of major requirements in: Art Education, Biology (Secondary Teaching), Chemistry (Secondary Teaching), English Teaching, History, Mathematics (Secondary Teaching), Music Education, Physical Education, Physics (Secondary Teaching), Speech Teaching, Speech/Theatre, and Theatre/Drama. Other majors may be considered upon consultation with a College of Education advisor and with the approval of the College of Education faculty. The student will complete a double major in Secondary Education and in the content area. A minor is recommended but not required;

5. Endorsements (K-12) for Art, Music, and Physical Education. In order to qualify for an Endorsement, one must first have an Elementary Certificate, a Secondary Certificate, or a Special Education Certificate. The Endorsement involves at least 30 semester hours in the specific teaching field and includes the methods of teaching in the specific teaching field at the elementary level and the secondary level. In order for the College of Education to recommend a student for the K-12 Endorsement, the student must student teach at the elementary level (grades K-8) as well as at the secondary level (grades 7-12). Endorsements are also offered in Reading Education and Teaching English as a Second Language.

The teacher education program of Grand Canyon University is approved by the Arizona State Board of Education. If state certification requirements change, students must meet the new requirements regardless of the catalog under which they will be graduating. 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.

PROVISIONAL CERTIFICATE, ELEMENTARY, SPECIAL EDUCATION, OR SECONDARY

One who has already earned a bachelor's degree may normally qualify for a provisional teaching certificate by completing at least 40 hours in upper division courses during a special Fifth Year program designed by the Dean of the College of Education in consultation with the student. This will include prescribed professional courses (see pages 67). Students who plan to be in the Fifth Year program are encouraged to enter the Master of Education (M.Ed.) program (see page 68-69).

Students working toward initial certification at the bachelor's level or the graduate level must pass two proficiency tests: one in the academic knowledge portion and one in the professional knowledge portion of the Arizona Educator Proficiency Assessment (AEPA) before they are issued a provisional certificate. These assessments will be based on the Arizona Teacher Standards. For further information, contact the College of Education Office or visit the Arizona State Department of Education web page at http://www.ade.state.az.us.

APPLICATION PROCEDURES FOR ELIGIBILITY

1. In order to become a candidate for undergraduate or fifth year teacher education, a student must have completed at least 30 semester hours of college work with a minimum GPA of 2.50 in all work taken, a 2.50 GPA in all education coursework, as well as a 2.50 GPA in residence at Grand Canyon University. In order to be accepted as a candidate for a secondary certificate, one must also have a 2.50 GPA in the teaching field; one seeking K-12 subject endorsement must have a 2.50 GPA in the appropriate teaching field. A minimum 2.00 GPA is required for all prerequisite coursework.

2. All candidates must submit three letters of reference.

3. International undergraduate and graduate students must present a TOEFL score of at least 550. International students entering the TESL graduate program must present a TOEFL score of at least 575.

4. All candidates must submit an Application for Fingerprint Clearance and fingerprint card to the Arizona Department of Public Safety (copy of the application form should be submitted to the College of Education). Submit the Application for Fingerprint Clearance and fingerprint card to:

   Arizona Department of Public Safety
   Applicant Clearance Card Team
   P.O. Box 18390
   Phoenix, AZ 85005-8390

   The College of Education will verify clearances.

Application procedures and policies are available in the Education Packet in 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 any promulgated by the College of Education, regardless of the year of the catalog under which the student is enrolled. Violation of any of the policies of the College of Education may result in a review of the student's status and could result in remedial activities that would allow for the student's success or could result in the inability of the student to continue in the program. Notifications will be posted in the College of Education as changes occur in the assessment process for future eligibility and continuance in the program. It is the student's responsibility to meet the requirements and changes.

APPLICATION FOR TEACHER EDUCATION

All students must complete regular matriculation requirements with the Office of Academic Records before entering the Teacher Education Program.

After completing a minimum 30 semester hours, prospective candidates should make written application to the College of Education for admission to the Teacher Education Program.

Applications are not processed until all supporting documents are received. Applicants are responsible for any follow-up necessary for completing their application files. Completed applications are to be submitted four weeks prior to the beginning of the semester or term in which students plan to commence the teacher preparation program. Any application file not completed within 12 months will be discarded.

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 will be notified in writing of the action taken on their

applications by the Dean representing the College of Education faculty, subject to appeal to the College of Education Dean and the Vice President for Academic Affairs.

Students accepted into the program will be issued a card indicating their acceptance. Since certain methods courses and student teaching are reserved for students who have been accepted into the Teacher Education Program, the card will need to be presented at each registration time by students who wish to enroll in any of the education courses except PHI 303, EDU 313, EDU 363, ESL 420, SPE 325, SED 442, SPE 355, or SPE 365, EDU 570, EDU 563c, SPE 525c, SED 542c, ESL 520.

APPLICATION FOR STUDENT TEACHING

All students who wish to be placed in student teaching must make written application. Appropriate forms are available from the College of Education Office. A 2.50 GPA at Grand Canyon University, a 2.50 GPA overall, a 2.50 GPA in the major area, and a recommendation from the faculty are prerequisites.

Students must receive a minimum grade of "C" (2.00) in all prerequisites for education courses. Any deficiencies must be remediated prior to the student teaching semester.

Deadlines for applying for student teaching are as follows:
To teach during Fall semester – January 15
To teach during Spring semester – September 1

All students must complete one semester of student teaching.

Student teachers who are not enrolled in a regular program at Grand Canyon University but wish to student teach through Grand Canyon University must present a letter of request from the institution sponsoring their certification program, petition the College of Education faculty, and complete the following:

1. Submit the Official Evaluation form from the Arizona State Department of Education;

2. Complete 12 hours in Secondary Education at Grand Canyon University to include SED 442/542c, SED 452/552, SED 443/543 and SED 462/562c; or 18 hours in Elementary Education to be selected from EED 323, EED 403, EED 443, EED 463, EED 473, EED 503, EED 523c, EED 543c, EED 573c; or 15 hours in Special Education to include SPE 345, SPE 355, SPE 365, SPE 376, SPE 386, SPE 435 or SPE 535; SPE 545, SPE 555c, SPE 565c, SPE 576c, SPE 586c.

3. Maintain an overall GPA of 2.50 and a 2.50 GPA in the major area of study at Grand Canyon University.

STUDENT TEACHING SEMESTER

Student teaching is a one semester experience, including seminars on-campus one afternoon a week. Special Education majors and any student seeking the K-12 Endorsement (Art, Music, Physical Education) will student teach for one semester; also, secondary education students should refer to the respective college for additional requirements.

Grand Canyon University provides experience in student teaching through an arrangement with more than 60 school districts throughout the state. The College of Education attempts to, but cannot guarantee that it will, place students in districts or schools of their choice.

Supervision of the student teacher is performed by the school to which the student is assigned and by the designated University supervisor.

The student teaching assignment is an on-site program and the student is expected to follow the same work schedule as the cooperating teacher. No other coursework or any other work shall be done during the student teaching experience. The student must petition the College of Education for any exceptions to this rule.

The evaluation of the student teacher's work is a dual responsibility of the University and of the school in which the student teaching is done and utilizes the *Student Teacher Performance Assessment Plan.* Training in how to use the *Student Teacher Performance Assessment Plan* is required of anyone supervising student teachers – either school or university personnel.

UNIVERSITY LIBERAL ARTS FOUNDATION FOR THE COLLEGE OF EDUCATION ELEMENTARY EDUCATION PROGRAM AND SPECIAL EDUCATION PROGRAM

The University Liberal Arts Foundation (ULAF) for the College of Education Elementary and Special Education majors differs from the ULAF found on page 30. Students majoring in Elementary Education or Special Education within the College of Education must complete all requirements listed below as part of the ULAF. Changes and additional requirements are indicated by italicized print.

I. Christian Perspectives: **6 hours**

Track 1: BIB 113 Old Testament History (3)
AND
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND
One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication: **10 hours**

A. English – 6 hours *
Δ ENG 101 Academic Writing (3)
Δ ENG 102 Research Writing (3)

B. Speech – 3 hours
Any speech course is recommended

C. Computer Literacy – 1 hour
CIS 180 Computer Information Systems Module (1)
Recommended: Computer graphic presentation application

III. Heritage: **6 hours**

A. History – 3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)

B. Literary and Philosophical Traditions – 3 hours
Δ PHI 303 Philosophy of Education (3)

IV. Personal and Social Environment: **6 hours**

POS 252 Federal Government (2)**
POS 262 Arizona Government (1)**
PSY 101 General Psychology (3)

V. Mathematical Inquiry: **6 hours**

MAT 130 Contemporary Mathematics I (3)
MAT 131 Contemporary Mathematics II (3)

VI. Scientific Inquiry: **8 hours**

Any biology (BIO) course which contains a laboratory component (4)
Recommended courses include:
BIO 100 Biology Concepts (4)
BIO 105 Environmental Biology (4)
BIO 181 General Biology (4)

Any chemistry (CHM), geology (GLG), or physics (PHY) course which contains a laboratory component (4)
Recommended courses include:
PHY 101 Introduction to Physical Science (4)
PHY 111 General Physics I (4)

VII. Fine Arts: **3 hours**

Any art, music, or theatre elective

Total University Liberal Arts Foundation Requirements for Elementary/Special Education **45 hours**

* Students who placed into ENG 103 Honors Composition may satisfy the requirements of the English section of Core Area II by successfully completing this course. This may reduce the total ULAF requirements to 42 hours for those students.

** Coursework is not required to graduate. If coursework is not taken, there is a one-year deficiency listed on the certificate during which time a course or exam will fulfill the requirement.

Δ Writing-Intensive course

As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count towards meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers and receive a grade for the effectiveness of the written assignments.

UNIVERSITY LIBERAL ARTS FOUNDATION FOR THE COLLEGE OF EDUCATION SECONDARY EDUCATION PROGRAM

The University Liberal Arts Foundation (ULAF) for the College of Education Secondary Education majors differs from the ULAF found on page 30. Students majoring in Secondary Education within the College of Education must complete only the requirements listed below as part of the ULAF regardless of the college in which their major is offered. Changes and additional requirements are indicated by italicized print.

I. Christian Perspectives: **6 hours**

Track 1: BIB 113 Old Testament History (3)
AND
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND

One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication: **10 hours**

A. English – 6 hours*
Δ ENG 101 Academic Writing (3)
Δ ENG 102 Research Writing (3)

B. Speech – 3 hours
COM 123 Dramatic Arts for Teachers (3) is recommended

C. Computer Literacy – 1 hour
CIS 180 Computer Information Systems Module (1)
Recommended: Computerized graphic presentation application

III. Heritage: **6 hours**

A. History – 3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)

B. Literary and Philosophical Traditions – 3 hours

Δ PHI 303 Philosophy of Education (3)

IV. Personal and Social Environment: **6 hours**

** POS 252 Federal Government (2)
** POS 262 Arizona Government (1)
PSY 101 General Psychology (3)

V. Mathematical Inquiry: **3 hours**
MAT 120 Contemporary Math (3) or higher mathematics course (3)

VI. Scientific Inquiry: **4 hours**
Any biology (BIO), chemistry (CHM), geology (GLG), or physics (PHY), course which contains a laboratory component (4)

VII. Fine Arts: **3 hours**
Any art, music, or theatre course (3)

Total University Liberal Arts Foundation Requirements for Secondary Education **38 hours**

* Students who place into ENG 103 Honors Composition may satisfy the requirements of the English section of Core Area II by successfully completing this course. This may reduce the total ULAF requirements to 35 hours for those students.

** Coursework is not required to graduate. If coursework is not taken, there is a one-year deficiency listed on the certificate during which time a course or exam will fulfill the requirement.

Δ Writing-Intensive course

As a graduation requirement, all students must complete successfully four (three for those students who substitute ENG 103 for ENG 101 and 102) courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 **(or ENG 103, which replaces both)**. At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count towards meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers, and receive a grade for the effectiveness of the written assignments.

DEGREE REQUIREMENTS — ELEMENTARY EDUCATION/CERTIFICATION (Grades K-8) (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Education Teacher Education Programs (see pages 64).

Electives (as required to satisfy the 128 semester hour minimum graduation requirement).

Elementary Education Major

	EDU	313 Educational Psychology	3 hours
Δ	SPE	325 Educating Learners with Diverse Needs	3 hours
	EDU	363 Instructional Technology	3 hours
*	ESL	420 English Linguistics	3 hours

Acceptance into the College of Education is required for the following courses:

EED	323 Curriculum and Methods: Science	3 hours
EED	403 Curriculum and Methods: Mathematics	4 hours
EED	443 Prescriptive Reading and Practicum	3 hours

EED	463	Curriculum and Methods: Social Studies	3 hours
EED	473	Curriculum and Methods: Literacy: Reading/Language Arts	3 hours
EED	480	Student Teaching: Elementary School	12 hours
		Total Major Hours	**40 hours**

* Provisional ESL Endorsement requires six hours of ESL coursework. Six hours of a foreign language or foreign language proficiency or other second language learning experiences as stated by the Arizona State Department of Education will be required prior to receiving the full ESL endorsement.

Δ Writing-Intensive course.

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 recommend that the elementary education professional knowledge portion of the AEPA be taken prior to student teaching and the elementary subject knowledge portion of the AEPA be taken during the last half of student teaching or at the end of student teaching. Arizona Teaching Standard Seven states that the elementary teacher will demonstrate knowledge of language arts and reading, math, science, social studies, and fine arts. In preparation for the elementary education subject knowledge portion of the AEPA, the additional following courses are recommended: POS 252, POS 262, GEO 111 or GEO 121, ECN 201, HIS 103, and HIS 104. These recommendations may change as the AEPA is developed. The provisional Elementary Certificate is valid for two years and is renewable. To receive a Standard Elementary Certificate, the candidate must receive a passing score on the performance portion of the AEPA when it is developed.

Recommended Electives for Elementary Teacher Candidates:

CIS	—	Computer Application Modules (3)
EDU	183	Exploring Education as a Career (3)
EDU	300	Teaching in a Pluralistic Society (3)
ENG	471	Adolescent Literature (3)
ENG	473	Children's Literature (3)
* ESL	423	English Language Teaching: Foundations and Methodologies (3)
GEO	—	Geography Elective (3)
MED	381	Music in the Elementary Grades (3)
PED	363	Physical Education for the Exceptional Child (3)
PED	403	Physical Education in Elementary Grades (2)
PHI	—	Ethics Elective (3)
SPE	—	Special Education Electives (3-6)
PSY	353	Child Psychology
PSY	373	Adolescent Psychology

DEGREE REQUIREMENTS — SPECIAL EDUCATION LEARNING DISABILITIES (Grades K-12) AND EMOTIONAL DISABILITIES (Grades K-12); ELEMENTARY CERTIFICATION (Grades K-8) (B.S. DEGREE; Minor Recommended)

University Liberal Arts Foundation for the College of Education Special Education Programs (see pages 64).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Special Education Major: Learning Disability Specialization

EDU	313	Educational Psychology	3 hours
Δ SPE	325	Educating Learners with Diverse Needs	3 hours
EDU	363	Instructional Technology	3 hours
SPE	355	Characteristics of Students with Learning Disabilities	3 hours
SPE	365	Characteristics of Students with Emotional and Behavioral Disorders	3 hours
* ESL	420	English Linguistics	3 hours

Acceptance into the College of Education is required for the following courses:

EED	323	Curriculum and Methods: Science	3 hours
EED	403	Curriculum and Methods: Mathematics	4 hours
EED	463	Curriculum and Methods: Social Studies	3 hours
EED	473	Curriculum and Methods: Literacy: Reading/Language Arts	3 hours
EED	443	Prescriptive Reading and Practicum	3 hours
SPE	345	Characteristics of Students with Mental Retardation	3 hours
SPE	376	Strategies for Teaching Students with Learning Disabilities	3 hours
SPE	386	Strategies for Teaching Students with Emotional and Behavioral Disorders	3 hours
SPE	435	Diagnosis and Assessment in Special Ed	3 hours
SPE	408	Student Teaching: Learning Disabilities	2-8 hours
SPE	418	Student Teaching: Emotional Disabilities	2-8 hours
SPE	428	Student Teaching: Mental Retardation	2-8 hours
EED	480	Student Teaching: Elementary School	12 hours
		Total Major Hours	**76-82 hours**

* Provisional ESL Endorsement requires six hours of ESL coursework. Six hours of a foreign language or foreign language proficiency or other second language learning as stated by the Arizona State Department of Education will be required prior to receiving the full ESL Endorsement.

Δ Writing-Intensive course.

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 specified disability (emotional disability, learning disability, and/or mental retardation) special education portion of the AEPA. The College of Education faculty recommend that the professional knowledge portion of the AEPA be taken prior to student teaching and the specified disability (emotional disability, learning disability, and/or mental retardation) special education portion of the AEPA be taken during the last half of student teaching or at the end of student teaching. The Provisional Specialized Special Education Certificate is valid for two years and is renewable. To receive a Standard Specialized Special Education Certificate, the candidate must receive a passing score on the performance portion of the AEPA when it is developed. The Specialized Special Education Certificate allows the holder to teach students with the designated specialization of emotional disability and/or learning disability and/or mental retardation.

DEGREE REQUIREMENTS — SECONDARY EDUCATION/CERTIFICATION (Grades 7-12) (B.S. DEGREE; Content Minor Recommended)

University Liberal Arts Foundation for the College of Education Secondary Teacher Education Program (see page 65).

Major in Secondary Education and a major in a content area commonly taught in the 7-12 Arizona classroom. Refer to the respective departments for a listing of those major requirements.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Secondary Education/Certification

EDU	313	Educational Psychology	3 hours
Δ SPE	325	Educating Learners with Diverse Needs	3 hours
EDU	363	Instructional Technology	3 hours
SED	442	Secondary Methods	3 hours

Acceptance into the College of Education is required for the following coursework:

* SED	443	Secondary Curriculum Development & Assessment	3 hours
* SED	452	Reading and Learning Strategies for Middle and Secondary School	3 hours
* SED	462	Secondary Practicum	2 hours
SED	480	Student Teaching: Secondary School	12 hours
		Total Secondary Certification Hours	**32 hours**

* These courses are taken concurrently.

Δ Writing-Intensive course.

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 content subject knowledge portion of the AEPA. The College of Education faculty recommend that the secondary education professional knowledge portion of the AEPA be taken prior to student teaching and the content subject knowledge portion of the AEPA be taken during the last half of student teaching or at the end of student teaching. Arizona Teaching Standard Seven states that the secondary teacher will demonstrate knowledge of subject area being taught. The provisional Secondary Certificate is valid for two years and is renewable. To receive a Standard Secondary Certificate, the candidate must receive a passing score on the performance portion of the AEPA when it is developed.

The student's major, required for graduation, is a double major in an academic teaching field and Secondary Education. Certifiable majors are defined on page 63.

All students interested in teaching at the secondary level must have an advisor from the College of Education faculty, as well as an advisor from the major field of study.

A minor, although not required, is recommended and should be 24 semester hours, rather than the usual 18. Students should confer with faculty personnel in the minor department.

FIFTH YEAR PROGRAM

The Teacher Education Program has been extended to include a fifth year of preparation to meet current Arizona teacher certification requirements. Students who have previously earned a bachelor's degree from a regionally-accredited institution are recommended for provisional certification after successful completion of a fifth year program of at least 40-49 semester hours of class work in appropriate professional education, academic preparation, and/or supervised student teaching experience. Policies and requirements for admission to the program are the same as those noted for degree candidates. The Master of Education (M.Ed.) degree is suggested as an alternative to this program.

Elementary Education: Teacher Education Fifth Year Program Certification: (Grades K-8) B.S. DEGREE

University Liberal Arts Foundation for the College of Education Elementary Teacher Education Program (see pages 64).

Education Prerequisites	Hrs.
English	6
Fine Arts Electives (Art, Music, Theatre, or Dance)	3
Fine Arts Elective (Art, Music, Theater, Dance or Speech)	3
History Course with HIS prefix	3
Federal and Arizona Government*	3
General Psychology	3
Biological Lab Science: (BIO 100, BIO 105, or Bio 181)	4
Physical Lab Science (Chemistry, Geology, or Physics)	4
Contemporary Math I (MAT 130)	3
Contemporary Math II (MAT 131)	3
Total Education Prerequisites	**35 hours**

Professional Preparation Requirements

Elementary Education Major		Hrs.
EDU 313	Educational Psychology	3 hours
Δ SPE 325	Educating Learners with Diverse Needs	3 hours
EDU 363	Instructional Technology	3 hours
* ESL 420	English Linguistics	3 hours

Acceptance into the College of Education is required for the following courses:

E E D 323	Curriculum and Methods: Science	3 hours
EED 403	Curriculum and Methods: Mathematics	4 hours
EED 443	Prescriptive Reading and Practicum	3 hours
EED 463	Curriculum and Methods: Social Studies	3 hours
EED 473	Curriculum and Methods: Literacy: Reading/Language Arts	3 hours
EED 480	Student Teaching: Elementary School	12 hours
	Total Major Hours	**40 hours**

* Provisional ESL Endorsement requires six hours of ESL coursework. Six hours of a foreign language or foreign language proficiency or other second language learning experiences as stated by the Arizona State Department of Education will be required prior to receiving the full ESL endorsement.

Δ Writing-Intensive course.

PLEASE NOTE: This program is subject to change if the Education Faculty identifies deficiencies.

Secondary Education — Content Area Commonly Taught In the Arizona Public Schools: Teacher Education Fifth Year Program Certification: (Grades 7-12) B.S. DEGREE

University Liberal Arts Foundation for the College of Education Secondary Teacher Education Program (see page 65).

Education Prerequisites	
Δ English	6
Humanities and/or Speech	3
* Federal/Arizona Government (POS 252 and POS 263)	3
General Psychology (PSY 101)	3
Intermediate Algebra (MAT 120)	3
TOTAL EDUCATION PREREQUISITES	**18**

Professional Preparation Requirements		Hrs.
PHI 303	Philosophy of Education	3
EDU 313	Educational Psychology	3
EDU 363	Instructional Technology	3
SPE 325	Educating Learners w/Diverse Needs	3
SED 442	Secondary Methods	3

Acceptance into the College of Education is required for the following courses:

SED 443	Secondary Curriculum Development and Assessment	3
** SED 452	Reading and Learning Strategies for Middle and Secondary School	3
** SED 462	Secondary Practicum	2
SED 480	Student Teaching: Secondary	12
	TOTAL	**35**

* Coursework is not required to graduate. If course work is not taken, there is a one-year deficiency listed on the certificate during which time a course or exam will fulfill the requirement.

** Coursework must be taken concurrently.

Δ Writing-Intensive course.

PLEASE NOTE: This program is subject to change if the Education Faculty identifies deficiencies or the Arizona Department of Education changes certification requirements.

GRADUATE STUDIES

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.

The Master of Education (M.Ed.) degree program was designed for holders of a bachelor's degree seeking a graduate degree and for the purpose of initial teacher certification. These students will be expected to meet the criteria of teacher certification in elementary, secondary, or special education, as well as the goals of the graduate program. It is the student's responsibility to determine the status of this master's degree within the context of individual school districts. This program parallels

the other two graduate programs in their framework for professional growth with the exception that students may not have their own classrooms in which to make direct application of principles, concepts, strategies, and philosophies. Coursework is presently offered in the following areas:

- Elementary Education
- Secondary Education
- Special Education
- Education Administration (online)

The Professional Preparation requirements, with the exception of Student Teaching, may be taken at night in an accelerated format.

The Master of Arts (M.A.) in Education degree was designed for the advanced preparation of practicing elementary, secondary, and special education certified teachers offering study in a specialized area of education. Coursework is presently offered in the following areas:

- Elementary Education
- Reading Education
- Secondary Education
- Teaching English as a Second Language
- Special Education

For those students who hold a bachelor's degree and do not hold a teaching certificate, there is a non-certification concentration in Teaching English as a Second Language.

The Master of Arts in Teaching (M.A.T.) program is offered both on campus and in a distance-learning format. The distance learning program has been designed to promote a high quality graduate education experience in the convenience of a community or school without residency requirements. This program seeks to meet the needs of the practitioner in the field; the primary focus is upon improving the quality of instruction for the certified teacher.

APPLICATION PROCEDURES FOR GRADUATE STUDIES

ELIGIBILITY FOR ADMISSION

All graduate students can obtain an admission packet from the College of Education Office. Nine hours of graduate credit may be taken prior to admission to the master's program (except for the M.A.T. program) in the College of Education. Further clarification of the following requirements are contained in the admission packet.

Master of Education (M.Ed.) candidates must submit the following to the College of Education Office:

1. A graduate application;
2. A 2.80 cumulative GPA as well as a 2.80 GPA in the major area of desired certification. Any grade in the certifiable major area below a grade of "C" must be retaken at Grand Canyon University. A certifiable major in secondary education is determined by the Arizona State Department of Education as any course of study that is commonly taught in grades 7-12 in the public schools in Arizona;
3. Three references;
4. Official transcripts from all regionally-accredited colleges or universities attended;
5. An application for fingerprint clearance and a fingerprint card submitted to the Arizona State Department of Public Safety (copy of this form should be submitted to the College of Education);
6. An interview with the Graduate Committee.

Master of Arts in Education (M.A.) candidates must submit the following to the College of Education Office:

1. A graduate application;
2. A 2.80 cumulative GPA as well as a 2.80 GPA in the major area of certification;
3. A copy of current teaching certificate;
4. Two references;
5. A copy of most recent teacher evaluation;
6. An official transcript from all regionally-accredited colleges or universities attended;
7. An interview with the Graduate Committee.

Acceptance into the graduate **M.A. programs in Elementary Education, Reading Education and Teaching English as a Second Language** will be dependent upon cohort groups of 15 students.

Once the student is accepted into the graduate program, the candidate has eight years to complete the program of study. Additional course requirements may be required at the discretion of the graduate committee if the program extends beyond this time limit. Upon acceptance into the graduate program, the student will receive an Official Program of Study. In order for that Program of Study to remain valid, the student must be continuously enrolled in the program. All graduate students must maintain a 3.00 GPA.

All elective courses must receive approval from the Graduate Committee prior to the student enrolling in coursework.

Master of Arts in Teaching (M.A.T.) candidates must submit to the Distance Learning Office in the College of Education:

1. A graduate application;
2. Transcripts reflecting a 2.80 cumulative GPA;
3. A copy of current teaching certificate;
4. Two references;
5. A copy of most recent teacher evaluation;
6. Official transcripts from all regionally-accredited colleges or universities attended;
7. A signed Credit Agreement;
8. An application review completed by the Director of Distance Learning.

When the above process is complete, applicants will be notified concerning their status.

Graduates must complete their entire program prior to participation in scheduled graduation exercises.

DEGREE REQUIREMENTS — MASTER OF EDUCATION (M.Ed.)

1.) PROGRAM OF STUDY FOR ELEMENTARY CERTIFICATION (Grades K-8)

Prerequisites:

English (6)
* Federal and Arizona Government (POS 252 and POS 262) (3)
History, Civics, or Geography (3)
General Psychology (PSY 101) (3)
Mathematics (MAT 130) (3)
Mathematics (MAT 131) (3)
Physical Lab Science (Recommended: PHY 101 or PHY 111) (4)
Biology Lab Science (Recommended: BIO 100, BIO 105, or BIO 181) (4)
Art, Music, Theatre, Dance, or Speech (3)

* Coursework is not required. If coursework is not taken, there is a one course deficiency listed on the certificate during which time a course or exam will fulfill the requirement.

Professional Preparation Requirements:

Complete prior to certification – 40 hours

EDU 513c	Educational Psychology	3 hours
EDU 570	Philosophical/Social Issues	3 hours
EDU 563c	Instructional Technology	3 hours
SPE 525c	Educating Learners with Diverse Needs	3 hours
* ESL 520	English Linguistics	3 hours

Acceptance into the College of Education is required for the following courses:

EED 523c	Curriculum and Methods: Science	3 hours
EED 563	Curriculum and Methods: Social Studies	3 hours
EED 503	Curriculum and Methods: Mathematics	4 hours
EED 543c	Prescriptive Reading and Practicum	3 hours
EED 573c	Curriculum and Methods: Literacy: Reading/Language Arts	3 hours
EED 580c	Student Teaching	12 hours

Complete after certification – 18 - 20 hours

— —	Approved elective at the 500 level	2 hours
EDU 571	Psychological Issues	3 hours
EDU 580	Internship **OR**	
EDU 599	Independent Study	2 hours
EDU 598	Masters Seminars	3 hours
EDU 612	Curriculum Issues/Innovations	3 hours
EDU 613	Educational Research	3 hours
EDU 614	Research and Writing	2 hours
EDU 615	Professional Writing (optional)	2 hours
	Total Major Hours	**61- 63 hours**

*Provisional ESL Endorsement requires six hours of ESL coursework. Six hours in a foreign language or a foreign language proficiency is required prior to receiving the full ESL Endorsement.

2.) PROGRAM OF STUDY FOR SECONDARY CERTIFICATION (Grades 7-12)

Prerequisites:

English (6)
* Federal and Arizona Government (POS 252 and POS 262) (3)
History, Civics, or Geography (3)
General Psychology (PSY 101) (3)
Educational Psychology (EDU 513c or equivalent) (3)
Intermediate Algebra (MAT 120) (3)

*Coursework is not required to graduate. If coursework is not taken, there is a one-year deficiency listed on the certificate during which time a course or exam will fulfill the requirement.

Professional Preparation Requirements:

Complete prior to certification – 30 hours

EDU 570	Philosophical/Social Issues	3 hours
EDU 563c	Instructional Technology	3 hours
SPE 525c	Educating Learners with Diverse Needs	3 hours
SED 542c	Secondary Methods	4 hours

Acceptance into the College of Education is required for the following courses:

SED 543	Secondary Curriculum Development and Assessment	3 hours
* SED 552	Reading and Learning Strategies for Middle and Secondary School	3 hours
* SED 562c	Secondary Practicum	2 hours
SED 580c	Student Teaching	12 hours

Complete after certification — 22 - 24 hours

— —	Approved electives at the 500 level	6 hours
EDU 571	Psychological Issues	3 hours
EDU 580	Internship **OR**	
EDU 599	Independent Study	2 hours
EDU 598	Masters Seminars	3 hours
EDU 612	Curriculum Issues/Innovations	3 hours
EDU 613	Educational Research	3 hours
EDU 614	Research and Writing	2 hours
EDU 615	Professional Writing (optional)	2 hours
	Total Major Hours	**55-57 hours**

* These courses must be taken concurrently.

3.) M.Ed. PROGRAM OF STUDY INCLUDING SPECIAL EDUCATION CERTIFICATION (Grades K-12) LEARNING DISABILITIES, MENTAL RETARDATION, AND EMOTIONAL DISABILITIES

In addition to complying with the program of study for the M.Ed. in Elementary Education, the following courses must be completed:

SPE 545c	Characteristics of Students with Mental Retardation	3 hours
SPE 555c	Characteristics of Students with Learning Disabilities	3 hours
SPE 565c	Characteristics of Students with Emotional/Behavioral Disorders	3 hours
SPE 576c	Strategies for Teaching Students with Learning Disabilities	3 hours
SPE 586c	Strategies for Teaching Students with Emotional/Behavioral Disorders	3 hours
SPE 508c	Student Teaching: Learning Disabilities	2 hours
SPE 518c	Student Teaching: Emotional Disabilities	2 hours
SPE 528c	Student Teaching: Mental Retardation	2 hours
SPE 535	Diagnosis and Assessment in Special Education	3 hours
	Total Additional Hours	**24 hours**

DEGREE REQUIREMENTS — MASTER OF ARTS (M.A.)

1.) PROGRAM OF STUDY FOR READING EDUCATION*

Prerequisites:

Elementary, Secondary, or Special Education Certification

EED 573	Curriculum and Methods: Literacy: Reading/Language Arts	
SED 552	Learning Strategies for Secondary School	

Admittance to the M.A. Program

Core Education Requirements:

EDU 570	Philosophical/Social Issues	3 hours
EDU 571	Psychological Issues	3 hours
EDU 598	Masters Seminars	3 hours
EDU 612	Curriculum Issues and Innovations	3 hours
EDU 613	Educational Research	3 hours
EDU 614	Research and Writing	2 hours
EDU 615	Professional Writing (optional)	2 hours

Reading Education Requirements:*

ENG 571	Adolescent Literature **OR**	
EDU 573	Children's Lit. and Storytelling	3 hours
RDG 503	Foundations in Reading	3 hours
RDG 504	Innovative Reading Programs	3 hours
RDG 505	Diagnosis and Remediation of Reading Problems	3 hours
RDG 580	Internship in Reading	3 hours
RDG 606	Research in Reading	3 hours
	Total Major Hours	**35-37 hours**

* Compliance with the Arizona State Department of Education Reading Endorsement Certification (Grades K-12).

This program is offered to cohort groups of 15 students.

2.) PROGRAM OF STUDY FOR TEACHING ENGLISH AS A SECOND LANGUAGE (TESL) *

The College of Education offers courses that meet the English as a Second Language Endorsement (ESL). The English as a Second Language Endorsement (ESL) is important for educators seeking employment in the Southwest where school populations are increasingly linguistically and ethnically diverse. For this endorsement, second

language training is required. Spanish is encouraged as the language of choice and coursework in Spanish for classroom teachers is provided. Provisional endorsement may be obtained with six hours of specific coursework. It is valid for three years, during which time the 21 semester hours for full endorsement must be completed.

There are two tracks for obtaining a Master of Arts degree with a major in TESL, one which requires an Arizona teaching certificate and one which does not. The former is for teachers who intend to teach in the K-12 school setting, while the latter is for individuals planning to teach in a mission setting or a postsecondary setting internationally or in the United States.

Prerequisites:

Elementary or Secondary Certification for United States K-12 teachers only.

Admittance to the M.A. Program.

If one's native language is not English, one's official score for the Test of English as a Foreign Language (TOEFL) must be at least 575 to be considered for admission into the TESL graduate program.

Undergraduate Requirements:

Foreign Language: six hours or passage of Arizona classroom proficiency exam or other second language learning experience as stated by the Arizona State Department of Education; information is available from the College of Education.

Core Education Requirements:

	EDU 500c	Teaching in a Pluralistic Society	3 hours
**	EDU 570	Philosophical/Social Issues	3 hours
	EDU 571	Psychological Issues	3 hours
	EDU 598	Masters Seminars	3 hours
**	EDU 612	Curriculum Issues/Innovations	3 hours
	EDU 613	Educational Research	3 hours
	EDU 614	Research and Writing in ESL	2 hours
	EDU 615	Professional Writing (optional)	2 hours

English as a Second Language Requirements:*

ESL 510	Advanced Language Teaching Methodologies and Assessment	3 hours
ESL 511	Language Teaching Curriculum and Materials Design	3 hours
ESL 514	English in its Social and Hist. Setting	3 hours
ESL 520	English Linguistics	3 hours
ESL 523	English Language Teaching Foundations and Methodology	3 hours
ESL 530	Advanced Grammar for English Language Teaching	3 hours
ESL 580	Internship in ESL or TESL	3 hours
	Total Major Hours	**41-43 hours**

* Compliance with the Arizona Department of Education ESL Endorsement (valid for grade level of teaching) Certificate.

** This course is not required for non-certification program in TESL

3.) PROGRAM OF STUDY FOR ELEMENTARY EDUCATION*

Prerequisites:

Elementary Education Certification

Admittance to M.A. Program

Core Education Requirements:

EDU 570	Philosophical/Social Issues	3 hours
EDU 571	Psychological Issues	3 hours
EDU 598	Masters Seminars	3 hours
EDU 612	Curriculum Issues Innovations	3 hours
EDU 613	Educational Research	3 hours
EDU 614	Research and Writing in ESL	2 hours
EDU 615	Professional Writing (optional)	2 hours
EDU 580	Internship **OR**	
EDU 599	Independent Study	2 hours

Elementary Education Requirements:

— —	Approved Elective at 500 level	3 ho
— —	Content Area Specialization Courses	6 ho
EED 583	Elementary School Mathematics	3 ho
EED 584	Elementary School Science	3 ho
RDG 503	Foundations in Reading (3) **OR**	
RDG 504	Innovative Reading Programs (3) **OR**	
RDG 606	Research in Reading (3)	3 ho
	Total Major Hours	**37-39 ho**

* This program is offered to cohort groups of 15 students.

4.) PROGRAM OF STUDY FOR SECONDARY TEACHERS

An area of specialization to be designed in conjunction with a College of Education advisor.

5.) PROGRAM OF STUDY FOR SPECIAL EDUCATION WITI CERTIFICATION in

Learning Disabilities K-12
Emotional Disabilities K-12
Mental Retardation K-12

Education Prerequisites

Elementary, Secondary or Special Education Certificate

SPE 325	Educating Learners with Diverse Needs	3 hou

Professional Preparation Requirements

SPE 545	Characteristics of Students with Mental Retardation	3 hou
SPE 555	Characteristics of Students with Learning Disabilities	3 hou
SPE 565	Characteristics of Students with Behavioral Disorders	3 hou

Acceptance into the College of Education is required for the following courses:

SPE 576	Strategies for Teaching Students with Learning Disabilities	3 hou
SPE 586	Strategies for Teaching Students with Emotional and Behavioral Disorders	3 hou
SPE 535	Diagnosis and Assessment in Special Education	3 hou
SPE 508c	Student Teaching: Learning Disabilities	2 hou
SPE 518c	Student Teaching: Emotional Disability	2 hou
SPE 528c	Student Teaching: Mental Retardation	2 hou

Complete After Certification

EDU570	Philosophical/Social Issues	3 hou
EDU 571	Psychological Issues	3 hou
EDU580	Internship OR	
EDU599	Independent Study	2 hou
EDU598	Masters Seminar	3 hou
EDU 612	Curriculum Issues/Innovations	3 hou
EDU613	Educational Research	3 hou
EDU614	Research and Writing	2 hou
EDU615	Professional Writing (optional)	2 hou
	TOTAL	**46-48 hour**

DEGREE REQUIREMENTS — MASTER OF ARTS IN TEACHING (M.A.T.)

PROGRAM OF STUDY

EDU 501	Overcoming Challenges Facing Professional Educators: The High Performing Teacher	3 hour
EDU 502	Effective Classroom Management	3 hour
EDU 504	Collaborative Action Research - Part 1: Introduction	1 hou
EDU 505	Motivating Today's Learner	3 hours
EDU 506	Learning Styles and Multi. Intelligences	3 hours

EDU 507	Models of Effective Teaching	3 hours
EDU 508	Curriculum and Assessment	3 hours
EDU 509	Collaborative Action Research - Part 2: Data Collection and Analysis	1 hour
EDU 511	Current Issues in Education	3 hours
EDU 512	Capstone Project	1 hour
EDU513	Helping Students Become Self-Directed Learners	3 hours
EDU514	Teaching Reading in the Elementary OR	
EDU515	Teaching Reading in the Secondary	3 hours
	Total Major Hours	**30 hours**

The Master of Arts in Teaching is offered in either a distance-learning or an on-campus format.

Students must be accepted in the M.A.T. graduate program prior to taking coursework. Since each course is designed to build upon previously learned information and competencies, courses should be taken in a sequential manner; each course is a prerequisite for the next. See page 68 for a description of this distance learning master's degree.

MINOR REQUIREMENTS — ENGLISH AS A SECOND LANGUAGE

EDU 300	Teaching in a Pluralistic Society	3 hours
ESL 414	English in its Social and Hist. Setting	3 hours
ESL 423	English Language Teaching: Foundations and Methodology	3 hours
ESL 410	Advanced Language Teaching: Methodologies and Assessments	3 hours
ESL 411	Language Teaching: Curriculum and Materials Design	3 hours
ESL 480	Internship in ESL	3 hours
	Total Major Hours	**18 hours**

After completion of the minor, in order to receive the ESL endorsement, one must additionally possess a teaching certificate and meet the following language requirements: six semester hours of courses in a single language, which may include sign language or an equivalent language learning experience verified by the Arizona State Department of Education.

MINOR REQUIREMENTS —BILINGUAL EDUCATION

SPE 345	Characteristics of Students with Mental Retardation	3 hours
SPE 355	Characteristics of Students with Learning Disabilities	3 hours
SPE 365	Characteristics of Students with Emotional/Behavioral Disorders	3 hours
SPE 376	Strategies for Teaching Students with Learning Disabilities	3 hours
SPE 386	Strategies for Teaching Students with Emotional/Behavioral Disorders	3 hours
SPE 435	Diagnosis and Assessment in Special Education	3 hours
	Total Major Hours	**18 hours**

EDUCATION

EDU 183 **3 hours**
Exploring Education as a Career

On demand. 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 of a teacher. A practicum of 45 hours will be spent in K-12 classrooms.

EDU 300/500c **3 hours**
Teaching in a Pluralistic Society: Strategies for Multicultural Teaching

On demand. This course introduces student 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 313 / 513c **3 hours**
Educational Psychology

Every semester and every Summer. A thematically arranged study of the theories and principles of psychology which have influenced instructional practices. Behavioral and cognitive approaches to learning, motivation, and instruction are explored. Prerequisites: PSY 101.

EDU 363 / 563c* **3 hours**
Instructional Technology

Every semester and every Summer. 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. Recommended prerequisites: PHI 303 and EDU 313, and a computerized graphic presentation application (i.e., Presentations, Power-Point, Freelance, etc.).

EDU 444 **3 hours**
Middle School Curriculum

Every Summer on demand. This course will explore the distinctions between elementary, secondary, and middle schooling in order to gain a broad, yet solid view of the elements that must be considered as schools attempt to develop programs and curricula more appropriate for young adolescents.

EDU 501 **3 hours**
Overcoming Challenges Facing Professional Educators: The High Performing Teacher

Every semester. This course will examine the significant challenges facing educators today within the context of contemporary educational issues. The underlying theory and principles will be explored and effective strategies will be presented to enable course participants to develop their own solution procedures. Prerequisite: Acceptance into the M.A.T. program.

EDU 502 **3 hours**
Effective Classroom Management

Every semester. This course is designed to assist teachers in learning the theoretical foundations and practical strategies which address behavior management in today's diverse classrooms. Emphasis will be placed on preventative strategies, teaching social skills, cooperation, and conflict resolution. In addition, strategies for working with the challenging student will be explored. Prerequisite: EDU 501.

EDU 504 **1 hour**
Collaborative Research - Part 1: Introduction

Every semester. This course focuses on the theoretical foundations of qualitative research and of collaborative action research. Specific 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. Prerequisite: EDU 501, EDU 502, EDU 505, and EDU 506.

EDU 505 **3 hours**
Motivating Today's Learners

Every semester. This course identifies the research base which shows that teachers' interactions with students they perceive as low achievers are less supportive and less motivating than interactions normally practiced with students they perceive as high achievers. Instruction will explore an interaction model involving specific supportive and motivating techniques which can be implemented with all students in a non-discriminatory manner. Prerequisite: EDU 501 and EDU 502.

EDU 506 **3 hours**
Learning Styles and Multiple Intelligences

Every semester. This course explores the many aspects of learners. Current supportive research and theories are reviewed, compared, and contrasted. Participants will apply theory to the development of an instructional plan for a situation relevant to them. Prerequisite: EDU 501 and EDU 502.

EDU 507 **3 hours**
Models of Effective Teaching

Every semester. This course is designed to expand the teaching repertoire of teachers and other instructional leaders. This course provides techniques for teachers to continually expand their repertoire of teaching strategies and refine their decision-making skills for planning classroom instruction. Course content will

enable participants to reflect on their own teaching performance and will include skills for providing positive feedback and support to colleagues. Prerequisite: EDU 501.

EDU 508 **3 hours**
Curriculum and Assessment

Every semester. This course will provide participants with a wide range of instructional designs. Course content is strategically planned to enable participants to make their classroom more oriented to real world application of learned skills and knowledge, enhancing student decision making and problem solving. 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. Prerequisite: EDU 501.

EDU 509 **2 hours**
Collaborative Research - Part 2: Data Collection and Analysis

Every semester. This course is designed to present teachers the steps to conduct an effective collaborative action research project. The concepts and strategies that are involved in conducting collaborative action research are presented. Emphasis will be placed upon the teacher's researching a topic pertaining to the course content previously presented in the program. Prerequisite: EDU 504.

EDU 511 **3 hours**
Current Issues in Education

Every semester. This course reflects current issues in education and will change intermittently as the issues in education change. Prerequisite: EDU 501, EDU 505, and EDU 506

EDU 512 **1 hour**
Capstone Project

Every semester. In this course, the teacher will assemble a portfolio demonstrating his or her ability to meet the objectives and outcomes for an Education degree. The portfolio will include numerous reflective components throughout and documentation in the form of video-taped lessons, journals, lesson plans, and/or research project findings, etc. Prerequisite: EDU 504 and 509.

EDU 513 **2 hours**
Helping Students Become Self-Directed Learners

Every semester. This course identifies behaviors of self-directed learners and provides strategies for designing instruction and creating a climate that fosters self-direction. Strategies that help students manage, monitor, and modify their own learning are presented. Presented in this course are skills and strategies that students can use to help both them and their students to become effective lifelong learners. Prerequisite: EDU 501, EDU 502, EDU 505, and EDU 506.

EDU 514 **3 hours**
Teaching Reading in the Elementary Grades

Every semester. This course is designed to respond to the challenge of promoting higher levels of reading achievement for all students. It provides classroom teachers with the necessary knowledge and skills to become effective teachers of reading. It includes high-quality models for teaching a balanced approach to reading including phonics, vocabulary, fluency, comprehension, assessment and grouping. Prerequisite: EDU 501, EDU 502, EDU 505, and EDU 506.

