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# Catalog

## 1999-2001

GRAND CANYON UNIVERSITY



Catalog  
1999-2001

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## WHOM TO CONTACT

Concerning:	Write:	Call: (602)
Academic Matters, Faculty, Curriculum	Senior Vice President	589-2450
Academic Records, Registration, Transcript Requests	Registrar's Office	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	Dean	589-2867
College of Continuing Studies	Dean	589-2831
College of Education	Dean	589-2474
College of Liberal Arts	Dean	589-2468
College of Science and Allied Health	Dean	589-2714
College of Nursing (Samaritan College of Nursing)	Dean	589-2730
Campus Housing	Director of Housing	589-2860
Fund Development, Estate Planning, Endowed Gifts	Associate Vice President for Development	589-2043
Publicity Materials	Director of Public Relations	589-2425
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	589-2809

### University Main Switchboard Number:

(602) 249-3300  
1-800-800-9776

### University Mailing Address:

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

### University Street Address:

Grand Canyon University  
3300 W. Camelback Road  
Phoenix, AZ 85017-1097

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

Thank You

### 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, admissions, 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 rescheduling, and the canceling of scheduled classes or other academic activities.

In accordance with federal laws and regulations, Grand Canyon University does not discriminate against any student or prospective student on the basis of sex, religion, age, race, physical handicap, or national 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-V
General University Information.....	1-4
Admissions Policies and Procedures.....	4-12
Financial Information.....	12-19
Student Life.....	19-21
General Academic Regulations.....	21-25
Graduation Requirements.....	25-29
University Special Programs.....	29-35
University Colleges	
College of Business.....	36-46
College of Continuing Studies.....	47-50
College of Education.....	51-65
College of Liberal Arts.....	66-111
Art.....	68-72
Communications/Speech.....	73-76
Humanities.....	77-82
Mathematics.....	83-85
Music.....	86-95
J. Niles Puckett Center for Christian Studie.....	96-101
Social Sciences.....	102-108
Theatre & Drama.....	109-111
College of Science and Allied Health.....	112-133
Biology.....	115-119
Health, Exercise Science and Physical Education.....	120-126
Physical Sciences.....	127-133
Samaritan College of Nursing.....	134-137
Administration.....	138
Faculty/Staff.....	138-141
Index.....	144-148
Course Prefix Index.....	149
Campus Map.....	150-151



**SUMMER I, MINI-TERM A 1999 (MAY 17 - JUNE 4)****Classes Meet Monday - Friday**

Registration	5/14
Instruction Begins	5/17
Late Registration	5/18
Last Day to Add a Class	5/19
Last Day to Drop a Class/Change to Audit	5/26
Memorial Day (No Classes, Offices Closed)	5/31
Summer I Ends	6/4
Summer I Grades Due by Noon	6/8

**SUMMER I, MINI-TERM B 1999 (JUNE 7 - JUNE 25)****Classes Meet Monday- Friday**

Registration	6/4
Instruction Begins	6/7
Late Registration	6/8
Last Day to add a Class	6/9
Last Day to Drop a Class/Change to Audit	6/16
Summer I Ends	6/25
Summer I Grades Due by Noon	6/29

**SUMMER I, 1999 (May 17 - June 25)**

Registration	5/14
Instruction Begins	5/17
Late Registration	5/18-21
Last Day to Add a Class	5/21
Last Day to Drop a Class/Change to Audit	5/26
Memorial Day (No Classes, Offices Closed)	5/31
Summer I Ends	6/25
Summer I Grades Due by Noon	6/29

**SUMMER II, 1999 (June 28 - August 6)**

Registration	6/25
Instruction Begins	6/28
Late Registration	6/29
Last Day to Add a Class	6/30
Independence Day (No Classes, Offices Closed)	7/5
Last Day to Drop a Class/Change to Audit	7/7
Summer II Ends	8/6
Summer II Grades Due by Noon	8/11