EDU 515 **3 hours**
Teaching Reading at the Secondary Level

Every semester. This course is appropriate for teachers who work with students in academic disciplines in grades six through twelve. Teachers will integrate reading and writing into their curriculum in order to achieve student mastery of content standards. Topics include significance of prior knowledge, text structures, active engagement and metacognition. Prerequisite: EDU 501, EDU 502, EDU 505, and EDU 506.

EDU 570 **3 hours**
Philosophical/Social Issues in Education

Every Fall and every Summer on demand. Designed to acquaint the student with the philosophical basis upon which educational theories and practices are constructed and the societal issues and problems that are involved in the education system. Includes a first phase practicum in the K-12 classroom. Prerequisite: Bachelor's degree.

EDU 571 **3 hours**
Psychological Issues

Every Spring and every Summer on demand. 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. Prerequisites: Bachelor's degree, EDU 313, and PSY 353 or PSY 373.

EDU 580 **1 - 2 hours**
Internship

Every semester and every Summer. This course is designed for the student to spend 45-90 clock hours in a K-12 classroom setting and/or college classroom setting. The student will demonstrate competence at a master teacher level. Supervision will be provided by an administrator, College of Education faculty, and/or peer teacher. Prerequisites: Near completion of the M.Ed. or M.A. program, EDU 570, EDU 571, and EDU 612.

EDU 580 MAT **1 hour**
Internship

Every semester and every Summer on demand. This course is designed for the student to spend 45-90 clock hours in a K-12 classroom setting and/or college classroom setting. The student will demonstrate competence at a master teacher level. Supervision will be provided by an administrator, College of Education faculty, and/or peer teacher. Prerequisites: Acceptance and enrollment in the M.A.T. program.

EDU 598 **1 - 3 hours**
Masters Seminars

Every semester and every Summer. The Masters Seminars provide a forum for scholarly exchange among students at the M.Ed. or M.A. level. This exchange may include student presentations, guest lecturers, faculty presentations, or other mini-courses deemed necessary for the well-rounded and prepared master's candidate. A minimum of three Masters Seminars are required for both the M.Ed. and M.A. program. Prerequisite: PHI 303 or EDU 570 or senior (undergraduate) status with a 3.00 GPA or bachelor's degree.

EDU 599 **1 - 2 hours**
Independent Study

Every semester and every Summer. This course allows participants to design their own course objectives to meet individual needs in regard to curriculum design in a K-12 classroom. Prerequisites: Near completion of the M.Ed. or M.A. program, EDU 570, EDU 571, and EDU 612.

EDU 612 **3 hours**
Curriculum Issues and Innovations

Every Spring. This course looks beyond the technological or measured curriculum. It will address many important goals for students such as learning how to learn, problem solving, and functioning effectively and humanely in a pluralistic society. Alternative approaches to curriculum will be investigated. Prerequisites: SED 443 or SED 543 or EED 463 or EED 563, bachelor's degree, and teaching certificate.

EDU 613 **3 hours**
Educational Research

Every Fall and every Summer on demand. Educational Research is a graduate course designed specifically to develop an appreciation of educational research. This course will examine approaches to research. Prerequisites: Admittance to the M.Ed. or M.A. program, and EDU 570.

EDU 614 **2 hours**
Research and Writing

Every Spring. 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. That problem and methodology will be presented and conducted as a research project. Prerequisites: Admittance to the M.Ed. or M.A. program, EDU 613, EDU 510, and EDU 571.

EDU 615 **2 hours**
Professional Writing

Every Summer on demand. The practitioner in the field will have the opportunity to write and submit a paper to a professional audience. The research

proposal from EDU 614 can be implemented and presented, or the student may choose another area of educational concern. Prerequisites: Admittance to the M.Ed. or M.A. program, EDU 570, EDU 571, EDU 598, EDU 612, EDU 613, and EDU 614.

PHI 303Δ **3 hours**
Philosophy of Education

Every semester. A study of the historical, philosophical, and sociological influences which have shaped American education, the issues faced by educators today, and the challenges for 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. This course includes a first phase observation in the K-12 classroom. A Writing-Intensive course. Prerequisite: Sophomore status.

*A "c" after 500 level courses designates master's level certification courses.

ELEMENTARY EDUCATION

EED 323 / 523c* **3 hours**
Curriculum and Methods: Science

Every semester and every Summer. Designed to acquaint the elementary teacher with the curriculum and the 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. Prerequisites: admittance to the Teacher Education program, PSY 353, EDU 313, PHI 303 or EDU 570, BIO course with a lab, and a CHM, GLG, or PHY course with a lab (one may be taken concurrently); EDU 363 is recommended.

EED 403 **4 hours**
Curriculum and Methods: Mathematics

Every semester. 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. Prerequisites: (Admittance to the Teacher Education program, PHI 303, EDU 313, EED 323, MAT 130, and MAT 131; senior status recommended.

EED 443 / 543c* **3 hours**
Prescriptive Reading and Practicum in the Elementary School

Every semester. 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. Prerequisites: Admittance to the Teacher Education program, PHI 303 or EDU 570, ESL 420, EED 473, or EED 573c, and junior status.

EED 463 **3 hours**
Curriculum and Methods: Social Studies

Every semester and every Summer. 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 multi-cultural classrooms. Prerequisites: Admittance to the Teacher Education program, PHI 303, EDU 313, EED 323, ESL 420, EED 343, three hours of history, and senior status.

EED 473 / 573c* **3 hours**
Curriculum and Methods: Literacy: Reading/Language Arts

Every semester. 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. Prerequisites: Admittance to the Teacher Education Program, PHI 303, and ESL 420, junior status required.

EED 480 / 580c* **12 hours**
Student Teaching: Elementary School

Every Fall and Spring. Only Summer if a school is available. 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: Admission to the Teacher Education program is required. Required courses for elementary certificate, a 2.50 GPA, and senior status. Credit only; no grade is given.

EED 503 **4 hours**
Curriculum and Methods: Mathematics

Every semester. The formulation of programs for the individual child in order to teach the theory and practice of elementary mathematics is an integral part of this course. The utilization of games and manipulative materials in the classroom and the mathematics curriculum in the elementary school are included as part of the course content. Theory and practice will be correlated through research topics. Prerequisites: Admittance to the M.Ed. program, MAT 130, MAT 131, EDU 570, and EED 523c.

EED 563 **3 hours**
Curriculum and Methods: Social Studies

Every semester and every Summer. This course is designed to assist the elementary teacher with methods of instruction, unit and daily lesson plan construction, available materials and resources, and current developments in the field. Laboratory experiences will include multi-cultural classrooms. Prerequisites: Admittance to the M.Ed. program, EED 523c, ESL 520, EDU 513c, EDU 570, and three hours of history.

EED 583 **3 hours**
Elementary School Mathematics

On demand. 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 **3 hours**
Elementary School Science

On demand. 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. Prerequisites: Elementary, Secondary, or Special Education Certificate.

* A "c" after 500 level courses designates master's level certification courses.

READING EDUCATION

RDG 503 **3 hours**
Foundations in Reading

Every Summer on demand. This course is designed to provide an in-depth view of reading instruction and its foundations with an understanding of the linguistic and cognitive basis for the reading process. Prerequisites: Elementary, Secondary, or Special Education Certificate, and EED 473 or EED 573c or SED 452 or SED 552.

RDG 504 **3 hours**
Innovative Reading Programs

Every Fall on demand. This course critically examines current new practices and developing innovations in the field of Reading Education. A minimum of three areas of current promise and/or concern for the practitioner will be explored in-depth each semester. Prerequisites: Elementary, Secondary, or Special Education Certificate, EED 473 or EED 573c, and SED 452 or SED 552.

RDG 505 **3 hours**
Diagnosis and Remediation of Reading Problems

Every Fall on demand. The ability to measure a reader's reading comprehension, logical language production, ability to deal with the grammatical structures of printed language, word recognition, and word identification are all important components of this course. Prescribing, planning, and implementing measures to remediate deficiencies in one or more of these areas is included as part of the course. Prerequisites: Elementary, Secondary, or Special Education Certificate, EED 473 or EED 573c, SED 452 or SED 552, RDG 503, and RDG 504.

RDG 580 **3 hours**
Internship in Reading

Every semester and Summer on demand. This course is designed for the student who wishes to explore the role of Reading Specialist. The student will spend up to 135 hours in a K-12 district setting. The time may be divided between actual involvement in a school setting and research into the diverse role of the reading specialist. Supervision will be conducted/provided by the College of Education reading faculty and/or cooperating administrator in the field. Prerequisites: Admittance to the M.A. program, Elementary, Secondary, or Special Education Certificate, EDU 613, EED 473 or EED 573c, SED 452 or SED 552, RDG 503, RDG 504, RDG 505, and RDG 606.

RDG 606 **3 hours**
Research in Reading

Every Spring on demand. This course will take an in-depth look at reading research and how it applies to the classroom. Prerequisites: Elementary, Secondary, or Special Education Certificate, EED 473 or EED 573c, SED 452 or SED 552, RDG 503, RDG 504, and RDG 505.

ENG 571 **3 hours**
Adolescent Literature

Every Spring. Also ENG 471. A course for students who wish to read and examine literature being written for adolescents. Novels from a variety of genres will be studied. A variety of contemporary issues will be traced through adolescent literature. Prerequisite: Bachelor's degree.

ENG 573 **3 hours**
Children's Literature and Storytelling

Every Fall. Also ENG 473. 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 this type of literature and the techniques of storytelling are also studied. Prerequisite: Bachelor's degree.

SECONDARY EDUCATION

SED 442 / 542c* **3 hours**
Secondary Methods

Every semester and every Summer on demand. Designed to help teachers and prospective teachers of young adults to 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 which encourages problem-solving, active participation, and assessment. Prerequisites: PHI 303 or EDU 570c, and EDU 313/513c (may be taken concurrently); EDU 363/563c is recommended.

SED 443 **3 hours**
Secondary Curriculum Development and Assessment

Every semester and every Summer, on demand. A study of secondary school curriculum development. Major emphasis is given to planning instructional objectives, planning lessons, assessing objectives, and developing a model curriculum. Prerequisites: Admittance to the Teacher Education Program, PSY 373, PHI 303, EDU 313, SED 442, (SED 453 and SED 462 maybe taken concurrently).

SED 452 **3 hours**
Reading and Learning Strategies for Middle and Secondary School

Every semester taken concurrently with SED 462/562c. 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. Prerequisites: Admittance to the Teacher Education program, PHI 303, EDU 313, and SED442 (may be taken concurrently).

SED 462 / 562c* **2 hours**
Secondary Practicum

Every semester taken concurrently with SED 452. 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: Admittance to the Teacher Education program, PHI 303 or EDU 570, and EDU 313.

SED 480 / 580c* **12 hours**
Student Teaching: Secondary School

Every Fall and Spring. Summer only if a school is available. 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: Admission to the Teacher Education program, required courses for elementary certificate, a 2.50 GPA, and senior status. Credit only; no grade is given.

SED 543 **3 hours**
Secondary Curriculum Development and Assessment

Every semester and every Summer, on demand. A study of secondary school curriculum development. Major emphasis is given to planning instructional objectives, planning lessons, assessing objectives, and developing a model curriculum. Prerequisites: Admittance to the Teacher Education Program, PSY 373, EDU 571, EDU 513c, SED 542, SED 552 and SED 562c.

SED 552 **3 hours**
Reading and Learning Strategies for Middle and Secondary School

Every semester taken concurrently with SED 562c. This course is designed to assist pre-service and in-service teachers in developing a broad range of reading, 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. An investigation into reading and the use of literature to teach all content areas is a component of the course. Integrated or thematic approaches will be emphasized. Prerequisites: Admittance to the M.Ed. program, EDU 570, and EDU 513c or EDU 571. May be taken concurrently with SED 562.

* A "c" after 500 level courses designates master's level certification courses.

SPECIAL EDUCATION

SPE 325 / 525*Δ **3 hours**
Educating Learners with Diverse Needs

Every semester. This course is a survey of the unique learning needs of exceptional students. A Writing-Intensive course. Prerequisite: PSY 101.

SPE 345 / 545c* **3 hours**
Characteristics of Students with Mental Retardation

Every Fall and Spring. 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. Prerequisite: SPE 325/525c.

SPE 355 / 555c* **3 hours**
Characteristics of Students with Learning Disabilities

Every Spring. This course is designed to provide the prospective special education teacher with advanced knowledge of the etiology of learning disabilities. Included in this course are diagnostic techniques and related remedial practices. Prerequisite: SPE 325.

SPE 365 / 565c* **3 hours**
Characteristics of Students with Emotional and Behavioral Disorders

Every Fall. An advanced study of the characteristics of individuals with emotional and behavioral disorders and the school-based educational programs designed to meet their needs. Prerequisite: SPE 325.

SPE 376 / 576c* **3 hours**
Strategies for Teaching Students with Learning Disabilities

Every Spring. 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-hour 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).

SPE 386 / 586c* **3 hours**
Strategies for Teaching Students with Emotional and Behavioral Disorders

Every Fall. 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-hour 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).

SPE 376 / 576c* **3 hours**
Strategies for Teaching Students with Learning Disabilities

Every Fall. An advanced study to provide the prospective special education teacher with an understanding of persons with mental retardation (MR), including related theories and research, characteristics, and etiology of mental retardation. Prerequisite: SPE325.

SPE 408 / 508c* **2 - 6 hours**
Student Teaching in Special Education: Learning Disabilities

Every semester. A practicum course designed to give the student teacher experience in teaching children with learning disabilities. All-day assignment for ten weeks in an approved school. Prerequisites: Required courses for Special Education Certificate, a 2.50 GPA, and admission to the Teacher Education Program. Credit only; no grade is given.

SPE 418 / 518c* **2 - 6 hours**
Student Teaching in Special Education: Emotional Disabilities

Every semester. A practicum course designed to give the student teacher experience in teaching children with emotional and behavioral disorders. All-day assignment for ten weeks in an approved school. Prerequisites: Admission to the Teacher Education program, required courses for Special Education Certificate, and a 2.50 GPA. Credit only; no grade is given.

SPE 428 / 528c* **2 - 6 hours**
Student Teaching in Special Education: Mental Retardation

Every semester. A practicum course designed to give the student teacher experience in teaching children with mental retardation. All-day assignment for a semester in an approved school. Prerequisites: Admission to the Teacher Education program, required courses for Special Education Certificate, and a 2.50 GPA. Credit only; no grade is given.

SPE 435 **3 hours**
Diagnosis and Assessment in Special Education

Every Spring. Characteristics and uses of diagnostic instruments which can be used to identify, evaluate, and assess learning needs of exceptional students. Prerequisites: Admittance to the Teacher Education program, SPE 325, SPE 355, SED 345 or SPE 365, and SPE 376 or SPE 386.

SPE 535 **3 hours**
Diagnosis and Assessment in Special Education

Every Spring. Characteristics and uses of diagnostic instruments which can be used to identify, evaluate, and assess learning needs of exceptional students. Prerequisites: Admittance to the graduate program, SPE 525c, SPE 545, SPE 555 or SPE 565, SPE 576, and SPE 586 (may be taken concurrently).

* A "c" after 500 level courses designates master's level certification courses.

TEACHING ENGLISH AS A SECOND LANGUAGE

ESL 410 **3 hours**
Advanced Language Teaching Methodologies and Assessment

Every Fall. Also ESL 510. A thorough examination of available methodologies, underlying philosophies, and assessment procedures. Included are lessons in teaching the four recognized skill areas (listening, speaking, reading, writing) within the content areas and the use of standard tests. Prerequisite: ESL 423.

ESL 411 **3 hours**
Language Teaching Curriculum and Materials Design

Every Spring on demand. Also ESL 511. An integration of general school curriculum, materials, and the specific English language teaching goals and actual design and rendering of instructional materials. Prerequisite: ESL 423.

ESL 414 **3 hours**
English in its Social and Historical Setting

Every semester. Also ESL 514. An exploration of English language variation across sociocultural context and time. Implications for building culturally appropriate ways of interacting in professional settings are discussed.

ESL 420 **1 or 3 hours**
English Linguistics

Every semester. Also ESL 520. 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.

ESL 423 **3 hours**
English Language Teaching Foundations and Methodologies

Fall and Summer semesters on demand. Also ESL 523. 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. Prerequisites: ESL 420 (or may be taken concurrently).

ESL 480 **3 hours**
Internship in ESL

Every semester. Also ESL 580. 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 510 **3 hours**
Advanced Language Teaching Methodologies and Assessment

Every Fall. Also ESL 410. A thorough examination of available methodologies, underlying philosophies, and assessment procedures. Included are lessons in teaching the four recognized skill areas (listening, speaking, reading, writing) within the content areas and the use of standard tests. Prerequisite: ESL 523 or concurrent enrollment.

ESL 511 **3 hours**
Language Teaching Curriculum and Materials Design

Every Spring on demand. An integration of general school curriculum, materials, and the specific English language teaching goals and actual design and rendering of instructional materials. Prerequisite: ESL 423.

ESL 514 **3 hours**
English in its Social and Historical Setting

Every semester. An exploration of English language variation across sociocultural context and time. Implications for building culturally appropriate ways of interacting in professional settings are discussed.

ESL 520 **3 hours**
English Linguistics

Every semester. Also ESL 420. 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.

ESL 523 **3 hours**
English Language Teaching Foundations and Methodologies

Fall and Summer semesters on demand. Also ESL 423. 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. Prerequisite: ESL 520 (or may be taken concurrently).

ESL 530 **3 hours**
Advanced Grammar for English Language Teaching

Every other Spring on demand. A descriptive grammar of English, this course is specifically designed to aid teacher understanding of the nature of language and the processes of language use.

ESL 580 **3 hours**
Internship in ESL

Every semester. Also ESL 480. The student is assigned to an approved, experienced teacher or coordinator of programs for ESL for one semester. The internship is individualized and arrangements can be made based on student needs. Prerequisites: ESL 514, ESL 520, and ESL 523.

EDUCATION ADMINISTRATION

EDA 529m **1 hour**
Education Administration Foundation and Framework

Every semester. This course provides the foundation and framework of a leadership program that is an evolving, customized, educational blueprint consisting of a triangulated, interdependent relationship to reach beyond the national standards. This course will investigate the behaviors and strategies that promote critical thinking and self-directed, reflective skills. Intergenerational relationships and networking teams are amalgamated in the course structure. Today's educator needs to evaluate and incorporate information and communication technologies, along with cognitive and brain research, into a pedagogically sound learning environment. The student will master organizational teaching and learning strategies to use in the education system.

EDA 530 **3 hours**
Education Leadership

Every semester. Today's educational leaders need to possess a broad variety of skills that enable them to function comfortably and effectively in changing environments and under highly politicized conditions (Razik, iii). This course meets the Inter State School Leaders Licensure Consortium (ISLLC) Standard #2. 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.

EDA 531 **3 hours**
Survey of Organizational Theory in Educational Administration

Every semester. The challenges in today's schools are increasing in frequency, complexity, and intensity, requiring school leaders to enter the school environment with practical experience that prepares them to take immediate and definitive action regarding multifaceted issues. This course meets the Inter State School Leaders Licensure Consortium (ISLLC) Standard #1. This course provides a "new paradigm" for the school leader to apply the fundamental concepts of organizational theories and models to educational enterprises.

EDA 580 **2-12 hours**
Internships with Mentor Guides

Every semester. 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. The internship provides options for students consisting of six (6) modules and a maximum of twelve (12) credit hours. Courses can be taken dependent on individual state requirements for administrative certification.

EDA 580m-1 **2 hours**
Lead with Vision

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of all students by facilitating the development, articulation, implementation, and stewardship of a vision of learning that is shared and supported by the school community.*

EDA 580m-2 **2 hours**
Create a Positive Climate/Culture

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of educational leaders by advocating, nurturing, and sustaining a school culture and instructional program conducive to educational leader learning and staff professional growth.*

EDA 580m-3 **2 hours**
Manage Effectively

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of all students by ensuring management of the organization, operations, and resources for a safe, efficient, and effective learning environment.*

EDA 580m 4 **2 hours**
Work Collaboratively with Community

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of all students by ensuring management of the organization, operations, and resources for a safe, effective learning environment.*

EDU 580m-5 **2 hours**
Ethics

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of all students by acting with integrity, fairness and in an ethical manner.*

EDA 580m-6 **2 hours**
Respond/Influence Political, Social, Economic, Legal & Cultural Context

Every semester. These internships meet the Inter-State School Leaders Licensure Consortium (ISLLC) national standards. *A school administrator is an educational leader who promotes the success of all students understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context.*

EDA 532 **3 hours**
Legal Issues in Education

Every semester. Educational leaders need to anticipate, recognize, and address potential legal problems, make informed judgments and decisions, and seek legal counsel when necessary. This course responds to a portion of the Inter State Leaders Licensure Consortium (ISLLC) Standard #6. Upon completion of the course, educational leaders will possess an understanding of the legal principles, along with the origin and development of laws governing American schools.

EDA 533 **3 hours**
Public School Finance

Every semester. Today's leaders are faced with the challenge of adequate and equitable financing of education. Because of the pervasive nature of school finance, this course responds to a portion of each of the six national standards of the Inter State Leaders Licensure Consortium (ISLLC). Upon completion of this course, the student will understand 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 **3 hours**
The Principalship

Every semester. Personal 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 Inter-State School Leaders Licensure Consortium (ISLLC) Standard.

EDA 541 **3 hours**
Assistant Principalship

Every semester. 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) Administration of guidance services. This course is designed to meet portions of the ISLLC Standards 3: A school administrator is an educational leader who promotes the success of all students by ensuring management of the organization, operations, and resources for a safe, efficient, and effective learning environment.

EDA 550 **3 hours**
Supervision

Every semester. Today's leaders are faced with the challenge of improving teaching and learning in classrooms. Because of the pervasive nature of supervision and instructional leadership, this course responds to several of the six national standards of the Inter-State School Leaders Licensure Consortium (ISLLC) but will focus on the ISLLC's Standard Two: *A school administrator is an educational leader who promotes the success of all educational leaders by advocating, nurturing, and sustaining a school culture and instructional program conducive to educational leader learning and staff professional growth.* 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 **3 hours**
Curriculum Development

Every semester. A school administrator must understand the connections and interworkings of curriculum in order to be able to direct and guide teachers in content areas for the achievement of desired results. 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 Inter State Leaders Licensure Consortium (ISLLC) Standard #2.

EDA 570 **3 hours**
Action Research in Education Administration

Every semester. Today's educator must have convincing evidence that practices meet accountability standards. This course is designed to give the student the theoretical foundation and framework of 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 actin-research project. The student's research project will be personalized to his/her school.

EDA 590 **2 hours**
Technology in Administration

Every semester. This course responds to a portion of the Inter-State School Leaders Licensure Consortium (ISLLC) Standard 3 and 6. Course description is being developed.

EDA 591 **2 hours**
Current Issues in Primary Level

Every semester. Today's educator must have critical thinking skills to investigate and evaluate current trends and issues from various perspectives to arrive at a justified, rational decision. This course will provide information, connections, and events pertinent to the aspiring administrator at an international, national, state, regional, and local level. This course responds to a portion of the Inter-State School Leaders Licensure Consortium (ISLLC) Standard 1 and 3. The outcome of this course will allow the aspiring administrator to summarize, draw conclusions, and dialogue with other professionals about current issues in education.

EDA 592 **2 hours**
Current Issues in Middle Level

Every semester. Today's educator must have critical thinking skills to investigate and evaluate current trends and issues from various perspectives to arrive at a justified, rational decision. This course will proved information, connections, and events pertinent to the aspiring administrator at an international, national, state, regional, and local level. This course responds to a portion of the Inter-State School Leaders Licensure Consortium (ISLLC) Standard 1 and 3. The outcome of this course will allow the aspiring administrator to summarize, draw conclusions, and dialogue with other professionals about current issues in education.

EDA 593 **2 hours**
Current Issues in Secondary Level

Every semester. Today's educator must have critical thinking skills to investigate and evaluate current trends and issues from various perspectives to arrive at a justified, rational decision. This course will provide information, connections, and events pertinent to the aspiring administrator at an international, national, state, regional, and local level. This course responds to a portion of the Inter-State School Leaders Licensure Consortium (ISLLC) Standard 1 and 3. The outcome of this course will allow the aspiring administrator to summarize, draw conclusions, and dialogue with other professionals about current issues in education.

EDA 594 **3 hours**
International Comparative Education

Every semester. This course is an introduction to educational philosophies, methods, and patterns of control, financing, organization and relationship with the larger society in selected countries of the world. The emphasis is upon comparison, and a comprehensive social science methodology is utilized which examines historical, political, economic and social factors that serve as the foundation for the educational systems of nations. This course responds to a portion of the Inter-State School Leaders Licensure Consortium (ISLLC) Standard 2 and 6.

EDA 599m **2 hours**
Capstone

Every semester. The final course for the M.Ed. Online would be the Electronic Portfolio that will be guided by the goals/standards of the specific degree program. This two-credit course will culminate in a single e-portfolio. The student will review all course projects and assignments in his/her Canyon Cruiser Homepage and select specific artifacts that demonstrate mastery of the program goals/standards.

The College of Liberal Arts

MISSION STATEMENT

The College of Liberal Arts is the foundational college at Grand Canyon University. It serves the University community as a whole by supporting the courses of the University Liberal Arts Foundation (ULAF), and it provides advanced courses of study for students majoring in the traditional areas of the liberal arts, along with the social sciences and the fine arts. In the college's courses, students are given the opportunity to learn to effectively express their knowledge by acquiring skills in critical thinking, communication, problem solving, research, artistic techniques, and performance.

COLLEGE DESCRIPTION

To accomplish the mission of the college, students are presented with theoretical perspectives examining the workings of the human mind, our cultural diversity, and the integration of faith and discipline. In addition, they receive the opportunity to develop talents in various fine arts. The college aims to produce individuals with a broad range of knowledge, special competence in a particular branch of academics, and individuals who possess attitudes and skills for intellectual discipline and lifelong learning.

COLLEGE FEATURES

The faculty have committed themselves to providing training in communication for all students matriculating through courses within the University. Graduating students should have the tools for effective academic and professional discourse. Thus, many courses within the college have writing and speaking components. Acquiring these tools will enable students to be articulate, both within their chosen discipline and within larger academic and professional contexts.

The College of Liberal Arts provides courses for the University Liberal Arts Foundation (ULAF), which equip Grand Canyon University students with a theoretical framework for more focused work in their majors, and for understanding our diverse culture. The college provides the largest variety of majors and minors of any academic unit.

In addition, the college is dedicated to developing the talent of students through majors in performing and other fine arts areas. A wide range of curricular and extracurricular opportunities exist to help students develop in musical performance and knowledge, in various visual and plastic arts, and in theatrical performance and production.

The Department of Music is a candidate for accreditation in the National Association of Schools of Music and is currently following the guidelines set by NASM.

Art, Music, Theatre, and Speech scholarships are available by audition and/or portfolio review.

DEGREE OFFERINGS

MAJORS:

Applied Music (Music Performance)	B.A.
Art Education (Certification Required)	B.A.
Church Music	B.M.
Communications	B.A.
English Literature	B.A.
English Teaching (Certification Required)	B.A.
Graphic Design	B.A.
History	B.A.
International Studies	B.A.
Justice Studies	B.S.
Mathematics	B.S.
Mathematics (Engineering)	B.S.
Mathematics (Secondary Teaching)	B.S.
Music Education (Certification Required)	B.S.
Political Science	B.A.
Psychology	B.S.
Sociology	B.S.
Speech Teaching (Certification Required)	B.S.
Speech/Theatre	B.A.
Studio Art	B.A.
Theatre/Drama	B.A.

MINORS:

Behavioral Sciences	Political Science
Critical Thinking and Expression	Psychology
English	Social Science
German	Sociology
History	Spanish
Humanities	Speech
Justice Studies	Studio Art
Mathematics	Theatre/Drama
Music	Writing/Journalism
Photography	

UNIVERSITY LIBERAL ARTS FOUNDATION FOR THE COLLEGE OF LIBERAL ARTS †

The University Liberal Arts Foundation (ULAF) for the College of Liberal Arts differs slightly from the University Liberal Arts Foundation found on page 30. Students majoring in the College of Liberal Arts must complete all requirements listed below as part of the ULAF for the College of Liberal Arts. Changes and additional requirements are indicated by italicized print.

I. Christian Perspectives: **6 hours**

Track 1: BIB 113 Old Testament History (3) **AND**
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND

One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication: **10 hours**

A. English — 6 hours*
Δ ENG 101 Academic Writing (3)
Δ ENG 102 Research Writing (3)

B. Speech — 3 hours
SPC 113 Fundamentals of Speech (3)

C. Computer Literacy — 1 hour
CIS 180 Computer Information Systems Module (1)

III. Heritage: **6 hours**

A. History — 3 hours
Any history course with an "HIS" prefix
Recommended courses:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)

B. Literary and Philosophical Tradition — 3 hours
Any literature course with an "ENG" prefix
or any philosophy course with a "PHI" prefix

IV. Personal and Social Environment: **3 hours**

Any economics (ECN), foreign language (FRE, GER, SPA, etc), geography (GEO), political science (POS), psychology (PSY), or sociology (SOC) course

V. Mathematical Inquiry: **3 hours**

MAT 120 Intermediate Algebra (3)
or higher mathematics course

VI. Scientific Inquiry: **4 hours**

Any biology (BIO), chemistry (CHM), geology (GLG), or physics (PHY) course which contains a laboratory component

VII. Fine Arts: **3 hours**

Any art, music, or theatre course

Additional requirement for College of Liberal Arts majors *2 hours*
Any physical education activity courses
Recommended course:
PED 195 Lifetime Wellness (2)

Total University Liberal Arts Foundation Requirement: **37 hours**

† Students in the College of Liberal Arts with a Secondary Education major complete only the University Liberal Arts Foundation requirements for the College of Education (see pages 65).

* Students who qualify for ΔENG 103, Honors Composition, may satisfy the requirements of the English section of Core Area II by successfully completing this course. This may reduce the total ULAF requirements to 34 hours for those students.

Δ Writing-Intensive course.

As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines: and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count towards meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers, and receive a grade for the effectiveness of the written assignments.

Department of Art

DEPARTMENT DESCRIPTION

The education of an artist is best accomplished when there is an emphasis on the development of visual capacity together with the full realization of intellectual and spiritual growth. Bachelor of Arts degrees are offered in Art Education, Graphic Design, and Studio Art. The Art Education program offers the student the knowledge and skills necessary to teach art in the elementary or secondary classroom. Graphic Design majors receive classroom instruction from graphic artists, computer training, professional portfolio development, and internships. The Studio Art program provides a specialization in two-dimensional or three-dimensional art.

Both full- and part-time faculty bring professional experience and artistic talent to the classroom. Courses are designed to involve the student in active participation and to develop artistic skills in critical appreciation, historical understanding, the forming of art objects, and the teaching of art. Lower division courses are open to all students with no prerequisites.

Scholarships are available through portfolio review.

The A.P. Tell Gallery Series features international works, national and local artists, and student exhibitions.

DEGREE REQUIREMENTS — ART EDUCATION (B.A. DEGREE; No Minor Required)

Entrance into the Art Education major requires successful completion of ART 111 Drawing I, DGN 112 Two-Dimensional Design, DGN 115 Three-Dimensional Design, and three hours in a selected art area. A 3.00 GPA must be achieved in the above courses. A review by art faculty will help to direct the student's academic pursuit.

University Liberal Arts Foundation for Secondary Education Program (see page 65).

Admission to Teacher Education programs (see pages 63-64).

Secondary Education major required (see page 63).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Anyone seeking K-12 endorsement must also student teach art at the elementary level.

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Art Education Major *

ARE	323	Art Media and Methods for the Elementary Teacher	3 hours
ARE	423	Art in the Secondary School	3 hours
ARH	233	Art History I	3 hours
ARH	234	Art History II	3 hours
ARH	—	Art History Elective	3 hours
ART	111	Drawing I	3 hours
ART	201	Photography I	3 hours
ART	213	Basic Shop Techniques	3 hours
ART	223	Painting I	3 hours
ART	263	Ceramics I	3 hours
† ART	—	Studio Art Electives	12 hours
DGN	112	Two-Dimensional Design	3 hours
DGN	115	Three-Dimensional Design	3 hours
		Total Major Hours	**48 hours**

* Please refer to the College of Education for Secondary Education major requirements. K-12 Endorsement is available with 16 hours of student teaching (EED 480 -grades K-6 and SED 480 - grades 7-12).

† Six hours must be upper division credit.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — GRAPHIC DESIGN (B.A. DEGREE; No Minor Required)

Entrance into the Graphic Design major requires successful completion of ART 111 Drawing I, DGN 112 Two-Dimensional Design, DGN 223 Advertising Design, and DGN 233 Graphic Design I. A 3.00 GPA must be achieved in the above courses. A review by art faculty will help to direct the student's academic pursuit.

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Graphic Design Major

Lower Division Core

ARH	233	Art History I	3 hours
ARH	234	Art History II	3 hours
ART	111	Drawing I	3 hours
ART	201	Photography I	3 hours
ART	211	Drawing II	3 hours
ART	318	Figure Drawing	3 hours
DGN	112	Two-Dimensional Design	3 hours
DGN	223	Advertising Design	3 hours
DGN	233	Graphic Design I	3 hours
DGN	263	Computer Graphics I	3 hours

Upper Division Core

DGN	411	Graphic Design Internship I	3 hours
DGN	431	Art Portfolio	3 hours
DGN	333	Graphic Design II	3 hours
DGN	363	Computer Graphics II	3 hours
DGN	433	Graphic Design III	3 hours
DGN	434	Graphic Design IV	3 hours
DGN	463	Computer Graphics III	3 hours
DGN	464	Computer Graphics IV	3 hours
ΔDGN	310	Communication Design	3 hours
DGN	498	Advanced Topics In Graphic Design	3 hours
ΔENG	411	Creative Writing	3 hours
		Total Major Hours	**63 hours**

Δ Writing-Intensive course

DEGREE REQUIREMENTS — STUDIO ART
(B.A. DEGREE; No Minor Required)

Entrance into the Studio Art major requires successful completion of ART 111 Drawing 1, DGN 112 Two-Dimensional Design, DGN 115 Three-Dimensional Design, and three hours in a selected art area. A 3.00 GPA must be achieved in the above courses. A review by art faculty will help to direct the student's academic pursuit.

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Studio Art majors will prepare and exhibit a Senior Art Show.

Studio Art Core Hours	42 hours
Two-Dimensional or Three-Dimensional Emphasis Hours	21 hours
Total Major Hours	**63 hours**

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Studio Art Core (Required for all Studio Art majors)

ARH	233	Art History I	3 hours
ARH	234	Art History II	3 hours
ΔARH	—	Art History elective	3 hours
ART	111	Drawing I	3 hours
ART	211	Drawing II	3 hours
ART	213	Basic Shop Techniques	3 hours
ART	223	Painting I	3 hours
ART	231	Sculpture I	3 hours
ART	263	Ceramics I	3 hours
ART	318	Figure Drawing	3 hours
ΔART	401	Art Seminar	3 hours
ART	431	Portfolio Preparation	3 hours
DGN	112	Two-dimensional Design	3 hours
DGN	115	Three-dimensional Design	3 hours
		Total Studio Art Core Hours	**42 hours**

Additional Emphasis Requirements (Select one):

1. Two-Dimensional Emphasis — **9 hours**

ART	201	Photography I (3)
ART	252	Printmaking I (3)
ART	323	Painting II (3)

Upper Division Electives — **12 hours**
(No more than two medias represented)

ART	311	Drawing III (3)
ART	411	Drawing IV (3)
ART	301	Photography II (3)
ART	351	Photography III (3)
ART	451	Photography IV (3)
ART	352	Printmaking II (3)
ART	452	Printmaking III (3)
ART	462	Printmaking IV (3)
ART	423	Painting III (3)
ART	433	Painting IV (3)

Total Two-Dimensional Emphasis — **21 hours**

2. Three-Dimensional Emphasis — **9 hours**

ART	272	Jewelry I (3)
ART	331	Sculpture II (3)
ART	363	Ceramics II (3)

Upper Division Electives — **12 hours**
(No more than two medias represented)

ART	383	Ceramics III (3)
ART	483	Ceramics IV (3)
ART	372	Jewelry II (3)
ART	472	Jewelry III (3)
ART	482	Jewelry IV (3)
ART	341	Sculpture III (3)
ART	441	Sculpture IV (3)

Total Three-Dimensional Emphasis — **21 hours**

MINOR REQUIREMENTS — PHOTOGRAPHY

DGN 112 and ART 201 are required; the elective classes are listed by prefix, not in the order they should be taken. See academic advisor for sequence.

Required Courses

DGN	112	Two Dimensional Design	3 hours
ART	201	Photography 1	3 hours

Elective Courses

ART or JRN		Electives in photography (12 hours) to be chosen from the following classes	12 hours
	ART 301	Photography 2	
	ART 351	Photography 3	
	ART 451	Photography 4	
	ART 498	Special Topics in Art History: History of Photography	
	JRN 341	Photojournalism I	
	JRN 343	Photojournalism II	
	JRN 383	Publications Photography	
		Total Minor Hours	**18 hours**

MINOR REQUIREMENTS — STUDIO ART*

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

ART	111	Drawing I	3 hours
ARH	233	Art History I **OR**	
ARH	234	Art History II	3 hours
† ART	---	Studio Art electives	9 hours
DGN	112	Two-Dimensional Design **OR**	
DGN	115	Three-Dimensional Design	3 hours
		Total Minor Hours	**18 hours**

* Students wanting to use Studio Art as a teaching minor must take ARE 323 and ARE 423 to increase hours to 24. Please refer to the College of Education for certification requirements.

† Three hours must be upper division credit.

Δ Writing-Intensive course

ART EDUCATION

ARE 323 **3 hours**
Art Media and Methods for the Elementary Teacher

Introduction to the language and structure of art education with an emphasis on practical hands-on experiences suitable for children at various elementary levels. Includes specific knowledge of two- and three-dimensional processes, classroom observation, and actual teaching experience. Attention is also given to the study of the art work of children of all ages from early childhood to mid-adolescence. Prerequisites: Admission to the College of Education and junior status.

ARE 423 **3 hours**
Art in the Secondary School

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.

ART HISTORY

ARH 100 **3 hours**
Art Appreciation

Every semester. 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.

ARH 233 **3 hours**
Art History I

A survey of ancient Near Eastern, Egyptian, Greek, Roman, and Medieval European art up to the Renaissance.

ARH 234 **3 hours**
Art History II

A survey of Occidental Art during the Renaissance, Mannerist, Baroque, Rococo, Neo-Classic, Romantic and Modern epochs.

ARH 439Δ **3 hours**
Contemporary Art

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.

ARH 442Δ **3 hours**
American Art

An overview of the history of art in the United States from European settlement of the New World to today. A Writing-Intensive course.

ARH 498 **3 hours**
Special Topics in Art History

On demand. Topics of interest in Art History not covered in other courses. Examples of topics might include specific subject matter such as the history of photography, aesthetics, or the art of a specific era, people or region. May be repeated for credit under different titles. Prerequisite: Instructor approval.

ART STUDIO

ART 111 **3 hours**
Drawing I

Every semester. An introduction to the basic elements of line, value, texture, and surface manipulation with emphasis on composition and dry media usage such as pencils and charcoal.

ART 201 **3 hours**
Photography I

Every semester. 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 laboratory sessions.

ART 211 **3 hours**
Drawing II

Every Spring. Exploration of rendering objects and landscapes through the use of a variety of wet and dry media, color pencils, pastels, as well as mixed media. Prerequisite: ART 111 or instructor's approval.

ART 213 **3 hours**
Basic Shop Techniques

Every Fall. An introduction to shop techniques and how they relate to the various fields of art. Emphasis will be on construction of specific projects relating to other department courses and on the operation of shop equipment.

ART 223 **3 hours**
Painting I

Every Fall. Introduction to the preparation, use of materials, and methods of painting with an emphasis on color theory and composition. Prerequisite: ART 111.

ART 231 **3 hours**
Sculpture I

Every Fall. An introduction to the sculpting processes of carving, modeling, and fabricating, emphasizing volume, movement, and space.

ART 252 **3 hours**
Printmaking I

Every Spring. An introduction to basic techniques of printmaking such as etching, monoprinting, aquatint, and linocut processes. Creative ideas will be emphasized as well as the development of basic technical skills.

ART 263 **3 hours**
Ceramics I

Every semester. An introduction to the nature of clay and glazes, with an emphasis placed on the forming techniques of hand-building.

ART 272 **3 hours**
Jewelry I

Every Fall. An introduction to the basic jewelry processes of working with metal and silversmithing techniques, lost-wax casting, ceramic jewelry, fused glass, mixed media, polyforms, and plastics.

ART 301 **3 hours**
Photography II

Every Spring. 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. Prerequisite: ART 201.

ART 311 **3 hours**
Drawing III

By arrangement. A study of advanced studio problems and techniques in drawing. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 111, and ART 211.

ART 318 **3 hours**
Figure Drawing

Every Spring. This course is designed to familiarize the student in rendering the human figure effectively and accurately. Using live models, the scope of this course includes studies in proportion, perception, anatomy, composition, and expression with a variety of drawing materials. Prerequisites: ART 211.

ART 323 **3 hours**
Painting II

An exploration of techniques of underpainting, glazing, impasto, and direct easel wets, with an emphasis on color thinning and experimentation. Prerequisite: ART 223 or instructor's approval.

ART 331 **3 hours**
Sculpture II

Every Spring. Continued exploration of sculpting processes of casting, carving, and plastics. Prerequisite: ART 231.

ART 332 **3 hours**
Art Workshop

Every Summer. Designed to offer the student the opportunity to experience the use of a special process or medium in a workshop setting. May be repeated for credit under different medium titles.

ART 341 **3 hours**
Sculpture III

By arrangement. A study of advanced studio problems and techniques in sculpture. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 231, and ART 331.

ART 351 **3 hours**
Photography III

By arrangement. Advanced studio problems and techniques in photography. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 201, and ART 301.

ART 352 **3 hours**
Printmaking II

Spring 2002, and alternate years. In-depth exploration of printmaking processes with emphasis on developing awareness in contemporary application. Photographic processes will be examined. Prerequisite: ART 252.

ART 363 **3 hours**
Ceramics II

Every Spring. An exploration of using the potter's wheel and continued study of the process of forming clay. Emphasis is also placed on glaze application and surface decoration. Prerequisite: ART 263.

ART 372 **3 hours**
Jewelry II

Every Spring. A continuation of the techniques of jewelry-making with advanced problems in fabrication and casting. Emphasis will be on creative design and developing an awareness of contemporary trends.

ART 383 **3 hours**
Ceramics III

By arrangement. Advanced studio problems and techniques in ceramics. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 263, and ART 363.

ART 401Δ **3 hours**
Art Seminar

Fall, alternate years. Introduction to the business of art. Students will learn the techniques needed to successfully market themselves as professional artists and acquire the information and skills needed for application to graduate programs and careers in art. A Writing-Intensive course. Prerequisites: Senior standing or instructor approval.

ART 411 **3 hours**
Drawing IV

By arrangement. Continuation of advanced studio problems and techniques in drawing. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 311.

ART 423 **3 hours**
Painting III

By arrangement. A study in advanced studio problems and techniques in painting. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 223, and ART 323.

ART 431 **3 hours**
Portfolio Preparation

Every semester. The student will prepare and present a showing of upper division art in area of concentration along with a slide portfolio and resumé. Prerequisite: Instructor's approval.

ART 433 **3 hours**
Painting IV

By arrangement. Continuation of advanced studio problems and techniques in painting. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 423.

ART 441 **3 hours**
Sculpture IV

By arrangement. Continuation of advanced studio problems and techniques in sculpture. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 341.

ART 451 **3 hours**
Photography IV

By arrangement. Continuation of advanced studio problems and techniques in photography. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 351.

ART 452 **3 hours**
Printmaking III

By arrangement. A study in advanced studio problems and techniques in printmaking. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 252, and ART 352.

ART 462 **3 hours**
Printmaking IV

By arrangement. Continuation of advanced studio problems and techniques in printmaking. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 452.

ART 472 **3 hours**
Jewelry III

By arrangement. A study in advanced studio problems and techniques in jewelry. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval, ART 272, and ART 372.

ART 482 **3 hours**
Jewelry IV

By arrangement. Continuation of advanced studio problems and techniques in jewelry. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 472.

ART 483 **3 hours**
Ceramics IV

Every Spring. Continuation of advanced studio problems and techniques in ceramics. Course may be repeated for up to six hours of credit. Prerequisites: Instructor's approval and ART 383.

DESIGN STUDIO

DGN 112 **3 hours**
Two-Dimensional Design

Every Fall. Basic principles of art such as color, shape, line, and form are explored in laboratory and lecture. Also examines the communicative value of visual images.

DGN 115 **3 hours**
Three-Dimensional Design

Every Spring. Explores basic principles of the structural aspects of plastic arts, with emphasis on the analysis of volume and space relationships.

DGN 223 **3 hours**
Advertising Design

Every semester. An introduction to basic guidelines and principles for developing successful advertising designs will be explored through studio work and lecture. No drawing experience is necessary. Prerequisite: DGN 263.

DGN 233 **3 hours**
Graphic Design I

Every Fall. Exploration of formal resources, conceptual principles and procedures underlying the practice of graphic design. Specific emphasis will be

placed on the process of problem solving by design; the visualization of problems and solutions, and the correlation of forms with their content, function and context. Prerequisite: ART 111.

DGN 263 **3 hours**
Computer Graphics I

Every semester. A fundamental overview of graphics programs. Emphasis on Quark and Illustrator.

DGN 310Δ **3 hours**
Communication Design

Every Fall. Introduction to practical design principles, layout, and comprehensive techniques. Students become familiar with the tools, methods, materials and media used in the fields of advertising and graphic design. Historical aspects of the field are discussed. Emphasis on copy, problem solving and conceptual thinking, and the development of a professional attitude. A Writing-Intensive course. Prerequisite: DGN 233.

DGN 333 **3 hours**
Graphic Design II

Every Spring. Emphasis on strong visual concepts and economy of thought in basic graphic forms, focusing on typography as a medium and message of design. Solutions developed for realistic graphic design problems. Prerequisite: DGN 233.

DGN 363 **3 hours**
Computer Graphics II

Every Spring. A fundamental overview of graphics programs. Emphasis on Photoshop and Dimensions. Prerequisite: DGN 263.

DGN 411 **3 hours**
Graphic Design Internship I

Every semester. 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, acceptance into Graphic Design Program, and instructor's approval.

DGN 412 **3 hours**
Graphic Design Internship II

Every semester. Continuation of DGN 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisites: Instructor's approval and DGN 411.

DGN 431 **3 hours**
Portfolio Preparation

Every semester. Designed to prepare students to enter the work force. Individual attention provided to refine portfolios to make them more competitive, and to produce a resumé and other self-promotion pieces. Also involves a seminar-style of psychological, physical, emotional, and spiritual issues related to the business of creativity, and the promotion of successful attitudes and creative marketing abilities. Prerequisite: Instructor's approval.

DGN 433 **3 hours**
Graphic Design III

Every Fall. Students develop sound conceptual thinking and problem-solving skills through the creation and implementation of specific design systems. Advanced application of the grid to facilitate the integration of typography and visuals. Prerequisite: DGN 333.

DGN 434 **3 hours**
Graphic Design IV

Every Spring. Students develop sophisticated abilities through problem solving activities geared toward the increase of graphic design professionalism, awareness and skills. Portfolio work prepared. Prerequisite: DGN 433.

DGN 463 **3 hours**
Computer Graphics III

Every Fall. A fundamental overview of 3-D graphics applications. Emphasis on Painter and 3-D programs. Prerequisite: DGN 363.

DGN 464 **3 hours**
Computer Graphics IV

Every Spring. A fundamental overview of film and video applications. Emphasis on After-Effects and Premier. Prerequisite: DGN 463.

DGN 498 **3 hours**
Special Topics in Graphic Design

On Demand. Topics of interest to graphic designers not covered in-depth in other courses will be offered. Prerequisite: Instructor's Approval.

Topics include:

498 A Advanced Advertising Design
498 B Animation and Video Design
498 C Digital Pre-press
498 D Editorial and Publication Design
498 E Exhibit Graphics
498 F Identity Systems
498 G Media Projects
498 H Package Design
498 I Public Signage and Graphics
498 J On-line Media Design
498 K Sequential Design
498 L Audio and Video Packaging
498 M Community Service Workshop

Department of Communications & Speech

DEPARTMENT DESCRIPTION

The Department of Communications and Speech seeks to enable students to communicate effectively, think critically, and develop skills in a variety of disciplines. Courses are designed to provide students with skills in the areas of art, business, English, journalism, and speech. This experience offers students preparation for professional work in the fields of communications and speech teaching. The department supports a competitive speech team and readers theatre ensembles that offer many performance opportunities.

PERFORMANCE ENSEMBLES

Canyon Tales, comprised of prospective teachers, performs a variety of literature in both public and private schools.

Word Power, Inc. is dedicated to sharing and spreading Christ's love though dramatic presentations and creative worship.

Performance and participation scholarships are available by audition.

PUBLICATION LABS

Canyon Echoes, newspaper.

This publication is staffed and edited by students under faculty leadership.

THE COMMUNICATIONS DEGREE PROGRAM

The Communications major offers a unique interdisciplinary field of study. Coursework comes from the areas of art, business, English, journalism, and speech. The degree is broadly based in order to provide a wide variety of experiences. An area of emphasis is provided to help prepare the student for professional work in the field of broadcasting, journalism, photojournalism, and public relations.

DEGREE REQUIREMENTS — COMMUNICATIONS (B.A. DEGREE; No Minor Required)

Entrance into the Communications Major will require successful completion of the lower division (100-200 level) communications core courses, ENG 101 and 102, or ENG 103. A 2.5 grade point average must be achieved in the above courses. A review by communications faculty will help to direct the student's academic pursuit.

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Additional emphasis hours required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Communications Lower Division Major Core			
ART	201	Photography I	3 hours
CIS	180 A	Beginning Word *	1 hours
CIS	180 D	Desktop Publishing	1 hours
CIS	180 L	Powerpoint	1 hours
COM	003	Communications Orientation	0 hours
DGN	223	Advertising Design	3 hours
DGN	263	Computer Graphics I	3 hours
ENG	201	Intermediate Grammar	3 hours
JRN	200	News Writing and Reporting	3 hours
JRN	201	Publications I	3 hours
SPC	113	Fundamentals of Speech	3 hours
SPC	292	Group Discussion	3 hours
Communications Upper Division Major Core			
COM	301	Broadcasting	3 hours
COM	310	Principles of Public Relations	3 hours
Δ COM	314	Intercultural Communication	3 hours
Δ ENG	301	Advanced Composition	3 hours
Δ ENG	313	Business and Technical Writing	3 hours
JRN	314	Small Newspaper I	3 hours
SPC	311	Advanced Public Speaking	3 hours
SPC	398	Communications and the Media	3 hours

Δ Writing-Intensive course.

		Total Communications Core Hours	**51 hours**

Additional Emphasis Requirements (Select one)

1. Broadcasting Emphasis

COM	307	Sports Broadcasting **OR**	
COM	399	Broadcasting Practicum	3 hours
COM	417	Broadcasting Internship I	3 hours
COM	418	Broadcasting Internship II	3 hours
COM	498	Advanced Topics	3 hours
SPC	318	Voice and Diction	3 hours
SPC	378	Oral Interpretation of Literature	3 hours
		Total Emphasis Hours	**18 hours**

2. Journalism Emphasis

COM	411	Journalism Internship I	3 hours
COM	412	Journalism Internship II	3 hours
ENG	315	Historical and Social Aspects of English	3 hours
JRN	300	Advanced News Writing and Reporting	3 hours
JRN	414	Small Newspaper II (two semesters)	6 hours
		Total Emphasis Hours	**18 hours**

3. Photojournalism Emphasis

ART	301	Photography II	3 hours
COM	413	Photojournalism Internship I	3 hours
COM	414	Photojournalism Internship II	3 hours
JRN	341	Photojournalism I	3 hours
JRN	343	Photojournalism II	3 hours
JRN	383	Publications Photography	3 hours
		Total Emphasis Hours	**18 hours**

4. Public Relations Emphasis

COM	415	Public Relations Internship I	3 hours
COM	416	Public Relations Internship II	3 hours
COM	498	Advanced Topics	3 hours
JRN	300	Advanced News Writing and Reporting	3 hours
MKT	301	Principles of Marketing	3 hours
MKT	304	Promotion and Advertising	3 hours
		Total Emphasis Hours	**18 hours**

DEGREE REQUIREMENTS — SPEECH TEACHING (B.S. DEGREE; Minor Recommended)

University Liberal Arts Foundation for Secondary Education Program (see page 65).

Admission to Teacher Education program (see page 63-64).

Secondary major required (see page 63).

Minor recommended.

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence. Writing-Intensive courses will be taken as part of the Secondary Education major.

Speech Teaching Major Core

COM	123	Dramatic Arts for Teachers	3 hours
COM	305	Parliamentary Procedure	3 hours
SPC	113	Fundamentals of Speech	3 hours
SPC	200	Speech Participation	1 hour
SPC	292	Group Discussion	3 hours
SPC	300	Speech Participation	1 hour
SPC	311	Advanced Public Speaking	3 hours
SPC	318	Voice and Diction	3 hours
SPC	378	Oral Interpretation of Literature	3 hours
SPC	398	Communications and the Media	3 hours

Advanced Studies

SPC	399	Practicum	6 hours
SPC	420	Readers Theatre Workshop	3 hours
		Total Speech Teaching Hours	35 hours

DEGREE REQUIREMENTS — SPEECH/THEATRE

For Speech/Theatre major, see Theatre Department (see page 114).

MINOR REQUIREMENTS — SPEECH

SPC	113	Fundamentals of Speech	3 hours
SPC	200	Speech Participation OR	
SPC	300	Speech Participation	1 hour
SPC	292	Group Discussion	3 hours
SPC	311	Advanced Public Speaking	3 hours
SPC	318	Voice and Diction	3 hours
SPC	378	Oral Interpretation of Literature	3 hours
SPC	398	Communications and the Media	3 hours
		Total Minor Hours	**19 hours**

COMMUNICATIONS

COM 003 — **0 hours**
Communications Orientation

Every semester. Meets one time during the semester to acquaint students with the application process for the Communications degree. COM 003 is required of all Communications majors as part of the lower division core.

COM 123 — **3 hours**
Dramatic Arts for Teachers

Every semester. Designed to acquaint prospective teachers with the importance of performance in the classroom. Emphasis is placed on teacher improvisation, performance, and individual style. Students will participate in group presentations, role playing, simulation, and individual performance. Required for undergraduate education majors.

COM 301 — **3 hours**
Broadcasting

Every Spring. An overview of broadcasting and electronic media for radio and television. Prerequisite: Junior or senior status or instructor's approval.

COM 305 — **3 hours**
Parliamentary Procedure

Every Summer. An in-depth study of Parliamentary Procedure both in theory and practice. Research in the history of Parliamentary Law is included. Prerequisite: SPC 113 or SPC 292 or instructor's approval.

COM 307 — **3 hours**
Sports Broadcasting

Every Summer. Also PED 307. A course designed to teach students the basic components of sports related radio or television broadcasting.

COM 310 — **3 hours**
Principles of Public Relations

Every Fall. 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 314Δ — **3 hours**
Intercultural Communication

Every Fall. 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 399 — **1 - 4 hours**
Practicum

Every semester. See page 25.

COM 411 — **3 hours**
Journalism Internship I

Every semester. 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.

COM 412 — **3 hours**
Journalism Internship II

Every semester. Continuation of COM 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 411.

COM 413 — **3 hours**
Photojournalism Internship I

Every semester. 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.

COM 414 **3 hours**
Photojournalism Internship II

Every semester. Continuation of COM 413. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 413.

COM 415 **3 hours**
Public Relations Internship I

Every semester. 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.

COM 416 **3 hours**
Public Relations Internship II

Every semester. Continuation of COM 415. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 415.

COM 417 **3 hours**
Broadcasting Internship I

Every semester. 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.

COM 418 **3 hours**
Broadcasting Internship II

Every semester. Continuation of COM 417. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 417.

COM 498 **3 hours**
Advanced Topics

On demand. Topics of interest in communications not covered in depth in other courses will be considered. Prerequisite: Instructor's approval.

COM 499 **3 hours**
Independent Study

Every semester. See page 25.

JOURNALISM

JRN 200 **3 hours**
News Writing and Reporting

Every semester. A course designed for students wishing to learn the basic skills of news writing and reporting.

JRN 201 **3 hours**
Publications I

Every semester. A course designed to give the student basic skills and practical experience in the processes which lead to the production and distribution of a student publication. Laboratory experience provided.

JRN 300 **3 hours**
Advanced News Writing and Reporting

Every semester. A course designed for students who have completed JRN 200 or its equivalent. Students will have the opportunity to expand their news writing and reporting skills through story assignments and freelance writing. Prerequisite: JRN 200 or instructor's approval.

JRN 301 **3 hours**
Publications II

Every semester. Continuation of JRN 201. May be repeated for a maximum of six hours of credit. Prerequisite: JRN 201 or instructor's approval.

JRN 314 **3 hours**
Small Newspaper I

Every semester. A course that presents the principles of journalism as they apply to the small newspaper. Laboratory experience provided by the University newspaper. Prerequisite: JRN 200.

JRN 341 **3 hours**
Photojournalism I

Fall 2004, and alternate years. An exploration of techniques and skills necessary to take many different types of photographs which communicate and inform the public and appear in large and small publications. Topics include documentary, news, action, environmental, feature, and people photography. Prerequisite: ART 201.

JRN 343 **3 hours**
Photojournalism II

Spring 2005, and alternate years. A continuation of techniques and skills presented in JRN 341. In addition, students will take assignments in editorial, sequence, pictorial, portrait, and advertising photography. This class provides an opportunity for students to develop a portfolio. Prerequisite: JRN 341.

JRN 383 **3 hours**
Publications Photography

Every semester. A course designed to give students practical experience in producing photographs for college publications. Laboratory experience provided. May be repeated for a maximum of six hours of credit. Prerequisites: ART 201 and instructor's approval.

JRN 399 **3 hours**
Practicum

Every semester. See pages 25.

JRN 414 **3 hours**
Small Newspaper II

Every semester. Continuation of JRN 314. May be repeated for a maximum of six hours of credit. Prerequisite: JRN 200 or JRN 314, or instructor's approval.

JRN 499 **1 - 4 hours**
Independent Study

Every semester. See page 25.

SPEECH

SPC 113 **3 hours**
Fundamentals of Speech

Every semester. A basic course which emphasizes voice, diction, and basic principles of oral communication. It is normally a prerequisite to all other courses in speech and communications.

SPC 200 **1 hour**
Speech Participation

Every semester. A hands-on participation course, whereby students may choose the area of speech in which they are most interested and work in that area. Students should select from either assisting the organization and running of speech tournaments, judging in speech contests, or other activities in related fields. Prerequisite: Instructor's approval.

SPC 292 **3 hours**
Group Discussion

Every semester. The study of the communication process as it relates to the theory and techniques of group discussion. Participation in discussion groups. Prerequisite: SPC 113 or instructor's approval.

SPC 300 **1 hour**
Speech Participation

Every semester. Same as SPC 200.

SPC 301 **1 hour**
Ensemble Performance (Word Power, Inc./Canyon Tales)

Every semester. Select auditioned ensemble. Provides opportunity for a wide variety of performance experiences in the church, the community, and competition. Prerequisites: Audition and instructor's approval.

SPC 311 **3 hours**
Advanced Public Speaking

Every semester. An intense study of the techniques and practice of public speaking. Emphasis is on the development of skills necessary to perform informative, persuasive, and entertaining speeches before audiences. Prerequisite: SPC 113 or instructor's approval.

SPC 318 **3 hours**
Voice and Diction

Every Fall. A basic study of phonetics, principles of voice production, vocabulary building, and the correction of weaknesses in voice production and enunciation.

SPC 378 **3 hours**
Oral Interpretation of Literature

Every Spring. A study of the methods and techniques of interpretative oral reading of varied types of literature. Prerequisite: SPC 113 or COM 123, or instructor's approval.

SPC 398 **3 hours**
Communications and the Media

Every Spring. A study of communication processes specifically within the context of mass media. Prerequisite: Junior or senior status or instructor's approval.

SPC 399 **1 - 4 hours**
Practicum

On demand. See pages 25.

SPC 420 **3 hours**
Readers Theatre Workshop

Every Summer. This course is designed to give students opportunities for organization, production, and performance of readers theatre. A variety of literature will be explored. Audiences will vary. Prerequisite: COM 123 or SPC 378, or instructor's approval.

SPC 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

Department of Humanities

DEPARTMENT DESCRIPTION

The Department of Humanities is comprised of the traditional disciplines of the liberal arts which 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 is committed to the concept that "all truth is God's truth" and seeks to integrate historic Christian truths into the various disciplines.

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 majors in English Literature and English Teaching and minors in English and Writing/Journalism. English majors are given the opportunity to gain the knowledge and professional competence to effectively communicate in written and oral discourse. They also gain a wider knowledge in American literature, English literature, linguistics, grammar, and the history of English.

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 International Studies major is designed for students who may enter such varied fields as diplomacy, government service, international communications, world-wide religious service, and other fields where international understanding and expertise is required.

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.

DEGREE REQUIREMENTS — ENGLISH LITERATURE (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor Required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

English Literature Major

ENG	200	Analysis of World Literature	3 hours
ENG	221	English Literature I	3 hours
ENG	222	English Literature II	3 hours
ENG	341	American Literature I	3 hours
ENG	342	American Literature II	3 hours
ENG	201	Intermediate Grammar OR	
ENG	314	English Syntax	3 hours
ENG	315	English in Its Social and Hist. Settings	3 hours
ENG	413	The Novel	3 hours
ENG	421	Shakespeare	3 hours
Δ ENG	490B	Senior Seminar: Literature	3 hours
Δ†ENG	—	Writing Electives	6 hours
ENG	—	English Electives	6 hours
		Total Major Hours	**42 hours**

† Two of the following courses must be taken: ΔENG 301 (Advanced Composition), ΔENG 313 (Business and Technical Writing), ΔENG 411 (Creative Writing), or ENG 498 (Special Topics in English).

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — ENGLISH TEACHING* (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Education Secondary Education Program (see page 65).

Secondary Education major required.

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

English Teaching Major

ENG	200	Analysis of World Literature	3 hours
ENG	221	English Literature I	3 hours
ENG	222	English Literature II	3 hours
ENG	300	English Practicum	2 hours
Δ ENG	301	Advanced Composition	3 hours
ENG	314	English Syntax	3 hours
ENG	315	English in Its Social and Hist. Settings	3 hours
ENG	341	American Literature I	3 hours
ENG	342	American Literature II	3 hours
ENG	413	The Novel	3 hours
ENG	421	Shakespeare	3 hours
Δ ENG	490A	Senior Seminar: English Teaching	3 hours
ENG	—	Writing Electives	3 hours
ENG	—	English Electives	6 hours
		Total Major Hours	**44 hours**

* Please refer to the College of Education for secondary certification.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — HISTORY (B.A. DEGREE: Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

History Major

HIS 103	Early American History	3 hours
HIS 104	Recent American History	3 hours
HIS 105	Western Civilization to 1500	3 hours
HIS 106	Western Civilization Since 1500	3 hours

ΔHIS	246	History and Historians	3 hours
HIS	---	American History	6 hours

Select two of the following courses:
- HIS 303 The History of Christianity in America (3)
- HIS 343 Colonial America (3)
- HIS 409 Civil War and Reconstruction (3)
- HIS 345 America in the Twentieth Century (3)
- HIS 498 Advanced Topics: American History

HIS	---	European History	6 hours

Select two of the following courses:
- HIS 312 Foundations of Western Thought (3)
- HIS 322 Medieval History (3)
- HIS 333 The Renaissance and Reformation (3)
- HIS 352 History of England (3)
- HIS 367 Modern Europe (3)
- HIS 413 Russian History (3)
- HIS 498 Advanced Topics: Non-Western History OR
- HIS 317 Studies in the Non-Western World

ΔHIS	490	Historical Research	3 hours
HIS	---	Upper Division History Electives	3 hours
		Total Major Hours	**36 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — INTERNATIONAL STUDIES (B.A. DEGREE: Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

International Studies Major

Group I: Foundation **15 - 31 hours**

GEO	121	World Geography (3)
HIS	105	Western Civilization to 1500 OR
HIS	106	Western Civilization since 1500 (3)
PSY	101	Introduction to Psychology (3
PHI	225	Introduction to Ethics (3)
SOC	101	Introduction to Sociology (3)
		Foreign Language of choice (16)

Students must pass 16 hours of coursework in a second language or demonstrate proficiency in listening, speaking, and reading by examination.

Group II: Core Development **15 hours**

ΔCOM	314	Intercultural Communications (3)
PHI	463	World Religions (3)
POS	323	International Relations (3)
SOC	313	Cultural Anthropology (3)
SOC	498	Advanced Topics: Third World Issues (3)

Group III: Research Development **3 hours**

‡ UNV	300	Study Abroad (0)
ΔUNV	490	International Studies Seminar (3)

Group IV: Electives **12 hours**

HIS	413	Russia and Eastern Europe (3)
HIS	317	Studies in the Non-Western World (3)
HIS	498	Advanced Topics: Latin American History (3)
POS	380	Comparative Governments (3)
ENG	200	Analysis of World Literature (3)
ENG	315	English in its Social and Historical Settings (3)
*BUS	305	International Business I (3)
* BUS	306	International Business II (3)
HTH	323	Christian Missions
HTH	498	Special Topics In Historical/Theological Studies (with Missions Emphasis)
ECN	201	Macroeconomics (3)
ECN	202	Microeconomics (3)
POS	497	Political Science Internship (3)
POS	498	Advanced Topics: Public Policy (3)
SPA	373	Hispanic Civilization (3)
FIN	425	International Trade and Finance
MKT	425	International Marketing
		Total Major Hours **45 - 61 hours**

(Nine of these may be used Old Testament meet ULAF requirements)

† An approved course of study at a recognized international college or university, an international program sponsored by the Council of Christian Colleges and Universities, or a Grand Canyon University international studies program. All students must register with the Grand Canyon Center for International Education before beginning these hours. A minimum of six weeks must be spent living abroad.

* The College of Business and Professional Studies will waive prerequisites for BUS 305 and BUS 306.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — ENGLISH*

ENG	200	Analysis of World Literature	3 hours
ENG	201	Intermediate Grammar OR	
ENG	314	English Syntax	3 hours
ΔENG	301	Advanced Composition	3 hours
ENG	413	The Novel	3 hours
ENG	421	Shakespeare	3 hours

Electives chosen from:

ENG	221	English Literature I (3)	
ENG	222	English Literature II (3)	
ENG	341	American Literature I (3)	
ENG	342	American Literature II (3)	9 hours
		Total Minor Hours	**24 hours**

* Students desiring teaching certification should refer to the College of Education for certification requirements.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — GERMAN*

GER	201	Intermediate German I	4 hours
GER	202	Intermediate German II	4 hours
GER	311	German Conversation	3 hours
GER	312	German Composition	3 hours
GER	363	Civilization of Germany	3 hours
GER	423	Survey of German Literature	3 hours
		Total Minor Hours	**20 hours**

* Students desiring teaching certification should take 24 hours. Please refer to the College of Education for certification requirements.

MINOR REQUIREMENTS — HISTORY*

HIS	103	Early American History	3 hours
HIS	104	Recent American History	3 hours
HIS	105	Western Civilization to 1500	3 hours
HIS	106	Western Civilization Since 1500	3 hours
ΔHIS	246	History and Historians	3 hours
HIS	---	Upper Division History Electives	6 hours
		Total Minor Hours	**21 hours**

* Students desiring teaching certification take 24 hours. Please refer to the College of Education for certification requirements.

Δ Writing-Intensive course.

MINOR REQUIREMENTS— HUMANITIES

From at least four of the following areas a student must complete 18 hours, six of them Upper Division.

Art	Literature	Philosophy	Theatre
Foreign Language	Music	Speech	

MINOR REQUIREMENTS — PHILOSOPHY

See J. Niles Puckett Center for Christian Studies.

MINOR REQUIREMENTS — SPANISH*

SPA	201	Intermediate Spanish I	4 hours
SPA	202	Intermediate Spanish II	4 hours
SPA	304	Spoken Spanish	3 hours

SPA	312	Spanish Composition and Grammar	3 hours
SPA	342	Reading and Analysis of Literary Texts	3 hours
SPA	362	Advanced Spanish Composition and Literature	3 hours
SPA	---	Upper Division Spanish Elective	3 hours
		Total Minor Hours	**23 hours**

* Students desiring teaching certification should take 24 hours. Please refer to the College of Education for certification requirements.

MINOR REQUIREMENTS — WRITING/JOURNALISM

ΔENG	301	Advanced Composition	3 hours
ENG	201	Intermediate Grammar OR	
ENG	314	English Syntax	3 hours
Select electives from:			3 hours
ΔENG	313	Business and Technical Writing (3)	
ENG	315	English in its Social and Historical Settings (3)	
ΔENG	411	Creative Writing (3)	
ENG	498	Special Topics in English	
JRN	200	News Writing and Reporting (3)	
JRN	201	Publications I (3)	
JRN	300	Advanced News Writing and Reporting (3)	
JRN	314	Small Newspaper I (3)	
JRN	414	Small Newspaper II (3)	

Students select one of two emphases, Writing or Journalism.

Writing emphasis:			
ΔENG	313	Business and Technical Writing	3 hours
ENG	315	English in its Social and Hist. Settings	3 hours
ΔENG	411	Creative Writing	3 hours
OR			
Journalism emphasis:			
JRN	200	News Writing and Reporting	3 hours
JRN	314	Small Newspaper I	3 hours
JRN	414	Small Newspaper II	3 hours
		Total Minor Hours	**18 Hours**

Δ Writing-Intensive Course.

ENGLISH

ENG 101Δ **3 hours**
Academic Writing

Every semester. A course in writing academic prose, including various types of essays, arguments and constructions. A Writing-Intensive course.

ENG 102Δ **3 hours**
Research Writing

Every semester. 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. Prerequisites: ENG 101.

ENG 103Δ **3 hours**
Honors Composition

Every Fall. 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 **3 hours**
Analysis of World Literature

Every Fall. A study of the significant works, literary movements, and literary genres 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 **3 hours**
Intermediate Grammar

Every Fall. A review of basic English syntax, form, and mechanics. The course also introduces principles of grammar and linguistics. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 221 **3 hours**
English Literature I

Every Fall. 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 **3 hours**
English Literature II

Every Spring. Continuation of ENG 221, covering the period from the Romantic period through the Modern Period. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).

ENG 300 **2 hours**
English Practicum

Every semester. Guided practical experience in tutoring and evaluating writing. Prerequisite: English Teaching majors only or instructor's approval.

ENG 301Δ **3 hours**
Advanced Composition

Every Spring. A course for students who wish to develop their skills in academic and nonfiction writing. A Writing-Intensive course. Prerequisites: Grade of 2.00 or above in ENG 101 and ENG 102, or ENG 103.

ENG 313Δ **3 hours**
Business and Technical Writing

Every semester. A course designed to present the best practices in writing business communications and technical reports. A Writing-Intensive course. Prerequisites: ENG 101 and ENG 102, or ENG 103.

ENG 314 **3 hours**
English Syntax

Every Fall and Spring on demand. A study of the syntax and mechanics of English grammar from contemporary linguistic perspectives. Prerequisites: Mastery of ENG 201 and diagnostic examination.

ENG 315 **3 hours**
English in Its Social and Historical Settings

Every Spring. An exploration of the historical development of English and its variations across social contexts. Prerequisite: ENG 201 or instructor's approval.

ENG 324 **3 hours**
Studies in Poetry

Every Spring. 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 **3 hours**
American Literature I

Every Fall. 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 **3 hours**
American Literature II

Every Spring. 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 **3 hours**
The Short Story

Every Fall. A study of the short story, its development, the different types, and an analysis of technique. Prerequisite: Junior status.

ENG 399 **1 - 4 hours**
Practicum

Every semester. A course which develops student learning through service in the community. Prerequisite: Junior standing or instructor's approval.

ENG 411Δ **3 hours**
Creative Writing

Every Fall. A course for students who are particularly interested in writing fiction or poetry. May be repeated for a maximum of 6 hours. A Writing-Intensive course. Prerequisites: ENG 101 and ENG 102, or ENG 103.

ENG 413 **3 hours**
The Novel

Every Fall. 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 **3 hours**
Shakespeare

Every Spring. A study of major Shakespearean comedies and tragedies and of Shakespeare's development as a dramatist. Prerequisite: ENG 221 or junior status.

ENG 453 **3 hours**
Christianity and Literature

Every Spring. 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 **3 hours**
Adolescent Literature

Every Spring. Also ENG 571 in the College of Education. A course for students who wish to read and examine the literature being written for adolescents. Novels from a variety of genres will be studied and a variety of contemporary issues will be traced through adolescent literature.

ENG 473 **3 hours**
Children's Literature and Storytelling

Every Fall. Also ENG 573 in the College of Education. 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 this type of literature and the techniques of storytelling are also studied.

ENG 490A∆ **3 hours**
Senior Seminar: English Teaching

Every Fall. Methods of organizing and presenting content and evaluating student and teacher performance in the teaching of English in middle and high school. A Writing-Intensive course. Prerequisites: Declared English Teaching major and senior status.

ENG 490B∆ **3 hours**
Senior Seminar: Literature

Every Spring. An exploration of English as a discipline. Students study the interpretation of literature, the methodology of writing, and career opportunities. A Writing-Intensive course. Prerequisites: Declared English Literature major and junior status.

ENG 498 **3 hours**
Special Topics in English

On demand. Topics of interest to language and literature specialists, not covered in-depth in other courses, will be considered. Examples of topics might include: specific authors such as Milton or Chaucer; genre studies; studies in sociolinguistics; studies in discourse analysis. May be repeated for credit. Prerequisite: Instructor's approval.

ENG 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

HISTORY

HIS 103 **3 hours**
Early American History

Every semester. A study of European expansion in America, the English colonies, colonial institutions, the American Revolution and Constitution, the launching of the new government, nationalism and sectionalism, westward expansion, slavery, and the Civil War.

HIS 104 **3 hours**
Recent American History

Every semester. Continuation of HIS 103. Deals with problems in the wake of the Civil War, postwar expansion, the Industrial Revolution in America, transition to a world power, and domestic and foreign issues of the 20th century.

HIS 105 **3 hours**
Western Civilization to 1500

Every Fall. A survey of the ancient and medieval world. Political, intellectual, socioeconomic, and religious factors are examined.

HIS 106 **3 hours**
Western Civilization Since 1500

Every semester. A continuation of HIS 105 (but students need not have taken HIS 105 before taking HIS 106). A survey of Western civilization since 1500.

HIS 246∆ **3 hours**
History and Historians

Every Spring. An exploration of the historical discipline. Students will examine the meaning and interpretations of history and its methodology. Career opportunities will be reviewed. Required for all history majors and minors. A Writing-Intensive course. Prerequisites: Nine hours from the following: HIS 103, HIS 104, HIS 105, and HIS 106, or instructor's approval.

HIS 303 **3 hours**
The History of Christianity in America

Every Spring. 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 312 **3 hours**
Foundations of Western Thought

Also PHI 312. A survey of the development of Western Thought from ancient Greece through the Middle Ages, with particular emphasis on the contributions of Plato and Aristotle. Prerequisite: HIS 105 or instructor's approval.

HIS 317 **3 hours**
Studies in the Non-Western World

Every Fall. A study of the non-western world. Geographic areas studied will vary. Emphasis will be on culture, history, and contemporary situations. Prerequisite: Three semester hours of history or instructor's approval.

HIS 322 **3 hours**
Medieval History

On demand. A survey of the medieval world. Political, intellectual, socioeconomic, aesthetic and religious factors will be considered. Prerequisites: HIS 105 and HIS 246.

HIS 333 **3 hours**
The Renaissance and Reformation

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 106.

HIS 343 **3 hours**
Colonial America

Fall 2004 and alternate years. 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 **3 hours**
Modern America

Fall 2003 and alternate years. 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 352 **3 hours**
History of England to 1714

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 103 and HIS 246, or instructor's approval.

HIS 353 **3 hours**
History of Christianity

Also HTH 353. A study of the significant movements within the church from New Testament times through the Reformation. Special emphasis is given to the ancient Christian Church, the Church Fathers, heresies, monasticism, the Papacy, and the practices and problems of the Church. Prerequisite: Three semester hours of history.

HIS 367 **3 hours**
Modern Europe

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 106 and HIS 246, or instructor's approval.

HIS 409 **3 hours**
Civil War and Reconstruction

Spring 2003 and alternate years. An examination of the causes, conduct and consequences, both political and military, of the American Civil War and reconstruction. Prerequisite: HIS 103, HIS 104, HIS 246, or instructor's approval.

HIS 413 **3 hours**
Russian History

A study of the Russian peoples and their rulers from the earliest times to the present. Prerequisites: HIS 105, HIS 106, and HIS 246, or instructor's approval.

HIS 416 **3 hours**
American Diplomatic History

Also POS 416. The diplomatic history of the Untied States from independence to the present. A major emphasis is given to United States diplomacy and foreign policy since World War I. Prerequisites: Six (6) hours of history and/or political science, or instructor's approval.

HIS 417 **3 hours**
Constitutional History of the United States

Also POS 417. 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) hours of history or political science, or instructor's approval.

HIS 431 **3 hours**
American Military History

On demand. A survey of the development of the American military and militia system from its English origin through the present. The principles of warfare and military leadership, the soldier's experience on the battlefield, and the place of the military within the American democracy are threads of continuity woven by the instructor through the course. Prerequisite: HIS 103, HIS 104, HIS 246, or instructor's approval.

HIS 490Δ **3 hours**
Historical Research

Every Fall. An exploration of historical research. Required of all history majors. A Writing-Intensive course. Prerequisites: HIS 103, HIS 104, HIS 105, HIS 106, HIS 246, history major, and instructor's approval.

HIS 497 **1 - 4 hours**
Internship in History

Every semester. 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. See Department Chair for specific information. Prerequisite: 20 hours of history.

HIS 498 **3 hours**
Advanced Topics

On demand. Topics of interest to historians, not covered in depth in other courses, will be offered. Prerequisite: Instructor's approval.

HIS 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

MODERN LANGUAGES

Chinese

CHI 101 **4 hours**
Elementary Chinese I

On demand. A class stressing conversation; uses a text, practice tapes, and cultural information to develop basic understanding, speaking, reading, and some writing skills.

CHI 102 **4 hours**
Elementary Chinese II

On demand. Continuation of CHI 101. Prerequisite: CHI 101 or equivalent.

French

FRE 101 **4 hours**
Elementary French I

Every Fall. A study stressing conversation and the fundamentals of grammar and pronunciation, and simple composition, together with graded reading.

FRE 102 **4 hours**
Elementary French II

Every Spring. Continuation of FRE 101. Prerequisite: FRE 101 or equivalent.

FRE 201 **4 hours**
Intermediate French I

Every Fall. Review, composition, and extensive speaking and reading. Prerequisite: FRE 102.

FRE 202 **4 hours**
Intermediate French II

Every Spring. Continuation of FRE 201. Prerequisite: FRE 201.

FRE 311 **3 hours**
French Conversation

Every Fall. This course helps students improve their oral fluency in French through class discussions of contemporary issues, readings, and topics from popular media with practice in vocabulary, pronunciation, and intonation. Included will be a focus on cultural awareness and customs. Prerequisite: FRE 202 or instructor's approval.

FRE 312 **3 hours**
French Composition

Every Spring. This course helps students improve their writing in French. They will develop skills in a variety of writing forms, such as portrait, description, narration and textual analysis. Organization of ideas and articulation will be emphasized. Prerequisite: FRE 311 or instructor's approval.

FRE 498 **3 hours**
Special Topics in French

On demand. Topics of interest to language and literature specialists not covered in-depth in other courses. May be repeated for credit. Prerequisite: Instructor's approval.

FRE 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

German

GER 101 **4 hours**
Elementary German I

Every Fall. A program of study using a text-workbook, practice tapes, and classroom experience to develop the fundamentals of understanding, speaking, reading, and writing.

GER 102 **4 hours**
Elementary German II

Every Spring. Continuation of GER 101. Prerequisite: GER 101.

GER 201 **4 hours**
Intermediate German I

Every Fall. Reading of appropriate German texts, study-review of grammar, and practice in conversation to increase fluency in the basic skills. Prerequisite: GER 102.

GER 202 **4 hours**
Intermediate German II

Every Spring. Continuation of GER 201. Prerequisite: GER 201 or instructor's approval.

GER 311 **3 hours**
German Conversation

Every Fall. Contemporary topics and cultural comparisons are the basis of the conversation class. The class strengthens the student's command of spoken German. Prerequisite: GER 201 or instructor's approval.

GER 312 **3 hours**
German Composition

Every Spring. A course designed to give the student practice in writing in German about current issues and selected topics. Prerequisite: GER 201 or instructor's approval.

GER 356 **3 hours**
Heidelberg, Germany Tour

On demand. An opportunity to combine intensive communicative courses in the German language and culture in a centuries-old German setting. Prerequisite: Instructor's approval.

GER 363 **3 hours**
Civilization of Germany

Every Fall. Introduction to German Civilization through historic, social, political, and economic aspects from the beginning to the present time.

GER 423 **3 hours**
Survey of German Literature

Every Spring. Designed to expose the student to a wide range of German literary periods and styles, and to advance the student's reading competence. Prerequisite: GER 312 or instructor's approval.

GER 480 **3 hours**
Foreign Language Methods

On demand. This course focuses on analysis and description of second language learning specific to the targeted language; evaluation procedures; methods and trends of teaching a modern foreign language. Prerequisite: GER 312.

GER 497 **1 - 4 hours**
German Internship

Every semester. 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. See department chair for specific information. Prerequisite: Instructor's approval.

GER 498 **3 hours**
Special Topics in German

On demand. In-depth study of chosen topics. Prerequisite: Instructor's approval.

GER 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

ITA 101 **4 hours**
Elementary Italian

Every Spring. A program of study using text, workbook, practice tapes, classroom experience, and lab to develop the fundamentals of understanding, speaking, reading and writing.

Russian

RUS 101 **4 hours**
Elementary Russian I

On demand. A study stressing conversation but including reading, writing, and grammar.

RUS 102 **4 hours**
Elementary Russian II

On demand. Continuation of RUS 101. Prerequisite: RUS 101.

Spanish

SPA 101 **4 hours**
Elementary Spanish I

Every Fall. 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.

SPA 102 **4 hours**
Elementary Spanish II

Every Spring. Continuation of SPA 101. Prerequisite: SPA 101 or equivalent.

SPA 201 **4 hours**
Intermediate Spanish I

Every Fall. This course further builds Spanish vocabulary and language structure. Oral practice, short compositions, textbook readings, and cultural activities are stressed. Prerequisite: SPA 102.

SPA 202 **4 hours**
Intermediate Spanish II

Every Spring. Continuation of SPA 201. Prerequisite: SPA 201.

SPA 304 **3 hours**
Spoken Spanish

Every Fall. This course will provide students who have already been prepared with three or more semesters of Spanish language an opportunity to develop or fluency in Spanish. Further, the course will introduce students to attitudes, values, and cultural patterns prevalent in the Spanish-speaking world. Prerequisite: SPA 202.

SPA 312 **3 hours**
Advanced Composition and Grammar

Every Fall. Designed to give the student practice in writing in Spanish. Prerequisite: SPA 304.

SPA 342 **3 hours**
Reading and Analysis of Literary Texts

Every Spring. 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.

SPA 362 **3 hours**
Advanced Spanish Grammar and Literature

Every Spring. 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. Prerequisite: SPA 312.

SPA 373 **3 hours**
Hispanic Civilization

On demand. A study of the colonizing practices of Spain in the New World and their relevance to modern problems. Prerequisite: SPA 312.

SPA 497 **1 - 4 hours**
Spanish Internship

Every semester. 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. See department chair for specific information. Prerequisite: Instructor's approval.

SPA 498 **3 hours**
Advanced Topics: Spanish

On demand. In-depth study of chosen topics. Prerequisite: Instructor's approval.

SPA 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

FLA 198 **3 - 4 hours**
Less Commonly Taught Languages

A program of study in a less commonly taught foreign language, using text, audio-visual materials, and classroom experience to develop the fundamentals of understanding, speaking, reading, writing, and culture. Languages taught may include arabic, Korean, Japanese, and Portuguese.

Department of Mathematics

DEPARTMENT DESCRIPTION

The breadth and applicability of the mathematical sciences fit well with the purposes of a Christian liberal arts university: the mathematical sciences seek to liberate, empower, and prepare people for servant-leadership. They can help liberate people from mental imprecision and from being intimidated or fooled by technical arguments. They can provide students with tools for solving problems; enlighten them with sudden but hard-won insights into structure; engage them in playful yet disciplined creativity; and encourage them to wonder at the beauty of abstract ideas and the mystery of their applicability in other fields. Mathematics demands courage and calm action in the face of complexity, and honesty and humility in encounters with error, contradiction, and the limits of knowledge. As "queen and servant," mathematics gives leadership and service to other human endeavors, roles which fit well with the Christian purposes of Grand Canyon University. Thus the Department of Mathematics seeks to uphold the view that the vigorous communication, creation, and application of mathematical ideas can be a noble Christian calling.

Since every degree at Grand Canyon University has a mathematics requirement, the mission of the Mathematics Department faculty is to focus on the needs of students from all disciplines who have diverse interests and backgrounds. The faculty strive to prepare the students, whether they are majoring in Mathematics or some other area, by offering them a mathematical framework that may serve as a foundation for graduate studies or careers in teaching, industry, or business.

Mathematics is a broad, applicable, and playful subject. In recent times, especially since the advent of the digital computer, mathematics has expanded into a collection of mathematical sciences which include pure and applied mathematics, computation, computer science, statistics, operations research, and other areas. Themes of structure, randomness and chaos, techniques of computation, analysis and visualization, and modes of thought involving proof, counter-example, intuition, and creation of unifying concepts are hallmarks of mathematics. Mathematical ideas have found application not only in the physical sciences but increasingly in the life, social, and management sciences, and even in the arts and humanities. The pace of discovery and invention in mathematics remains high. Mathematics is indeed the "queen and servant of the sciences."

The Department of Mathematics offers majors in Mathematics, Mathematics for Secondary Teaching, and Mathematics for Engineers.

Students who have completed advanced or accelerated courses in mathematics in high school may apply for advanced placement with regard to certain mathematics courses. An individualized program may be tailored for students who plan to continue their study elsewhere in an engineering program, but who also desire a strong foundation in mathematics and the advantages of a Christian liberal arts setting.

The facilities for mathematics include the Dynamical Systems Lab where students use computers to study fractals, chaos, and iterations.

DEGREE REQUIREMENTS — MATHEMATICS
(B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Mathematics Major

CSC	105	Intro. to Programming Languages	3 hours
CSC	205	High Level Programming	3 hours
MAT	270	Analytical Geometry and Calculus I	4 hours
MAT	271	Analytical Geometry and Calculus II	4 hours
MAT	272	Analytical Geometry and Calculus III	4 hours
Δ MAT	300	Introduction to Mathematical Thought	3 hours
MAT	342	Linear Algebra	3 hours
MAT	363	Probability and Statistics	3 hours
MAT	371	Advanced Calculus I	3 hours
MAT	372	Advanced Calculus II	3 hours
MAT	373	Differential Equations	3 hours
MAT	443	Abstract Algebra	3 hours
Δ MAT	498A	Project in Mathematics OR	
Δ MAT	498B	Project in Dynamical Systems	3 hours
MAT	—	Upper Division Math. Electives (excluding MAT 483)	6 hours
PHY	115	University Physics I	4 hours
PHY	116	University Physics 11	4 hours
		Total Major Hours	**56 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — MATHEMATICS FOR ENGINEERS*
(3:2 PROGRAM: B.S. DEGREE; Minor Required or concurrent graduation)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required, or concurrent graduation from an accredited engineering program.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Mathematics for Engineers Major

CHM	113	General Chemistry I	4 hours
CHM	115	General Chemistry II	4 hours
EGN	100	Introduction to Engineering	4 hours
EGN	311	Statics	3 hours
EGN	312	Dynamics	3 hours
MAT	270	Analytical Geometry and Calculus I	4 hours
MAT	271	Analytical Geometry and Calculus II	4 hours
MAT	272	Analytical Geometry and Calculus III	4 hours
Δ MAT	300	Intro. to Mathematical Thought	3 hours
MAT	342	Linear Algebra	3 hours
MAT	373	Differential Equations	3 hours
MAT	—	Upper Division Mathematics Electives (excluding MAT 483)	12 hours
PHY	115	University Physics I	4 hours
PHY	116	University Physics II	4 hours
PHY	—	Upper Division Physics	
CHM	—	Upper Division Chemistry or Engineering	8 hours
		Total Major Hours	**67 hours**

* Concurrent graduation from an accredited engineering program. The student should consult with the Grand Canyon University engineering advisor and the requirements of the particular engineering program they plan to enter in order to select the most appropriate upper division math electives.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — MATHEMATICS FOR SECONDARY TEACHERS* (B.S. DEGREE; Minor required)

University Liberal Arts Foundation for College of Education Secondary Teacher Education Program (see page 63).

Minor required.

Secondary Education major required.

Mathematics for Secondary Teachers Major

CSC	105	Intro. to Programming Languages	3 hours
MAT	270	Analytical Geometry and Calculus I	4 hours
MAT	271	Analytical Geometry and Calculus II	4 hours
MAT	272	Analytical Geometry and Calculus III	4 hours
Δ MAT	300	Intro. to Mathematical Thought	3 hours
MAT	310	College Geometry	3 hours
MAT	342	Linear Algebra	3 hours
MAT	363	Probability and Statistics	3 hours
MAT	371	Advanced Calculus I	3 hours
MAT	373	Differential Equations	3 hours
MAT	443	Abstract Algebra	3 hours
Δ MAT	483	Mathematics in the Secondary School	3 hours
PHY	115	University Physics I	4 hours
PHY	116	University Physics II	4 hours
		Total Major Hours	**47 hours**

* Please refer to the College of Education for secondary certification and minor requirements.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — MATHEMATICS*

MAT	270	Analytical Geometry and Calculus I	4 hours
MAT	271	Analytical Geometry and Calculus II	4 hours
MAT	272	Analytical Geometry and Calculus III	4 hours
MAT	342	Linear Algebra	3 hours
MAT	—	Mathematics Electives (at least three hours upper division, excluding MAT 396 and MAT 483)†	6 hours
		Total Minor Hours	**21 hours**

* Students desiring teaching certification should take 24 hours for a minor. Please refer to the College of Education for certification requirements.