**FALL SEMESTER 1999**

College Faculty Meetings	8/13
Residence Halls Open to New Students (7-9 p.m.)	8/13
New Student Orientation/Group	
Advisement/Priority Registration	8/14-16
Parent Orientation	8/14
Residence Halls Open for Returning	
Students (2-5 p.m.)	8/15
New Student Orientation/Group	
Advisement/Priority Registration	8/16
Registration for Graduate Students,	
Second Degree, Fifth Year, and Seniors	8/17
Evening Registration (6-7 p.m.)	8/17
Registration for Juniors, Sophomores,	
Freshmen, and Unclassified Students	8/18
Instruction Begins	8/19
Late Registration	8/19-27
Last Day to Add a Class	8/27
Labor Day (No Classes, Offices Closed)	9/6
Mid-term Examinations	10/4-7
<b>Fall Holiday (No Classes)</b>	<b>10/8</b>
Mid-term Grades Distributed to Students	10/11-15
Last Day to Drop a Class/Change to Audit	10/29
Priority Pre-registration for	
Spring/Summer 2000 Classes	
(Open to Currently Enrolled Students Only)	11/1,2,4,5
Evening Pre-registration (6-7 p.m.)	
(Open to Currently Enrolled Students Only)	11/2
Veteran's Day (No Classes, Offices Closed)	11/11

**Pre-registration for Spring/Summer 2000 Classes**

(Open to Currently Enrolled Students Only)

11/8-12/7

**Thanksgiving Holiday**

(No Classes, Offices Closed)

11/25-26

**Grades for Incompletes Earned in**

Spring or Summer 1999 Due

12/1

**Final Examinations**

12/6,7,8,9

**Fall Final Grades Due by Noon**

12/15

**Student Teaching Fall 1999**

Education Block Classes Begin	8/26
Last Day to Register for Block Courses	9/1
Last Day to Drop Block Courses	9/8
Education Block Courses End	9/29
Fall Student Teaching Begins	10/2
Fall Student Teaching Ends	12/7

**SPRING SEMESTER 2000**

Residence Halls Open to New Students	1/2
Residence Halls Open for Returning Students (2-5 p.m.)	1/3
New Student Orientation/Group	
Advisement/Priority Registration	1/3-4
Faculty Workshop (Morning)	1/3
Evening Registration (6-7 p.m.)	1/4
Registration	1/4
Instruction Begins	1/5
Late Registration	1/5-14
Last Day to Add a Class	1/14
Martin Luther King, Jr/Civil Rights Day	
(No Classes, Offices Closed)	1/17
President's Day (No Classes, Offices Closed)	
Exception: Classes Beginning After 4:00 p.m.)	2/21
Mid-term Examinations	2/22-25
Mid-term Grades Distributed to Students	2/28-3/3
Spring Break (No Classes)	3/13-17
Last Day to Drop a Class/Change to Audit	3/17
Priority Pre-registration for Summer/Fall 2000 Classes	
(Open to Currently Enrolled Students Only)	3/27-30
Evening Pre-registration	3/28
Grades for Incompletes Earned in the Fall 1999	4/11
Good Friday	4/21
Pre-registration for Summer/Fall 2000 Classes	4/3-5/2
<b>Final Examinations</b>	<b>4/27-28,</b>
	<b>5/1,2</b>
Senior Grades Due by Noon	5/3
Graduation	5/6
Spring Final Grades Due by Noon	5/8

**Student Teaching Spring 2000**

Education Block Classes Begin	1/5
Last Day to Register for Block Course	1/11
Last Day to Drop Block Courses	1/18
Education Block Courses End	2/11
Spring Student Teaching Begins	2/15
Spring Student Teaching Ends	5/2

**TENTATIVE CALENDAR****SUMMER I, MINI-TERM A 2000 (MAY 15 - JUNE 2)****Classes Meet Monday - Friday**

Registration	5/15
Instruction Begins	5/15
Late Registration	5/16-17
Last Day to Add a Class	5/17
Last Day to Drop a Class/Change to Audit	5/23
Memorial Day (No Classes, Offices Closed)	5/29
Summer I Ends	6/2
Summer I Grades Due by Noon	6/6

**SUMMER I, MINI-TERM B 2000 (JUNE 5 - JUNE 22)****Classes Meet Monday - Friday**

Registration	6/5
Instruction Begins	6/5
Late Registration	6/6-7
Last Day to add a Class	6/7
Last Day to Drop a Class/Change to Audit	6/13
Summer I Ends	6/22
Summer I Grades Due by Noon	6/27

**SUMMER I, 2000 (May 15 - June 22)**

Registration	5/15
Instruction Begins	5/15
Late Registration	5/16-19
Last Day to Add a Class	5/19
Memorial Day (No Classes, Offices Closed)	5/29
Last Day to Drop a Class/Change to Audit	6/9
Summer I Ends	6/23
Summer I Grades Due by Noon	6/27