† Those having a major in the College of Education may use MAT 483.

COMPUTER SCIENCE

CSC 105 — **3 hours**
Introduction to Programming Languages

Fall 2003, and alternate years. An introduction to higher-level programming languages. Topics include structured programming techniques, algorithm design, problem solving, program coding, and program verification.

CSC 205 — **3 hours**
High Level Programming

Spring 2004, and alternate years. 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.

MATHEMATICS

MAT 120 — **3 hours**
Intermediate Algebra

Every semester. Topics from basic algebra: linear equations, polynomials, quadratic equations, systems of equations, and introductory conic sections. Prerequisite: Placement counseling or one year of high school algebra with a grade of "C" or better.

MAT 121 — **3 hours**
College Algebra

Every semester. A precalculus course on topics and algebraic properties of elementary functions. Prerequisites: Grade of "C" or better in MAT 120 or two years of high school algebra with a grade of "C" or better.

MAT 122 — **2 hours**
College Trigonometry

Every Spring. 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 130 — **3 hours**
Contemporary Mathematics

Every semester. An integrated course emphasizing mathematical modeling and problem solving. Topics include: algebraic models, number theory, logic and geometry, and trigonometry. Prerequisite: Grade of "C" or better in MAT 120 or two years of high school algebra with a grade of "C" or better.

MAT 131 — **3 hours**
Contemporary Mathematics II

Every semester. A continuation and extension of the mathematical concepts presented in MAT 130 with continued emphasis on problem solving and manipulatives. Topics include: math of finance, systems of numeration, the real number system, elementary probability, and elementary statistics. Prerequisite: MAT 130.

MAT 213 **3 hours**
Statistics

Every Spring. An introductory course in statistics for non-math majors, with emphasis on the concepts and tools for collecting, analyzing, and drawing conclusions from data. Prerequisite: MAT 120.

MAT 270 **4 hours**
Analytical Geometry and Calculus I

Every Fall. 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 **4 hours**
Analytical Geometry and Calculus II

Every Spring. 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 **4 hours**
Analytical Geometry and Calculus III

Every Fall. A study of vector analysis, partial differentiation and multiple integration. Prerequisite: MAT 271 or equivalent.

MAT 300Δ **3 hours**
Introduction to Mathematical Thought

Every Spring. 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 **3 hours**
College Geometry

Fall 2003, and alternate years. 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 342 **3 hours**
Linear Algebra

Every Fall. An introductory study of finite dimensional vector spaces, linear transformations, and matrices associated with them. Prerequisite: MAT 271 or instructor's approval.

MAT 363 **3 hours**
Probability and Statistics for Mathematics and Science

Every Spring. A study of elementary theories of probability, distribution, estimation and testing of statistical hypotheses. Prerequisite: MAT 271.

MAT 371 **3 hours**
Advanced Calculus I

Every Fall. A study of sets, functions, the real numbers, topological ideas, sequences, limits, continuity, and differentiation. Prerequisites: MAT 272 and MAT 300.

MAT 372 **3 hours**
Advanced Calculus II

Spring 2005, and alternate years. Integration, series, uniform convergence, and selected additional topics in analysis. Prerequisite: MAT 371.

MAT 373 **3 hours**
Differential Equations

Every Spring. A study of the methods of solution of ordinary differential equations and their application to geometry, mechanics, and physics. Prerequisite: MAT 272.

MAT 443 **3 hours**
Abstract Algebra

Spring 2005, and alternate years. An introduction to algebraic structures with particular emphasis on group theory. Prerequisite: MAT 300 or instructor's approval.

MAT 461 **3 hours**
Complex Analysis

Spring 2004, and alternate years. An introduction to the calculus and geometry of functions of a complex variable. Topics include complex numbers, analytic functions, integration, Taylor and Laurent series, the residue calculus, and selected additional topics. Prerequisite: MAT 272.

MAT 462 **3 hours**
Partial Differential Equations

Fall 2004, and alternate years. An introduction to the partial differential equations of applied mathematics, Laplace's, wave, and diffusion equations and their solution by characteristics, separation of variables, integral transforms, and selected numerical methods. Prerequisite: MAT 373.

MAT 464 **3 hours**
Numerical Methods

On demand. An introduction to selected topics in numerical analysis chosen from among the following: numerical linear algebra, interpolation, numerical solution of ordinary and partial differential equations, quadrature, and solution of nonlinear equations and optimization. Choice of topics varies. Prerequisites: CSC 105, MAT 271, and instructor's approval.

MAT 483Δ **3 hours**
Mathematics in the Secondary School

Fall 2004, and alternate years. 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 496 **3 hours**
Advanced Topics in Mathematics

On demand. Upper division topics such as history of mathematics, topology, number theory, advanced algebra, advanced analysis, advanced linear algebra and dynamical systems will be offered. May be repeated for credit. Prerequisite: Instructor's approval.

MAT 497 **3 hours**
Research in Dynamical Systems

Every Fall (on demand other times). A detailed study in dynamical systems. Prerequisite: Instructor's approval.

MAT 498AΔ **3 hours**
Project in Mathematics

Every semester. A detailed study in dynamical systems, or some other related area of mathematical sciences. Required course for Mathematics majors. A Writing-Intensive course. Prerequisites: MAT 372, MAT 373, and instructor's approval.

MAT 498BΔ **3 hours**
Project in Dynamical Systems

Every semester. Projects in dynamical systems, or some other related area of mathematical sciences. May be repeated up to six credit hours. Required course for Mathematics majors. A Writing-Intensive course some semesters. Prerequisites: MAT 372, MAT 373, MAT 443, and instructor's approval.

MAT 499 **1 - 4 hours**
Independent Study

Every semester. See page 25.

Department of Music

DEPARTMENT DESCRIPTION

The Music Department offers various areas of study for the student desiring to pursue music as a profession. It provides classes, ensembles, and private music instruction for students majoring in other fields, and contributes to the cultural environment of the University community. Students may choose programs leading to the Bachelor of Music, Bachelor of Arts, and Bachelor of Science degrees.

The department is dedicated to developing the musicianship of each student through excellence in the classroom and all performing areas. Students from the entire University join with music majors and minors in performing in a variety of ensembles, opera, and musical productions each year.

Recitals and concerts by students, ensembles, and faculty provide the University community and the Phoenix area with opportunities to hear some of the finest music being performed today.

Scholarships are available by audition.

DEGREE REQUIREMENTS — APPLIED MUSIC
(B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Select Emphasis in Instrumental, Piano/Organ, or Vocal.

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirements).

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

M—	—	Applied Piano (Keyboard Majors: Voice)	4 hours
MAP	390	Junior Recital	0 hours
MAP	490	Senior Recital	0 hours
* MEN	—	Major Ensemble (one per semester)	8 hours
MUS	009	Recital Attendance (eight semesters)	0 hours
MUS	191A	Aural Perception	2 hours
MUS	191B	Harmony I	2 hours
MUS	192A	Aural Perception II	2 hours
MUS	192B	Harmony II	2 hours
MUS	291A	Advanced Aural Perception I	2 hours
MUS	291B	Advanced Harmony I	2 hours
MUS	292A	Advanced Aural Perception II	2 hours
MUS	292B	Advanced Harmony II	2 hours
Δ MUS	371	Music History I	3 hours
Δ MUS	372	Music History II	3 hours
MUS	381	Conducting I	2 hours
MUS	392	Form and Analysis	3 hours
† Piano Proficiency			0 hours
		Total Music Core Hours	**39 Hours**

* ALL music majors pursuing B.A. or B.M. degrees must complete eight semesters of ensemble participation according to emphasis (one ensemble per semester). Additional hours beyond the eight may be taken for credit or audit.

† The Department of Music includes a minimal level of piano performance as a requirement for graduation for all music majors. Four semesters of piano are required to strengthen keyboard skills and assist the student in passing the piano proficiency examination. If the proficiency is completed early, the student must still meet the four- semester requirement. Students must pass the piano proficiency examination before student teaching and before the senior recital.

Δ Writing-Intensive course.

Additional Emphasis Requirements (Select one)

1. Instrumental

Students planning to choose an instrumental concentration must demonstrate an acceptable level of technique, performance, and musical ability as determined by the instrumental faculty. Students unable to do this will be admitted to the program on a two semester probationary status. During this time they must achieve the proper technical and musical levels to be allowed to continue as an instrumental major. This applies to all degree plans.

Brass, Percussion, Strings, Woodwinds Emphasis

M—	—	Major Applied Instrument	16 hours
MPL	—	Applied Piano	1 hour
MUS	391	Counterpoint	2 hours
		Total Emphasis Hours	**19 hours**

Classical Guitar Emphasis

M—	—	Applied Classical Guitar	14 hours
M—	—	Applied Studio Guitar	2 hours
MPL	—	Applied Piano	1 hour
MUS	391	Counterpoint	2 hours
		Total Emphasis Hours	**19 hours**

Studio Guitar Emphasis

M—	—	Applied Studio Guitar	12 hours
M—	—	Applied Classical Guitar	4 hours
MED	351	Instrumental Organization	2 hours
MUS	320	Jazz Improvisation	1 hour
		Total Emphasis Hours	**19 hours**

2. Piano/Organ

Students pursuing a music degree with piano as the major instrument must audition for the piano faculty at the completion of the first semester of study. At this time, students must demonstrate an acceptable level of technical proficiency and musical ability as determined by the piano faculty. Students must perform standard advanced piano literature (Beethoven Sonatas, Bach Preludes and Fugues, Schubert Impromptus, etc.). Students unable to perform at the acceptable level will be admitted to the program on a two semester probationary status. At the end of the second semester of probation, they must reaudition demonstrating the required technical and musical abilities necessary for admission to piano major status. This applies to all degree plans.

Piano — Emphasis:

M—	—	Applied Piano	16 hours
MUS	373	Piano Literature I	2 hours
MUS	374	Piano Literature II	2 hours
MUS	420	Advanced Keyboard Skills	1 hour
MUS	425	Piano Pedagogy I	3 hours
MUS	426	Piano Pedagogy II	3 hours
MUS	429	Accompanying	1 hour
		Total Emphasis Hours	**28 hours**

Organ — Emphasis:

M—	—	Applied Organ	16 hours
MUS	391	Counterpoint	2 hours
MUS	421	Organ Literature and Accompaniment	1 hour
MUS	429	Accompanying	1 hour
		Total Emphasis Hours	**20 hours**

3. Vocal

Students planning to choose voice as their major performing emphasis must demonstrate an acceptable level of technique, performance and music ability as determined by the vocal faculty. Students unable to do this will be admitted to the program on a two semester probationary status. During this time they must achieve the proper technical and musical levels to be allowed to continue as a vocal major. This applies to all degree plans.

Voice --- Emphasis:

M—	—	Applied Voice	16 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	375	Song Literature I	2 hours
MUS	376	Song Literature II	2 hours
MUS	391	Counterpoint	2 hours
MUS	481	Vocal Pedagogy	2 hours
		Total Emphasis Hours	**27 hours**

DEGREE REQUIREMENTS — CHURCH MUSIC
PIANO PERFORMANCE; VOCAL PERFORMANCE
(B.M. DEGREE; No Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Music Core Hours for Bachelor of Music

MAP	—	Applied Piano (Keyboard Majors: Voice)	4 hours
MAP	390	Junior Recital	0 hours
MAP	490	Senior Recital	0 hours
* MEN	—	Major Ensemble (one per semester)	8 hours
MUS	009	Recital Attendance (8 semesters)	0 hours
MUS	191A	Aural Perception I	2 hours
MUS	191B	Harmony I	2 hours
MUS	192B	Aural Perception II	2 hours
MUS	192B	Harmony II	2 hours
MUS	291A	Advanced Aural Perception	2 hours
MUS	291B	Advanced Harmony	2 hours
MUS	292A	Advanced Aural Perception II	2 hours
MUS	292B	Advanced Harmony II	2 hours
Δ MUS	371	Music History I	3 hours
Δ MUS	372	Music History II	3 hours
MUS	381	Conducting I	2 hours
MUS	391	Counterpoint	2 hours
MUS	392	Form and Analysis	3 hours
† Piano Proficiency			0 hours
		Total Music Core Hours	**41 hours**

* All Bachelor of Music (B.M.) majors must complete eight semesters of ensemble participation according to emphasis (one ensemble per semester). Additional hours beyond the eight may be taken for credit or audit.

† The Department of Music includes a minimal level of piano performance as a requirement for all music majors. Four semesters of piano are required to strengthen keyboard skills and assist the student in passing the piano proficiency examination. If the proficiency is completed early, the student must still meet the four-semester requirement. Students must pass the piano proficiency examination before student teaching and before the senior recital.

Δ Writing-Intensive course.

CHURCH MUSIC

Students select emphasis from Choral Conducting, Instrumental, Keyboard, or Vocal Performance.

Church Music Core

CAW	201	Introduction to Christian Worship	3 hours
CAW	300	Worship Participation	2 hours
Δ MCH	393	Hymnology	3 hours
MCH	378	Music in Worship	3 hours
MCH	387	Survey of Choir Methods	3 hours
MCH	405	Church Music Internship	3 hours
MCH	471	Choral Literature	3 hours
MED	403	Advanced Rehearsal Techniques	2 hours
MUS	282	Conducting II	8 hours
Electives chosen from the following:			8 hours
MED	232	Woodwind Instrument Class (1)	
MED	241	Brass Instrument Class (1)	
MED	251	Percussion Instrument Class (1)	
MED	252	String Instrument Class (1)	
MIN	202	Introduction to Ministry (3)	
MUS	219	Opera Workshop (1-3)	
MUS	411	Choral Arranging (2)	
MUS	462	Orchestration (2)	
SPC	398	Communications and the Media (3)	
TRE	140	Stagecraft (3)	
TRE	270	Christian Drama (3)	
		Total Church Music Core Hours	**38 Hours**

Additional Emphasis Requirements (Select one):

1. Choral Conducting Emphasis

M—	—	Major Applied	12 hours
M—	—	Secondary Applied	2 hours
M—	—	Applied Voice (Instrument Majors Only)	(2 hours)
M—	—	Applied Conducting	4 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	405	Conducting Practicum	1 hour
MUS	481	Vocal Pedagogy	2 hours
		Total Emphasis Hours	**24 - 26 hours**
		Total Church Music Core Hours	**38 hours**
		Total Music Core Hours	**41 hours**
		TOTAL HOURS	**103 - 105 hours**

2. Instrumental Emphasis

M—	—	Major Applied Instrument	16 hours
MVL	—	119, 219 Applied Voice	3 hours
		Total Emphasis Hours	**19 hours**
		Total Church Music Core Hours	**38 hours**
		Total Music Core Hours	**41 hours**
		TOTAL HOURS	**98 hours**

3. Keyboard Emphasis

MP__	—	Major Applied Piano	16 hours
M—	—	Secondary Applied	2 hours
MVL	—	Applied Voice	2 hours
MUS	429	Accompanying	2 hours
MUS	—	Advanced Keyboard Skills	1 hour
		Total Emphasis Hours	**23 hours**
		Total Church Music Core Hours	**38 hours**
		Total Music Core Hours	**41 hours**
		TOTAL HOURS	**102 hours**

4. Vocal Emphasis

M__	—	Applied Voice	16 hours
MV—	—	Secondary Applied	2 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	481	Vocal Pedagogy	2 hours
		Total Emphasis Hours	**23 hours**
		Total Church Music Core Hours	**38 hours**
		Total Music Core Hours	**41 hours**
		TOTAL HOURS	**102 hours**

PIANO PERFORMANCE

Students pursuing a music degree with piano as the major instrument must audition for the piano faculty at the completion of the first semester of study. At this time, students must demonstrate an acceptable level of technical proficiency and musical ability as determined by the piano faculty. Students must perform standard advanced piano literature (Beethoven Sonatas, Bach Preludes and Fugues, Schubert Impromptus, etc.). Students unable to perform at the acceptable level will be admitted to the program on a two semester probationary status. At the end of the second semester of probation, the student must reaudition demonstrating the required technical and musical abilities necessary for admission to piano major status. This applies to all degree plans.

M—	—	Applied Piano	30 hours
MUS	373	Piano Literature I	2 hours
MUS	374	Piano Literature II	2 hours
MUS	420	Advanced Keyboard Skills	1 hour
MUS	425	Piano Pedagogy I	3 hours
MUS	426	Piano Pedagogy II	3 hours
MUS	429	Accompanying	1 hour
—	—	Electives	6 hours
		Piano Performance Hours	**48 hours**
		Bachelor of Music Core Hours	**41 hours**
		TOTAL HOURS	**89 hours**

VOCAL PERFORMANCE

Students planning to choose voice as their major performing emphasis must demonstrate an acceptable level of technique, performance, and musical ability as determined by the vocal faculty. Students unable to do this will be admitted to the program on a two semester probationary status. During this time they must achieve the proper technical and musical levels to be allowed to continue as a vocal major. This applies to all degree plans.

FRE	101	Elementary French I	4 hours
GER	101	Elementary German I	4 hours
—	—	Additional Foreign Language Electives (French, German, Italian)	8 hours
MV—	—	Applied Voice	28 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	219	Opera Workshop	1 hour
MUS	375	Song Literature I	2 hours
MUS	376	Song Literature II	2 hours
MUS	481	Vocal Pedagogy	2 hours
		Vocal Performance Hours	**54 hours**
		Bachelor of Music Core Hours	**41 hours**
		TOTAL HOURS	**95 hours**

DEGREE REQUIREMENTS — MUSIC EDUCATION (B.S. DEGREE; No Minor Required)

University Liberal Arts Foundation for the Secondary Education Program (see page 65).

Additional Emphasis hours required.

Admission to Teacher Education programs (see pages 63-64).

Secondary Education major required (see page 63).

In order to graduate with K-12 Endorsement, 16 hours of student teaching (EED 480 - grades K 6, and SED 480 - grades 7 -12) must be completed.

The Bachelor of Science degree in Music Education is offered with an emphasis in Choral Conducting or Instrumental Conducting. Students pursuing a music education major must meet the requirements for Music Core, Music Education Core, and Emphasis.

All Music majors must complete seven semesters of ensemble participation according to emphasis (one ensemble per semester). Additional hours beyond the seven may be taken for credit or audit.

The Department of Music includes a minimal level of piano performance as a requirement for all music majors. Four semesters of piano are required to strengthen keyboard skills and assist the student in passing the piano proficiency examination. If the proficiency is completed early, the student must still meet the four semester requirement. Students must pass the piano proficiency examination before student teaching and before the senior recital.

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Music Core

MED	003	Music Educator's National Conference (4 semesters membership)	0 hours
M—	—	Major Applied Instrument or Voice	7 hours
M—	—	Applied Piano (Keyboard Majors: Voice)	4 hours
MEN	—	Major Ensemble (one per semester)	7 hours
MUS	009	Recital Attendance (seven semesters)	0 hours
MUS	191A	Aural Perception I	2 hours
MUS	191B	Harmony I	2 hours

MUS	192A	Aural Perception II	2 hours
MUS	192B	Harmony II	2 hours
MUS	291A	Advanced Aural Perception I	2 hours
MUS	291B	Advanced Harmony I	2 hours
MUS	292A	Advanced Aural Perception II	2 hours
MUS	292B	Advanced Harmony II	2 hours
Δ MUS	371	Music History I	3 hours
Δ MUS	372	Music History II	3 hours
MUS	381	Conducting I	2 hours
MUS	392	Form and Analysis	3 hours
—	—	Piano Proficiency	0 hours
		Total Music Core Hours	**45 hours**

Music Education Core

Secondary Certification **36 hours**

MED	232	Woodwind Instrument Class	1 hour
MED	241	Brass Instrument Class	1 hour
MED	251	Percussion Instrument Class	1 hour
MED	252	String Instrument Class	1 hour
*MED	381	Music in the Elementary Grades	3 hours
MED	382	Music in the Junior and Senior High School	3 hours
MUS	382	Conducting II	2 hours
		Total Music Education Core Hours	**45 - 48 hours**

* MED 381 is not required for Secondary certification but is required for K - 12 Endorsement.

Δ Writing-Intensive course.

Additional Emphasis Requirements (Select one):

1. Choral Conducting (Major applied instrument, voice or piano)

MAP	390	Junior Recital (Conducting)	0 hours
M—	—	Applied Conducting	2 hours
MAP	490	Senior Recital (Voice or Piano)	0 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	391	Counterpoint	2 hours
MUS	411	Choral Arranging	2 hours
MUS	471	Choral Literature	3 hours
MUS	481	Vocal Pedagogy	2 hours
		Total Emphasis Hours	**14 hours**

2. Instrumental Conducting

MAP	390	Junior Recital (Conducting)	0 hours
M—	—	Applied Conducting	2 hours
MAP	490	Senior Recital (Applied Instrument)	0 hours
MED	351	Instrumental Music Organization	2 hours
MED	403	Advanced Rehearsal Techniques	2 hours
MED	442	Instrumental Literature and Pedagogy	2 hours
MUS	167	Classic Guitar	1 hour
MUS	320	Jazz Improvisation	1 hour
MUS	391	Counterpoint	2 hours
MUS	462	Orchestration	2 hours
		Total Emphasis Hours	**14 hours**

MINOR REQUIREMENTS —INSTRUMENTAL EMPHASIS

M-L	—	Private Applied Instrument	4 hours
MPC	109/209/309	Class Piano **OR**	
MVH	109/MVL	Class Voice/Private Applied Voice	3 hours
MEN	—	Major Ensemble	3 hours
MUS	009	Recital Attendance (four semesters)	0 hours
MUS	191A	Elementary Theory: Aural Perception I	2 hours
MUS	191B	Elementary Theory: Harmony I	2 hours
MUS	381	Conducting I	2 hours
Δ MUS	371	Music History I **OR**	
Δ MUS	372	Music History II	3 hours
		Total Minor Hours	**19 hours**

MINOR REQUIREMENTS — PIANO EMPHASIS

M-L	—	Private Applied Piano	4 hours
MVL	109/M-L—	Class Voice/Private Applied Voice	3 hours
MEN	—	Major Ensemble **OR**	
MUS	429	Accompanying **OR**	
MUS	420	Advanced Keyboard Skills **OR**	
MEN	304	Piano Ensemble	3 hours
MUS	009	Recital Attendance (four semesters)	0 hours
MUS	191A	Elementary Theory: Aural Perception I	2 hours
MUS	191B	Elementary Theory: Harmony I	2 hours
MUS	381	Conducting I	2 hours
Δ MUS	371	Music History I **OR**	
Δ MUS	372	Music History II	3 hours
		Total Minor Hours	**19 hours**

MINOR REQUIREMENTS — VOCAL EMPHASIS

M-L	—	Private Applied Voice	4 hours
MPC	109/209/309	Class Piano	3 hours
MEN	—	Major Ensemble	3 hours
MUS	009	Recital Attendance (four semesters)	0 hours
MUS	111	Italian Diction	1 hour
MUS	112	French Diction	1 hour
MUS	211	German Diction	1 hour
MUS	191A	Elementary Theory: Aural Perception I	2 hours
MUS	191B	Elementary Theory: Harmony I	2 hours
MUS	381	Conducting I	2 hours
Δ MUS	371	Music History I **OR**	
Δ MUS	372	Music History II	3 hours
		Total Minor Hours	**22 hours**

Δ Writing-Intensive course.

CHURCH MUSIC

MCH 378 **3 hours**
Music in Worship

Fall 2001, and alternate years. 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.

MCH 387 **3 hours**
Survey of Choir Methods

Spring 2003, and alternate years. Study and practice of current and traditional philosophies, methods, and materials for use with preschool through sixth grade children's choirs, junior high and high school youth choirs, and adult and senior adult choirs. Prerequisite: Junior status.

MCH 393Δ **3 hours**
Hymnology

Fall 2004, and alternate years. Also MIN 393. A survey of hymnology during the history of the Christian church designed to bring about a more meaningful use of the hymn in congregational singing and in all areas of Christian life and worship. Emphasis is placed upon American hymnology. No musical background is required. A Writing-Intensive course.

MCH 405 **3 hours**
Church Music - Internship

Every semester. An experiential learning opportunity for students to combine classroom knowledge and theories with real-world ministry applications under the supervision of a minister in the area of church music. Prerequisites: Senior status, CAW 300 and instructor's approval.

MCH 471 **3 hours**
Choral Literature

Spring 2004, and alternate years. Also MUS 471. A survey of choral literature from the Renaissance to the present with emphasis on style, aesthetics, and musical terminology. Compositions are performed and analyzed for stylistic interpretation, musical and textual merit, and usefulness. Prerequisites: MUS 292, MUS 371, and MUS 372, or instructor's approval.

MUSIC

MUS 005 **0 hours**
Recital Chorale

On demand. A non-credit ensemble designed to provide choral lab for conducting students fulfilling practicum and recital requirements. Choral literature from all of the stylistic periods is performed. One performance is given each semester.

MUS 009 **0 hours**
Recital Attendance

Every semester. Studio, area, and department recitals of all music and performing arts majors and minors. Details listed in the Music Handbook.

MUS 105 **2 hours**
Fundamentals of Music

On demand. Designed for individuals and elementary education majors interested in acquiring creative skills in the reading, performance, and understanding of music for personal enjoyment or use in the elementary classroom. Previous musical experience not required. No credit toward degree for music majors.

MUS 111 **1 hour**
Diction: Italian

Every Fall. A laboratory devoted to phonetic sounds of Italian as used by a singer. Prerequisite course to upper division Applied Voice.

MUS 112 **1 hour**
Diction: French

Every Fall. A laboratory devoted to phonetic sounds of French as used by a singer. Prerequisite course to upper division Applied Voice. Students having two years of high school French or one year of college French may test out of this course.

MUS 167 **1 hour**
Class Guitar

Every Fall. A practical introduction to the guitar, designed especially for beginners. Students will learn to play the guitar with both the plectrum style (pick only) and classical finger style approaches. Emphasis on guitar pedagogy as applied to elementary and secondary education levels. Required of Music Education majors. Open to all non-music majors and minors. Prerequisite: Knowledge of basic musical notation.

MUS 189 **1 hour**
Music Workshop

Every semester. Practice, study, and performance of music in a workshop setting. May be repeated for credit. Prerequisite: Instructor's approval.

MUS 191A **2 hours**
Aural Perception I

Every Fall. Designed for music majors and minors. MUS 191A and MUS 191B must be taken concurrently. Includes rhythmic, melodic and harmonic dictation, basic keyboard performance, and sight singing. Computer-assisted ear training will be utilized. Prerequisite: MUS 105 or a satisfactory score on the freshman theory placement examination, administered during enrollment week.

MUS 191B **2 hours**
Harmony I

Every Fall. Designed for music majors and minors. MUS 191A and MUS 191B must be taken concurrently. Study is devoted to the structure of music which includes harmony, melody, form, and rhythm. Skill development in analysis and composition is emphasized. The music of the "common practice period" will be studied.

MUS 192A **2 hours**
Aural Perception II

Every Spring. Continuation of MUS 191A. Designed for music majors only. Prerequisites: MUS 191A or equivalent and concurrent enrollment in MUS 192B.

MUS 192B **2 hours**
Harmony II

Every Spring. Continuation of MUS 191B. Designed for music majors only. Skill development through analysis and composition is emphasized. Prerequisite: MUS 191B or equivalent and concurrent enrollment in MUS 192A.

MUS 211 **1 hour**
Diction: German

Every Spring. A laboratory devoted to phonetic sounds of German as used by a singer. Prerequisite course to upper division Applied Voice. Students having two years of high school German or one year of college German may test out of this course.

MUS 219 **1 - 3 hours**
Opera Workshop

Every Fall or Spring. Participation and production of a full length opera or two one-act operas. Provides activities in all phases of opera production (set design, costuming, make-up, staging, and publicity). May be repeated for a maximum of three credit hours. Prerequisites: Audition and instructor's approval.

MUS 226 **2 hours**
Handbell Techniques

On demand. A study of handbell techniques, materials, and methods of organizing and training handbell choirs for school and church. Prerequisite: Music reading ability.

MUS 252 **3 hours**
Music Appreciation

Every semester. 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.

MUS 281 **2 hours**
Fundamentals of Conducting

Spring 2004, and alternate years. A study of the fundamentals of conducting hymns, anthems, and other choral music. Designed for the music minor and non-music major. Emphasis on choral conducting and rehearsal techniques, score reading, and artistic interpretation. Prerequisite: MUS 191 or instructor's approval.

MUS 291A **2 hours**
Advanced Aural Perception I

Every Fall. Designed for music majors only. Advanced sight singing, keyboard performance, and rhythmic, harmonic, and melodic dictation will be emphasized. Computer-assisted ear training will be utilized. Music examples will be selected from Bach through Wagner. Prerequisites: MUS 192A or equivalent and concurrent enrollment in MUS 291B.

MUS 291B **2 hours**
Advanced Harmony I

Every Fall. Designed for music majors only. Advanced study in analysis and part writing utilizing modulation and chromatic harmony. Prerequisites: MUS 192B or equivalent and concurrent enrollment in MUS 291A.

MUS 292A **2 hours**
Advanced Aural Perception II

Every Spring. Designed for music majors only. Continuation of MUS 291A. Ear training material will include music from the 20th century. Prerequisites: MUS 291A or equivalent and concurrent enrollment in MUS 292B.

MUS 292B **2 hours**
Advanced Harmony II

Every Spring. Designed for music majors only. Continuation of MUS 291B. Analysis and composition of music of the late 19th through the 20th century. Prerequisites: MUS 291B or equivalent and concurrent enrollment in MUS 292A.

MUS 319 **1 - 3 hours**
Opera Workshop

Every Fall or Spring. Also MUS 219. May be repeated for a maximum of two credit hours. Prerequisites: Audition and instructor's approval.

MUS 320 **1 hour**
Jazz Improvisation

Every Spring. A course designed to introduce the student to improvising, with emphasis on chord/scale relationships. Prerequisites: MUS 105 and MUS 191A, or MUS 191B, or instructor's approval.

MUS 371Δ **3 hours**
Music History I

Every Fall. A survey of music from primitive times to the mid-18th century. Study presents the growth of music in the Middle Ages and Renaissance through the contrapuntal schools culminating in the work of J.S. Bach and the development of opera and oratorio during the Baroque. Designed for music majors and minors. A Writing-Intensive course. Prerequisites: MUS 191A, MUS 191B, and junior or senior status, or instructor's approval.

MUS 372Δ **3 hours**
Music History II

Every Spring. A survey of music from the mid-18th century to modern times. Study is devoted to the rise of homophonic music, the art song, the nationalistic schools, and the principal composers of the Classical, Romantic, and Contemporary style periods. Designed for music majors and minors. A Writing-Intensive course. Prerequisites: MUS 191A, 191B, and junior or senior status, or instructor's approval.

MUS 373 **2 hours**
Piano Literature I

Fall 2004, and alternate years. A survey of Baroque and Classical periods. Emphasis on learning the standard piano repertoire through reading and listening assignments. Prerequisite: MUS 371 or instructor's approval.

MUS 374 **2 hours**
Piano Literature II

Spring 2005, and alternate years. Romantic and Contemporary periods. Emphasis on learning the standard piano repertoire through reading and listening assignments. Prerequisite: MUS 371 or instructor's approval.

MUS 375 **2 hours**
Song Literature I

Fall 2003, and alternate years. A survey study of the composers, their styles, and literature from the beginning of solo song through the early Romantic period. Designed for music majors and minors. Prerequisite: Junior or senior status or instructor's approval.

MUS 376 **2 hours**
Song Literature II

Spring 2004, and alternate years. Continuation of MUS 375. A survey study of the composers, their styles, and literature from the middle Romantic period of solo song through the contemporary period. Designed for music majors and minors. Prerequisite: Junior or senior status or instructor's approval.

MUS 381 **2 hours**
Conducting I

Every Fall. A study of the fundamentals and techniques of conducting. Special emphasis is placed on conducting choral music and the special techniques required to conduct vocal groups. Prerequisites: Junior status and instructor's approval.

MUS 382 **2 hours**
Conducting II

Every Spring. Continuation of MUS 381 with emphasis on instrumental music. Rehearsal and conducting techniques, score reading, and artistic interpretation will be covered. Prerequisite: MUS 381.

MUS 387 **2 hours**
Aria Prep: Audition Techniques

On demand. An advanced performance technique class, including instruction in preparation of text and score, as well as development of subtext. This course prepares students for more effective vocal auditions, in anticipation of careers in vocal performance.

MUS 391 **2 hours**
Counterpoint

Every Spring. A survey of contrapuntal practice from the Eighteenth Century. Background reference is made to early polyphonic music. Emphasis is given to sixteenth-century species counterpoint and to analyzing and writing inventions and fugues in the eighteenth century style of J.S. Bach. An introduction is given to the use of counterpoint in twentieth-century composition. Prerequisite: MUS 292.

MUS 392 **3 hours**
Form and Analysis

Every Fall. A study of the various organizational structures in music, from motive, phrase, and period through binary and ternary forms to the most complex, such as the variation, rondo, and sonata. Works of the masters are analyzed from the standpoint of form. Prerequisite: MUS 292.

MUS 399 **1 - 4 hours**
Practicum

On demand. See page 25.

MUS 405 **1 hour**
Conducting Practicum

Every semester. A conducting apprenticeship among the Music Department's various choral and instrumental ensembles and with Opera Workshop. The apprentice will observe and participate in rehearsal as instructed by each director. Prerequisites: MUS 382 and MED 403, or instructor's approval.

MUS 411 **2 hours**
Choral Arranging

Fall 2004, and alternate years. A course designed to teach the prospective music teacher the skill of choral arranging and to help the student meet the day-to-day demands placed on a general music teacher or a secondary choral director. Prerequisites: MUS 292 and instructor's approval.

MUS 420 **1 hour**
Advanced Keyboard Skills

Every Spring. Designed for piano majors to develop basic keyboard proficiency in sightreading, transposition, modulation, open score reading, improvisation, and ensemble playing. Structured to help piano majors pass the functional section of the piano proficiency examination. Prerequisite: Piano major or instructor's approval.

MUS 425 **3 hours**
Piano Pedagogy I

Fall 2003, and alternate years. A study of skills for teaching piano to children and adult beginners emphasizing technique, style, and musicianship. Includes review and recommendations of graded method materials available. Supervised student teaching in a laboratory setting. Prerequisite: Instructor's approval.

MUS 426 **3 hours**
Piano Pedagogy II

Spring 2004, and alternate years. Continuation of MUS 425. Emphasis on intermediate piano literature and group piano teaching techniques. Survey of appropriate materials, observation, and supervised student teaching in a laboratory setting. Prerequisite: Instructor's approval.

MUS 429 **1 hour**
Accompanying

Every Spring. A study and application of accompanying techniques in vocal, choral, and instrumental music. Students are assigned a vocalist, instrumentalist, or choir. May be repeated for credit. Prerequisite: Instructor's approval.

MUS 462 **2 hour**
Orchestration

On demand. A course designed to present the practical fundamentals of orchestration of all of the content instruments in the string, woodwind, brass, and percussion families. Prerequisites: MUS 292 and instructor's approval.

MUS 471 **3 hours**
Choral Literature

Spring 2004, and alternate years. Also MCH 471. A survey of choral literature from the Renaissance to the present with emphasis on style, aesthetics, and musical terminology. Compositions are performed and analyzed for stylistic interpretation, musical and textual merit, and usefulness. Prerequisites: MUS 292, MUS 371, and MUS 372 or instructor's approval.

MUS 481 **2 hours**
Vocal Pedagogy

Every Spring. A study of skills for the teaching of voice to individuals or groups. The physical voice is studied and potential vocal problems analyzed; historical methods of correction are presented. Guest lecturers present current ideas. Prerequisite: Private vocal studies or instructor's approval.

MUS 492 **2 hours**
Twentieth-Century and American Music

On demand. A survey of twentieth-century compositional practices and styles, providing opportunities for practical understanding through experiences in listening, analyzing, and composing. Specific attention is given to American composers and their music. Prerequisite: MUS 292 or equivalent.

MUS 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

MUSIC — APPLIED

Every semester. Public recital approximately 30-minutes in length. Applied and Church Music majors will perform as designated in the Music Handbook. Conducting concentrations will conduct a 30-minute program.

Every semester. Same format as MAP 390, only one hour in length.

MUSIC — CLASS INSTRUCTION (MAJORS)

Class instruction in piano or voice for music majors. Will fulfill the secondary performance area requirement in the major. (Keyboard majors usually complete their secondary performance area in voice; other majors complete their secondary performance area in piano.)

MPC 109 **1 hour**
Class Piano (Majors)

Every Fall. Class instruction for the music major with limited or no previous piano training. Instruction in the study of piano technique and literature including passing Part I of the Piano Proficiency Examination. The piano proficiency requirements are listed in the Music Handbook (available from the Department of Music). Meets two hours per week.

MPC 209 **1 hour**
Class Piano (Majors)

Every Spring. Continuation of MPC 109. Includes passing Part II of the Piano Proficiency Examination. Meets two hours per week. Prerequisite: MPC 109 or instructor's approval.

MPC 309 **1 hour**
Class Piano (Majors)

Every Fall. Continuation of MPC 209. Includes passing Part III of the Piano Proficiency Examination. Meets two hours per week. Prerequisite: MPC 209 or instructor's approval.

MPC 409 **1 hour**
Class Piano (Majors)

Every Spring. Continuation of MPC 309. Includes passing Part IV of the Piano Proficiency Examination. Meets two hours per week. Prerequisite: MPC 309 or instructor's approval.

MPJ 109 **1 hour**
Class Piano - Jazz (Majors)

On demand. Class instruction for the advanced pianist focusing on voicings, jazz-related scales, and improvisation. Meets two hours per week. Prerequisite: Instructor's approval.

MPS 109 **1 hour**
Class Piano - Arranging for the Church Pianist

Every semester. Class instruction in arranging and improvisation for today's church pianist. Functional skills covered include: congregational, choir, and solo accompanying; modulation, transposition, and chord chart reading; and original arrangements of hymn/contemporary songs suitable for solo performance (e.g., offertories). Meets two hours per week. Prerequisite: Instructor's approval.

MPS 209 **1 hour**
Class Piano - Arranging for the Church Pianist

Every semester. Continuation of MPS 109. Meets two hours per week. Prerequisite: MPS 109 or instructor's approval.

MPS 309 **1 hour**
Class Piano - Arranging for the Church Pianist

Every semester. Continuation of MPS 209. Meets two hours per week. Prerequisite: MPS 209 or instructor's approval.

MPS 409 **1 hour**
Class Piano - Arranging for the Church Pianist

Every semester. Continuation of MPS 309. Meets two hours per week. Prerequisite: MPS 309 or instructor's approval.

MVC 109 **1 hour**
Class Voice (Majors)

Every semester. Required for those music majors whose audition indicated limited vocal training. Meets two hours per week.

MVC 209 **1 hour**
Class Voice (Majors)

On demand. Continuation of MVC 109. Meets two hours per week. Prerequisite: MVC 109 or instructor's approval.

MVC 309 **1 hour**
Class Voice (Majors)

On demand. Continuation of MVC 209. Meets two hours per week. Prerequisite: MVC 209 or instructor's approval.

MVC 409 **1 hour**
Class Voice (Majors)

On demand. Continuation of MVC 309. Meets two hours per week. Prerequisite: MVC 309 or instructor's approval.

MUSIC — CLASS INSTRUCTION (NON-MAJORS)

Class instruction in piano or voice for non-music majors with no previous training. Will meet Fine Arts requirements for University Liberal Arts Foundation.

MPH = Class Piano (non-majors)
MVH = Class Voice (non-majors)

MPH/MVH 109 **1 hour**
Class Piano/Class Voice (non-majors)

Every semester. Class instruction for the non-music major with no previous training. A jury examination is not required. Does not count toward a music major or minor. Meets two hours per week.

MPH/MVH 209 **1 hour**
Class Piano/Class Voice (non-majors)

Every semester. Continuation of MPH/MVH 109. Meets two hours per week. Prerequisite: MPH/MVH 109 or instructor's approval.

MPH/MVH 309 **1 hour**
Class Piano/Class Voice (non-majors)

Every semester. Continuation of MPH/MVH 209. Meets two hours per week. Prerequisite: MPH/MVH 209 or instructor's approval.

MPH/MVH 409 **1 hour**
Class Piano/Class Voice (non-majors)

Every semester. Continuation of MPH/MVH 309. Meets two hours per week. Prerequisite: MPH/MVH 309 or instructor's approval.

MUSIC — PRIVATE APPLIED INSTRUCTION (PRIMARY PERFORMANCE AREA FOR MAJORS)

Private applied study for music majors in their major instrument or area. The applied course is identified by a three letter and a three number system.

Example: MVA 129

The first letter indicates the department:
M = Music

The second letter indicates the major emphasis:
B = Brass
C = Conducting
G = Guitar
I = Percussion
P = Piano
S = Strings
T = Theory/Composition
V = Voice
W = Woodwinds

The third letter indicates the degree program:
G = General semester (first semester in private study in preparation for audition into a degree program)
P = Probationary status
A = Bachelor of Arts
E = Bachelor of Science (Music Education)
M = Bachelor of Music

The first number indicates the level:
1 = 100 level
2 = 200 level
3 = 300 level
4 = 400 level

The second number indicates the semester:
1 = First semester
2 = Second semester
3 = Third semester
4 = Fourth semester

The third number indicates the department:
9 = Music

M-G 119 **1 – 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. The first general semester of private study in the major instrument or area. Emphasis is on advanced technique and literature. Includes preparation for a mandatory audition to qualify for music major status.

M-A, M-E, M-M 129 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-G 119. Private instruction for music majors who have passed the qualifying audition admitting them into a degree program. Includes study of advanced technique and literature. Prerequisite: Formal audition.

M-P 119/M-P 129 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Students unable to perform at the advanced level required may be admitted to the music program on a two semester probationary status. At the end of the second semester of probation, students may reaudition, demonstrating the required technical and musical abilities necessary for admission to music major status. This applies to all degree plans. Prerequisite: Audition for appropriate faculty.

M-A, M-E, M-M 219 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 129. Prerequisite: M-A, M-E, or M-M 129.

M-A, M-E, M-M 229 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 219. Prerequisite: M-A, M-E, or M-M 219.

M-A, M-E, M-M 319 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 229. Prerequisite: M-A, M-E, or M-M 229.

M-A, M-E, M-M 329 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 319. Prerequisite: M-A, M-E, or M-M 319.

M-A, M-E, M-M 419 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 329. Prerequisite: M-A, M-E, or M-M 329.

M-A, M-E, M-M 429 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-A, M-E, M-M 419. Prerequisite: M-A, M-E, or M-M 419.

MUSIC — PRIVATE APPLIED INSTRUCTION (NON-MAJORS AND SECONDARY PERFORMANCE AREA FOR MAJORS)

Private applied study for non-music majors or for music majors in their secondary performance area. The applied course is identified by a three letter and three number system. A full explanation is provided above in "MUSIC PRIVATE APPLIED INSTRUCTION (Primary Performance Area for Majors)"

M-L 119 **1 - 2 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Private instruction for students who have completed class instruction studies or have successfully passed audition. Prerequisite: Audition or instructor's approval.

M-L 129 **1 - 2 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 119. Prerequisite: M-L 119 or instructor's approval.

M-L 219 **1 - 2 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 129. Prerequisite: M-L 129 or instructor's approval.

M-L 229 **1 - 2 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 219. Prerequisite: M-L 219 or instructor's approval.

M-L 319 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 229. Prerequisite: M-L 229 or instructor's approval.

M-L 329 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 319. Prerequisite: M-L 319 or instructor's approval.

M-L 419 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 329. Prerequisite: M-L 329 or instructor's approval.

M-L 429 **1 - 4 hours**
Private Applied Instruction (Emphasis Area)

Every semester. Continuation of M-L 419. Prerequisite: M-L 419 or instructor's approval.

MUSIC EDUCATION

MED 003 **0 hours**
Music Educator's National Conference

Every semester. 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 **1 hour**
Woodwind Instrument Class

Every Spring. 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 **1 hour**
Brass Instrument Class

Every Fall. 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 **1 hour**
Percussion Instrument Class

Every Fall. Same format as MED 241, except pertaining to percussion instruments. Prerequisite: Sophomore status.

MED 252 **1 hour**
String Instrument Class

Every Spring. 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 351 **2 hours**
Instrumental Music Organization

Fall 2004, and alternate years. An introduction to the organizational facets of an instrumental music program, elementary through high school. The course includes philosophy, marching band techniques, repair of instruments, scheduling, public relations, contests and festivals, public performance, music rooms and equipment, library, uniforms, inventory, tests and measurements, and finance and development of a complete instrumental program. Prerequisites: MED 232, MED 241, MED 251, MED 252, and MUS 292.

MED 381 **3 hours**
Music in the Elementary Grades

Fall 2004, and alternate years. A study and demonstration of methods and materials for the first six grades. A study is made of activities implemented with each grade level. Lesson plans are prepared. Visits are made to observe actual teaching situations. Prerequisite: MUS 292 or instructor's approval.