**SUMMER II, 2000 (June 26 - August 4)**

Registration	6/26
Instruction Begins	6/26
Late Registration	6/27-30
Last Day to Add a Class	6/30
Independence Day (No Classes, Offices Closed)	7/4
Last Day to Drop a Class/Change to Audit	7/21
Summer II Ends	8/4
Summer II Grades Due by Noon	8/8

**FALL SEMESTER 2000**

College Faculty Meetings	8/18
Residence Halls Open to New Students (7-9 p.m.)	8/18
New Student Orientation/Group	
Advisement/Priority Registration	8/19-20
Parent Orientation	8/19
Residence Halls Open for Returning Students (2-5 p.m.)	8/20
New Student Orientation/Group	
Advisement/Priority Registration	8/20
Registration for Graduate Students, Second Degree, Fifth Year, and Seniors	8/22
Evening Registration (6-7 p.m.)	8/22
Registration for Juniors, Sophomores, Freshmen, and Unclassified Students	8/23
Instruction Begins	8/24
Late Registration	8/24-9/1
Last Day to Add a Class	9/1
Labor Day (No Classes, Offices Closed)	9/4
Mid-term Examinations	10/9-12

Fall Holiday (No Classes)	10/13
Mid-term Grades Distributed to Students	10/16-18
Last Day to Drop a Class/Change to Audit	11/3
Priority Pre-registration for Spring/Summer 2001 Classes (Open to Currently Enrolled Students Only)	11/7-17
Evening Pre-registration (6-7 p.m.) (Open to Currently Enrolled Students Only)	11/7
Veteran's Day (No Classes, Offices Closed, Exception: Classes Beginning After 4:00 p.m.)	11/11
Pre-registration for Spring/Summer 2001 Classes (Open to Currently Enrolled Students Only)	11/20-12/14
Thanksgiving Holiday (No Classes, Offices Closed)	11/23-24
Grades for Incompletes Earned in Spring or Summer 2000 Due	12/1
<b>Final Examinations</b>	12/12-15
Fall Final Grades Due by Noon	12/20

**Student Teaching Spring 2001**

Education Block Classes Begin	8/24
Last Day to Register for Block Courses	8/30
Last Day to Drop Block Courses	9/8
Education Block Courses End	8/29
Fall Student Teaching Begins	10/2
Fall Student Teaching Ends	12/14

**SPRING SEMESTER 2001**

Residence Halls Open to New Students	1/7
Residence Halls Open for Returning Students (2-5 p.m.)	1/8
New Student Orientation/Group	
Advisement/Priority Registration	1/8-9
Faculty Workshop (Morning)	1/8
Evening Registration (6-7 p.m.)	1/9
Registration	1/9
Instruction Begins	1/10
Late Registration	1/10-19
Last Day to Add a Class	1/19
Martin Luther King, Jr./Civil Rights Day (No Classes, Offices Closed)	1/15
President's Day (No Classes, Offices Closed) Exception: Classes Beginning After 4:00 p.m.)	2/19
Mid-term Examinations	2/20-23
Mid-term Grades Distributed to Students	2/26-3/2
Spring Break (No Classes)	3/12-16
Last Day to Drop a Class/Change to Audit	3/23
Good Friday	4/13
Grades for Incomplete Earned in Fall 2000	4/1
Priority Pre-registration for Summer/Fall 2001 Classes (Open to Currently Enrolled Students Only)	3/26-31
Final Examinations	5/3,4,7,8
Senior Grades Due by Noon	5/9
Graduation	5/12
Spring Final Grades Due by Noon	5/13

**Student Teaching Spring 2001**

Education Block Classes Begin	1/10
Last Day to Register for Block Courses	1/16
Last Day to Drop Block Courses	1/23
Education Block Courses End	2/16
Spring Student Teaching Begins	2/19
Spring Student Teaching Ends	5/8

# Grand Canyon University

## MISSION STATEMENT

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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

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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

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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 National League for Nursing, 61 B. Broadway, New York, New York 10006, (212) 363-5555, and the Arizona State Board of Nursing accredit the University for the Bachelor of Science in Nursing degree.

The University is a member of the Association of Southern Baptist Colleges and the Coalition for Christian Colleges and Universities.

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 turning 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 La Salle 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 early on became famous 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. Buddy Bell  
Dr. Joni Hegel  
Dr. C.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-present

## GOVERNING BODY

The University is governed by a board of trustees elected by the Arizona Southern Baptist Convention.