MED 382 **3 hours**
Music in the Junior and Senior High School

Spring 2005, and alternate years. A study of methods for developing and conducting the music program in junior and senior high schools. Methods, materials, topics, and issues in music education will be used to prepare music education majors to enter the teaching profession. Prerequisite: MUS 292, MUS 381, or instructor's approval.

MED 403 **2 hours**
Advanced Rehearsal Techniques

On demand. A study of advanced problems in rehearsing and conducting at the high school level. An examination and analysis of the prevailing choral and instrumental philosophies, including rehearsal techniques, performance practices, and score preparation. Prerequisite: MUS 381.

MED 442 **2 hours**
Instrumental Literature and Pedagogy

On demand. Study of outstanding literature (secular and sacred) for junior and senior high school band, orchestra, stage band, jazz ensembles, and chamber ensembles. Special rehearsal skills and interpretation are emphasized. Prerequisites: MUS 292 and junior status.

MUSIC ENSEMBLES

MEN 109 **1 hour**
University Chorale

Every semester. A choral ensemble drawn from the student body by competitive audition. Membership is not limited to music majors and minors. A broad scope of choral literature encompassing all of the stylistic periods is performed. One major choral/orchestral work is performed in the Spring. Strong emphasis is placed on individual commitment to the ensemble.

MEN 110 **1 hour**
President's Singers

Every semester. A premier choral ensemble comprised of 16 - 20 voices. Members are selected through an annual audition open to both music and non-music majors at Grand Canyon University. Singers will perform all styles of choral repertoire. Strong emphasis is placed on music excellence and individual commitment. Preparation and availability for extended touring in conjunction with the President of the University is expected of all members.

MEN 111 **1 hour**
University Singers

Every semester. 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 129 **1 hour**
Small Jazz Ensemble

Every semester. A performance ensemble designed to give the student experience performing jazz material in a small ensemble setting.

MEN 139 **1 hour**
Wind Ensemble

Every semester. The Wind Ensemble is made up of music majors, minors, and students from other disciplines. The musicians are provided an opportunity to increase their performance skills through an active and challenging involvement with the creative process. The Wind Ensemble offers non-music majors an avenue in which to continue making music throughout their college career. The literature performed is selected from the finest contemporary and traditional repertoire.

MEN 149 **1 hour**
Concert Jazz Band

Every semester. Performance of jazz-oriented material written or arranged for the Concert Jazz Band.

MEN 152 **1 hour**
Beginning Handbells

On demand. Beginning Handbells is a course designed for those with minimal handbell ringing experience. Prerequisite: Basic music reading skills.

MEN 169 **1 hour**
Chamber Orchestra

On demand. Study and performance of chamber orchestral literature and styles. Also, utilized on demand for accompaniment of yearly opera workshop and musical theatre productions.

MEN 252 **1 hour**
Advanced Handbells

On demand. A handbell ensemble. The literature performed is selected from the finest contemporary and traditional repertoire. Open to all students with instructor's approval.

MEN 300 **1 hour**
New Life Ensemble

Every semester. Select, auditioned ensemble of eight voices, drums, piano and bass guitar. Performs only contemporary Christian music. Students must be enrolled in University Chorale before being considered for this ensemble. Prerequisites: Audition and instructor's approval.

MEN 303 **1 hour**
Chorale Ensemble

On demand. Designed to provide a quality performance experience for music majors and non-majors in an ensemble setting.

MEN 304 **1 hour**
Piano Ensemble

Every semester. Sight reading, practice, and performance of piano music for four hands. May be repeated for credit. Prerequisite: Instructor's approval.

MUSIC/THEATRE

MTH 289 **1 - 3 hours**
Musical Theatre

Every Fall or Spring. Participation and production of a full-length musical or operetta. Provides activities in all phases of musical theatre production (set design, costuming, make-up, staging, and publicity). May be repeated for a maximum of three credit hours. Prerequisites: Audition and instructor's approval.

MTH 389 **1 - 3 hours**
Musical Theatre

Every Fall or Spring. Continuation of MTH 289. May be repeated for a maximum of three credit hours. Prerequisites: MTH 289, audition, and instructor's approval.

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.

Justice Studies is an interdisciplinary field which 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.

Political Science is the study of politics and government through an integrated approach that recognizes global and normative perspectives as well as the local and empirical. Leaders of the new millennium should learn what is, and ponder what should be, regarding topics such as the relationship between the individual citizen and the collective body politic.

The Critical Thinking and Expression minor helps students develop skills necessary for success in law school and a career in the law, or any endeavor requiring these talents; basic objectives include the development of comprehensive, articulate communication; a critical understanding of human institutions; and analytical skills.

Psychology offers a broad array of courses which increase our understanding of human actions in the past and present. Individualized instruction is encouraged through practica 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.

DEGREE REQUIREMENTS — JUSTICE STUDIES (B.S. DEGREE: Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement.)

Justice Studies Major

Group I: Foundation			**6 hours**
* JUS	100	Introduction to Justice Studies (3)	
JUS	101	Issues in Justice Studies (3)	
Group II: Group Core Development			**18 hours**
JUS	303	Criminal Justice Theory (3)	
* JUS	306	The Police Function (3)	
Δ* JUS	308	Adjudication Function (3)	
JUS	310	Correctional Function (3)	
* JUS	461	Substantive Law (3)	
* JUS	462	Procedural Law (3)	
Group III: Research and Development			**12 hours**
JUS	296	Social Research (3)	
JUS	363	Intro to Probability and Statistics	
Δ JUS	490	Senior Seminar (3)	
JUS	497	Internship in Justice Studies (3)	
Group IV: Justice Studies Electives			**9 hours**
A.	Choose two JUS 498 electives and		
B.	Choose one of the following courses:		
PSY	350	Social Psychology (3)	
PSY	466	Abnormal Psychology (3)	
SOC	341	Social Problems (3)	
SOC	432	American Minority Peoples (3)	
		Total Major Hours	**45 hours**

* Graduates from the Phoenix Regional Police Academy or the Arizona Law Enforcement Training Academy may receive credit for these courses. Additional credit for HLT 270 and physical education may also be awarded.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — POLITICAL SCIENCE (B.A. DEGREE: Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts **(see page 78-79).**

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Political Science Major

Group I: Foundations			**12 hours**
POS	100	Introduction to Political Science (3)	
POS	252	Federal Government (2)	
POS	262	Arizona Government (1)	
PHI	101	Introduction to Philosophy (3)	
PHI	225	Introduction to Ethics (3)	
Group II: Core Development			**12 hours**
POS	323	International Relations (3)	
POS	344	Political Thought (3)	
POS	380	Comparative Governments (3)	

Select one of the following courses:

POS/HIS	416	American Diplomatic History (3) **OR**
POS/HIS	417	American Constitutional History (3)

Group III:	**Research and Development**		**6 hours**
POS	370	Politics, Religion and Ethics (3) (capstone)	
POS	497	Internship (3)	

Group IV:	**Electives**		**6 hours**

Select two (2) Advanced Topic Courses (6) (498's)

Total Major Hours: 36 hours

It is recommended that students take elective courses in the following areas: economics, history, geography, philosophy, and English literature. Those aiming for law school should consider the Critical Thinking & Expression minor and meet with the Pre-Law advisor at the earliest opportunity.

DEGREE REQUIREMENTS — PSYCHOLOGY (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Psychology Major

Group I	**Foundations**		**6 hours**
PSY	101	General Psychology (3)	
PSY	253	Personality Development (3)	

Group II: Core Development			**15 hours**
PSY	324	Learning and Cognition (3)	
ΔPSY	350	Social Psychology (3)	
ΔPSY	414	History and Systems of Psychology (3)	

Select a course from each category: (6)

Clinical Psychology

PSY	315	Personality Psychology (3)
PSY	443	Fund. of Counseling and Guidance (3)
PSY	466	Abnormal Psychology (3)
PSY	498	Advanced Topic: Psychology of Death and Dying (3)

Developmental Psychology

PSY	341	Lifespan Development (3)
PSY	353	Child Psychology (3)
PSY	373	Adolescent Psychology (3)

Group III:	**Research and Development**		**10 hours**
PSY	363	Probability and Statistics (3)	
PSY	450	Experimental Psychology (4)	
PSY	497	Internship (3)	
Group IV:	**Electives**		**6 hours**
PSY	—	Upper division Psychology electives (6)	

Total Major Hours 37 hours

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — SOCIOLOGY (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Sociology Major

Group I:	**Foundations**		**9 hours**
SOC	101	Understanding Society (3)	
SOC	296	Social Research (3)	
ΔSOC	483	History of Social Thought (3)	

Group II: Core Development			**15 hours**
SOC	341	Social Problems (3)	
SOC	350	Social Psychology (3)	
SOC	423	American Minority Peoples (3)	
SOC	498	Social Inequality and Stratification (3)	
SOC	497	Internship in Sociology (3)	

Group III:	**Research and Development**		**6 hours**
SOC	363	Intro. to Probability and Statistics (3)	
ΔSOC	490	Senior Seminar (3)	

Group IV:	**Electives***		**9 hours**
SOC	—	Upper division Sociology electives (9)	

Total Major Hours 39 hours

Δ Writing-Intensive course.

* A maximum of six hours may be taken in another Social Sciences area — Psychology, Political Science or Justice Studies.

MINOR REQUIREMENTS — BEHAVIORAL SCIENCES*

SOC	101	Understanding Society (3)
ΔSOC	483	History of Social Thought **OR**
SOC	313	Cultural Anthropology (3)
PHI	101	Introduction to Philosophy (3)
PSY	101	General Psychology (3)
—	—	Upper division Psychology **OR** Sociology electives (6)

Total Minor Hours 18 hours

* Not recommended for prospective teachers in secondary education.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — JUSTICE STUDIES

JUS	100	Introduction to the Justice System (3)
JUS	101	Issues in Justice Studies (3)
JUS	303	Theory of Criminal Justice (3)
JUS	306	The Police Function (3)
ΔJUS	308	The Adjudication Function (3)
JUS	310	The Correctional Function (3)
JUS	498	Elective (3)

Total Minor Hours 21 hours

Δ Writing-Intensive course.

MINOR REQUIREMENTS — POLITICAL SCIENCE

POS	100	Introduction to Political Science (3)
POS	252	Federal Government (2)
POS	262	Arizona Government (1)
POS	370	Politics, Religion and Ethics (3)

Select one of the following courses: (3)

POS	344	Political Thought (3)
ΔPOS	498	Advanced Topics: Political Parties (3)

Select one of the following courses: (3)

POS	323	International Relations (3)
POS	380	Comparative Government (3)
POS	498	Advanced Topics: "Hot Spots" (3)

Select one of the following courses: (3)

ΔHIS/POS	417	American Constitutional History (3)
ΔHIS/POS	417	American Diplomatic History (3)

Total Minor Hours 18 hours

Δ Writing-Intensive course.

MINOR REQUIREMENTS — CRITICAL THINKING AND EXPRESSION

ENG	211	Persuasive Writing (3)
Δ ENG	301	Advanced Composition (3)
ENG	314	Advanced Grammar (3)
POS	370	Politics, Religion and Ethics (3) **OR**
POS	417	Constitutional History (3) **OR**
PHI	475	Christianity and the Legal Profession (3)
		(More than one of the three is suggested)
PHI	215	Introduction to Logic (3)
PHI	222	Foundations in Analytical Thinking (3)
PHI	322	Case Studies (3)

One elective from the following:

PHI	329	Biomedical Ethics
PHI	303	Philosophy of Education
SOC/JUS	296	Social Research
PSY/SOC	363	Introduction to Probability & Statistics
MAT	300	Introduction to Mathematical Thought
BUS	318	Ethical Issues in Business and Society
HTH	303	History of Christianity in America
BIO	320	Fundamentals of Ecology
BIO	360	Basic Physiology

Please note that many of these courses have prerequisites. These must be met or waived by the appropriate department or College.

Total Minor Hours 24 hours

Δ Writing-Intensive course.

MINOR REQUIREMENT — PSYCHOLOGY

PSY	101	General Psychology	3 hours
PSY	253	Personality Development	3 hours
ΔPSY	350	Social Psychology	3 hours
PSY	—	Upper division Psychology electives	9 hours

Total Minor Hours 18 hours

Δ Writing-Intensive course.

MINOR REQUIREMENTS — SOCIAL SCIENCES

ECN	201	Principles of Economics - Macro **OR**
ECN	202	Principles of Economics - Micro (3)
GEO	—	Geography elective (3)*
HIS	103	Early American History **AND**
HIS	104	Recent American History **OR**
HIS	105	Western Civilization to 1500 **AND**
HIS	106	Western Civilization Since 1500 (6)
POS	252	Federal Government (2)
POS	262	Arizona Government (1)
PSY	101	General Psychology (3)
PSY	353	Child Psychology (3) **OR**
PSY	373	Adolescent Psychology (3)
SOC	101	Introduction to Sociology (3)

Total Minor Hours 24 hours

* Three hours must be upper division.

MINOR REQUIREMENTS — SOCIOLOGY

SOC	101	Understanding Society (3)
ΔSOC	483	History of Social Thought (3)
SOC	498	Social Inequality and Stratification (3)
SOC	423	American Minority Peoples (3)
SOC	—	Sociology electives (6) (all six hours must be upper division)

Total Minor Hours 18 hours

Δ Writing-Intensive course.

GEOGRAPHY

GEO 111 **3 hours**
Physical Geography

Every Fall. A geographic study of climate, topography, drainage, soils, and plant and animal life, and their influence on humanity and on the development of civilization.

GEO 121 **3 hours**
World Geography

Every Spring. A study of the physical environment and of the relationship of humanity to each of the major geographic areas of the world.

GEO 498 **3 hours**
Advanced Topics in Geography

On demand. In-depth study of selected topics such as geography of the Southwest, or a World Political Geography.

GEO 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

JUSTICE STUDIES

JUS 100 **3 hours**
Introduction to the Justice System

Every Fall. 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 **3 hours**
Issues in Justice Studies

Every Spring. This course emphasizes issues relating to justice policies, perspectives, techniques, role, institutional arrangements, management, uses of research, and innovative patterns.

JUS 296 **3 hours**
Social Research

Every Fall. Also 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 **3 hours**
Theory of Criminal Justice

An examination of classic and contemporary schools of thought, including psychological and social causes of crime and theories of punishment. Prerequisite: JUS 100.

JUS 306 **3 hours**
Police Function

Objectives, strategies, programs, roles, perspectives and interagency relationships of police. Prerequisite: JUS 100.

JUS 308Δ **3 hours**
Adjudication Function

Objectives, strategies, programs, roles, perspectives, and interagency relationships of the courts. A Writing-Intensive course. Prerequisite: JUS 100.

JUS 310 **3 hours**
Correctional Function

Objectives, strategies, programs, roles, perspectives and interagency relationships of correctional agencies. Prerequisite: JUS 100.

JUS 363 **3 hours**
Introduction to Probability and Statistics

Every semester. Also POS 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 **3 hours**
Substantive Law

Criminal liability with emphasis on the elements of a crime. Governmental sanctions of individual conduct as formulated by the legislature and the court system. Prerequisite: JUS 100.

JUS 462 **3 hours**
Procedural Law

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. Prerequisite: JUS 100.

JUS 490Δ **3 hours**
Senior Seminar: Justice Studies

On demand. 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 **3 hours**
Internship in Justice Studies

Every semester. Placement of student in a criminal justice or related agency to further the student's integration of theory with practice. Prerequisite: Junior or senior status.

JUS 498 **3 hours**
Advanced Topics: Justice Studies

On demand. 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 **1 - 4 hours**
Independent Study

On demand. See page 25.

POLITICAL SCIENCE

POS 100 **3 hours**
Introduction to Political Science (Politics, Power and the Individual)

Every Fall and on demand for Spring. 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 **2 hours**
Federal Government

Every Fall and on demand in Spring. A survey of American government; meets the teacher certification requirement for American Government.

POS 262 **1 hour**
Arizona Government

Every Fall and on demand in Spring. A survey of Arizona History and Government. Meets the teacher certification requirement for Arizona Government.

POS 296 **3 hours**
Social Research

Every Fall. 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.

POS 323 **3 hours**
International Relations

Every Spring. Also BUS 323. A study of the history of international politics, contemporary world power structure, and international law and organization. Prerequisite: POS 100 or six (6) hours of history.

POS 344 **3 hours**
Political Thought

Every Spring. 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 **3 hours**
Introduction to Probability and Statistics

Every semester. Also JUS 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 370Δ **3 hours**
Politics, Religion and Ethics

On demand. 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 **3 hours**
Comparative Governments

Every Fall. 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 **3 hours**
American Diplomatic History

On demand. 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) hours of history and/or political science, or instructor's approval.

POS 417 **3 hours**
Constitutional History of the United States

On demand. Also HIS 417. 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) hours of history or political science, or instructor's approval.

POS 497 **3 hours**
Internship

Every semester. 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. Prerequisite: Junior or senior status.

POS 498Δ **3 hours**
Advanced Topics: Political Science

On demand. 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 **1 - 4 hours**
Independent Study

On demand. See page 25.

PSYCHOLOGY

PSY 101 **3 hours**
General Psychology

Every semester. A foundation course in the science of behavior. Includes a study of the origin and development of behavior patterns, motivation, emotional behavior sensory functions, perception, intelligent behavior, and adjustment. Simple experiments constitute a basic part of the course.

PSY 253 **3 hours**
Personality Development

Every Fall. An analysis of personal behavior and its development in the life of an individual. Topics include motivation, coping with stress, interpersonal relationships, and personal growth and change.

PSY 315 **3 hours**
Personality Psychology

Fall 2004, and alternate years. A study of the nature and causal determinants of human behavior, including the definition and scientific measurement of personality. Theories studied will include the 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 **3 hours**
Learning and Cognition

Every Fall. The study of theoretical and empirical problems of human learning and cognitive behavior. The nature of learning processes, transfer memory, information processing, concept attainment, and problem solving will be explored. Prerequisite: PSY 101.

PSY 327 **3 hours**
Physiological Psychology

Fall 2004 and alternate years. A course emphasizing the relationship between brain and behavior. Role of genetic, neural, hormonal physiological processes in sensation, perception, motivation, and learning will be discussed within the context of recent research. Prerequisite: PSY 101, BIO 101 or BIO 181.

PSY 333 **3 hours**
Psychology of Religion

Every Spring. Also HTH 333. Designed to help the student understand and relate to the mental processes involved in individual religious experience. Special attention is given to the conversion experience, religious motivation, and the impact of group dynamics. Prerequisite: PSY 101.

PSY 341 **3 hours**
Lifespan Development

Every semester and every Summer. A course in developmental psychology with an emphasis on the physical, social, cognitive, personality, and moral developments within an individual. The course is designed to provide an understanding of the transitions of life from conception to death. May not be taken with prior credit in Child Psychology (PSY 353). Prerequisite: PSY 101.

PSY 350Δ **3 hours**
Social Psychology

Every Spring. Also SOC 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.

PSY 353 **3 hours**
Child Psychology

Every Fall. An analysis of infant behavior; a study of the motor and emotional development of children; motivation, thinking, work, and play in child life; and the synthesis and integration of personality. May not be taken with prior credit in Lifespan Development (PSY 341). Prerequisite: PSY 101.

PSY 363 **3 hours**
Introduction to Probability and Statistics

Every semester. Also SOC 363, JUS 363 and POS 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.

PSY 373 **3 hours**
Adolescent Psychology

Every semester and every Summer. An examination of the meaning and significance of adolescence; physical, cognitive, moral, and religious development; and the guidance and control of adolescent behavior. Prerequisite: PSY 101.

PSY 385 **3 hours**
Human Sexuality

Every Fall. 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, common problems in sexual behavior, and sexual values and ethics.

PSY 414 Δ **3 hours**
History and Systems of Psychology

Every Spring. 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 **3 hours**
Industrial Psychology

On demand. 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, employee-management relationships, job evaluation, work and equipment design, working conditions, accident and human errors, and consumer psychology. Prerequisite: PSY 101.

PSY 443 **3 hours**
Fundamentals of Counseling and Guidance

Every Spring. Designed for teachers, ministers, business persons, industrial workers, or workers in sociology. Emphasis is placed on the proper use of psychology as a tool for guidance by persons in various occupations. Prerequisite: PSY 101.

PSY 450 **4 hours**
Experimental Psychology

Every Spring. A laboratory course emphasizing both the theoretical and applied aspects of experimental design and research methodology. A variety of experiments will be performed in such areas as learning, motivation, and perception. Prerequisites: Foundation courses and PSY 363.

PSY 466 **3 hours**
Abnormal Psychology

Every Fall. Designed to help students to understand mental illness and to prevent mental illness by a better awareness of the emotional, functional, and physiological factors influencing mental health. Prerequisite: PSY 101.

PSY 490 **3 hours**
Senior Seminar: Psychology Through the Eyes of Faith

On demand. The integration of psychological learning, focusing on its relevance to graduate schools and related careers in psychology. Particular focus will be given to how a Christian perspective impacts the type of questions posed in the discipline. Prerequisites: Senior status and Psychology major.

PSY 497 **1 - 4 hours**
Internship in Psychology

Every semester. 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. Prerequisites: Instructor's approval and 12 hours of Psychology.

PSY 498 **3 hours**
Advanced Topics in Psychology

Summer, on demand. 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 Death and Dying, Psychology of Humor, Psychological Testing, Sensation and Perception, and Developmental Psychopathology. Prerequisite: PSY 101 or instructor's approval.

PSY 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

SOCIOLOGY

SOC 101 **3 hours**
Understanding Society

Every semester. 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 296 **3 hours**
Social Research

Every Fall. 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 **3 hours**
Cultural Anthropology

Every Spring. 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: SOC 101.

SOC 333 **3 hours**
Marriage and the Family

Every Spring. 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.

SOC 341 **3 hours**
Social Problems

Every Spring. 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 350Δ **3 hours**
Social Psychology

Every Spring. 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 **3 hours**
Urban Sociology

Fall 2003, and alternate years. 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 **3 hours**
Introduction to Probability and Statistics

Every semester. Also PSY 363, JUS 363 and POS 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 **3 hours**
Drug Abuse Seminar

Every Spring. Also BIO 383 and HLT 383. Information presented concerns 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 **3 hours**
Human Sexuality

Every Fall. 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 **3 hours**
American Minority Peoples

Every Fall. 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 **3 hours**
Social Work

Every Spring. 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 483Δ **3 hours**
History of Social Thought

Every Spring. 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. Prerequisites: SOC 101 or instructor's approval.

SOC 490Δ **3 hours**
Senior Seminar: Sociology Through the Eyes of Faith

Every Spring. An opportunity for students who are majoring in sociology to integrate and synthesize the knowledge gained from the study of sociology, explore options such as graduate school or employment which build upon the major, and grapple with the issues raised by a Christian perspective on sociology. Required of all Sociology majors. A Writing-Intensive course. Prerequisites: Senior status and Sociology major.

SOC 497 **1 - 4 hours**
Internship in Sociology

Every semester. 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.

SOC 498 **3 hours**
Advanced Topics in Sociology

On demand. 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 **1 - 4 hours**
Independent Study

On demand. See page 25.

Department of Theatre & Drama

DEPARTMENT DESCRIPTION

The Department of Theatre and Drama seeks to provide students the foundation needed to pursue careers in academic, community, and professional theatre programs and/or graduate study. Students are given the opportunity to receive a comprehensive knowledge of theatre history and dramatic literature, along with practical experience in production and performance.

The Department of Theatre and Drama, in cooperation with the Department of Music, produces the Ethington Theatre Series which presents five major productions annually. Additionally, the department offers a student directed series of productions that are performed in the C.J. Smith Jr. Laboratory Theatre on campus. Auditions for all productions are open to the entire student body.

Scholarships are available by audition and/or portfolio review.

DEGREE REQUIREMENTS — THEATRE/DRAMA (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

Theatre/Drama Major

TRE	120	Introduction to the Theatre	3 hours
TRE	140, 340	Stagecraft	3 hours
TRE	150	Acting I	3 hours
TRE	200	Theatre Participation	1 hour
TRE	241	Stage Makeup OR	
Δ TRE	270	Christian Drama	3 hours
TRE	250	Acting II	3 hours
TRE	255	Stage Movement OR	
TRE	455	Acting III - Scene Study	3 hours
TRE	300	Theatre Participation	1 hour
TRE	345	Scene Design	3 hours
TRE	346	Costume Design	3 hours
Δ TRE	370	Theatre History I	3 hours
Δ TRE	371	Theatre History II	3 hours
TRE	375	Dramatic Literature I	3 hours
TRE	376	Dramatic Literature II	3 hours
TRE	400	Theatre Participation	1 hour
TRE	440	Stage Lighting and Design	3 hours
TRE	498	Stage Direction	3 hours
TRE	—	Theatre elective	3 hours
		Total Major Hours	**48 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — SPEECH/THEATRE (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 78-79).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Courses are listed alphabetically by prefix, not in the order the should be taken. See Academic Advisor for sequence.

Speech/Theatre Major

SPC	113	Fundamentals of Speech	3 hours
*SPC	200	Speech Participation	1 hour
SPC	292	Group Discussion	3 hours
*SPC	300	Speech Participation	1 hour
SPC	311	Advanced Public Speaking	3 hours
SPC	318	Voice and Diction	3 hours
SPC	378	Oral Interpretation of Literature	3 hours
SPC	398	Communications and the Media	3 hours
TRE	120	Introduction to the Theatre	3 hours
TRE	140/340	Stagecraft	3 hours
TRE	150	Acting I	3 hours
*TRE	200	Theatre Participation	1 hour
TRE	250	Acting II OR	
TRE	255	Stage Movement	3 hours
Δ TRE	270	Christian Drama OR	
TRE	440	Stage Lighting and Design	3 hours
*TRE	300	Theatre Participation	1 hour
Δ TRE	370	Theatre History I OR	
Δ TRE	371	Theatre History II	3 hours
TRE	375	Dramatic Literature I OR	
TRE	376	Dramatic Literature II	3 hours
TRE	498	Stage Direction	3 hours
TRE	—	Theatre Elective	3 hours
		Total Major Hours	**49 hours**

* Students are required to select three out of four available participation credits. Both speech and theatre must be represented.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — THEATRE

TRE	345	Scene Design OR	
TRE	346	Costume Design OR	
TRE	440	Stage Lighting and Design	3 hours
TRE	120	Introduction to the Theatre	3 hours
TRE	140/340	Stagecraft	3 hours
TRE	150	Acting I	3 hours
TRE	200	Theatre Participation OR	
TRE	300	Theatre Participation OR	
TRE	400	Theatre Participation	1 hour
Δ TRE	370	Theatre History I OR	
Δ TRE	371	Theatre History II	3 hours
TRE	498	Stage Direction	3 hours
TRE	—	Theatre Elective	3 hours
		Total Minor Hours	22 hours

Δ Writing-Intensive course.

THEATRE AND DRAMA

TRE 120 **3 hours**
Introduction to the Theatre

Every Fall. The study of dramatic structure, dramatic literature, period styles, production elements, and various types of drama.

TRE 140 **3 hours**
Stagecraft

Every semester. The study of set and prop construction. Practical application of construction techniques gained through Ethington Theatre productions. May be repeated for up to six credit hours.

TRE 150 **3 hours**
Acting I

Every Fall. Principles of pantomime and dramatic action designed to establish the proper relationship of the voice to the body and its functions in the interpretation of character. Designed also to help develop physical presence and facility in the actor, vocalist, teacher, athlete, and other persons involved in public performance.

TRE 200 **1 hour**
Theatre Participation

Every semester. This course is designed to allow students to learn through active participation in one or more of the following areas: acting, box office, or house management. Prerequisite: Instructor's approval.

TRE 241 **3 hours**
Stage Make-up

Spring 2004, and alternate years. A detailed study of the art and craft of designing and executing stage make-up. Topics will include two-dimensional, three-dimensional, and special effects make-up. Students may also design and supervise make-up for University productions.

TRE 250 **3 hours**
Acting II

Every Spring. An advanced acting course emphasizing scene study and textual analysis, allowing students to concentrate on the method and technique of building a character. Prerequisite: TRE 150 or instructor's approval.

TRE 255 **3 hours**
Stage Movement

Fall 2003, and alternate years. Theories, technical practices, styles and schools of stage movement. Study of audition techniques, working with groups and individually, direction techniques, ballet, and the basic theories of Delsarte, Dalcroze, and Alexander.

TRE 270Δ **3 hours**
Christian Drama

Spring 2003, and alternate years. Also MIN 270. A creative Christian dramatics lab. Emphasis on writing, directing, selecting, and editing, as well as performing religious drama. Methods of utilizing dramatic activity, organizing a drama group, and training the inexperienced within a church are studied. A Writing-Intensive course.

TRE 273 **1 - 3 hours**
Summer Theatre Workshop

Every Summer. As a participation course, students will be involved in every aspect of the production of a play to be performed publicly as a part of the Ethington Theatre Series.

TRE 300 **1 hour**
Theatre Participation

Every semester. This course is designed to allow students to learn by actively participating in one or more of the following areas: light crew, costume construction, properties, or sound crew. Prerequisite: Instructor's approval.

TRE 340 **3 hours**
Stagecraft

Every semester. The study of set and prop construction. Practical application of construction techniques gained through Ethington Theatre productions. May be repeated for up to six credit hours.

TRE 345 **3 hours**
Scene Design

Spring 2003, and alternate years. A study of the theories and practices of designing for the stage. Prerequisite: TRE 140 or TRE 340 or instructor's approval.

TRE 346 **3 hours**
Costume Design

Fall 2003, and alternate years. A comprehensive study of the major periods of costume history and the process of designing costumes for the theatre. Prerequisite: TRE 120 or instructor's approval.

TRE 361 **3 hours**
Valley Theatre Tour

Every Summer. A study of Valley theatres and their productions. Students will study dramatic criticism as well as attend productions and evaluate the performances.

TRE 370Δ **3 hours**
Theatre History I (Greeks to Restoration)

Spring 2003, and alternate years. An in-depth study of the history and development of theatre from early Greece to the English Restoration. A Writing-Intensive course. Prerequisite: TRE 120 or instructor's approval.

TRE 371Δ **3 hours**
Theatre History II (18th Century to Present)

Spring 2004, and alternate years. An in-depth study of the history and development of theatre from 18th century through modern time. A Writing-Intensive course. Prerequisite: TRE 120 or instructor's approval.

TRE 373 **1 - 3 hours**
Summer Theatre Workshop

Every Summer. As a participation course, students will be involved in every aspect of the production of a play to be performed publicly as a part of the Ethington Theatre Series.

TRE 375 **3 hours**
Dramatic Literature I

Fall 2004, and alternate years. A comprehensive study of the major periods and forms of dramatic literature dating from early Greece to the Restoration. Prerequisite: TRE 120 or instructor's approval.

TRE 376 **3 hours**
Dramatic Literature II

Spring 2003, and alternate years. A comprehensive study of the major periods and forms of dramatic literature dating from the Restoration to the present. Prerequisite: TRE 120 or instructor's approval.

TRE 378 **3 hours**
Musical Theatre in America

Fall 2004, and alternate years. A study of the historical development of American Musical Theatre and analysis of its unique dramatic forms.

TRE 399 **1 - 4 hours**
Practicum

On demand. See page 25.

TRE 400 **1 hour**
Theatre Participation

Every semester. This course is designed to allow students to learn by actively participating in one or more of the following areas: stage management, properties mastering, directing, and designing. Prerequisite: Instructor's approval.

TRE 440 **3 hours**
Stage Lighting and Design

Spring 2004, and alternate years. The art of designing lighting for the theatre. Students will actively participate in designing University productions and classroom projects. Prerequisite: TRE 120 or instructor's approval.

TRE 455 **3 hours**
Acting III - Scene Study

Spring 2003, and alternate years. Scene study is the final course of the acting series. Students will be involved with intense duet scene work from a wide variety of playwrights. Students will also develop and prepare audition pieces in this course. Prerequisites: TRE 150 and TRE 250.

TRE 498 **3 hours**
Stage Direction

Spring 2004, and alternate years. A study of theories and techniques of interpreting and directing plays through lectures and demonstrations. Students are required to participate in laboratory projects in directing one-acts or scenes from full-length plays. Prerequisite: TRE 120 or instructor's approval.

TRE 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

The College of Science

MISSION STATEMENT

The College of Science strives to prepare students for graduate study and employment in medical professions, business, industry, government, or teaching. The faculty challenges students to think clearly, excel academically, mature spiritually, and become socially responsible.

COLLEGE DESCRIPTION

The College of Science provides curricula for students majoring in athletic training, biochemistry, biology, chemistry, corporate fitness, environmental biology, physical science, physics, physics for secondary teachers, science education, pre-engineering, pre-medicine, pre-pharmacy, pre-therapy, other health sciences, and wildlife biology. These curricula lead to bachelor's degrees from Grand Canyon University and potentially to master's or doctoral degrees elsewhere. Master's degrees in physical and occupational therapy, physician assistant studies, and sports health care are offered through affiliated colleges.

COLLEGE OF SCIENCE FEATURES

ARTICULATION AND ADMISSION AGREEMENTS WITH OTHER INSTITUTIONS

Grand Canyon University has articulation and reserved admission agreements with the Kirksville College of Osteopathic Medicine (KCOM), the Arizona College of Osteopathic Medicine, the California College of Podiatric Medicine, the University of the Pacific School of Dentistry, and the Southern California College of Optometry. These admission agreements provide outstanding Grand Canyon University students the opportunity for special consideration when they apply to these institutions.

Grand Canyon University students have been accepted at universities and professional programs throughout the United States. Of particular interest is Grand Canyon University's arrangement with KCOM's Arizona School of Health Sciences. The Arizona School of Health Sciences reserves admission slots in its physical therapy, occupational therapy, physician assistant, and sports health care programs for Grand Canyon University students who qualify for "Preferred Admission Status." To obtain information about these opportunities, contact a health profession advisor in the College of Science at Grand Canyon University.

Other articulation and reserved admissions agreements provide outstanding students enhanced admission opportunities into nationally recognized pharmacy programs such as Butler University College of Pharmacy and Health Sciences, Midwestern University, Glendale College of Pharmacy, and Western University of Health Sciences College of Pharmacy.

ARIZONA SCHOOL OF HEALTH SCIENCES (A DIVISION OF KIRKSVILLE COLLEGE OF OSTEOPATHIC MEDICINE)

The Kirksville College of Osteopathic Medicine, the founding school of the osteopathic profession, and Grand Canyon University signed agreements in 1994 establishing the Arizona School of Health Sciences. The Kirksville College of Osteopathic Medicine satellite facility now known as The Arizona School of Health Sciences opened in September 1995 on the Grand Canyon University campus. The Arizona School of Health Sciences coordinates regional clinical rotations for third and fourth year students of osteopathic medicine in Arizona osteopathic and joint-staffed hospitals. In addition, The Arizona School of Health Sciences prepares students for careers in physical therapy, occupational therapy, physician assistant, and sports health care. The occupational therapy and physician assistant programs are Arizona's first, and the physical therapy program is Arizona's second. The physical therapy, occupational therapy, physician assistant, and sports health care programs currently have entering class sizes of approximately 50, 30, 40, and 20 students, respectively.

UNIVERSITY LIBERAL ARTS FOUNDATION FOR THE COLLEGE OF SCIENCE ‡

The University Liberal Arts Foundation (ULAF) for the College of Science differs slightly from the ULAF found on page 30. Students majoring in the College of Science must complete all requirements listed below as part of the ULAF for the College of Science. Changes and additional requirements are indicated by italicized print.

I. Christian Perspectives: **6 hours**

Track 1:
- BIB 113 Old Testament History (3)
- AND
- BIB 123 New Testament History (3)

Track 2: One of the following courses:
- BIB 103 Survey of the Bible (3)
- BIB 113 Old Testament History (3)
- BIB 123 New Testament History (3)
- AND

One of the following courses:
- UNV 304 Science and the Christian Faith (3)
- UNV 305 The Christian Mind (3)
- UNV 306 Foundations of the Christian Faith (3)

II. Communication: **10 hours**

A. English — 6 hours*
ΔENG 101 Academic Writing (3)
Δ ENG 102 Research Writing (3)
B. Speech — 3 hours
SPC 113 Fundamentals of Speech (3)
C. Computer Literacy — 1 hour
CIS 180 Computer Information Systems Module (1)

III. Heritage: **6 hours**

A. History — 3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)
B. Literary and Philosophical Tradition — 3 hours
Any literature course with an "ENG" prefix
or any philosophy course with a "PHI" prefix (3)

IV. Personal and Social Environment: **3 hours**

Any economics (ECN), foreign language (FRE, GER, SPA, etc.), geography (GEO), political science (POS), psychology (PSY), or sociology (SOC) course (3)

V. Mathematical Inquiry: **5 hours**

Two mathematics courses: Choose from MAT 121 College Algebra (3) and higher mathematics courses (2)

VI. Scientific Inquiry: **4 hours**

Satisfied by the major (4)

VII. Fine Arts: **3 hours**

Any art, music, or theatre course (3)

Additional requirement: *2 hours*
Physical Education activity courses (2)
Recommended course:
PED195 Lifetime Wellness (2)

Total University Liberal Arts Foundation Requirements 39* hours

* Students who place into ENG 103 Honors Composition may satisfy the requirements of the English section of Core Area II by successfully completing this course. This may reduce the total ULAF requirements to 36 hours for those students.

Δ As a graduation requirement, all students must complete successfully four **(three for those students who substitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines: and to give students continued practice in writing standard academic English in structuring, drafting, and revising composition effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count towards meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers and receive a grade for the effectiveness of the written assignments. Writing-Intensive courses are identified by a "Δ" throughout the catalog.

‡ Students in the College of Science with a Secondary Education major complete only the University Liberal Arts Foundation requirements for the College of Education (see page 65).
The faculty and staff of the College of Science assist all students in reaching their potential and in preparing for further professional study if desired. However, it is the student's ultimate responsibility to gain admittance to further educational programs and institutions.

REQUIREMENTS — PREMEDICAL

PREPARATIONS FOR SCHOOLS OF MEDICINE, PODIATRY, OPTOMETRY, VETERINARY SCIENCE, AND DENTISTRY

Students who plan to apply to medical, podiatry, optometry, veterinary, or dental schools should obtain a premedical advisor immediately upon entering the University or deciding on a career in medicine. Premedical advisors can help students design a curriculum appropriate for application to medical schools.

Medically-oriented students may major in any discipline; however, degrees in biology or chemistry satisfy the requirements for admission into most medical schools. If students major in biology or chemistry, they may minor in humanities or some other non-science area.

For favorable consideration by medical, podiatry, optometry, veterinary, or dental schools, students should take 15 or more hours of courses per semester (with the possible exception of the freshman year) and maintain A and B grades. Medical programs are rigorous. Students must demonstrate that they can successfully and comfortably manage a full schedule, allowing time for study, rest, and recreation.

Students who plan to be physicians should work to get as much clinical patient care experience as possible, either through voluntary or paid work in a hospital or clinic.

Medical, podiatry, optometry, veterinary, and dental schools generally require the following courses:

Premedical Core

BIO	181/181L	General Biology I	4 hours
BIO	182/182L	General Biology II	4 hours
CHM	113/113L	General Chemistry I	4 hours
CHM	115/115L	General Chemistry II	4 hours
CHM	331/331L	Organic Chemistry I	4 hours
CHM	332/332L	Organic Chemistry II	4 hours
ΔENG	101	Academic Writing	3 hours
ΔENG	102	Research Writing	3 hours
PHY	111/111L	General Physics I **OR**	
PHY	115/115L	University Physics I	4 hours
PHY	112/112L	General Physics II **OR**	
PHY	116/116L	University Physics II	4 hours
		Total Premedical Core Hours	**38 hours**

Δ Writing-Intensive course.

Professional schools require diverse prerequisites; therefore, students are encouraged to determine requirements for particular schools early in their undergraduate careers. A broad liberal arts background including courses in psychology, sociology, and the humanities is important in the health sciences. In addition, electives from the following list should be considered:

BIO	205	Microbiology
BIO	304	Applied Nutrition
BIO	308	Pathophysiology
BIO	332	Cell Biology
BIO	340	Genetics
BIO	360	Basic Physiology
BIO	373	Human Gross Anatomy and Dissection
BIO	430	Developmental Biology
BIO	433	Histology
CHM	314	Analytical Chemistry
CHM	461	Biochemistry I
CHM	462	Biochemistry II
MAT	270	Analytical Geometry and Calculus I
MAT	271	Analytical Geometry and Calculus II
PHI	329	Biomedical Ethics
PHY	361	Modern Physics
SPC	113	Fundamentals of Speech

Grand Canyon University's articulation and admission agreements with the Kirksville College of Osteopathic Medicine, the Arizona College of Osteopathic Medicine, the California College of Podiatric

Medicine, the University of the Pacific School of Dentistry, and the Southern California College of Optometry provide outstanding Grand Canyon University students with special admission opportunities. To obtain information about these opportunities, please contact a health professions advisor in the College of Science at Grand Canyon University.

REQUIREMENTS — PRE-HEALTH PROFESSIONS

PREPARATIONS FOR SCHOOLS OF PHYSICAL THERAPY, OCCUPATIONAL THERAPY, PHARMACY, PHYSICIAN ASSISTANT STUDIES, SPORTS HEALTH CARE, AND OTHER HEALTH PROFESSIONS

Grand Canyon University offers coursework that prepares students for graduate or professional studies in such health professions as physical therapy, occupational therapy, physician assistant studies, and sports health care.

Health professionals work closely with patients or clients, encouraging and motivating them to approach, reach, or surpass their previous level of physical and mental performance. Thus, for admittance into allied health programs, students must excel in character, determination, experience, and the desire to help others. Because entry to graduate programs is highly competitive, students must also excel academically.

Students who plan to enter allied health professions should work to get as much clinical patient care experience as possible, either through voluntary or paid work in a hospital or clinic.

The following pre-health professions core consists of courses which are prerequisites for many allied health programs. Students should incorporate them in their undergraduate coursework.

Pre-Health Professions Core

BIO	181/181L	General Biology I	4 hours
BIO	182/182L	General Biology II	4 hours
BIO	201/201L	Human Anatomy and Physiology I	4 hours
BIO	202/202L	Human Anatomy and Physiology II	4 hours
BIO	205	Microbiology	4 hours
CHM	113/113L	General Chemistry I	4 hours
CHM	115/115L	General Chemistry II	4 hours
CHM	331/331L	Organic Chemistry I	4 hours
CHM	332/332L	Organic Chemistry II	4 hours
CIS	180	Computer Information Systems	3 hours
ΔENG	101	Academic Writing	3 hours
ΔENG	102	Research Writing	3 hours
MAT	121	College Algebra	3 hours
PHY	111/111L	General Physics I	4 hours
PHY	112/112L	General Physics II	4 hours
PSY	101	General Psychology	3 hours
PSY	341	Lifespan Development	3 hours
PSY	466	Abnormal Psychology	3 hours
		Total Pre-Health Profession Core Hours	**65 hours**

Δ Writing-Intensive course.

REQUIREMENTS — PRE-GRADUATE

PREPARATION FOR GRADUATE STUDY

Students who plan to apply to graduate schools in biology, chemistry, physical science, or engineering should take all the required courses in the appropriate major and additional major electives. For favorable consideration by the top graduate schools, students should take 15 or more hours of courses each semester (with the possible exception of the freshman year), maintain A and B grades, and include one of the following courses among their undergraduate courses:

BIO 498 Research in Biology (3) **OR**
CHM 498 Research in Chemistry (3) **OR**
PHY 498 Research in Physics (3)

REQUIREMENTS — PRE-ENGINEERING (3:2 PROGRAM)

PREPARATION FOR ENGINEERING

Students who plan to transfer to an accredited engineering program should consult with an engineering advisor.

REQUIREMENTS — PRE-ELEMENTARY AND PRE-SECONDARY TEACHING

PREPARATION FOR TEACHING

Students who plan to major in chemistry for secondary teachers, physics for secondary teachers, biology for secondary teachers, or science for elementary teachers should obtain a College of Education advisor and a Department of Physical Sciences or Department of Biology advisor. The advisors can assist students in selecting courses to satisfy Grand Canyon University graduation requirements, the College of Education requirements, and the State Department of Education requirements for teaching certification.

CRITERIA FOR GRAND CANYON UNIVERSITY STUDENTS PREFERRED ADMISSION STATUS TO ARIZONA SCHOOL OF HEALTH SCIENCES

Arizona School of Health Sciences reserves one third of its entering class positions in each of its graduate programs for Grand Canyon University graduates who meet the rigorous criteria set for preferred admission status.

The Arizona School of Health Sciences (ASHS), offers graduate degree programs in Occupational Therapy, Physical Therapy, Physician Assistant studies, and Sports Health Care. Grand Canyon University and ASHS established an articulation agreement facilitating the admission of highly qualified Grand Canyon University students into the graduate programs. To qualify for preferred admission status into these graduate programs, a Grand Canyon University student must meet all of the criteria below:

1. Complete the ASHS graduate program application and return it to the Admission Processing Center by January 15. To be considered for preferred admission status, Grand Canyon University students must complete all sections of the application and send all required documents to the Admission Processing Center by January 15.

2. Satisfy all ASHS admission requirements. Each ASHS program, Occupational Therapy, Physical Therapy, Physician Assistant studies, and Sports Health Care, has individual admission requirements. Grand Canyon University students who are applying under the preferred admission status must satisfy all requirements including academic, standardized testing, experience, recommendations, resume evaluation, and the personal interview in order to be admitted. Completion of the criteria stated below, alone, does not guarantee admission to an ASHS program.

3. Complete all ASHS prerequisite courses by the end of the Spring semester prior to enrollment. Prerequisite courses are listed for each individual health science program in brochures and applications provided by ASHS. Students must complete each of these courses with a minimum of "C" by the end of Spring semester.

4. Achieve a minimum Graduate Record Examination (GRE) combined score on verbal, quantitative, and analytical parts of 1550. Students should take the GRE early in order to have scores reported to ASHS prior to the application deadline. Processing of GRE scores normally takes three weeks for the computer test and six weeks for the pen and paper version.

5. Complete a baccalaureate degree at Grand Canyon University. Students must complete their degree prior to the beginning of classes at ASHS. Preferred admission status is available to students completing their degree during the summer session at Grand Canyon University. Academic requirements for non-baccalaureate applications are listed in ASHS admission information.

6. Achieve a minimum 3.25, on a 4.0 scale, cumulative GPA and a 3.25, on a 4.0 scale, science GPA in all college or university course work. Overall and science GPAs must include all previously taken college work. Students should refer to the ASHS application for instructions on selecting GPAs and courses to include in the science GPA calculations.

Grand Canyon University students who do not meet all of the above criteria for preferred admission status are still eligible to be considered for admission to ASHS if they meet the general admission criteria specified in the ASHS application. All qualified students are encouraged to apply for admission.

Department of Biology

DEPARTMENT DESCRIPTION

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

The faculty of the Department of Biology are broadly trained scientists who are committed to training modern, competent, and responsible professionals. Many of the faculty pursue research that involves undergraduate biology students. The professors recognize that involvement in research complements and strengthens their teaching, and also offers students a valuable view of the scientific process that leads to new discoveries and greater understanding of the natural world. Biology students can receive college credit towards their degrees for participation in research or for practical experience they gain from internships.

DEGREE REQUIREMENTS — ALLIED HEALTH (B.S. DEGREE; No Minor Required)

The Bachelor of Science degree in allied health is restricted to outstanding students who gain early admission to master's degree programs in physical therapy, occupational therapy, or sports health care at the Arizona School of Health Sciences (ASHS). The degree is not available to students already holding a bachelor's degree.

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Prerequisites for appropriate ASHS master's degree program.

No minor required.

Electives (as needed to total 90 semester hours by the end of the Spring semester prior to matriculation at ASHS).

Satisfactory completion of 30 semester hours at Grand Canyon University.

Satisfactory completion of first year coursework at ASHS.

DEGREE REQUIREMENTS — BIOLOGY (General) (B.S. DEGREE; Minor Optional)

The Biology degree program is designed primarily to provide students with a strong foundation for a variety of graduate and professional programs and careers. Advisors assist students in tailoring their programs with appropriate electives to allow them to pursue careers including medicine, research, and environmental quality.

University Liberal Arts Foundation for College of Science (see pages 117-118).

Minor optional.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Biology Major

	BIO 181	General Biology I	4 hours
	BIO 182	General Biology II	4 hours
Δ	BIO 301	Science Communication I	2 hours
Δ	BIO 302	Science Communication II	2 hours
	BIO 320	Fundamentals of Ecology	4 hours
	BIO 332	Cell Biology	3 hours
	BIO 340	Genetics	4 hours
	BIO 360, 360L	Basic Physiology	4 hours
	BIO ---	Biology Electives	17 hours
	CHM 113, 113L	General Chemistry I	4 hours
	CHM 115, 115L	General Chemistry II	4 hours
	CHM 331, 331L	Organic Chemistry I	4 hours
	CHM 332, 332L	Organic Chemistry II	4 hours
*	PHY 111, 111L	General Physics I	4 hours
*	PHY 112, 112L	General Physics II	4 hours

Biology Electives

Choose at least one course from each of the following:

Biodiversity

BIO 350	Comparative Invertebrate Zoology	4 hours
BIO 370	Arizona Flora	4 hours
BIO 411	Conservation Biology	4 hours
BIO 481	Vertebrate Zoology I	4 hours
BIO 482	Vertebrate Zoology II	4 hours

AND

Morphology/Advanced Physiology

BIO 308	Pathophysiology	3 hours
BIO 373	Human Gross Anatomy and Dissection	4 hours
BIO 433	Histology	4 hours
BIO 444	Endocrinology	4 hours

AND

Microbial and Molecular Biology

BIO 205	Microbiology	4 hours
BIO 345	Immunology	3 hours
BIO 443	Molecular Genetics	3 hours
CHM 360, 360L	Principles of Biochemistry	4 hours

To complete the 17 hour Biology Electives requirement, students may take any course with a BIO prefix excluding BIO 100, 105, 201, 202, 305, 306, 307, 309, and all recitation courses.

Total Major Hours **68 hours**

Δ Writing-Intensive course.

* PHY 115, 115L University Physics I and PHY 116, 116L University Physics II may be substituted.

DEGREE REQUIREMENTS — ENVIRONMENTAL BIOLOGY (B.S. DEGREE; No Minor Required)

Environmental biology is designed to provide the necessary background for graduating students to apply for professional positions in environmental and resource management, including public agencies, private industry, and consulting firms. Emphasis is placed on field oriented coursework in ecology, organismal biology, and resource management.

University Liberal Arts Foundation for the College of Science (see pages 117-118).

No minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Environmental Biology Major.

BIO	181	General Biology I	4 hours
BIO	182	General Biology II	4 hours
BIO	184	Plant Biology	4 hours
Δ BIO	301	Science Communication I	2 hours
Δ BIO	302	Science Communication II	2 hours
BIO	320	Fundamentals of Ecology	4 hours
BIO	340	Genetics	4 hours
BIO	350	Comparative Invertebrate Zoology	4 hours
BIO	360, 360L	Basic Physiology	4 hours
BIO	370	Arizona Flora	4 hours
BIO	411	Conservation Biology	4 hours
BIO	481	Vertebrate Zoology I	4 hours
BIO	482	Vertebrate Zoology II	4 hours
BIO	497	Environmental Biology Internship	1 hour
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
CHM		Upper Division Chemistry Elective	4 hours
PHY	101, 101L	Intro. to Physical Science	4 hours
PSY	363	Intro. to Probability and Statistics (3) OR	
MAT	213	Statistics (3)	3 hours
		Total Major Hours	**68 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — HUMAN BIOLOGY (B.S. DEGREE; Minor Optional)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor optional.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirements).

Human Biology Major

BIO	181	General Biology I	4 hours
BIO	182	General Biology II	4 hours
BIO	201, 201L	Human Anatomy and Physiology I	4 hours
BIO	202, 202L	Human Anatomy and Physiology II	4 hours
BIO	205	Microbiology	4 hours
Δ BIO	301	Science Communication I	2 hours
Δ BIO	302	Science Communication II	2 hours
BIO	---	One of the following:	2 hours
BIO	305	Intro to Physical Therapy (2)	
BIO	306	Intro to Occupational Therapy (2)	
BIO	307	Practice of Medicine by Physician Assistants (2)	
BIO	309	Introduction to Pharmacy (2)	
BIO	308	Pathophysiology	3 hours
BIO	340	Genetics	4 hours
BIO	---	Electives	14 hours
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
PHY	111, 111L	General Physics I	4 hours
PHY	112, 112L	General Physics II	4 hours
PSY	101	General Psychology	3 hours
PSY	341	Lifespan Development	3 hours
PSY	466	Abnormal Psychology	3 hours

Biology Electives

Choose at least one course from Group I

EXS	335	Kinesiology	3 hours
EXS	340	Exercise Physiology	3 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CHM	360, 360L	Principles of Biochemistry	4 hours

AND

Choose at least one course from Group II

BIO	332	Cell Biology	3 hours
BIO	345	Immunology	3 hours
BIO	373	Human Gross Anatomy and Dissection	4 hours
BIO	383	Drug Abuse Seminar	3 hours
BIO	433	Histology	4 hours
BIO	443	Molecular Genetics	3 hours
		Total Major Hours	**72 hours**

Δ Writing-Intensive course.

To complete the 14-hour Upper Division Biology electives requirement, students may take additional courses from Group I and Group II or any upper division courses with a BIO, CHM, or PHY prefix, excluding CHM 101, CHM 101L, PHY 101, PHY 101L, BIO 100, BIO 105, BIO 360 and all recitation courses.

DEGREE REQUIREMENTS — BIOLOGY FOR SECONDARY TEACHERS* (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Education Secondary Education Programs (see page 65).

Secondary Education major required.

Minor required.

Biology for Secondary Teachers Major

BIO	181	General Biology I	4 hours
BIO	182	General Biology II	4 hours
BIO	201, 201L	Human Anat. and Physiology I	4 hours
BIO	202, 202L	Human Anat. and Physiology II	4 hours
Δ BIO	301	Science Communication I	2 hours
Δ BIO	302	Science Communication II	2 hours
BIO	320	Fundamentals of Ecology	4 hours
BIO	340	Genetics	4 hours
BIO	480	Methods of Teaching Science in Secondary Schools	3 hours
BIO	---	Upper Division Bio. Elective(s)	4 hours
† CHM	101, 101L	Introduction to Chemistry	4 hours
† CHM	260	Introduction to Biochemistry	4 hours
CIS/SCI	180	Computer Info. System Modules (May include Science on the Internet)	3 hours
PHY	101, 101L	Introduction to Physical Science (4) OR	
PHY	111, 111L	General Physics I (4)	4 hours
		Total Major Hours	**50 hours**

* Please refer to the College of Education for secondary certification and minor requirements.

Δ Writing-Intensive course.

† CHM 113, 113L General Chemistry I and CHM 115, 115L General Chemistry II are required for Chemistry minors.

MINOR REQUIREMENTS — BIOLOGY*

BIO 181	General Biology I	4 hours
BIO 182	General Biology II	4 hours
BIO ---	Biology Electives including 6 hours Upper Division (excluding recitations)	12 hours
	Total Minor Hours	**20 hours**

* Students desiring teaching certification should take 24 hours for a minor. Please refer to the College of Education for certification requirements.

BIOLOGY

BIO 100 — **4 hours**
Biology Concepts

Every semester. A complete overview of the science of biology from a human perspective. Topics include cells, energetics, ecology, inheritance, evolution, embryology, anatomy, and physiology. Three hours lecture, three hours lab. This course does not apply toward Biology majors.

BIO 105 — **4 hours**
Environmental Biology

Every Spring. A study of the fundamentals of ecology and their relevance to human impact on natural ecosystems. Three hours lecture, three hours lab. This course does not apply toward Biology majors.

BIO 181 — **4 hours**
General Biology (Majors) I

Every Fall and Summer. A study of biological concepts emphasizing the interplay of structure and function, particularly at the molecular, cellular, and organismal levels of organization. Three hours lecture, three hour lab.

BIO 182 — **4 hours**
General Biology (Majors) II

Every Spring and Summer. 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. Three hours lecture, three hour lab. Prerequisite: BIO 181 and BIO 182.

BIO 184 — **4 hours**
Plant Biology

Spring 2002, and alternate years. A study of the principles and processes in plant biology with emphasis on vascular plants. Includes a survey of the plant kingdom, plant ecology, and economic botany. Three hours lecture, three hours lab.

BIO 201 — **3 hours**
Human Anatomy and Physiology I

Every Fall and Summer. A study of the structure and function of cells and the following human systems: skeletal, muscular, and nervous. Three hours lecture. No credit for Biology (general) or Environmental Biology majors.

BIO 201L — **1 hour**
Human Anatomy and Physiology I: Laboratory

Every Fall and Summer. A study of the gross anatomy and functions of the skeletal, muscular, and nervous systems. Laboratory involves the integrated use of human cadavers, animal demonstrations, and computer-assisted instruction. Three hours lab. No credit for Biology (general) or Environmental Biology majors. Prerequisite: Concurrent enrollment in BIO 201 lecture.

BIO 201R — **1 hour**
Human Anatomy and Physiology I: Recitation

Every Fall and Summer. A recitation course designed to complement and support the principles being taught in BIO 201 lecture. One hour recitation. Prerequisite: Concurrent enrollment in BIO 201 lecture.

BIO 202 — **3 hours**
Human Anatomy and Physiology II

Every Spring and Summer. A study of the structure and function of the following human systems: endocrine, cardiovascular, respiratory, digestive, renal, and reproductive. Three hours lecture. No credit for Biology (general) or Environmental Biology majors. Prerequisite: BIO 201 or instructor's approval.

BIO 202L — **1 hour**
Human Anatomy and Physiology II: Laboratory

Every Spring and Summer. A study of the gross anatomy and functions of the endocrine, cardiovascular, respiratory, digestive, renal, and reproductive systems. Laboratory involves the integrated use of human cadavers, animal demonstrations, and computer-assisted instruction. Three hours lab. No credit for Biology (general) or Environmental Biology majors. Prerequisite: Concurrent enrollment in BIO 202 lecture.

BIO 202R — **1 hour**
Human Anatomy and Physiology II: Recitation

Every Spring and Summer. A recitation course designed to complement and support the principles being taught in BIO 202 lecture. One hour recitation. Prerequisite: Concurrent enrollment in BIO 202 lecture.

BIO 205 — **4 hours**
Microbiology

Every semester and Summer. An introduction to the principles and applications of microbiology, with a study of the general characteristics of microorganisms and their relationship to humans. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 213 — **3 hours**
Introduction to Wildlife Ecology and Management

On demand. Introduction to the principles of wildlife management in the United States, including philosophy of wildlife management, environmental laws, public policy, and principles of applied conservation biology. Three hours lecture. Prerequisites: BIO 181 and BIO 182.

BIO 301Δ — **2 hours**
Science Communication I

Every semester. Also PHY 301 and CHM 301. A study of how to gather, analyze, and communicate scientific information. Topics covered include various forms of written communication, publishing research results, and oral presentation techniques. A Writing-Intensive course. Prerequisite: BIO 181.

BIO 302Δ — **2 hours**
Science Communication II

Every semester. Also PHY 302 and CHM 302. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. A Writing-Intensive course. Prerequisite: BIO 301, and junior or senior status.

BIO 304 — **3 hours**
Applied Nutrition

Every semester. 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 are used to promote health and prevent illness.

BIO 305 — **2 hours**
Introduction to Physical Therapy

On demand. An introduction to the professional and practical field of physical therapy. A text supplements guest speakers, open discussions, question/answer sessions, and examinations. Students must also either observe a physical therapist in the field or present a case. Prerequisites: Cumulative GPA of 3.00 or higher, BIO201 (with a grade of A or B), and instructor's approval.

BIO 306 — **2 hours**
Introduction to Occupational Therapy

On demand. An introduction that includes observation of occupational therapists at work, experience with patients, writing of journals, discussions, public speaking, and interactions with guest speakers. Two hours lecture. May be repeated for up to four hours credit. Prerequisites: Cumulative GPA of 3.00 or higher, BIO 201 (with a grade of A or B), and instructor's approval.

BIO 307 **2 hours**
Practice of Medicine by Physician Assistants

On demand. An informative course on the history of the Physician Assistant (PA) profession from inception to current status. Emphasis is on current practice venues. Interaction with practicing PA's will be accomplished by guest speakers. Two hours lecture. May be repeated for up to four hours credit. Prerequisites: Cumulative GPA of 3.00 or higher, A or B grade in BIO 201, and instructor's approval.

BIO 308 **3 hours**
Pathophysiology

Every semester and Summer. A study of manifestations of altered human physiology and disease. Systems theory is used to analyze the relationship between disease and physiology. Three hours lecture. Prerequisites: BIO 201 and BIO 202, or BIO 360.

BIO 308R **1 hour**
Pathophysiology: Recitation

Every semester and Summer. A recitation course designed to complement and support the principles being taught in BIO 308 lecture. One hour recitation. Prerequisite: Concurrent enrollment in BIO 308 lecture.

BIO 309 **2 hours**
Introduction to Pharmacy

Every semester. An informative course on the history of the pharmacy profession from inception to current status. Emphasis is on current practice venues, including the clinical knowledge base required for a practicing pharmacist, plus hospital, retail, and managed care opportunities. Prerequisite: Cumulative GPA of 3.00 or higher and instructor's approval.

BIO 320 **4 hours**
Fundamentals of Ecology

Every semester. A study of plants and animals as individuals and in communities in relation to their physical and biological environment. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 332 **3 hours**
Cell Biology

Every semester. A comprehensive study of the composition, structure, energetics, regulation, and growth of eukaryotic cells. Three hours lecture. Prerequisites: BIO 181 and BIO 182.

BIO 340 **4 hours**
Genetics

Every semester. A comprehensive examination of the principles of heredity and variation, including Mendelian genetics, molecular genetics, and population genetics. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 340R **1 hour**
Genetics: Recitation

Every semester. A recitation course designed to complement and support the principles being taught in the BIO 340 lecture. One hour recitation. Prerequisite: Concurrent enrollment in BIO 340 lecture.

BIO 345 **3 hours**
Immunology

Every Spring. This course is designed to be a general overview of immunology. Special emphasis is placed upon development of humoral and cellular immunity, complement system, HLA antigens, immune system disorders, hypersensitivity reactions, autoimmunity, transfusion, transplantation, and cancer immunology and immunotherapy. Prerequisites: BIO 181 and BIO 182.

BIO 350 **4 hours**
Comparative Invertebrate Zoology

Fall 2003, and alternate years. A study of the systematics, morphology, life history, and ecology of invertebrate organisms. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 360 **3 hours**
Basic Physiology

Every Fall. A study of the functions of cells, organs, and systems of vertebrates, with emphasis on humans. Three hours lecture. Prerequisites: BIO 181 and BIO 182.

BIO 360L **1 hour**
Basic Physiology: Laboratory

Every Fall. Laboratory exercises that complement topics of BIO 360 lectures. Three hours lab. Prerequisite: Concurrent enrollment in BIO 360 lecture.

BIO 370 **4 hours**
Arizona Flora

Spring 2005, and alternate years. A study of the principles of systematic botany with an emphasis on identification of the vascular flora of Arizona. Three hours lecture, three hours lab. Prerequisite: BIO 184.

BIO 373 **4 hours**
Human Gross Anatomy and Dissection

Every Summer. 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. Three hours lecture, three hours lab. This course cannot be taken as an audit. Prerequisites: BIO 181, BIO 182, and instructor's approval; students must apply for this course during the preceding Fall semester.

BIO 383 **3 hours**
Drug Abuse Seminar

Every semester. Also HLT 383 and SOC 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.

BIO 411 **4 hours**
Conservation Biology

Spring 2004, and alternate years. A survey of the science of conserving global biodiversity, including philosophies and values, species conservation, habitat protection, and sustainable development. Laboratory exercises incorporate computer simulations and field work. Three hours lecture, three hours lab. Prerequisite: BIO 320.

BIO 413 **4 hours**
Principles of Fisheries Management

On demand. A survey of the principles of aquatic systems, ecology and fisheries management, and biology. Three hours lecture, three hours lab. Prerequisite: BIO 213, BIO 320.

BIO 426 **4 hours**
Aquatic Ecology

On demand. A study of the physical and biological components of aquatic ecosystems and adaptations of aquatic organisms. Laboratory investigations include methods of sampling and analyzing water and aquatic life. Three hours lecture, three hours lab. Prerequisite: BIO 320.

BIO 430 **4 hours**
Developmental Biology

On demand. A comprehensive examination of topics in developmental biology, including genetic regulation, nucleocytoplasmic interactions, morphogenesis, pattern formation, and cell differentiation. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 433 **4 hours**
Histology

Every Spring. A study of the microscopic structure and function of human tissues. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 443 **3 hours**
Molecular Genetics

On demand. This course will provide a comprehensive coverage of the present state of knowledge in the field of molecular genetics. It will include discussion of DNA and chromosome structure, contemporary molecular genetics laboratory techniques, including PCR and cloning, gene mapping, gene organization, mutation and repair, cancer genetics, and genetic testing.

BIO 444 **3 hours**

Endocrinology

On demand. Advanced presentation of concepts in endocrinology with emphasis on the role of hormones in reproduction, development, metabolism and disease. Both systemic and molecular aspects of endocrinology are covered in this course. Prerequisites: BIO 201 and BIO 202, or BIO 360.

BIO 480 **3 hours**

Methods of Teaching Science in the Secondary School

Every Fall. Methods of instruction, organization, and presentation of content in teaching science. Two hours lecture, two hours lab.

BIO 481 **4 hours**

Vertebrate Zoology I

Fall 2004, and alternate years. A study of the systematics, morphology, natural history, and ecology of fish, amphibians, and reptiles. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 482 **4 hours**

Vertebrate Zoology II

Spring 2005, and alternate years. Systematics, morphology, natural history, and ecology of birds and mammals. Three hours lecture, three hours lab. Prerequisites: BIO 181 and BIO 182.

BIO 496 **1 - 4 hours**

Advanced Topics in Biology

On demand. Each year appropriate topics will be offered at an advanced level. Credit will range from one to four hours depending on the topic. May be repeated for credit. Prerequisite: Instructor's approval.

BIO 497 **1 - 4 hours**

Internship

On demand. 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. See Department Chair for specific information. Prerequisite: Instructor's approval.

BIO 498 **3 hours**

Research in Biology

Every semester. A detailed study of one or more biological problems. May be repeated for up to nine hours of credit, three of which may count toward electives in biology. Prerequisites: BIO 181, BIO 182, CHM 113, 113L, CHM 115, 115L, and instructor's approval.

BIO 499 **1 - 4 hours**

Independent Study

On demand. See page 25.

Department of Health, Exercise Science, & Physical Education

DEPARTMENT DESCRIPTION

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 National Athletic Trainers Association 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.

The Athletic Training, Corporate Fitness and Wellness, Physical Education, and Recreation majors comprise 44-47 hours of study with a minor required. Department minors include: Athletic Coaching, Exercise Science, Health Education, Physical Education-Teaching Emphasis, and Recreation.

An Athletic Trainer is a qualified allied health care professional educated and experienced in the management of health care problems associated with sports participation. The Athletic Training major prepares the student to become a certified athletic trainer who 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 which require at least 1000 hours of clinical experience that must be completed before graduation. Students are also required to take 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 75 observation hours and athletic training student prerequisite requirements. Students will be accepted to the program by June 1 for priority admisson.

The Corporate Fitness and Wellness major can lead, along with practical experience, to eligibility in any of the following areas: Exercise Leader, Health/Fitness Instructor, or Personal Trainer with the American College of Sports Medicine or Certified Strength and Conditioning Specialist or Personal Trainer with the National Strength and Conditioning Association.

The Physical Education major and minor will prepare students for State Board of Education Certification or Endorsement, along with meeting College of Education requirements, at either the elementary or secondary level.

The Recreation major and minor will prepare the student as a recreation professional who can supervise and implement recreation programs and manage recreation facilities.

The Athletic Coaching minor emphasizes 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.

The Exercise Science minor will especially enable the Human Biology or Allied Health major to obtain a degree from Grand Canyon University by providing a concentrated field of study of valuable knowledge and skills to enhance admittance possibilities in allied health professional schools.

The Health Education minor is designed to prepare students to enter the commercial health industry as an educator, or with College of Education coursework, to receive State Board of Education Endorsement.

DEGREE REQUIREMENTS — ATHLETIC TRAINING (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Students must complete 1,000 supervised athletic training internship hours and clinical experience check sheet prior to graduation.

Prerequisites

HLT	200	Personal Health	3 hours
PSY	101	General Psychology	3 hours

Athletic Training Major

BIO	201	Human Anatomy and Physiology I	4 hours
BIO	202	Human Anatomy and Physiology II	4 hours
BIO	304	Applied Nutrition	3 hours
PED	292	Teaching of Individual Activities II	2 hours
EXS	297a	Clinical Instruction I in Athletic Training	1 hour
EXS	314	Care and Prevention of Athletic Injuries	3 hours
EXS	324	Recognition and Evaluation of Athletic Injuries	3 hours
Δ EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
Δ EXS	414	Advanced Athletic Training	3 hours
EXS	424	Athletic Training Administration	3 hours
EXS	426	Theory of Prescribing Exercise	3 hours
EXS	426L	Theory of Prescribing Exercise Lab	1 hour
EXS	496a	Therapeutic Modalities	2 hours
EXS	496b	Pharmacology/Neurology	2 hours

EXS	497a	Clinical Instruction 2 in Athletic Training	1 hour
EXS	497b	Clinical Instruction 3 in Athletic Training	1 hour
EXS	497c	Clinical Instruction 4 in Athletic Training	1 hour
HLT	270	First Aid and Safety	3 hours
		Total Major Hours	**46 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — CORPORATE FITNESS AND WELLNESS (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Corporate Fitness and Wellness Major

BIO	201	Human Anatomy and Physiology I	4 hours
BIO	202	Human Anatomy and Physiology II	4 hours
Δ EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
EXS	383	Measurement in Physical Education	3 hours
EXS	497	Internship in Exercise Science	2 hours
EXS	---	Upper Division Electives	6 hours
HLT	200	Personal Health	3 hours
HLT	270	First Aid and Safety	3 hours
PED	---	Activities Classes (Any one hour activity course)	4 hours
PED	240	Introduction to Physical Education	3 hours
Δ PED	246	Instructional Strategies in Physical Education	3 hours
PED	---	Professional Activities (Select three from 252, 262, 282, 292)	6 hours
		Total Major Hours	**47 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENT — PHYSICAL EDUCATION* (B.S. DEGREE; MINOR REQUIRED)

Non-Teaching Candidates: University Liberal Arts Foundation for the College of Science (see pages 117-118).

Teaching Candidates: University Liberal Arts Foundation for the Secondary Education Program (see page 65).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Physical Education Major

Δ EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
HLT	253	Anatomy and Physiology	3 hours
PED	195	Lifetime Wellness	2 hours
PED	240	Introduction to Physical Education	3 hours
Δ PED	246	Instructional Strategies in Physical Education	3 hours
PED	363	Physical Education for the Exceptional Child	3 hours
PED	383	Measurement in Physical Education	3 hours
PED	403	Physical Education for the Elementary Grades	3 hours
PED	413	Physical Education for the Secondary School	3 hours
PED	---	Activities Classes (Any one hour activity course)	4 hours
PED	---	Professional Activities (Select four from 252, 262, 282, 292)	8 hours
PED	---	Upper Division Electives	3 hours
		Total Major Hours	**44 hours**

Δ Writing-Intensive course.

* Refer to the College of Education for Secondary Education major requirements. In order to graduate with a K-12 Endorsement, 16 hours of student teaching (EED 480 - grades K-6, and SED 480 - grades 7-12) must be completed.

DEGREE REQUIREMENTS — RECREATION (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Recreation Major

HLT	270	First Aid and Safety	3 hours
Δ PED	246	Instructional Strategies in Physical Education	3 hours
PED	---	Professional Activities (Select two from PED 252, 262, 282, 292)	4 hours
REC	203	Introduction to Recreation	3 hours
REC	213	Recreational Leadership	3 hours
REC	215	Recreational Programming	3 hours
REC	313	Outdoor Recreation	3 hours
REC	423	Recreation Administration	3 hours
REC	424	Recreation Facility Management	3 hours
Δ REC	425	Recreation for Special Populations	3 hours
REC	497	Internship in Recreation	9 hours
Select two of the following:			6 hours
BUS	307	Business Communication (3)	
MGT	301	Principles of Management (3)	
MKT	301	Principles of Marketing (3)	
		Total Major Hours	**46 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — ATHLETIC COACHING

EXS	314	Care and Prevention of Athletic Injuries	3 hours
HLT	253	Anatomy and Physiology	3 hours
Δ PED	246	Instructional Strategies in Physical Education	3 hours
PED	---	Professional Activities (Select two from 252, 262, 282, 292)	4 hours
PED	---	Athletic Coaching (Select three from 323, 333, 334, 343, or equivalent)	9 hours
PED	433	Theory of Coaching	3 hours
PED	497	Internship in Athletic Coaching	2 hours
		Total Minor Hours	**27 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — EXERCISE SCIENCE

EXS	314	Care and Prevention of Athletic Injuries	3 hours
Δ EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
EXS	383	Measurement in Physical Education	3 hours
EXS	497	Internship in Exercise	3 hours
EXS or HLT		Upper Division Electives	9 hours
		Total Minor Hours	**24 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — HEALTH EDUCATION

HLT	200	Personal Health	3 hours
HLT	253	Anatomy and Physiology	3 hours
HLT	270	First Aid and Safety	3 hours
HLT	382	Principles of Public Health	3 hours
HLT	383	Drug Abuse Seminar	3 hours
HLT	423	Health Administration	3 hours
HLT	480	Methods of Teaching Health	3 hours
HLT	497	Internship in Health Education	3 hours
		Total Minor Hours	**24 hour**

MINOR REQUIREMENTS — PHYSICAL EDUCATION

Δ EXS	335	Kinesiology	3 hours
EXS	383	Measurement in Physical Education	3 hours
HLT	253	Anatomy and Physiology	3 hours
Δ PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 282, 292)	4 hours
PED	363	Phys. Ed. for the Exceptional Child	3 hours
PED	403	Phys. Ed. for the Elementary Grades (3) **OR**	
PED	413	Phys. Ed. for Secondary School (3)	3 hours
PED or EXS		Upper Division Electives	3 hours
		Total Minor Hours	**25 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — RECREATION

Δ PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 282, 292)	4 hours
REC	203	Introduction to Recreation	3 hours
REC	213	Recreational Leadership (3) **OR**	
REC	215	Recreational Programming (3)	3 hours
REC	313	Outdoor Recreation (3) **OR**	
Δ REC	425	Recreation for Special Populations (3)	3 hours
REC	423	Recreation Administration (3) **OR**	
REC	424	Recreation Facility Management (3)	3 hours
REC	497	Internship in Recreation	5 hours
		Total Minor Hours	**24 hours**

Δ Writing-Intensive course.

EXERCISE SCIENCE

EXS 297a — **1 hour**
Clinical Instruction 1 in Athletic Training

Every Fall. A course designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in education acquired in EXS 314. Prerequisite: EXS 314.

EXS 314 — **3 hours**
Care and Prevention of Athletic Injuries

Every Fall. 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. Two-and-one-half hours lecture, one-half hour lab.

EXS 324 — **3 hours**
Recognition and Evaluation of Athletic Injuries

Every Spring. 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, BIO 201.

EXS 335Δ — **3 hours**
Kinesiology

Every Spring. 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. Two-and-one-half hours lecture, one-half hour lab. A Writing-Intensive course. Prerequisites: HLT 253, or BIO 201. Recommended: PHY 101 or PHY 111 (may be taken concurrently).

EXS 340 — **3 hours**
Physiology of Exercise

Every Fall. 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 hours lecture, one-half hour lab. Prerequisites: HLT 253, or BIO 201 and BIO 202.

EXS 383 — **3 hours**
Measurement in Physical Education

Every Spring. 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 hours of Professional Activities.

EXS 399 — **1 - 4 hours**
Practicum

On demand. See page 25.

EXS 414Δ — **3 hours**
Advanced Athletic Training

Every Spring. 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, EXS 496, EXS 497a.

EXS 424 — **3 hours**
Athletic Training Administration

Every Fall. 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 — **3 hours**
Theory of Prescribing Exercise

Every Fall. 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.

EXS 426L — **1 hour**
Theory of Prescribing Exercise: Laboratory

Every Fall. Practical application of exercise prescription and rehabilitation. Designed to complement and support principles being taught in EXS 426 lecture. Concurrent enrollment in EXS 426 lecture. Prerequisites: BIO 201 and EXS 340.

EXS 496 — **2 - 3 hours**
Special Topics in Sports Medicine

Every Fall. Examination of current issues, topics, and trends in the field of exercise science. Current theories and practices regarding diet, ergogenic aids, orthopedics, mechanics, therapy, motor control, and injury prevention methods will be discussed. Must be taken twice by athletic training students. Prerequisites: BIO 201 and BIO 202.

EXS 496a — **2 hours**
Therapeutic Modalities

Every Fall. 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 laboratory experience. Prerequisites: BIO 201 and EXS 314.

EXS 496b — **2 hours**
Pharmacology and Neurology

Every Spring. Examination of current theories and practices, in the areas of pharmacology and neurology as they apply to the field of athletic training. Prerequisites: BIO 201 and BIO 202.

EXS 497 — **1 - 5 hours**
Clinical I

A course designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge acquired in Care and Prevention of Athletic Injuries and First Aid and Safety. The student will be assigned to an "Approved Clinical Instructor" (ACI) whom 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 314, HLT 270 and instructor's approval.

EXS 497a **1 - 5 hours**
Clinical II

A course 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) whom 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 497 and instructor's approval.

EXS 497b **1 - 5 hours**
Clinical III

A course designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge acquired in the prerequiste classes. The student will be assigned to an "Approved Clinical Instructor" (ACI) whom 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 497a and instructor's approval.

EXS 497c **1 - 5 hours**
Clinical IV

A course designed to provide a clinical setting in which the athletic training student can clinically apply and show proficiency in the knowledge acquired in the prerequiste classes. The student will be assigned to an "Approved Clinical Instructor" (ACI) whom 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 497b and instructor's approval.

EXS 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

HEALTH EDUCATION

HLT 200 **3 hours**
Personal Health

Every Fall. A study of personal health concepts with emphasis on the importance of good health in the attainment of life's goals and aspirations.

HLT 253 **3 hours**
Anatomy and Physiology

Every Fall. A study of the basic structures and functions of the various systems of the human organism. Provides accurate, current information concerning the human body. The course is designed for students pursuing careers in health and physical education who have minimal background in the physical and biological sciences.

HLT 270 **3 hours**
First Aid and Safety

Every Fall. 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 382 **3 hours**
Principles of Public Health

Every Spring. 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. Prerequisite: HLT 200.

HLT 383 **3 hours**
Drug Abuse Seminar

Every semester. Also SOC 383 and BIO 383. 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 423 **3 hours**
Health Administration

Every Fall and Summer. Also REC 423 and PED 423. 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. Prerequisite: HLT 200 or instructor's approval.

HLT 480 **3 hours**
Methods of Teaching Health

Every Fall. 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. Prerequisite: HLT 200.

HLT 497 **1 - 5 hours**
Internship in Health Education

On demand. 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. See Department Chair for specific information. Prerequisite: Instructor's approval.

HLT 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

PHYSICAL EDUCATION

PED 103 **1 hour**
Varsity Athletics

Every Fall. 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 **1 hour**
Varsity Athletics

Every Spring. For athletes who compete on varsity intercollegiate athletic teams at Grand Canyon University. Each athlete may receive credit for this course once only.

PED 121 **1 hour**
Individual Sports

PED 121A Weightlifting and Fitness
PED 121B Tennis
PED 121C Swimming
PED 121D Golf
PED 121E Badminton
PED 121F Aerobics
PED 121G Horsemanship

Every semester. Instruction and practice in the skills and strategies of the sport. Activity selection is based on facility availability, instructor preference, and student input.

PED 131 **1 hour**
Team Sports

PED 131A Basketball
PED 131B Volleyball
PED 131C Softball
PED 131D Flag Football
PED 131E Soccer

Every semester. 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 **2 hours**
Lifetime Wellness

Every semester. 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. Required of all majors and minors.

PED 240 **3 hours**
Introduction to Physical Education

Every semester. Also REC 203. A study of the goals and objectives of physical education, its history, and its current role. The course provides an overview of the various sub-disciplines and professions within the field. Required of all majors and minors.

PED 246Δ **3 hours**
Instructional Strategies in Physical Education

Every semester. 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.

PED 252 **2 hours**
Teaching of Team Sports I

Every Fall. 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 hours per week. Prerequisite: PED 246 (may be taken concurrently).

PED 262 **2 hours**
Teaching of Team Sports II

Every Spring. 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 hours per week. Prerequisite: PED 246 (may be taken concurrently).

PED 282 **2 hours**
Teaching of Individual Sports I

Every Fall. 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 hours per week. Prerequisite: PED 246 (may be taken concurrently).

PED 292 **2 hours**
Teaching of Individual Sports II

Every Spring. Practical skills in the activities of fitness, rhythms, and aerobics are covered in this course for majors and minors. Includes lesson planning, teaching techniques, evaluation, and proficiency in skills. Three hours per week. Prerequisites: PED 195 and PED 246 (may be taken concurrently).

PED 307 **3 hours**
Sports Broadcasting

Every Summer. A course designed to teach students the basic components of a sports-related radio or television broadcast. Topics include broadcast setup, preparation of written materials for use in the broadcast, play-by-play announcing, color commentary, delivery, and interviewing.

PED 323 **3 hours**
Athletic Coaching: Baseball

Every Fall. A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy of baseball.

PED 333 **3 hours**
Athletic Coaching: Basketball

Every Spring. A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy in basketball.

PED 334 **3 hours**
Athletic Coaching: Volleyball and Softball

Every Summer. 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 343 **3 hours**
Sports Officiating

Every Fall. A study of the rules and mechanics of officiating football, basketball, and baseball.

PED 363 **3 hours**
Physical Education for the Exceptional Child

Every Spring. 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 383 **3 hours**
Measurement in Physical Education

Every Spring. A study of tests and measurements in physical education. This course covers data analysis techniques for test evaluation, test construction, and grading; it also deals with tests of fitness and sports skills. Prerequisites: PED 246, four hours of Professional Activities, and MAT 121 or higher.

PED 399 **1 - 4 hours**
Practicum

On demand. See page 25.

PED 403 **3 hours**
Physical Education for the Elementary Grades

Every Spring. 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: PED 383 and four hours of Professional Activities.

PED 413 **3 hours**
Physical Education for the Secondary School

Every Fall. 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 hours of Professional Activities.

PED 423 **3 hours**
Organization and Administration of Physical Education and Athletics

Every Fall and Summer. Also HLT 423 and REC 423. 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 **3 hours**
Theory of Coaching

Every Fall. 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 496 **2 hours**
Special Topics in Physical Education

On demand. An examination of current issues, topics, and trends in the field of physical education. See Department Chair for specific information. Prerequisites: PED 246 and instructor's approval.

PED 497 **3 hours**
Internship in Physical Education

On demand. 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. See Department Chair for specific information. Prerequisite: Instructor's approval.

PED 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

RECREATION

REC 203 **3 hours**
Introduction to Recreation

Every semester. Also PED 240. A course designed to introduce the student to the philosophy and early development of recreation in America. It also examines the role and status of the varied agencies engaged in recreation programs.

REC 213 **3 hours**
Recreational Leadership

Every Fall. Designed to acquaint the student with the current trends and practices in professional recreation leadership development. Students will

examine leadership concepts, group dynamics, management, and problem-solving as related to recreation. Special event planning and operation of sports leagues will be explored. Prerequisite: REC 203.

REC 215 **3 hours**
Recreational Programming

Every Spring. Games, contests, crafts, music, drama, social recreation for home and school, and community leisure time will be discussed. Students will gain experience in teaching activities and event planning.

REC 313 **3 hours**
Outdoor Recreation

Every Summer. 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 **3 hours**
Recreation Administration and Supervision

Every Fall and Summer. Also HLT 423 and PED 423. 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 203 and REC 213 or instructor's approval.

REC 424 **3 hours**
Recreation Facility Management

Spring 2003, and alternate years. 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 425Δ **3 hours**
Recreation for Special Populations

Every Fall. A course designed to develop methods and techniques of leading therapeutic recreation activities in institutions. A Writing-Intensive course. Prerequisites: REC 203 and REC 213 or REC 215.

REC 497 **2 - 5 hours**
Internship in Recreation

Every semester. The student is assigned to an approved recreational facility to serve as a leader or assistant leader under the supervision of a recreation employee for a specified number of hours. Periodic conferences and evaluations are scheduled with the supervising teacher. Prerequisite: REC 423.

Department of Physical Sciences

DEPARTMENT DESCRIPTION

The Department of Physical Sciences provides curricula for students wishing to major in biochemistry, chemistry, physical science, physics for secondary teachers, chemistry for secondary teachers, and science for elementary teachers. These majors are designed to prepare students for graduate school, medical, veterinary, or dental school, engineering, technician careers in industry, government or business, or employment in high school or elementary school science teaching. Minors are offered in chemistry, biophysical science, physics, and science teaching. Students with advanced placement credit from high school physics or chemistry courses are encouraged to apply for departmental credit in General Physics or General Chemistry. See page 12 for specific information.

The diverse backgrounds of the faculty, with expertise in biochemistry, biophysics, material science, meteorology, solid state chemistry, analytical chemistry, catalysis and organometallics, science education, and technology enhanced education, ensure each student a broad exposure to the physical sciences. Each faculty member is committed to serving students, whether in providing service courses in chemistry and physics, leading students in their choice of major, or helping well-qualified students find educational internships or research experiences. The Department of Physical Sciences emphasizes teaching excellence, analytical thinking, practical laboratory experiences, spiritual growth, and social awareness, all within a Christian liberal arts setting.

DEGREE REQUIREMENTS — BIOCHEMISTRY (B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

No minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Biochemistry Major

BIO	181, 181L	General Biology I	4 hours
BIO	182 182L	General Biology II	4 hours
BIO	332	Cell Biology	3 hours
BIO	340 340L	Genetics	4 hours
BIO	360 360L	Physiology	4 hours
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
ΔCHM	301	Science Communication I	2 hours
ΔCHM	302	Science Communication II	2 hours
CHM	314, 314L	Analytical Chemistry	5 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CHM	---	Upper Division Chemistry Elective (excluding CHM 360, CHEM 396, CHM 480 and recitation classes)	4 hours
CHM	461	Biochemistry I	3 hours
CHM	462	Biochemistry II	3 hours
CHM	463	Biochemistry Laboratory	1 hour
CIS	180	Comp. Information Systems Modules	3 hours
MAT	213	Statistics	3 hours
PHY	111, 111L	General Physics I	4 hours
PHY	112, 112L	General Physics II	4 hours
		Total Major Hours	**69 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — CHEMISTRY (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Chemistry Major

CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
ΔCHM	301	Science Communication I	2 hours
ΔCHM	302	Science Communication II	2 hours
CHM	314, 314L	Analytical Chemistry	5 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CHM	441, 441L	Physical Chemistry I	4 hours
CHM	442, 442L	Physical Chemistry II	4 hours
CHM	---	Upper Division Chemistry Electives (excluding CHM 396, CHM 480, and recitation classes)	7 hours
CIS	180	Comp. Info. Systems Modules	3 hours
MAT	270	Analytical Geometry and Calc. I	4 hours
MAT	271	Analytical Geometry and Calc. II	4 hours
MAT	272	Analytical Geometry and Calc. III	4 hours
PHY	115, 115L	University Physics I	4 hours
PHY	116, 116L	University Physics II	4 hours
		Total Major Hours	**63 hours**

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — CHEMISTRY FOR SECONDARY TEACHERS* (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for College of Education Secondary Education Programs (see page 65).

Secondary Education major required.

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Chemistry for Secondary Teachers Major

** BIO	100, 100L	Biology Concepts	4 hours
** BIO	105, 105L	Environmental Biology	4 hours
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
ΔCHM	301	Science Communication I	2 hours
ΔCHM	302	Science Communication II	2 hours
CHM	314, 314L	Analytical Chemistry	5 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CHM	480	Methods of Teaching Science in the Secondary Schools	3 hours
CHM	---	Upper Division Chemistry Electives (excluding CHM 396 and recitation classes)	4 hours
CIS	180	Comp. Info. Systems Modules	3 hours
PHY	101, 101L	Introduction to Physical Science	4 hours
		Total Major Hours	**47 hours**

* Please refer to the College of Education for certification and minor requirements.

** BIO 181 and BIO 182 are required for biology minors.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — PHYSICAL SCIENCE (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science (see pages 117-118).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Physical Science Major

CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
ΔCHM	301	Science Communication I	2 hours
ΔCHM	302	Science Communication II	2 hours
CHM	314, 314L	Analytical Chemistry	5 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CIS	180	Comp. Info. Systems Modules	3 hours
ENG	313	Business and Technical Writing	3 hours
GLG	101, 101L	General Geology	4 hours
* MAT	121	College Algebra	3 hours
* MAT	122	College Trigonometry	2 hours
PHY	107, 107L	Astronomy	4 hours
PHY	111, 111L	General Physics I	4 hours
PHY	112, 112L	General Physics II	4 hours
PHY/CHM	---	Upper Division Electives from Physics/Chemistry (excluding PHY/CHM 480, and PHY/CHM 396)	8 hours
PSY	363	Intro. to Probability and Statistics	3 hours
		Total Major Hours	**63 hours**

* May substitute MAT 270 Analytical Geometry and Calculus I for MAT 121 and MAT 122.

Δ Writing-Intensive course.

DEGREE REQUIREMENTS — PHYSICS FOR SECONDARY TEACHERS* (B.S. DEGREE; No Minor Required)

University Liberal Arts Foundation for College of Education Secondary Education Program (see page 65).

Secondary Education major required.

No minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Physics for Secondary Teachers Major

CIS	180	Comp. Info. Systems Modules	3 hours
MAT	270	Analytical Geometry and Calculus I	4 hours
MAT	271	Analytical Geometry and Calculus II	4 hours
MAT	272	Analytical Geometry and Calc. III	4 hours
PHY	101, 101L	Introduction to Physical Science	4 hours
PHY	101R	Introduction to Physical Science Recitation	1 hour
PHY	107, 107L	Astronomy	4 hours
PHY	115, 115L	University Physics I	4 hours
PHY	115R	University Physics I Recitation	1 hour
PHY	116, 116L	University Physics II	4 hours
PHY	116R	University Physics II Recitation	1 hour
ΔPHY	301	Science Communication I	2 hours
ΔPHY	302	Science Communication II	2 hours
PHY	311	Engineering Mechanics: Statics	3 hours
PHY	312	Engineering Mechanics: Dynamics	3 hours
PHY	361	Introduction to Modern Physics	3 hours
PHY	480	Methods of Teaching Science in the Secondary School	3 hours
PHY/CHM/MAT	---	Upper Division Electives from Physics, Chemistry and Mathematics	10 hours
		Total Major Hours	**60 hours**

* Please refer to the College of Education for secondary certification and minor requirements.