### 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 Creek 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 Brazzel Stadium  
David and Mildred Brazzel
- 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 Samon

- Smith Arts Complex  
C.J. and Thelma Smith
- Smith-Parker Building  
Jerry and Sarah Smith  
along with Bill and Joyce Parker
- Tell Science Building  
Mr. and Mrs. Andrew P. Tell

### Academic Facilities

Grand Canyon University consists of 33 buildings on a 90-acre campus. The campus features the Fleming Library with holdings of 117,000 books, government documents, and audio visual materials. The library has 1,174 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, and College of Business. 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.

*The Edge* and the *Canyon Alumnus* are 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.

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.)

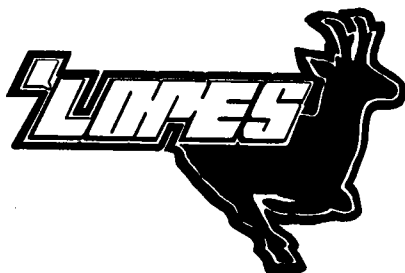
### University Seal



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

## **ADMISSION POLICIES AND PROCEDURES**

### **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:  
PO 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)  
Saturday, 9:00 a.m. to 1:00 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 our 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 one week 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. and Saturday at 10:30 a.m. (MST).

### **Student Orientation and Registration (SOAR)**

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 the SOAR program (Student Orientation and Registration), students are also 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 attend the SOAR program.

For SOAR reservation deadlines, costs, and additional information, please contact the Office of Admission. Students who choose not to take advantage of the SOAR program 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. Applications are accepted according to the following schedule:

If you plan to enter . . .	then apply . . .
Fall semester	September 1 - August 15
Spring semester	August 1 - January 1
Summer session	August 1 - May 1

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;

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 which apply to them.

**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 a 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 GPA of 3.00 on a 4.00 scale must be earned 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.

(A note about University English Placement: All new students are required to take the Writing Proficiency Examination for appropriate level placement.)

#### **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, and has not used the courses to fulfill any high school graduation requirements.

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

### **2. 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, 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.

### **3. 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 (page 38). For the Master of Arts in Teaching, Master of Arts in Education, and Master of Education see The College of Education (page 58).

## **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 need to also schedule an interview with an Admission Counselor to help clarify the student's academic goals and to 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. For example, Admission with Specification may require a student to limit the first semester's course work to 12 credit hours, meet regularly with an advisor, and/or take courses designed to develop competency in areas where improvement is needed.

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.

### **Standards for Unclassified Students**

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

4. American College Test (ACT) or Scholastic Aptitude Test (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.

7. Writing Proficiency Examination.

Grand Canyon University takes proficiency in basic skills very seriously. As such, all students must take the Writing Proficiency Exam (WPE) before they are allowed to register for classes.

All freshman students complete a grammar exam at Grand Canyon University, and the composite scores of the grammar exam and their ACT or SAT score determines their placement in composition. If an ACT or SAT score is unavailable, or if students wish to petition their placement, they will write a short essay.

For test dates and times, students should contact the WPE Administrator or the Office of Admission.

All students must satisfy the WPE requirement to graduate from Grand Canyon University.

### **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 Applications for Admission received without an application processing fee will not be considered until the fee is received.



## 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.

### 6. Writing Proficiency Examination.

Grand Canyon University takes proficiency in basic skills very seriously. As such, all students must take the Writing Proficiency Examination (WPE) before they are allowed to register for classes. This includes undergraduate students who have taken freshman English elsewhere. All transfer students complete a grammar exam and write a short essay at Grand Canyon University. Placement is based on the student's scores on both the grammar exam and short essay. For test dates and times, students should contact the WPE Administrator or Office of Admission. All students must satisfy the WPE requirement to graduate from Grand Canyon University.

## 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, and students entering under the direct transfer plan must meet all the requirements of Grand Canyon University's Writing Proficiency Examination.

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 must complete the specified liberal arts requirements listed in the College of Business 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.

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) 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.

### **Re-Admit**

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 Readmission Application.

A Readmission 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 undertaken 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. A non-refundable application processing fee.

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

4. 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 reentering 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. In cooperation with the National Association of Foreign Student Advisors (NAFSA), an international student advisor has been designated at Grand Canyon University. Requests for information or application forms should be addressed to:

Office of Admission  
Grand Canyon University  
3300 West Camelback Road  
PO Box 11097  
Phoenix, Arizona 85061-1097, 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 EASE 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 Business Office. 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 Housing  
Grand Canyon University  
3300 West Camelback Road  
PO Box 11097  
Phoenix, Arizona 85061-1097, 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.