Δ Writing-Intensive course.

Any student wishing to minor in mathematics may, with College of Science approval, use the 12 hours of analytical geometry and calculus from the Physics for Secondary Teachers major as part of their minor. They can then be certified with a minor in mathematics (12 calculus + eight upper division mathematics hours) for a total of 136 hours.

Similarly, any student wishing to major in physics for secondary teachers and minor in chemistry may, with College of Science approval, use up to eight hours of upper division chemistry electives from the Physics for Secondary Teachers major as part of their minor. They can then be certified with a minor in chemistry for a total of 140 hours.

DEGREE REQUIREMENTS — SCIENCE FOR ELEMENTARY TEACHERS* (B.S. DEGREE; No Minor Required)

The teaching major or minor in science is designed to give prospective teachers a broad introduction to science rather than specialization in one field. It is particularly useful for teachers in grades 4 - 8 who will be teaching both life and physical sciences.

University Liberal Arts Foundation for College of Education Elementary Teacher Education Programs (see pages 64).

Elementary Education major required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Science for Elementary Teachers Major

BIO	105, 105L	Environmental Biology	4 hours
BIO	181, 181L	General Biology I	4 hours
BIO	182, 182L	General Biology II	4 hours
CHM	101, 101L	Introduction to Chemistry	4 hours
CHM	260, 260L	Introduction to Organic and Biochemistry	4 hours
CIS	180	Comp. Info. Systems Modules	3 hours
GLG	101, 101L	Introduction to Geology	4 hours
PHY	101, 101L	Introduction to Physical Science	4 hours
PHY	107, 107L	Astronomy	4 hours
ΔCHM/PHY	301	Science Communication I	2 hours
ΔCHM/PHY	302	Science Communication II	2 hours
		Total Major Hours	**39 hours**

* Please refer to the College of Education for certification requirements.

Δ Writing-Intensive course.

MINOR REQUIREMENTS — CHEMISTRY*

CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
CHM	331, 331L	Organic Chemistry I	4 hours
CHM	332, 332L	Organic Chemistry II	4 hours
CHM	--- ---	Upper Division Chemistry Electives (excluding CHM 396, 480, and recitation classes)	4 hours
		Total Minor Hours	**20 hours**

* Students desiring teaching certification should take 24 hours for a minor. Please refer to the College of Education for certification requirements.

MINOR REQUIREMENTS — PHYSICS*

** PHY	115, 115L	University Physics I	4 hours
PHY	116, 116L	University Physics II	4 hours
PHY	361	Introduction to Modern Physics	3 hours
+ PHY	---	Physics Electives (excludes recitation classes; six hours must be upper division)	9 hours
		Total Minor Hours	**20 hours**

* Students desiring teaching certification should take 24 hours for a minor. Please refer to the College of Education for certification requirements.

** PHY 115 requires a prerequisite of MAT 271 Calculus.

+ Upper Division Electives may include: CHM 441, CHM 442, PHY 311, PHY 312, PHY 361, or PHY 496.

MINOR REQUIREMENTS — BIOPHYSICAL SCIENCE

BIO	201, 201L	Human Anatomy and Physiology I	4 hours
BIO	202, 202L	Human Anatomy and Physiology II	4 hours
BIO	---	Upper Division Biology Elective	4 hours
ΔEXS	335	Kinesiology	3 hours
PHY/CHM	---	Upper Division Physics/Chemistry Electives (excluding PHY/CHM 396, PHY/CHM 480)	6 hours
		Total Minor Hours	**21 hours**

Δ Writing-Intensive course.

MINOR REQUIREMENTS — SCIENCE TEACHING*

BIO	181, 181L	General Biology I	4 hours
BIO	182, 182L	General Biology II	4 hours
CHM	101, 101L	Introduction to Chemistry	4 hours
PHY	101, 101L	Intro. to Physical Science (4) **OR**	
PHY	111, 111L	General Physics (4)	4 hours
BIO/PHY/CHM	---	Electives in Science (six hours must be upper division)	8 hours
		Total Minor Hours	**24 hours**

* Please refer to the College of Education for certification requirements. Elementary certification is required rather than secondary certification.

CHEMISTRY

CHM 101 — **3 hours**
Introduction to Chemistry

Every semester. 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. Three hours lecture. Prerequisites: Concurrent enrollment in CHM 101L and CHM 101R.

CHM 101L — **1 hour**
Introduction to Chemistry: Laboratory

Every semester. A laboratory course designed to complement and support the principles being learned in Chemistry 101 lecture. Prerequisites: Concurrent enrollment in CHM 101 lecture and CHM 101R.

CHM 101R — **1 hour**
Introduction to Chemistry: Recitation

Every semester. Problem solving techniques as assistance for students taking Introduction to Chemistry (CHM 101).One hour recitation. Prerequisites: Concurrent enrollment in CHM 101 lecture and CHM 101L.

CHM 113 — **3 hours**
General Chemistry I

Every semester. 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. Three hours lecture. Prerequisites: MAT 121 or equivalent and concurrent enrollment in CHM 113L and CHM 113R.

CHM 113L — **1 hour**
General Chemistry I: Laboratory

Every semester. A laboratory course designed to complement and support the principles being learned in CHM 113 lecture. Prerequisites: MAT 121 or equivalent and concurrent enrollment in CHM 113 lecture and CHM 113R.

CHM 113R — **1 hour**
General Chemistry I: Recitation

Every semester. Problem solving techniques as assistance for students taking General Chemistry I. One hour recitation. Prerequisites: Concurrent enrollment in CHM 113 lecture and CHM 113L.

CHM 115 — **3 hours**
General Chemistry II

Every semester. Continuation of CHM 113. Topics include thermodynamics, kinetics, descriptive chemistry, analytical chemistry, electrochemistry, and nuclear chemistry. Three hours lecture. Prerequisites: Concurrent enrollment in CHM 115L and CHM 115R.

CHM 115L — **1 hour**
General Chemistry II: Laboratory

Every semester. A laboratory course designed to complement and support the principles learned in CHM 115 lecture. Prerequisites: Concurrent enrollment in CHM 115 lecture and CHM 115R.

CHM 115R — **1 hour**
General Chemistry II: Recitation

Every semester. Problem solving techniques as assistance for students taking General Chemistry II. One hour recitation. Prerequisites: Concurrent enrollment in CHM 115 lecture and CHM 115L.

CHM 260 **3 hours**
Introduction to Organic and Biochemistry

Every Fall. Survey of organic and biological chemistry with emphasis on identification of structures of essential biological compounds, and the control of pathways of metabolism. Prerequisites: CHM 101 and concurrent enrollment in CHM 260L and CHM 260R.

CHM 260L **1 hour**
Introduction to Organic and Biochemistry: Laboratory

Every Fall. A laboratory course designed to complement and support the principles being learned in CHM 260 lecture. Prerequisites: Concurrent enrollment in CHM 260 lecture and CHM 260R.

CHM 260R **1 hour**
Introduction to Organic and Biochemistry: Recitation

Every Fall. A recitation course designed to complement and support the principles being learned in CHM 260 lecture. One hour recitation. Prerequisites: Concurrent enrollment in CHM 260 lecture and CHM 260L.

CHM 296 **1 - 3 hours**
Special Topics in Chemistry

On demand. To include topics at the introductory level.

CHM 301Δ **2 hours**
Science Communication I

Every semester. Also BIO 301 and PHY 301. Study of how to gather, analyze, and communicate scientific information. Topics covered include various types of written communication, publishing research results, and oral presentation techniques. A Writing-Intensive course. Prerequisites: CHM 113 and CHM 115.

CHM 302Δ **2 hours**
Science Communication II

Every semester. Also BIO 302 and PHY 302. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. A Writing-Intensive course. Prerequisites: CHM 301 and junior or senior status.

CHM 314 **3 hours**
Analytical Chemistry

Every Fall. A survey of methods of chemical analysis based on reactions, physical properties, kinetics, and equilibrium using both chemical and instrumental techniques. Three hour lecture. Prerequisites: CHM 115 and concurrent enrollment in CHM 314L.

CHM 314L **2 hours**
Analytical Chemistry: Laboratory

Every Fall. Laboratory emphasis on developing skills and technique, data analysis, and effective communication of experimental results. Both instrumental and wet chemical techniques are explored. Prerequisite: Concurrent enrollment in CHM 314 lecture.

CHM 331 **3 hours**
Organic Chemistry I

Every Fall and Summer on demand. A systematic study of chemistry of carbon compounds. Topics include nomenclature, structure, synthesis, reactions, and analysis of aliphatic and aromatic compounds. Prerequisite: CHM 115 and concurrent enrollment in CHM 331L and CHM 331R.

CHM 331L **1 hour**
Organic Chemistry I: Laboratory

Every Fall and Summer on demand. Synthesis of compounds as discussed in the lecture and isolation and purification of natural products are included. Laboratory exercises involving separation, purification, and characterization of organic compounds. Prerequisites: Concurrent enrollment in CHM 331 lecture and CHM 331R.

CHM 331R **1 hour**
Organic Chemistry I: Recitation

Every Fall. Problem solving techniques as assistance for students taking CHM331 lecture. One hour recitation. Prerequisites: Concurrent enrollment in CHM 331 lecture and CHM 331L.

CHM 332 **3 hours**
Organic Chemistry II

Every Spring and Summer on demand. Continuation of CHM 331. Topics include reaction mechanisms, kinetics, approaches to chemical synthesis, and qualitative analysis of organic compounds. Three hours lecture. Prerequisites: CHM 331 and concurrent enrollment in CHM 332L and CHM 332R.

CHM 332L **1 hour**
Organic Chemistry I: Laboratory

Every Spring and Summer on demand. Continuation of CHM 331L involving more complicated synthesis and instrumental techniques. Prerequisites: Concurrent enrollment in CHM 332 lecture and CHM 332R.

CHM 332R **1 hour**
Organic Chemistry II: Recitation

Every Spring. Problem solving techniques as assistance for students taking CHM 332 lecture. One hour recitation. Prerequisites: Concurrent enrollment in CHM 332 lecture and CHM 332L.

CHM 360 **3 hours**
Principles of Biochemistry

Every Spring. Survey of the molecules essential to life, including proteins, carbohydrates, lipids, and nucleic acids. The relationship between chemical structures and biological function is emphasized. Three hours lecture. Prerequisites: CHM 331 or CHM 332, and concurrent enrollment in CHM 360L and CHM 360R.

CHM 360L **1 hour**
Principles of Biochemistry: Laboratory

Every Spring. Laboratory course designed to augment CHM 360 lecture topics. Practical experience in technique, data collection, and analysis related to biological molecules. Prerequisite: Concurrent enrollment in CHM 360 lecture and CHM 360R.

CHM 360R **1 hour**
Principles of Biochemistry: Recitation

Every Spring. A recitation course designed to complement and support the principles being learned in the CHM 360 lecture. One hour recitation. Prerequisites: Concurrent enrollment in CHM 360 lecture and CHM 360L.

CHM 399 **1 - 4 hours**
Practicum

On demand. See page 25.

CHM 441 **3 hours**
Physical Chemistry I

Fall 2003, and alternate years. A study of the physical and chemical behavior of substances at the macroscopic and molecular levels. Topics include behavior of single substances and mixtures, thermodynamics, chemical reactions, and equilibria. Three hours lecture. Prerequisites: CHM 115, MAT 271, and concurrent enrollment in CHM 441L.

CHM 441L **1 hour**
Physical Chemistry: Laboratory

Fall 2003, and alternate years. A laboratory and computer modeling course designed to complement and support the principles being learned in CHM 441 lecture. Three hour lab. Prerequisites: CHM 115, MAT 271, and concurrent enrollment in CHM 441 lecture.

CHM 442 **3 hours**
Physical Chemistry II

Spring 2004, and alternate years. Continuation of CHM 441. Topics include chemical kinetics, spectroscopy, atomic and molecular structure. Three hours lecture. Prerequisites: CHM 441, MAT 272 (may be taken concurrently), and concurrent enrollment in CHM 442L.

CHM 442L **1 hour**
Physical Chemistry II: Laboratory

Spring 2004, and alternate years. A lab and computer modeling course designed to complement and support the principles being learned in CHM 442 lecture. Three hour lab. Prerequisites: CHM 441, MAT 272 (may be taken concurrently), and concurrent enrollment in CHM 442 lecture.

CHM 450 **3 hours**
Advanced Inorganic Chemistry

On demand. This course is designed to add depth and scope in the area of inorganic chemistry. Concepts such as group theory and inorganic reaction mechanisms will be introduced. Particular emphasis will be placed on current topics including bioinorganic chemistry and solid state materials. Expanded discussions include molecular orbital diagrams of coordination complexes, non-aqueous acid-base chemistry, and the use of Latimer diagrams to describe oxidation-reduction reactions. Three hours lecture. Prerequisite: CHM 332.

CHM 461 **3 hours**
Biochemistry I

Fall 2004, and alternate years. Study of the chemical basis for biological functions in living organisms. Topics include structure and function of proteins, carbohydrates, lipids, and nucleic acids. Three hours lecture. Prerequisites: CHM 332 and concurrent enrollment in CHM 463.

CHM 462 **3 hours**
Biochemistry II

Spring 2005, and alternate years. Continuation of CHM 461. Topics covered include molecular mechanism of genetics, biological energy production, and regulation of cell growth. Three hours lecture. Prerequisites: CHM 461 and enrollment in CHM 463 (either semester).

CHM 463 **1 hour**
Biochemistry: Laboratory

Fall 2004, Spring 2005. Practical introduction to lab techniques used in preparation and analysis, functional studies of proteins, carbohydrates, lipids, and nucleic acids. Three hours lab. Prerequisite: Concurrent enrollment in either CHM 461 or CHM 462.

CHM 480 **3 hours**
Methods of Teaching Chemistry in the Secondary School

On demand. Methods of instruction, organization, and presentation of content in chemistry to secondary school students. Topics include curriculum, stockroom organization, laboratory safety and liability, visual aid preparation, computer use in the chemistry classroom, and research issues in chemistry education. Two hours lecture, three hours lab. May not be applied to chemistry major. Prerequisite: CHM 115.

CHM 496 **3 hours**
Advanced Topics in Chemistry

On demand. Study of chemical topics beyond the introductory level. Course topics may include polymers, computational chemistry, chemical synthesis, or spectroscopy. May be repeated for credit. Prerequisite: Instructor's approval.

CHM 497 **1 - 4 hours**
Internship

On demand. 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. See Department Chair for specific information. Prerequisite: Instructor's approval.

CHM 498 **1 - 6 hours**
Research in Chemistry

On demand. A detailed study of one or more chemical problems. May be repeated for up to nine hours of credit. Prerequisite: Instructor's approval.

CHM 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

ENGINEERING

EGN 100 **4 hours**
Introduction to Engineering

On demand. An introduction to engineering design, computer analysis, group problem solving, and useful software packages. Modeling, optimization, and graphic documentation will also be examined. Two hours lecture, one hour recitation.

EGN 211 **3 hours**
Engineering Mechanics I: Statics

On demand. Statics involves the study of forced systems, resultants, equilibrium, distributed forces, area moments, internal stresses, and friction. Prerequisites: MAT 272 and PHY 116.

EGN 212 **3 hours**
Engineering Mechanics II: Dynamics

On demand. Dynamics involves the study of the kinematics of particles, translating, and rotating coordinate systems, rigid body kinematics, and energy/momentum principles. Prerequisite: EGN 211.

GEOLOGY

GLG 101 **3 hours**
General Geology

Every Spring. 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. Three hours lecture. Prerequisite: concurrent enrollment in GLG 101L.

GLG 101L **1 hour**
General Geology: Laboratory

Every Spring. A lab course designed to complement the topics covered in the geology lecture. Three hours lab. Prerequisite: Concurrent enrollment in GLG 101 lecture.

PHYSICS

PHY 101 **3 hours**
Introduction to Physical Science

Every semester and Summer on demand. A survey of physical science emphasizing applications of physical science to modern life. Three hours lecture. Prerequisites: Concurrent enrollment in PHY 101L and PHY 101R.

PHY 101L **1 hour**
Introduction to Physical Science: Laboratory

Every semester and Summer on demand. A laboratory course designed to complement the physical principles covered in the PHY 101 lecture. Prerequisites: Concurrent enrollment in PHY 101 lecture and PHY 101R.

PHY 101R **1 hour**
Introduction to Physical Science: Recitation

Every semester. Problem-solving techniques as preparation for general physics or to enhance understanding for education majors. May be taken to replace the lab for pre-allied health majors. One hour recitation. Prerequisites: Concurrent enrollment in PHY 101 lecture and PHY 101L.

PHY 107 **3 hours**
Astronomy

Every Fall. 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. Three hours lecture. Prerequisite: Concurrent enrollment in PHY 107L.

PHY 107L **1 hour**
Astronomy: Laboratory

Every Fall. A laboratory course designed to complement the topics covered in the PHY 107 lecture. Three hours lab. Prerequisite: Concurrent enrollment in PHY 107 lecture.

PHY 111 **3 hours**
General Physics I

Every semester and Summer on demand. 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. Three hours lecture. Prerequisites: PHY 101 and MAT 121, or instructor's approval, and concurrent enrollment in PHY 111L and PHY 111R. MAT 122 highly recommended.

PHY 111L **1 hour**
General Physics I: Laboratory

Every semester and Summer on demand. Laboratory experiments demonstrating the physical principles in the PHY 111 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 111 lecture and PHY 111R.

PHY 111R **1 hour**
General Physics I: Recitation

Every semester. Designed to help students in problem-solving techniques for the PHY 111 lecture. One hour recitation. Prerequisites: Concurrent enrollment in PHY 111 lecture and PHY 111L.

PHY 112 **3 hours**
General Physics II

Every semester and Summer on demand. Continuation of PHY 111. Topics covered include wave motion, electrostatics, optics, and magnetism. Three hours lecture. Prerequisites: PHY 111 and concurrent enrollment in PHY 112L and PHY 112R.

PHY 112L **1 hour**
General Physics II: Laboratory

Every semester and Summer on demand. Laboratory experiments demonstrating the physical principles in the PHY 112 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 112 lecture and PHY 112R.

PHY 112R **1 hour**
General Physics II: Recitation

Every semester. Designed to help students with problem solving techniques for the PHY 112 lecture. One hour recitation. Prerequisites: Concurrent enrollment in PHY 112 lecture and PHY 112L.

PHY 115 **3 hours**
University Physics I

Every Fall. Rigorous treatment of physical principles and concepts using mathematical descriptions based on calculus. Topics covered include mechanics, thermodynamics, and wave motion. Three hours lecture. Prerequisites: MAT 271 and concurrent enrollment in PHY115L and PHY 115R.

PHY 115L **1 hour**
University Physics I: Laboratory

Every Fall. Laboratory experiments demonstrating the physical principles in the PHY 115 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 115 lecture and PHY 115R.

PHY 115R **1 hour**
University Physics I: Recitation

Every Fall. Designed to help students with problem solving techniques for the PHY 115 lecture. One hour recitation. Prerequisites: Concurrent enrollment in PHY 115 lecture and PHY 115L.

PHY 116 **3 hours**
University Physics II

Every Spring. Continuation of PHY 115. Topics covered include electromagnetism, optics, and quantum theory. Three hours lecture. Prerequisites: PHY 115 and concurrent enrollment in PHY 116L and PHY 116R.

PHY 116L **1 hour**
University Physics II: Laboratory

Every Spring. Laboratory experiments demonstrating the physical principles in the PHY 116 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 116 lecture and PHY 116R.

PHY 116R **1 hour**
University Physics II: Recitation

Every Spring. Designed to help students with problem solving techniques for the PHY 116 lecture. One hour recitation. Prerequisites: Concurrent enrollment in PHY 116 lecture and PHY 116L.

PHY 296 **1 - 3 hours**
Special Topics in Physics

On demand. May include mechanics for engineers, a new course designed to meet the engineering core requirements at Arizona State University. Also, non-calculus-based electricity or electronics.

PHY 301Δ **2 hours**
Science Communication I

Every semester. Also BIO 301 and CHM 301. Study of how to gather, analyze, and communicate scientific information. Topics include various forms of written communication, publishing research results, and oral presentation techniques. A Writing-Intensive course. Prerequisite: PHY 111 and PHY 112.

PHY 302Δ **2 hours**
Science Communication II

Every semester. Also BIO 302 and CHM 302. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. A Writing-Intensive course. Prerequisite: PHY 301 and junior or senior status.

PHY 311 **3 hours**
Engineering Mechanics I: Statics

On demand. Also EGN 211. Statics involves the study of forced systems, resultants, equilibrium, distributed forces, area moments, internal stresses, and friction. Prerequisites: MAT 272 and PHY 116.

PHY 312 **3 hours**
Engineering Mechanics II: Dynamics

On demand. Also EGN 312. Dynamics involves the study of the kinematics of particles, translating and rotating coordinate systems, rigid body kinematics, and energy/momentum principles. Prerequisite: PHY 311.

PHY 361 **3 hours**
Introduction to Modern Physics

Fall 2004, and alternate years. Special relativity and introductory quantum theory with applications drawn from atomic, condensed matter, nuclear, and high energy physics. Prerequisite: PHY 116 or instructor's approval.

PHY 480 **3 hours**
Methods of Teaching Science in the Secondary School

Every semester. A study of methods of instruction, organization, and presentation of content in teaching science. Two hours lecture, two hours lab. Prerequisite: PHY 112.

PHY 496 **1 - 4 hours**
Advanced Topics in Physics

On demand. Courses such as thermodynamics, material science, electricity and magnetism, biophysics, and electronics will be offered. May be repeated for credit. Prerequisite: Instructor's approval.

PHY 497 **1 - 3 hours**
Internship

On demand. 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. See Department Chair for specific information. Prerequisite: Instructor's approval.

PHY 498 **1 - 6 hours**
Research in Physics

Every semester. A detailed study of one or more physical problems. May be repeated for up to nine hours of credit, three of which may count toward electives in physics. Prerequisite: Instructor's approval.

PHY 499 **1 - 4 hours**
Independent Study

On demand. See page 25.

The Samaritan College of Nursing

MISSION STATEMENT

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

COLLEGE DESCRIPTION

The Samaritan College of Nursing provides an exciting opportunity at Grand Canyon University, working closely with the College of Liberal Arts and the College of Science. The Samaritan College of Nursing offers both a pre-licensure track and a degree completion track for nurses already licensed as registered nurses. The pre-licensure curriculum leads to the degree of Bachelor of Science in Nursing, and 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. Emphasis is placed on both a strong academic foundation and nursing practice. The college offers an accelerated BSN path that allows second degree students or students with senior standing (90+ credit hours) who have fulfilled all prerequisites to complete a degree in one and one half years. In addition to the traditional baccalaureate nursing program, the Samaritan College of Nursing offers a track for registered nurses wanting to complete their bachelor's degree. The RN-BSN degree completion is offered over a 57-week time frame in which the student attends class one night per week.

SAMARITAN COLLEGE OF NURSING FEATURES

- Faculty members hold a master's or doctoral degree. Faculty-to-student ratios are limited to 1:10 in the clinical setting, though they are often lower than this.

- Students begin their supervised clinical experiences during the first semester of the nursing curriculum. During the last two years of study, students spend up to 18 hours per week in an assigned clinical practice area learning to apply theory in direct patient care situations.

- 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 Samaritan College of Nursing have an outstanding record of success on the National Council Licensure Examination – R.N.

- 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 curriculum. A required ethics course provides an opportunity to develop an ethical approach within Christian framework to one's future professional role.

- Development of a resumé and interview skills are part of the senior studies. Historically, most seniors have found employment prior to graduation. In today's rapidly changing health care environment, the student will value the opportunity to explore the trends in an individual capstone project.

- Scholarships are available based on a student's previous academic work and need. Financial aid processing and advising are available through the University's Office of Financial Aid. Pre-nursing scholarships are available to high school seniors, and transfer and returning students. An ROTC Partner in Nursing Education (PNE) scholarship program has included the Samaritan College of Nursing program as a site for significant student scholarship support through Army awards. ROTC individual advisement and enrollment are necessary for these scholarship awards.

- The accredited program is approved by the Arizona State Board of Nursing and through the Commission on Collegiate Nursing Education, One Dupont Circle NW Suite 530, Washington DC 20036-1120, 202-887-6791. The College is a member of the American Association of Colleges of Nursing, and is a charter member of the Western Institute of Nursing.

PROCEDURES FOR APPLICATION TO THE PRE-LICENSURE TRACK

Students wishing admission to the pre-licensure track through the Samaritan College of Nursing must first be admitted to the University.

Students admitted to the University as freshmen (< 24 credit hours) are admitted directly into the College. Students must maintain a cumulative GPA of 2.8 and successfully have completed all prerequisite course work in order to progress to the nursing courses. Prerequisite courses may be repeated only once to a grade of C or above (limit 2).

Transfer students are encouraged to apply to the Samaritan College of Nursing during the semester in which all prerequisite course work will be completed and they are ready to begin the nursing courses in the next semester. Students must maintain a cumulative GPA of 2.8 and prerequisite courses may be repeated only once to a grade of C or above (limit 2). Applications for Fall admission are considered the previous Spring semester, applications for Spring admission are reviewed during the previous Fall semester, and applications to the Accelerated BSN path are considered in the Fall and Spring semesters. Acceptance into the College is determined by the Samaritan College of Nursing faculty and availability of clinical spaces. Application packets for the Samaritan

College of Nursing are available through the Nursing Office.

The application process requires:

1. A completed application form,
2. A negative drug screen,
3. Satisfactory completion of nursing prerequisite coursework.

A cumulative GPA of 2.80 is the recommended minimum GPA for admission to the nursing program. Upon admission, students must provide health information: a health history, physical examination and proof of immunity for Measles, Rubella, and Varicella. Admission to Grand Canyon University does not guarantee acceptance into the Samaritan College of Nursing program.

PROCEDURES FOR APPLICATION TO THE RN TO BSN TRACK

Applicants for the RN to BSN track must be licensed as a registered nurse in the State of Arizona, be at least 25 years of age, have a minimum of two years (60 semester hours) of credit from a regionally accredited college or university with a minimum cumulative GPA of 2.8. The transfer work must contain at least six hours of college-level English. Applicants should also possess professional training and life experiences for which equivalent college credit can be awarded.

The application process requires:

1. Submission of an application for admission to Grand Canyon University along with a $50 non-refundable processing fee,
2. Submission of official transcripts from all previous colleges or universities attended,
3. Interview with an academic advisor from the College of Nursing to review transcripts and prepare a degree plan,
4. Submission of completed health history documents, accompanied by verification of proof of immunity for measles, mumps, rubella (MMR), and varicella.

Applicants who have completed work at institutions outside of the United States must have their transcripts evaluated by an approved credentials evaluation service. An additional fee, payable to the credentials evaluation service, is required. Brochures describing in detail the approved evaluation services and the fees incurred are available from the Office of the Admission.

Admission to Grand Canyon University does not guarantee acceptance into the Samaritan College of Nursing RN to BSN track.

Applicants will be notified of their admission status into the university and the college of nursing. Accepted applicants will need to select an available class night and must make arrangements to attend the orientation program, usually held one week prior to the start of courses.

GRADUATION REQUIREMENTS

Faculty and staff are available to advise students and develop a comprehensive degree plan designed to facilitate completion of academic requirements for the Bachelor of Science in Nursing degree. Responsibility for selecting courses and maintaining normal progress toward graduation ultimately rests with the student.

As a graduation requirement, all students must:

1. Successfully complete pre-requisite and co-requisite course work, sequential nursing course work, and all University Liberal Arts Foundation courses.

2. Maintain a 2.50 GPA in required nursing major course work in order to progress and complete the curriculum.

3. Successfully complete four **(three for those students who s ubstitute ENG 103 for ENG 101 and 102)** courses which have been designated as Writing-Intensive. The purpose of the Writing-Intensive courses is two-fold: to introduce students to genres and styles of writing appropriate to their own disciplines; and to give students continued practice in writing standard academic English in structuring, drafting, and revising compositions effectively. Two of these courses must be ENG 101 and 102 (or ENG 103, which replaces both). At least one of the Writing-Intensive courses must be upper division and from the student's major. Only those courses designated as Writing-Intensive in the catalog descriptions will count towards meeting this requirement. While each college designates which courses are Writing-Intensive, the student in one of these classes can expect to produce significant amounts of writing, complete multiple drafts which may be reviewed by peers, and receive a grade for the effectiveness of the written assignments.

Students should contact the Samaritan College of Nursing for more detailed information on progression through the nursing major.

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, Samaritan 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 Samaritan College of Nursing.

UNIVERSITY LIBERAL ARTS FOUNDATION (ULAF) SAMARITAN COLLEGE OF NURSING

The University Liberal Arts Foundation for the Samaritan College of Nursing differs slightly from the University Liberal Arts Foundation found on page 30. Students majoring in Nursing must complete all requirements listed below as part of the ULAF for the Samaritan College of Nursing.

Please note: Prerequisite courses are indicated with a "†" and must be completed prior to the Nursing major requirements.

Note: "Δ" represents a Writing-Intensive course.

I. Christian Perspectives: **6 hours**

Track 1: BIB 113 Old Testament History (3)
AND
BIB 123 New Testament History (3)

Track 2: One of the following courses:
BIB 103 Survey of the Bible (3)
BIB 113 Old Testament History (3)
BIB 123 New Testament History (3)
AND
One of the following courses:
UNV 304 Science and the Christian Faith (3)
UNV 305 The Christian Mind (3)
UNV 306 Foundations of the Christian Faith (3)

II. Communication: **7 hours**

A. English – 6 hours
Δ† ENG 101 Academic Writing (3)
Δ† ENG 102 Research Writing (3)
B. Speech – 2 hours (substituted for nursing majors is: NUR 207 Therapeutic Communication)
† CIS 180 Computer Information Systems Module (1)

III. Heritage: **6 hours**

A. History–3 hours
Any history course with an "HIS" prefix
Recommended courses include:
HIS 103 Early American History (3)
HIS 104 Recent American History (3)
HIS 105 Western Civilization to 1500 (3)
HIS 106 Western Civilization Since 1500 (3)
B. Literary and Philosophical Tradition–3 hours
PHI 329 Biomedical Ethics (3)

IV. Personal and Social Environments **9 hours**

† *PSY 101 General Psychology (3)*
† *PSY 341 Lifespan Development (3)*
† *SOC 101 Introduction to Sociology (3)*

V. Mathematical Inquiry: **6 hours**

† MAT 121 College Algebra (3)
PSY 363 Introduction to Probability and Statistics (3)

VI. Scientific Inquiry:		**22 hours**
† BIO 201	Human Anatomy and Physiology I (With laboratory -4) ***	
† BIO 202	Human Anatomy and Physiology II (With laboratory -4)	
† BIO 204	Applied Nutrition (3)	
† BIO 205	Microbiology (With laboratory -4)	
† BIO 308	Pathophysiology (3)	
† CHM 101	Introduction to Chemistry (With laboratory - 4)	
VII. Fine Arts		**3 hours**
	Any art, music, or theatre course (3)	
	Additional College of Nursing Requirements	
VIII. Fine Arts		**3 hours**
	Elective (3)	
Total University Liberal Arts Foundation Requirement for Samaritan College of Nursing		**62 hours**

** NUR 207 Therapeutic Communication is also a nursing major requirement.

*** Prelicensure students without a recent and strong biology background should register for BIO 181 General Biology prior to registering for BIO 201.

Δ Writing-Intensive course

DEGREE REQUIREMENTS — PRE LICENSURE TRACK (B.S.N. DEGREE; No Minor Required)

University Liberal Arts Foundation Requirements for Samaritan College of Nursing (see page 138).

Prerequisites for the Nursing Major (included in the ULAF for Samaritan College of Nursing (see page 138).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Nursing Major

NUR 206	Introduction to Nursing and Gerontology	6 hours
NUR 207	Therapeutic Communication	2 hours
NUR 309	Health Assessment	4 hours
NUR 303	Introduction to Pharmacology	3 hours
NUR 311	Adult Health Nursing I	6 hours
NUR 312	Adult Health Nursing II	6 hours
NUR 313	Care of the Childbearing Family	6 hours
NUR 314	Family Centered Child Health Nursing	6 hours
Δ NUR 398	Research in Nursing	2 hours
NUR 411	Community Health Nursing	5 hours
NUR 412	Home Health Care Nursing	3 hours
NUR 413	Community Mental Health Nursing	5 hours
NUR 443	Management and Leadership	6 hours
NUR 446	Trends in Nursing	2 hours
NUR 497	Preparation for Licensure	1 hour
Δ NUR 498	Practicum in Nursing	3 hours
	Total Major Hours	**66hours**
	Total Requirements for B.S.N. Graduation	**128 hours**

Δ Writing-Intensive course

DEGREE REQUIREMENTS R.N. — B.S.N TRACK

The format for co-requisite and University Liberal Arts requirements are based on the objectives and requirements of the Samaritan College of Nursing.

Nursing Co-requisites **	38 hours
Remaining University Liberal Arts Requirements	12 hours
RN-BSN Core Requirements	36 hours
Elective Requirements	42 hours
Total	**128 hours**

**Any student entering the RN-BSN program must be a licensed RN in the State of Arizona or must be able to be licensed in Arizona within thirty days of beginning the program.

RN to BSN Track Co-requisites: Bachelor of Science in Nursing

BIO	201	Human Anat. & Physiology with Lab I	4 hours
BIO	202	Human Anat. & Physiology with Lab II	4 hours
BIO	204	Applied Nutrition	3 hours
BIO	205	Microbiology with Lab	4 hours
BIO	308	Pathophysiology	3 hours
CIS	180	Computer Applications	1 hour
CHM	101	Introduction to Chemistry with Lab	4 hours
Δ ENG	101	Academic Writing	3 hours
Δ ENG	102	Research Writing	3 hours
PSY	101	General Psychology	3 hours
PSY	341	Lifespan Development	3 hours
SOC	101	Introduction to Sociology	3 hours
Total Co-requisite Hours			**38 hours**

Remaining University Liberal Arts Requirements

Humanities — 6 hours

Any history course (3)

Any art, music, theater course (3)

*** ADN Nurses are exempt from taking 6 hours of Humanities

Mathematics — 6 hours

PSY	363	Statistics and Probabilities (3)
MAT	121	College Algebra (3)

CORE REQUIREMENTS FOR RN TO BSN TRACK

NRS	429	Family Centered Health Promotion	3 hours
Δ CCS	436	Literary Analysis	3 hours
NRS	430	Professional Dynamics	3 hours
NRS	432	Community Health Systems and Concepts I	3 hours
Δ NRS	433	Research in Nursing	3 hours
NRS	434	Health Assessment	3 hours
NRS	436	Management Concepts and Professional Communication	3 hours
NRS	437	Ethical Decision Making in Health Care	3 hours
NRS	438	Community Health Systems and Concepts II	3 hours
NRS	440	Trends and Issues in Today's Health Care	3 hours
NRS	439	Leadership in Nursing and Health Care	3 hours
NRS	441	Professional Research Project	3 hours
		Total RN-BSN Core Hours	**36 hours**

Δ Writing-Intensive course.

Students will need to complete enough electives to meet the 128 semester hour minimum requirement for graduation. Up to 30 hours of electives may be earned through Prior Learning Credit. Additional hours may be completed at a regionally-accredited institution, earned through credit by examination, or taken through traditional courses at Grand Canyon University (traditional student tuition rates apply). (See "Evaluation of Transfer Credit" for additional information.) Total elective hour requirements are 42 hours for the RN-BSN track.

SAMARITAN COLLEGE OF NURSING COURSE DESCRIPTIONS – PRE-LICENSURE TRACK

NUR 103 **1 hour**

Discovering Professional Nursing

Every semester. Discovering Professional Nursing is a dynamic course which provides a stimulating overview of the professional nursing career. The focus is nursing roles in health care past, present, and future, and includes an opportunity for increased knowledge of the profession. Open to non-nursing majors.

NUR 206 **6 hours**

Introduction to Nursing and Gerontology

Every semester. Introduction to Nursing and Gerontology 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 Samaritan College of Nursing.

NUR 207 **2 hours**
Therapeutic Communication

Every semester. Therapeutic Communication focuses on the development of theoretical knowledge and interpersonal skills needed to interact effectively with clients in a variety of health care settings. Prerequisite: Admission to the Samaritan College of Nursing.

NUR 303 **3 hours**
Introduction to Pharmacology

Every semester and every Summer. 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. Prerequisites: Concurrent enrollment in NUR 311. (The course is open to non-nursing majors on faculty signature).

NUR 309 **3 hours**
Health Assessment

Every semester. 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 laboratory 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 Samaritan College of Nursing and concurrent enrollment in NUR 206 and NUR 207, or special permission from faculty.

NUR 311 **6 hours**
Adult Health Nursing I

Every semester. Adult Health Nursing I focuses on nursing care of adult hospitalized clients. Emphasis is placed on the identification of nursing diagnosis and interventions for clients with acute, chronic, or terminal illness. The course comprises the first ten weeks of the second semester of the nursing curriculum. Prerequisites: NUR 206, NUR 207, and NUR 309.

NUR 312 **6 hours**
Adult Health Nursing II

Every semester. Adult Health Nursing II focuses on nursing care of clients in the critical care setting in collaboration with health team members. Emphasis is placed on the identification of nursing diagnosis and interventions for clients with acute, chronic, or terminal illness. The course comprises the last five weeks of the second semester of the nursing curriculum. Prerequisites: NUR 311.

NUR 313 **6 hours**
Nursing Care of the Childbearing Family

Every semester. 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 advocation of alternatives to promote positive outcomes during the childbearing phase of family development. Prerequisites: NUR 311 or NUR 312.

NUR 314 **6 hours**
Family Centered Child Health Nursing

Every semester. 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. Prerequisites: NUR 311, NUR 312, and NUR 313.

NUR 398Δ **3 hours**
Research in Nursing

Every semester. Research in Nursing promotes research as a framework for analysis of clinical practice. Quantitative and qualitative research methodologies are presented. Emphasis is placed on the critical review of research and application to nursing practice. A Writing-Intensive course. Prerequisites: PSY 363 and NUR 206, or permission of instructor.

NUR 411 **5 hours**
Community Health Nursing

Every semester. 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 **3 hours**
Home Health Care Nursing

Every semester. 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 **5 hours**
Community Mental Health Nursing

Every semester. The Community Mental Health Nursing course focuses on providing nursing care as the primary, secondary, and tertiary levels of mental health intervention. Emphasis is placed on community screening, crisis intervention and rehabilitation, and teaching with families and client groups. Concepts of environment, group process, family therapy, and interdisciplinary collaboration are integrated with biopsychosocial, spiritual, and cultural aspects of mental health nursing practice. Prerequisites: NUR 313 and NUR 314.

NUR 443 **6 hours**
Management Concepts and Leadership Behavior in Nursing

Every semester. Management Concepts and Leadership Behavior in Nursing are presented as expected roles 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 an examination of professional development and peer collaboration. Prerequisites: NUR 411, NUR 412, and NUR 413.

NUR 446 **2 hours**
Trends and Issues in Nursing

Every semester. Trends and Issues in Nursing explores the numerous professional and societal forces which impact health care policy and practice. Content includes analysis of manpower studies, nursing leaders, policy and position statements, political and cultural issues, and changing nursing roles and licensure. Prerequisites: NUR 411, NUR 412, NUR 413, and NUR 443.

NUR 497 **1 hour**
Preparation for Licensure

Every semester. This course focuses on preparation for the registered nurse licensure examination. The student is assisted in assessing learning needs and developing personal strategies to become successful on the professional examination. The computer review, test preparation materials, and standardized testing methods are utilized to facilitate individual development. Prerequisites: NUR 411, NUR 412, NUR 413, and concurrent enrollment in NUR 498.

NUR 498Δ **3 hours**
Practicum in Nursing

Every semester. 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. A Writing-Intensive course. Prerequisites: NUR 411, NUR 412, NUR 413, and NUR 443.

NRS 429 **3 hours**
Family Centered Health Promotion

This course focuses on family theories, health promotion models, cultural diversity and teaching-learning principles.

NRS 430 **3 hours**
Professional Dynamics

This course examines how group behavior affects organizational effectiveness, decision making, conflict resolution, and strategies for efficient group and task management in nursing and health care.

NRS 432 **3 hours**
Community Health Systems and Concepts I

This course focuses on analysis of health care organizations using the system model, and application of the systems model for solving organizational problems in nursing and community health care systems.

NRS 433Δ **3 hours**
Research in Nursing

This course helps students identify problems, review related literature, collect data, and measure objectives in the health care environment. Students apply analytical skills to health care related projects. A Writing-Intensive course.

NRS 434 **3 hours**
Health Assessment

This course examines the holistic approach to the systematic collection, validation, and communication framework for data that practicing nurses use to make decisions about how to intervene in, promote, maintain, or restore the health of clients.

NRS 436 **3 hours**
Management Concepts and Professional Communication

This course deals with the fundamentals and application of writing and presentation used in the professional nursing environment.

CCS 436Δ **3 hours**
Literary Analysis

This course surveys the content, background, genre, and significance of literature using the Bible as the foundational text. A Writing-Intensive course.

NRS 437 **3 hours**
Ethical Decision Making in Health Care

This course explores case studies using bio-ethical theories with a focus on informed consent, confidentiality, treatment refusals, and comfort and death issues.

NRS 438 **3 hours**
Community Health Systems and Concepts II

This course provides an extended analysis of health care organizations using the systems model, and application of the systems model for solving organizational problems in nursing and community health care systems.

NRS 439 **3 hours**
Leadership in Nursing and Health Care

This course explores motivation theory relating to individual and group functioning in health care organizations. Emphasis is on leadership styles and their impact on effectiveness.

NRS 440 **3 hours**
Trends and Issues in Today's Health Care

This course examines the values and perceptions of health care groups affecting recruitment, training and development, delegation, and supervision of human resources in health care. Examines the manager's role and current trends and issues in nursing and health care.

NRS 441 **3 hours**
Professional Research Project

This course requires students to implement theories and concepts in individual projects related to health care issues.

GRAND CANYON UNIVERSITY BOARD OF TRUSTEES

Mrs. Delba Ayers
Mrs. Aleta Aycock
Dr. Larry Baker
Dr. Thane Barnes
Mr. David Conatser
Mrs. Julie Cunningham
Rev. Dennis Daniel
Mr. Barry Eagle
Mr. Gene Gillam
Mrs. Margaret Goatcher
Mr. Jim Grosbach
Rev. David Gunn
Mr. Ric Jones
Dr. Eric Kendle
Dr. Whitney Lynch
Mrs. Carrie Mayfield
Mr. Brian Middleton
Mrs. Bonnie Muir
Mr. Ray Osborn
Mr. Don Pewitt
Rev. Steve Ramer
Mr. Ray Roles
Mrs. Marci Salmon
Mr. Jerry Sowel
Mr. J. Wayne Watson

GRAND CANYON UNIVERSITY FOUNDATION BOARD OF DIRECTORS

Mr. Ray Arvizu
Mr. Melvin Chamberlin
Dr. Margaret Goatcher
Dr. Joni Hegel
Mr. Mitch Laird
Mr. Jack G. Nietzel
Dr. Carl Paetz, Jr.
Dr. Joyce Parker
Dr. Craig M. Phelps
Mr. Monroe Riddle
Mr. Ray Roles
Dr. W. David Rummel
Mrs. Marci Salmon
Dr. C.J. Smith, Jr.
Mr. Finis Stafford

GRAND CANYON UNIVERSITY ADMINISTRATION

GIL STAFFORD
President
B.A., M.A., Arizona State University; Ph.D., Trinity Theological Seminary

LEANNA HALL
Provost/Vice President for Academic Affairs
Assistant Professor of English
B.A., M.A., Ph.D, Arizona State University

PHILIP J. DANIELS
Vice President of Finance/CFO
B.A., M.B.A., University of Illinois at Springfield

JEAN-NOEL THOMPSON
Vice President of Student Life
B.A., Arizona State University; M.S., Colorado State University; Ph.D., Indiana University.

UNIVERSITY DIGNITARY

BILL R. WILLIAMS
Chancellor
B.S., Grand Canyon College; M.A. in Ed., Arizona State University; M.A., University of Illinois; Ed.D. in Mathematics, Arizona State University

GRAND CANYON UNIVERSITY FACULTY

The list of faculty is in alphabetical order by the faculty member's name.

MICHAEL BAIRD
Professor of Christian Studies/Bible
B.A., Grand Canyon College; M.Div., Ph.D., Southwestern Baptist Theological Seminary

WILLIAM LARRY BARRON, III
Chair, Department of Social Science,
Professor of Psychology
B.A., Rice University; M.A., Ph.D., University of Texas at Austin

PATRICIA BECK
Instructor of Business
B.A., Michigan State University;
M.B.A., American Graduate School of International Management

JAMES E. BEGGS
Chair, Department of Communications
B.A., Baptist College; M.A., Southwest Missouri State University; Ph.D., Louisiana State University

DAVID BRAATEN
Dean, College of Business and Professional Studies
B.S., Arizona State University; M.A., Arizona State University; M.Div., Luther Theological Seminary; Graduate Certificate, Ph.D., University of Southern California.

PAUL BRIDGEMAN
Instructor of Theatre
B.S., Ohio University

MAXIE B. BURCH
Dean, J. Niles Puckett College of Christian Studies/History
Associate Professor of Christian Studies
B.A., The Citadel; M.Div., Southwestern Baptist Theological Seminary; Ph.D., Baylor University

ROBERT L. CAMPBELL
Assistant Professor of Education
B.S., M.A., Arizona State University; Ed.D. Candidate, Northern Arizona University

JUDIE COCHRAN
Associate Professor of Marketing
B.A., Westmont College; M.S., Ed.D. Bus., Northern Illinois University

SHEILA CORLEY
Chair, Department of Music
Associate Professor of Music
B.S., Grand Canyon College; M.M., D.M.A., Arizona State University

BETH DAWKINS
Chair, Department of Mathematics
Associate Professor of Mathematics
B.S., Grand Canyon College; M.Ed., Ph.D. Candidate, Arizona State University

ESMERALDA DELANEY
Instructor of Ceramic Arts
A.A., Glendale Community College; B.A., M.A., Arizona State University; M.F.A., Texas Tech University

CHERYL DOAN
Assistant Professor of Music
B.M.E., M.M., North Texas State University

STEPHEN T. DONOHUE
Professor of Psychology
B.A., M.A., Ed.D., New Mexico State University

DOUGLAS DYE
Associate Dean, College of Liberal Arts
B.A., Bethel College; M.Div., Bethel Theological Seminary; Ph.D., Washington State University

HAL EASTIN
Instructor of Physics
B.S., University of Arizona; M.S., Arizona State University

JUDY EROE
Instructor of German
B.A., University of Northern Colorado; M.A., Arizona State University

DANIEL FARRELL
Associate Professor of Special Education
B.A., Immaculate Conception; M.Ed., Stetson University; Ph.D., University of Florida

PHILIP FERNANDEZ
Dean, College of Science
Professor of Biology
B.S., M.S., Arizona State University; Ph.D., University of Arizona

JEAN FOOTE
Associate Professor of Nursing
B.S.N., R.N., M.S., University of Minnesota

BETZ FREDERICK
Professor of Education
B.A., California State University; M.Ed., University of Sydney; Ph.D., University of Illinois

SUSAN GALLAGHER
Assistant Professor of Nursing
B.S.N., R.N., University of Maryland; M.S., Arizona State University

ELIZABETH GILBERT
Associate Professor of Nursing
B.S., R.N., Union College; M.S., Loma Linda University; Certified Family Nurse Practitioner, Arizona State University

BRUCE GLENN
Assistant Professor of English
B.A., B.S., Northern Arizona University;
M.A., Ph.D., Arizona State University

CHERYL GLENNON
Associate Professor of Nursing
B.S., R.N., Worchester State College; M.S., Arizona State University; D.N.Sc., University of San Diego

CHRISTINA GUTSHALL
Instructor of Music
B.S., Grand Canyon University; M.M., Southern Methodist University; D.M.A. Candidate, Arizona State University

WILLA HARPER
Instructor of Chemistry
B.S., Olivet Nazarene University; Ph.D., Northern Illinois University

MARY J. A. HARRIS
Associate Professor of Physics
B.Sc., University of Southampton, U.K.; M.Sc., University of Reading, U.K.

JAMES P. HELFERS
Dean, College of Liberal Arts
Professor of English
B.A., Wheaton College; M.A., Ph.D., University of Michigan-Ann Arbor

ADELE HENSLEY
Associate Professor of Biology
B.S., Baylor; M.S., University of Florida

FRANK HENSLEY
Associate Professor of Biology
B.S., Baylor University; M.S., Ph.D., University of Florida

CAROLYN HINDERLITER
Director, Applied Management and Organizational Sociology Programs
B.S., Grand Canyon University; M.Ed, Northern Arizona University

BARBARA HOFFMAN
Professor of History
B.S., M.A., Central Missouri State University; Ph.D., University of Colorado

WESTON L. HOOK
Assistant Professor of Christian Studies/Education
B.S., Grand Canyon University; M.Div, D.Min., Golden Gate Baptist Theological Seminary

ELIZABETH HOWARD
Associate Professor of Education
B.A., University of Texas, Austin; M.A.T., New Mexico State University, Las Cruces; Ph.D. University of Texas, Austin

BOB HUFFMAN
Assistant Professor of Physics
B.A., Wittenburg University; M.S., Michigan State University; Ph.D., University of Massachusetts

JUDITH JOHNSTON
Assistant Professor of Performing Arts
B.S., Grand Canyon College; M.C.M., Southwestern Baptist Theological Seminary

CATHY JOLMA
Assistant Professor of Biology
B.A., University of Arizona; M.A., Arizona State University

ROB JONES
Associate Dean, Graduate Programs
Professor of Management
B.A., University of Arizona; M.A., Ph.D., Arizona State University

THOMAS R. JONES
Chair, Department of Biology
Professor of Biology
B.S., M.S., Auburn University; Ph.D., Arizona State University

LYNN KARNS
Instructor of Journalism/Photography
B.S., Florida State University; M.S., Arizona State University

LIBBY KENT
Assistant Professor of Music
B.M., M.M., D.M.A. Candidate, Arizona State University

JONI KILLIAN
Instructor of Music
B.A., Anderson University; M.M., Arizona State University

JIM KLEMASZEWSKI
Instructor of Astronomy and Geology
B.A., Southwestern University; M.S., Ph.D. Candidate, Arizona State University

ED KNECHT
Associate Professor of Accounting
B.S., Northern Arizona University; M.B.A., Arizona State University, C.P.A.

WILLIAM KUEHL
Chair, Department of Health, Exercise Science and Physical Education
B.A., Augustana College; M.S., University of Illinois

RONALD LANA
Assistant Professor of Arts
B.F.A., University of Oklahoma

ELIZABETH M. LARSON
Associate Professor of Chemistry
B.S., Ph.D., Arizona State University

JUDY S. LIVELY
Professor of Music
B.M., Texas Christian University; M.M., Southern Methodist University; D.M.A., University of North Texas

JOE LLOYD
Assistant Professor of Music
Director of Instrumental Ensembles
B.S., M.A., Northern Arizona University; Ed.D. Candidate, Arizona State University

JO MARICK
Associate Professor of Nursing
B.S., R.N., Caroll College; M.A., Chadron State University; M.S., University of Wyoming; Ed.D., University of Nebraska

CHARLES MAXSON
Professor of Sociology
B.A., Westmont College; M.A., Ph.D., University of California at Los Angeles

ROBERT K. McCLEAN
Professor of Marketing
B.A., King's College; M.B.A., St. John's University; D.P.S., Pace University

PAUL McELLIGOT
Faculty Associate in Chemistry
B.S., Boston College; MBA, Villanova University; Ph.D., University of South Carolina

PATRICIA MEYERS
Associate Professor of English
B.A., M.A., Ph.D., Arizona State University

ERDIE MORRIS
Associate Dean, College of Science
Professor of Biology
B.S., M.A., Arizona State University; M.P.H., University of California-Berkeley; Ph.D., Purdue University

CHUCK MORRISON
Professor of Church Music and Worship Studies
Director, Non-Traditional Programs
B.S., Grand Canyon College; M.M., Northern Arizona University; Ed.D., Arizona State University

IAN E. MORRISON
Instructor in Art
B.A. Grand Canyon University; M.A. Candidate, University of South Carolina

GREG OSTEMA
Instructor of Communications, Artist in Residence
B.A., Grand Canyon University

MARIA PAPADOPOL
Associate Professor of Spanish Language
M.A., University of Bucharest, Romania; Ph.D., State University of New York at Albany

PETRU PAPADOPOL
Professor of Mathematics
Director of Dynamical Systems Laboratory
M.S., Ph.D., University of Bucharest, Romania

BETHYL PEARSON
Professor of Education
B.A., Albion College; M.Ed., Wright State University; M.A., Ph.D., Michigan State University

CLAUDE N. PENSIS
Chair, Department of Theatre & Drama
Professor of Theatre
B.S., University of Wisconsin-Oshkosh; M.F.A., University of Wisconsin-Madison

BEVERLY PERRY
Assistant Professor of Sociology
B.A., M.S.W., University of Iowa

KATHLEEN NOSAL PLAYER
Chair, Professional Studies Division
B.S.N., St. Joseph's College; M.S., Nova Southeastern University; Ed.D., University of Sarasota

ELLEN POOLE
Professor of Nursing
B.S.N., R.N., Creighton University; M.S., Arizona State University

DENNIS PROFFITT
Chair, Business Division
Professor of Finance
B.S., Central Missouri State; M.B.A., Bradley University; Ph.D., St. Louis University

SCOTT A. QUATRO
Assistant Professor of Management
B.A., Pepperdine University; M.B.A., College of William and Mary; Ph.D., Iowa State University

LINDA RAWLES
Associate Professor of Political Science and Justice Studies
B.A., Indiana University; J.D., University of Chicago

SHARON RAYMAN
Director, RN to BSN Track
B.S., South Dakota State University; R.N., M.S., Arizona State University

DAVID REITER
Assistant Professor of Christian Studies/Philosophy
B.A., Covenant College; M.A.R., Westminster Seminary; Ph.D., University of Nebraska

CHERYL ROAT
Associate Professor of Nursing
B.S.N., R.N., Olivet Nazarene University; M.S.N., University of Missouri-Columbia

W. KAYE ROBINSON
Professor of Communications
B.S., Grand Canyon College; M.A., Ed.D., Arizona State University

ROXANA ROGERS
Instructor in Nursing
B.S.N., R.N., Phoenix College, M.S.N.

AILEY RUNYON
Assistant Professor of Nursing
B.S.N., R.N., Family Nurse Practitioner, Baylor; M.S.N.

CYNTHIA A. RUSSELL
Dean, Samaritan College of Nursing
Professor of Nursing
B.S., University of Wisconsin-Madison; M.S., University of Wisconsin-Madison; D.N.S.C., Rush University

CINDY SEMINOFF
Assistant Professor of Exercise Science
B.S., University of South Alabama; M.S., Arizona State University

ANGELA SCHWENDIMAN
Faculty Associate in Biology
B.S., Grand Canyon University

GEORGIA SEARS
Professor of Music
B.M., Grand Canyon University; M.M., University of Houston

MARK SHELLEY
Associate Professor of Sociology
B.A., York University; M.A., California State University, Northridge; M.A., Fuller Theological Seminary; Ph.D., University of Wisconsin

JEANNE SIEBENMAN
Dean, College of Education
Professor of Education
B.S., M.A., Ed.D., Arizona State University

MALCOLM SLOAN
Faculty Associate in Recreation
B.A., University of Miami; M., M.I.M.,
Thunderbird Graduate School of International Management

ANNE SMITH
Professor of Accounting
B.S., Eastern Illinois University; M.B.A., Illinois Benedictine College; Ed.D., Northern Illinois University; C.M.A.

FRANCES SMITH
Associate Professor of English
B.A., Baylor University; M.R.E., Southwestern Baptist Theological Seminary; M.A., University of Texas; Ph.D., Georgetown University

REBECCA SOCIA
Faculty Associate in Chemistry
B.S., Grand Canyon University

RON SOLARES
Faculty Associate in Physical Education
B.A., Point Loma Nazarene College; M.S., University of Kentucky

BEVERLY SPITLER
Associate Professor of Justice Studies
B.S., Grand Canyon College; M.S., Arizona State University; Ed.D., Nova Southeastern University

NICOLE STEVENSEN
Faculty Associate in Biology
B.S., Grand Canyon University

MARK A. TAYLOR
Professor of Biology
B.S., Arizona State University; Ph.D., Purdue University

TIM TIMMERMAN
Chair, Department of Art
Associate Professor of Art
B.A., Biola University; M.F.A., Washington State University

JAMES TUOHY
Associate Professor of Biology
B.A., Plymouth Polytechnic; Ph.D., School of Biological Sciences, Portsmouth Polytechnic, Hampshire, U.K.

JON ULRICH
Assistant Professor of Business
B.S., University of California-Santa Barbara; M.A., California State University-Northridge; Ph.D. Candidate, Arizona State University

LINDA VAN der WAL
Chair, Department of Humanities
Associate Professor of English
B.A., M.A., Ph.D., Arizona State University

JULIE VOGEL
Instructor, Education
B.S., Iowa State; M.Ed., ABD, Arizona State University

MARILYN WELLS
Director of Distant Learning
Associate Dean, College of Education
Assistant Professor of Education
B.S., University of Central Oklahoma at Edmond; M.S., Ed.D., Oklahoma State University

KEITH WHITLOCK
Assistant Professor
B.A., M.M., San Diego State University;
D.M.A., University of Southern California

NATHAN WIGHT
Instructor of Vocal Performance
B.S., Abilene Christian University; M.M., Rice University;
D.M.A., Arizona State University

DAVID A. WING
Chair, Department of Physical Sciences
Professor of Chemistry
B.S., Wheaton College; Ph.D., Northwestern University

JIM WITHERSPOON
Professor of Biology
B.S., M.S., Ph.D., Purdue University

JOE WOODALL
Chair, Public Safety Division
A.A.S., Phoenix College; B.S., Eastern Oregon University; M.Ed., Northern Arizona University; M.A., Ottowa University;
Ph.D., Fielding Institute

MICHAEL WORRELL
Assistant Professor of Biology
A.B., Earlham College; Ph.D., Indiana University

CLARK YOUNGBLOOD
Professor of Christian Studies/Theology
B.A., Hardin-Simmons University; M.Div., Ph.D., Southern Baptist Theological Seminary

Adjunct personnel are used when their special abilities or experience would enrich the curriculum.

GRAND CANYON UNIVERSITY PROFESSORS EMERITI

BETTY BECK
Professor Emeritus, Department of English and Modern Languages
B.A., DePaul University; M.A., Ph.D., University of Oklahoma

DAVID BRAZELL
Professor Emeritus, Department of Health and Physical Education
B.S., State College of Arkansas; M.S., University of Arkansas; Ed.D., Arizona State University

MILDRED BRAZELL
Professor Emeritus, Department of Health and Physical Education
B.A., State College of Arkansas; M.A., Ed.D, Arizona State University

RALPH BRYAN
Professor Emeritus, Department of English
B.S., M.A., Arizona State University; Ph.D., University of Colorado

CLARICE MABEN
Professor Emeritus, Department of Social Sciences
B.A., Grand Canyon College; M.A., Baylor University; Additional Graduate Study: University of Arizona

D.C. MARTIN
Professor Emeritus, Department of Christian Studies
B.A., Wake Forest College; Th.M., M.R.E., Southwestern Baptist Theological Seminary; Th.D., New Orleans Baptist Theological Seminary

J. NILES PUCKETT
Professor Emeritus, Department of Christian Studies
B.A., Mississippi College; L.L.B., Cumberland University; Th.M., Th.D., Southern Baptist Theological Seminary

INDEX

A

Absences,
  Chapel, 22
  Class, See Class Attendance, 23
Academic Advisement, 23
Academic Calendar, iv
Academic Honors, 26
Academic Probation, 26
Academic Regalia, 28
Academic Regulations, 23-27
  Advisement, 23
  Class Attendance, 23
  Classification of Courses, 23
  Classification of Students, 23
  Concurrent Enrollment, 23-24
  Correspondence and Extension Credit, 25
  Courses, 24-26
  Eligibility for Activities, 25
  Grade Requirements, 25
  Grading Systems, 25
  Semester Hour, 23
  Standards of Academics, 26-27
Academic Semester Hour, 23
Academic Standards, 26-27
Academic Suspension, 26-27
Academic Tutoring, 32
Accounting
  Course Descriptions, 42-43
  Degree Requirements, 42
Accreditation, 2
ACT Scores, 5-6
Activities, 22-23
Administration, 142
Administrative Withdrawal
  for Non-attendance, 25
  for Non-payment, see Student Expenses, 13
Admission Policies and Procedures, 4-13
  Advanced Placement (AP), 12
  Campus Visits, 4
  College Level Examination Program (CLEP), 13
  Evaluation of Transfer Credit, 11-12
  General Statement, 4
  Graduate Student Admission,
    College of Education, 68
    College of Business, 48, 51
    Internatiional Baccalaureate, 13
  International Student Admission, 10
    Application Procedures, 10-11
    General Information, 10
      American Language Program, 11
      Pursuit of Degree, 10-11
  Post Baccalaureate Admission, 9-10
    Second Degree, 9
  Priority Registration, 4
  Readmission, 9
  Unclassified Students, 9
  Undergraduate Admission, 9
    Admission with Specification, 6
    Application Procedures, 6-9
    Direct Transfer Plan, 8-9
    General Information, 4
    Standards for Admission, 5-6
Advanced Placement (AP), 12
Advisement, 23
Aerospace Studies
  Course Descriptions, 36-37
Air Force ROTC, 35
Allied Health
  Degree Requirements, 120
Alma Mater, 21
Alumni Association, 3
American Language Program, 11, 33
American Studies Program, 34
Apartments, see Residential Life/Housing, 21
Appeal of Grade, 25
Application Procedures
  Admission, 6-9
  Financial Aid, 15
  Housing, 21
Applied Management
  Course Descriptions, 46-47
  Degree Requirements, 46
Applied Music
  Course Descriptions, 104-106
  Degree Requirements, 98-99
Arizona School of Health Sciences,
  Articulation Agreement, 117
Army ROTC, 35-36
Art, Department of, 80-84
  Course Descriptions, 82-84
  Department Description, 80
  Degree Requirements, 80-81
  Minor Requirements, 81
Art Education
  Course Descriptions, 82
  Degree Requirements, 86
Art History
  Course Descriptions, 82
Art Studio
  Course Descriptions, 82-83
Assistance, see Financial Aid, 15-21
Athletic Coaching
  Minor Requirements, 126
Athletic Training
  Degree Requirements, 125-126
Athletics
  Affiliation, NCAA, 22
  Eligibility, 22
  Grants In-Aid, 19-20
  Teams, 22
Attendance Regulations
  Chapel, 22
  Class, 23
Audit Grade, 25
Auditing of Courses, 24
Averaging of Grades, 26
Awards, Honors, Recognitions, 26

B

Bachelor of Arts, 27
Bachelor of Business Administration, 27
Bachelor of Liberal Studies, 27
Bachelor of Music, 27
Bachelor of Science, 27
Bachelor of Science in Nursing, 27
Behavioral Sciences
  Minor Requirements, 109
Bible
  Course Descriptions, 57
Biblical/Theological Studies
  Course Descriptions, 57-59
  Degree Requirements, 54-55
Bilingual Education,
  Course Descriptions, 74-75
  Minor Requirements, 71
Biochemistry
  Degree Requirements, 131
Biology, Department of, 120-124
  Course Descriptions, 122-124
  Degree Requirements, 120-121
  Department Description, 120
Minor Requirements, 122
Biology, Environmental
  Degree Requirements, 121
Biology, General
  Degree Requirements, 120
Biology, Human
  Degree Requirements, 121
Biology for Secondary Teachers
  Degree Requirements, 121
Biophysical Science
  Minor Requirements, 133
Board of Trustees, 142
Broadcasting, Communications Emphasis,
  Communications Degree, 85
Buildings, see University Campus, 3
Business
  Course Descriptions, 43
  Minor Requirements, 42
Business Administration
  Course Descriptions, 42-45
  Degree Requirements, 42
Business and Professional Studies, College of, 39-53
  Admission Procedures, 40, 45. 48, 51
  College Description, 39
  Computer Information Systems
    Certificate Program, 41
  Degree Offerings, 40
  Degree Requirements, 40-42
  Global Business Certificate Program, 41
  Internship Guidelines, 40-41
  University Liberal Arts Foundation, 41
    Division of Business Studies, 40-41
    Division of Professional Studies, 45-46

C

Calendar, Academic, iv
Campus Facilities, see University Campus, 3
Campus Housing, 21
Campus Map, 153-154
Campus Visits, 4

Canyon Echoes, 23, 85
Canyon Institute of Advanced Studies, 34
Catalog, Choice of, 28
Center for International Education, 9-11, 33
Certification for Teaching, 65-71
Change of Courses (Add/Drop), 24
Change of Grade, 26
Chapel, 22
Chemistry
  Course Descriptions, 133-135
  Degree Requirements, 131
  Minor Requirements, 133
Chemistry for Secondary Teachers
  Degree Requirements, 132
China Studies Program, 34
Chinese
  Course Descriptions, 93
Choice of Catalog, 28
Choral Conducting
  Emphasis Requirements, 101
Christian Education
  Degree Requirements, 55
Christian Leadership
  Course Descriptioins, 60
  Degree Requirements, 56-57
Christian Perspectives, 32
  Course Descriptions, 38
Christian Studies, J. Niles Puckett
  College of, 54-61
  Course Descriptions, 57-61
  Degree Requirements, 54-56
  Minor Requirements, 56
Church Music
  Course Descriptions, 101
  Degree Requirements, 99-100
Class Attendance, 23
Classification of Courses, 23
Classification of Students, 23
CLEP Credit, 13
Clubs and Organizations, 22
College of Business see
  Business and Professional Studies, College of, 39-53
College of Education see
  Education, College of, 62-77
College of Liberal Arts see
  Liberal Arts, College of, 78-116
College of Nursing see
  Samaritan College of Nursing, 137-141
College of Science see
  Science, College of, 117-136
Commencement Exercises, 28
Communications and Speech,
  Department of, 85-88
    Department Description, 85
Course Descriptions, 86-88
    Degree Requirements, 85-86
    Minor Requirements, 86
Computer Application Modules
  Course Descriptions, 42
Computer Information Systems
  Course Descriptions, 43-44
Computer Information Systems
  Certificate Program, 41
Computer Science
  Course Descriptions, 96
Concurrent Enrollment, 23
Conduct, Student, 21-22
Cooke Health Center, 21
Corporate Fitness and Wellness
  Degree Requirements, 126
Correspondence and Extension Credit, 25
Correspondence Directory, see
  Whom to Contact, ii
Council for Christian Colleges and
  Universities, 33
Counseling Courses, see Psychology, 111-112
Course Descriptions
  (see specific College or Department)
Course Scheduling, 28
Courses, 24-26
  Auditing of, 24
  Change of, 24
  Course Load, 24
  Dropping, 24
  Order of Taking, 24
  Repeating, 24
  Special Study, 24
  Withdrawing from, 25
Creative Arts in Worship
  Course Descriptions, 57-58
  Degree Requirements, 55
Credit Grade, 26
Credit, Unit of, see
  Academic Semester Hour, 23
Criminal Justice, see Justice Studies, 110-111
Critical Thinking, and Expression
  Minor Requirements, 109-110
Curricular Requirements for Graduation, 28

D

Dean's List, 26
Degrees Offered
  Bachelor of Arts, 27
  Bachelor of Business Administration, 27
  Bachelor of Liberal Studies, 27
  Bachelor of Music, 27
  Bachelor of Science, 27
  Bachelor of Science in Nursing, 27
  Master of Arts in Education, 27
  Master of Arts in Teaching, 27
  Master of Business Administration, 27
  Master of Education, 27
Dentistry, Pre-medical, 118
Design Studio Course Descriptions, 83-84
Dining Hall, see Food Services, 22
Direct Transfer Plan, 8-9
Directory of Correspondence,
  see Whom to Contact, ii
Disability Services, 22
Discipline, see Student Conduct, 21-22
Dismissal from the University,
  see Student Conduct, 21-22
Dormitories, see Housing, 21
Double Degrees, 31
Double Major, 31
Drama, see Theatre & Drama,
  Department of, 114-116
Dropping of Courses, 24
Dynamical Systems, see Mathematics, 95

E

Early Admissions Program, 5
Economics
  Course Descriptions, 44
Education, College of, 62-77
  Application Procedures, 63-64, 68
  Certification, Elementary Education, 68
  Certification, Secondary Education, 69
    College Description, 62
  Course Descriptions, 71-77
  Degree Requirements, 65-67, 68-71
  Fifth Year Program, 67
  Master of Arts
    Application Procedures, 68
    Degree Requirements, 69-70
  Master of Arts in Teaching
    Application Procedures, 68
    Degree Requirements, 70-71
  Master of Education
    Application Procedures, 68
    Degree Requirements, 68-69
    Statement of Support, 62
  University Liberal Arts Foundation, 64-65
Elective Courses, see Course Scheduling, 28
Elementary Education
  Course Descriptions, 71-75
  Degree Requirements, 65-66
Elementary Teaching Certificate, 65-66
Eligibility
  Activities, 25
  Athletics, 22
  Financial Aid, 15
Emotionally Handicapped Certification
  Degree Requirements, 70
Employment Services, 21
Endowed Scholarships, 18-19
Engineering
  Course Descriptions, 135
  Preparation for, 119
English as a Second Language
  Course Descriptions, 75-76
  Minor Requirements, 71
English Literature
  Course Descriptions, 87-88
  Degree Requirements, 85
English Minor, 90
English Teaching
  Degree Requirements, 89
Ensembles
  Course Descriptions, 106-107
Environmental Biology
  Degree Requirements, 121
Ethics Courses, see Philosophy, 59-60
Ethington Memorial Theatre, 3
Evaluation of Transfer Credit, 12
Exercise Science
  Course Descriptions, 127-128
  Minor Requirements, 126

Extracurricular Activities, 22-23

F

Facilities, see University Campus, 3
Faculty, 3, 142-146
Fall Semester Dates,
see Academic Calendar, iv
Family Educational Rights and Privacy Act,
see Student Records, 27
Federal Work Study Program, 21
Fees for Withdrawals, Dropped Courses, 15
Fifth Year Program, 67
Film Studies see Los Angeles, 34
Finance
Course Descriptions 44
Financial Aid, 15-21
Academic Progress, 16-17
Application Process, 15
Award Procedures, 16
Determination of Financial Aid, 15
Eligibility, 15
Keeping the Office of
Financial Aid Informed, 16-17
Preference Deadline Dates, 15
Financial Information, 13-21
Approvals, 21
Endowed Scholarships, 18-19
Financial Aid, 15-21
Grants, 19-20
Refund Policies, 14-15
Room and Board, 14
Scholarships, 17-19
Special Class Fees, 14
Student Employment, 21
Student Expenses, 13
Student Insurance, 14
Student Loans, 20-21
Student Responsibilities, 16-17
Tuition, Fees, and Housing, 14
Validine, 14
Fleming Classroom Building, 3
Fleming Library, 3
Food Services, 22
Foreign Languages,
see Modern Languages, 93-94
French
Course Descriptions, 93

G

General Academic Regulations, 23-27
General University Information, 3
Geography
Course Descriptions, 110
Geology
Course Descriptions 135
German
Course Descriptions, 93-94
Minor Requirements, 90
Governing Body of the University, 3
Government, see Political Science, 111
Grade Requirements, 25
Grading System, 25
Graduation, 27-30
Graduate Studies, College of Business and
Professional Studies (M.B.A.)
Admission Requirements, 48, 51
Course Descriptions, 49=57, 52 53
Course Waivers, 48, 51
Degree Requirements, 49, 51
Graduation Requirements, 48, 51
International Opportunities, 49
Transfer Credits, 48, 51
Graduate Studies, College of Education
Application Procedures, 68
Degree Requirements, Master of Arts (M.A.)
Elementary Education, 70
Reading Education, 69
Secondary Education, 70
Teaching English as
a Second Language, 69
Degree Requirements, Master of
Teaching (MAT), 70-71
Degree Requirements, Master of
Education (M.Ed.), 68-69
Program for Elementary Certification, 70
Program for Secondary Certification, 69
Program for Special Education Certification, 70
Graduation Requirements, 27-31
Bachelor Degree Candidates
Suggested Program of Study, 30-31
Bachelor of Liberal Studies
Degree Requirements, 31
Choice of Catalog, 28
Correspondence and Extension Credit, 29
Course Scheduling, 28
Degrees Offered, 27-28
Double Degree, 31
Elective Courses, see Course Scheduling, 28
General Requirements, 28
Grade Requirements, 29
Major and Minor Subjects, 31
Minimum Residence, 29
Second Degree, 31
Total Hours, 29
University Liberal Arts Foundation, 29
Upper Division Requirement, 29
Grants, 19-20
Graphic Design
Degree Requirements, 80-81
Greek, New Testament
Course Descriptions, 59
Guitar
Emphasis Requirement, 98

H

Health Education
Course Descriptions, 128
Minor Requirements, 126
Health, Exercise Science, and Physical
Education, Department of, 125-130
Course Descriptions, 127-130
Degree Requirements, 125-126
Department Description, 125
Minor Requirements, 126-127
Health History Form, 7, 8, 9,10
Health Services, 21
Historical Sketch, 2-3
Historical/Theological Studies
Course Descriptions, 58
History
Course Descriptions, 92-93
Degree Requirements, 89-90
Minor Requirements, 90
Holidays, see Academic Calendar, iv
Honor Roll, 26
Honors
Awards, 26
at Graduation, 26
Recognitions, 26
Honors Program, 32-34
Course Descriptions, 37
Housing Services, 21
Human Biology
Degree Requirements, 121
Humanities
Minor Requirements, 90
Humanities, Department of, 89-94
Course Descriptions, 91-94
Department Description, 89
Degree Requirements, 89-90
Minor Requirements, 90-91

I

Incomplete Grade, 26
Independent Study Courses, 25
Infirmary, see Health Services, 21
International Baccalaureate, 13
International Studies
Degree Requirements, 90
Instrumental Conducting
Emphasis Requirements, 101
Insurance, 14, 21
Intercollegiate Athletics, 22
International Education, Center for, 33
International Students
Admission of, 10-11
Intramural Athletics, 22
Italian
Course Description, 94

J

J. Niles Puckett College of Christian
Studies, 54-61
Journalism
Course Descriptions, 87
Journalism, Communications
Emphasis Requirements, 86
Junior Marshals, 26
Justice Studies
Course Descriptions, 110-111
Degree Requirements, 108
Minor Requirements, 109

K

Kirksville College of Osteopathic Medicine,
Southwest Center, see also Arizona School
of Health Sciences, 117

L

Languages, Courses in,
see Modern Languages, 93-94
Latin American Studies program, 34
Learner Goals, 30
Learning Disabilities Certification
Degree Requirements, 70
Liberal Arts, College of,
Department of,
Art, 80-84
Communications and Speech, 85-88
Humanities, 89-94
Mathematics, 95-97
Music, 98-107
Social Sciences, 108-113
Theatre/Drama, 114-116
Description, 78
University Liberal Arts Foundation, 78-79
Liberal Studies, Bachelor of, 31
Library, Fleming, 3
Literature, English Degree Requirements, 89
Loans, Student, 20-21
Location of the University, 4
Los Angeles Film Studies Center, 34

M

Majors, 27
Management
Course Descriptions, 44
Map, Campus, 153-154
Marketing
Course Descriptions, 44-45
Degree Requirements, 42
Master of Arts
Degree Requirements, 69
Master of Arts in Teaching
Degree Requirements, 70-71
Master of Business Administration
Degree Requirements, 49
Master of Education
Degree Requirements, 68-69
Master of Science in Executive Fire Service Leadership
Degree Requirements, 52
Mathematics
Course Descriptions. 96-97
Degree Requirements, 95
Minor Requirements, 96
Mathematics, Department of, 95-97
Course Descriptions, 96-97
Department Description, 95
Dynamical Systems Laboratory, 95
Degree Requirements, 95-96
Minor Requirements, 96
Mathematics for Engineers
Degree Requirements, 96
Mathematics for Secondary Teachers
Degree Requirements, 96
Medical Examination, see Health Services, 21
Middle East Studies Program, 32
Military Science
Course Descriptions, 37
Minimum Residence, 29
Minors, 28
Mission Statement, 1
Modern Languages, 93-94
Music, Department of, 98-107
Course Descriptions, 101-107
Department Description, 98
Degree Requirements, 99-101
Minor Requirements, 101
Music Education
Course Descriptions, 106
Degree Requirements, 100-101
Music Theatre
Course Descriptions, 107

N

New Testament Greek
Course Descriptions, 59
Numbering of Courses, see Classification of Courses, 23
Nursing, see
Samaritan College of Nursing, 137-141

O

Occupational Therapy, Preparation for, 119
Officials, see Administration, 142
Optometry, Preparation for, 118
Order of Taking Courses, 24
Organizational Sociology
Course Descriptions, 47
Degree Requirements, 46
Oxford Honors Program, 34
Oxford Summer School Program, 34

P

Parking Fee, see Tuition, Fees and Housing, 14
Payment of Fees, see Student Expenses, 13
Pharmacy, Preparation for, 119
Philosophy
Course Descriptions, 59-60
Minor Requirements, 56
Photography
Minor Requirements, 81
Photojournalism, Communications
Emphasis Requirements, 86
Physical Education
Course Descriptions, 128-129
Degree Requirements, 126
Minor Requirements, 127
Physical Examinations, see Health Services, 21
Physical Sciences
Degree Requirements, 132
Physical Sciences, Department of, 131-136
Course Descriptions, 133-136
Degree Requirements,131-133
Department Description, 131
Physical Therapy, Preparation for, 119
Physician's Assistant Studies, 119
Physics
Course Descriptions, 135-136
Minor Requirements, 133
Physics for Secondary Teachers
Degree Requirements, 132
Piano Performance
Major Requirements, 100
Piano Proficiency, 100
Podiatry, Preparation for, 118
Political Science
Course Descriptions, 111
Degree Requirements, 108-109
Minor Requirements, 109
Practical Ministries
Course Descriptions, 58-59
Practicum, 25
Pre-engineering, 119
Pre-health Professions, Preparations for Schools of,
Pharmacy, 119
Physician Assistant Studies, 119
Physical Therapy, 119
Occupational Therapy, 119
Pre-medical, Preparation for
Dentistry, 118
Medical, 118
Optometry, 118
Podiatry, 118
Veterinary Science, 118
Pre-professional Programs, 28
Presidents of the University,
see Historical Sketch, 3
Privacy Act, see Student Records, 27
Probation, Academic, 26
Professors Emeriti, 146
Psychology
Course Descriptions, 111-112
Degree Requirements, 109
Minor Requirements, 110
Publications, 3, 23
Public Relations, Communications
Emphasis Requirements, 86
Public Safety
Course Descriptions, 47-48
Degree Requirements, 46
Puckett, J. Niles College of Christian Studies, see Christian Studies, 54-61
Purpose of the University, 1

Q

Quality Points, see Grading System, 24

R

Ray-Maben Scholars, 26
Reading and Conference, 25
Reading Education
Course Descriptions, 73-74
Readmission, 9
Recitals, 99
Recreation
Course Descriptions, 129-130
Degree Requirements, 126
Minor Requirements, 127
Refund Policies, 14-15
Refund Schedule, 15
Registration Dates, see Academic Calendar, iv
Regulations, Academic, 23-27
Religion, see Christian Studies, 54-59 and

Christian Leadership, 60-61
Religious Life, see Campus and Community Ministries/Chapel, 22
Repeating Courses, 24
Reservations, Room, see Housing Services, 21
Reserve Officer Training Programs, 34-36
Air Force ROTC, 35
Course Descriptions, 36-37
Scholarships, 18, 35
Army ROTC, 35-36
Course Descriptions, 37
Scholarships, 18, 36
Residence Halls, see Housing Services, 21
Residence Study Requirement, 29
Room and Board, 14, 21
Russian
Course Descriptions, 94
Russian Studies Program, 34

S

Samaritan College of Nursing, 137-141
College Description, 137
Course Descriptions, 139-141
Degree Requirements, 139
University Liberal Arts Foundation, 138-139
SAT Scores, 5, 6
Schedule Changes, see Change of Courses, 24
Scholarships, 17-19
Science, College of, 117-136
Arizona School of Health Sciences, 117
Department of
Biology, 120-124
Health, Exercise Science, and Physical Education, 125-130
Physical Science, 131-136
Description, 117
Pre-elementary Teaching, 119
Pre-engineering, 119
Pre-graduate, 119
Pre-health Professionals, 119
Pre-medical, 118
University Liberal Arts Foundation, 117-118
Science for Elementary Teachers
Degree Requirements 132-133
Science Teaching
Minor Requirements, 133
Secondary Certification, 66
Secondary Education
Course Descriptions, 74
Second Degree, 31
Semester Hour, Definition of, 23
Shadows, 23
Social Sciences
Minor Requirements, 110
Social Sciences, Department of
Course Descriptions, 110-113
Degree Requirements, 108-109
Department Description, 108
Minor Requirements, 109-110
Social Work, see Sociology 109
Sociology
Course Descriptions, 112-113
Degree Requirements, 109
Minor Requirements, 110
Spanish
Course Descriptions, 94
Minor Requirements, 91
Special Class Fees, 14
Special Education
Course Descriptions, 74-75
Degree Requirements, 66, 69-70
Emotionally Handicapped, 66, 69-70
Learning Disabilities, 66, 69-70
Mental Retardation, 66, 69-70
Special Events, 22
Special Study Courses, 24-25
Speech
Course Descriptions, 87-88
Minor Requirements, 86
Speech Teaching
Course Descriptions, 87-88
Degree Requirements, 86
Speech/Theatre
Degree Requirements, 114
Sports Health Care, 119
Spring Semester Dates, see Academic Calendar, iv
Standards of Academics, 26-27
Student Clubs, 22
Student Conduct, 21-22
Student Employment Services, 21
Student Expenses, 13
Student Government, see Campus Leadership Council, 23
Student Insurance, 14, 21
Student Life, 21, 23
Athletics, 22
Calendar/Handbook, 21
Campus and Community Ministries/Chapel, 22
Disability Services, 22
Food Services, 22
Health Services, 21
Mission Statement, 21
Residence Life/Housing, 21
Statement of Principle, 21
Student Activities, 22-23
Student Conduct, 21-22
Student Loans, 20-21
Student Organizations, 22
Student Publications, 23
Student Records, 27
Student Residences, see Resident Life/Housing, 21
Student Teaching Dates, see Academic Calendar, iv
Studio Art
Degree Requirements, 81
Minor Requirements, 81
Study Abroad Programs, 33
Suspension, Academic, 26-27

T

Teacher Education Curricula, 63
Teacher Placement, 62
Teaching English as a Second Language (TESL)
Course Descriptions, 75-76
Degree Requirements, 69-70
Tell Science Building, 3
Theatre & Drama, Department of, 114-116
Course Descriptions, 115-116
Department Description, 114
Degree Requirements, 114
Minor Requirements, 115
Theatre & Drama
Degree Requirements, 114
Transfer of Credit, 11-12
Transfer Students, 8
Trustees, Board of, 142
Tuition, 14

U

Unclassified Students, 9
Undergraduate Admission, 4-6
Unit of Credit, see Academic Semester Hour, 23
University Campus, 3
Map, 153-154
University, General Information, 1-3
University Liberal Arts Foundation, 230
University Liberal Arts Foundation for
College of Business and Professional Studies, 41
College of Education, 64
College of Liberal Arts, 78-79
College of Science, 117-118
J. Niles Puckett College of Christian Studies, 55
Samaritan College of Nursing, 138-139
University Mascot, 4
University Publications, 3
University Seal, 3
University Special Programs, 32-34
Academic Tutoring, 32
American Language Program, 11, 33
Center for International Education, 33
Christian Perspectives, 32
Council for Christian Colleges and Universities, 33-34
Course Descriptions, 38
Honors Program, 32
Reserve Officer Training Program, (ROTC), 34-35
Study Abroad, 33
University Success Program, 33
Upper Division Requirements, 29

V

Validine, 14
Veterans, see Approvals, 21
Veterinary Science, Preparation for, 118
Vocal, see Music, Department of
Degree Requirements, 99
Vocational Rehabilitation, see Approvals, 21

W

Whom to Contact, ii
Who's Who Among Students, 26
Withdrawal
  for Non-attendance, 25
  for Non-payment, see Student Expenses, 13
  from Courses, 25
Withdrawal Grade, 26
Work Opportunities, 21
Writing Intensive Courses, 30
Writing/Journalism
  Minor Requirements, 91

COURSE PREFIX INDEX

ACC Accounting, 42-43
AES Aerospace Studies, 36-37
ARE Art Education, 82
ARH Art History, 82
ART Art Studio, 82-83
BIB Biblical Studies, 57-59
BIO Biology, 120-121
BLE Bilingual Education, 74-75
BUS Business, 43
CAW Creative Arts in Worship, 57-58
CHM Chemistry, 133-135
CHI Chinese, 93
CHL Christian Leadership, 60
CIS Computer Information Systems, 43-44
COM Communications, 86-88
CSC Computer Science, 96
DGN Design Studio, 83-84
ECN Economics, 44
EDU Education, 71-77
EED Elementary Education, 71-75
ENG English, 91-92
EGN Engineering, 135
ESL Teaching English as a Second Language, 75-76
EXS Exercise Science, 127-128
FIN Finance, 44
FRE French, 93
GEO Geography, 110
GER German, 93-94
GLG Geology, 135
GRK Greek, 59
HIS History, 92-93
HLT Health Education, 128
HON Honors Courses, 37
HTH Historical Theological Studies, 58
JRN Joumalism, 87
JUS Justice Studies, 110-111
MAP Music - Applied, 104-106
MAT Mathematics, 96-97
MCH Church Music, 101
MED Music Education, 106
MEN Music Ensembles, 106-107
MGT Management, 44
MIN Practical Ministries, 58-59
MIS Military Science, 37
MKT Marketing, 44-45
MPC Music Majors Class Piano, 100
MPH Music Non-Majors Class Piano, 100-101
MPJ Music Majors Class Piano/Jazz, 100
MPS Music Majors Class Piano/Arranging for Church Pianist, 100
MTH Music/Theatre, 107
MUS Music, 101-107
MVC Music Majors Class Voice, 100
MVH Music,Non-Majors Class Voice, 100-101
M_A Music Majors/Private Applied Instruction Bachelor of Arts, 101
M_E Music Majors/Private Applied Instruction/Bachelor of Science, 101
M_G Music Majors Private Applied Instruction/General Semester, 101
M_L Music Non-Majors/Private Applied Instruction, 101-102
M_M Music Majors/Private Applied Instruction/Bachelor of Music, 101
M_P Music Majors/Private Applied Instruction/Probationary Status, 101
NRS RN to BSN Option, 137-141
NUR Nursing, 137-141
PED Physical Education, 128-129
PHI Philosophy, 59-60
PHY Physics, 135-136
POS Political Science, 111
PSA Public Safety Administration, 47-48
PSY Psychology, 111-112
RDG Reading Education, 73-74
REC Recreation, 129-130
RUS Russian, 94
SCS Organizational Sociology, 47
SED Secondary Education, 774
SOC Sociology, 112-113
SPA Spanish, 94
SPC Speech, 87-88
SPE Special Education, 74-75
TRE Theatre and Drama, 115-116
UNV University Courses, 38

ADVISOR LOCATIONS

2. Smithey-Parker
4. Kachina Building
6. College of Liberal Arts (Faculty Building)
18. Smith Arts Complex
19. Samaritan College of Nursing
21. Ethington Theatre
22. Antelope Gymnasium
24. Fleming Classroom
27. Tell Science
31. Weidenaar (Center for International Education)
33. College of Education
35. College of Business and Professional Studies

3300 West Camelback Road
Phoenix, Arizona 85017-1097

602 - 249-3300

Security Phone Location

MAP LEGEND

1. Wallace
2. Smithey-Parker
3. Ray Student Services
4. Kachina Hall Music Faculty
5. Computer Center
6. College of Liberal Arts
7. Personnel/Accounting/Business Office
8. Student Life
9. Dining Hall/Mail Room/Copy Center
10. Office for Spiritual Life
11. Publication Classrooms
12. Music Annex/CLC
13. Prayer Chapel
14. Concession Stand
15. Cooke Health Center
16. Bright Angel Residence
17. North Rim Student Apartments
18. Smith Arts Complex/Rehearsal Hall
19. Samaritan College of Nursing
20. Sculpture Annex
21. Ethington Theatre
22. Antelope Gymnasium
23. Fleming Library
24. Fleming Classroom
College of Continuing Studies
25. Kaibab Residence
26. Bookstore
27. Tell Science Center
28. Student Center
29. Environmental Services
30. Mailroom/Security
31 Weidenaar Classrooms (Center for International Education)
32. Mariposa Hall
33. College of Education
34. Tim Salmon Baseball Clubhouse
35. College of Business and Professional Studies

North
W
E
S
FLAGSTAFF
Metro Center
Peoria Avenue
Dunlap Avenue
Northern Avenue
Glendale Avenue
Bethany Home Road
Grand Canyon University
Camelback Road
Indian School Road
Thomas Road
McDowell Road
Papago Freeway, Interstate 10
Van Buren Street
Buckeye Road
Lower Buckeye Road
Broadway Road
Southern Avenue
SKY HARBOR AIRPORT
Maricopa Freeway Interstate 17
35th Avenue
Interstate 17
Black Canyon Freeway
32nd Street
40th Street
Interstate 10
Central Metropolitan Phoenix Area
TUCSON
Maps not to scale

Grand Canyon University Campus Area
North Rim Road
35th Avenue
35th Avenue Access
34th Avenue
Administration Avenue
33rd Avenue
32nd Avenue
to Interstate 10
Camelback Road
To Interstate 17

Grand Canyon University

PHOENIX • ARIZONA

Debbie's Catalogue

Quality Christian education for over 50 years

Catalog 2003-2004

3300 West Camelback Road
Phoenix, Arizona 85061-1097
602/589-2855 • 1-800-800-9776
www.grand-canyon.edu