2. EASE Program.

This category is for students desiring to study in the United States who have not attained a TOEFL score of at least 500, as required for most undergraduate programs, or higher for respective undergraduate and graduate programs in the College of Business, the College of Education, and the Samaritan College of Nursing, or students choosing to attend the University for language training.

After satisfactory completion of the EASE program, students may receive a recommendation from the EASE 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 International Student Application for Admission.

All prospective international students must complete and sign the International Student Application for Admission. It is important that they 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 by the Office of Admission 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 transcript.

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 or the Office of the Registrar, and are included in the International Student Application for 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 in attendance.

3. TOEFL score report.

If prospective students' native languages are other than English, their official score reports for the Test of English as a Foreign Language (TOEFL) must be sent directly to the Office of Admission from the testing center. They must present a score of at least 500 to be considered for admission as an undergraduate. In order to be considered for admission into the College of Education to seek teacher certification as an under-graduate, they must present a TOEFL score of at least 550. In order to be considered for admission into the College of Education graduate program, they must present a TOEFL score of at least 550. To be considered for admission into the Teaching English as a Second Language (TESL) graduate program, they must present a TOEFL score of at least 575. In order to be considered for admission into the College of Business undergraduate programs, they must present a TOEFL score of at least 550. In order to be considered for admission to the College of Business graduate program, they must present a TOEFL score of at least 575. In order to be considered for admission into the Samaritan College of Nursing, they must present a TOEFL score of at least 550. This requirement may be satisfied by a recommendation from the EASE faculty at Grand Canyon University, upon successful completion of the EASE 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. American College Test (ACT) or Scholastic Aptitude Test (SAT) scores.

ACT or SAT scores are required of all international students with less than 24 hours of transferable college or university credit. 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 your high school counselor. Grand Canyon University's ACT code is 0092; our SAT code is 4331.

## 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 not related 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 by the Office of Admission, 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. A 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. The cost of attending the University and living in Phoenix is currently estimated at \$16,000.00 (US dollars) per year, or \$14,500.00 (US dollars) if a student goes home for the summer. Students must provide documented evidence that they have sufficient funds to meet these expenses. A Financial Guarantee form, 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 current Measles, Mumps, and Rubella (MMR) immunization.

Students must provide a completed Health History form and 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.

## 8. Confirmation Deposit.

As a final confirmation of intent to attend Grand Canyon University, students are required to make a \$7,000.00 (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 Wilmont Road  
Tucson, Arizona 85711, USA  
ABA #122105320  
Branch #100  
Account #0140001654  
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 Office of

Admission will issue an I-20 to the student.

## EASE Program

Grand Canyon University offers an innovative program designed for students desiring to study in the United States and who have not attained a TOEFL score of at least 500. The program, called Learning with EASE (English Adjustment Skills and Experience), is designed to assist students with learning English, cultural adjustment, and skills other than English which are necessary for success in the university environment. Students who meet the score of 500 on the TOEFL but do not meet University academic requirements may also be accepted into the EASE Program.

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 EASE faculty after successful completion of the EASE program. 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 International Studies Director, some students are allowed to simultaneously enroll in EASE and academic courses.

To apply, students should complete steps 1-8 above under "Pursuit of Degree." They should indicate that they wish to enroll in the EASE program on the International Student Application for Admission.

For more information about the University's EASE program, contact:

Center for International Education  
Grand Canyon University  
3300 West Camelback Road  
PO Box 11097  
Phoenix, Arizona 85061-1097, USA  
Phone: (602) 589-2808  
FAX: (602) 841-8771

NOTE: Acceptance into the EASE Program 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 the Registrar showing how the courses they 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 the University's 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 to a particular course offered at the University.

If the Office of the Registrar 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 was awarded on the evaluation, 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 was 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 were earned may be used in some cases to meet general studies requirements, or as a prerequisite for another course with the approval of the instructor. However, 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 Office of Admission and the Office of the Registrar.

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, and all work will be considered lower division. Credit will not be awarded if the student had 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 College of Continuing Studies, 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 Affairs Committee. Petitions are available from the Office of the Registrar.

The University's College of Continuing Studies offers some programs whose policies vary from those listed above. Please contact that 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.

All award policies listed below were up to date when this catalog was printed, but are subject to re-evaluation and change without notice.

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 the Registrar for score requirements and credit evaluations.

### **Advanced Placement (AP)**

Exam	Score	Credit Hours
Biology	5	8 (BIO 181/182)
	4	4 (BIO 181)
	3	4 (BIO 100)
	2-1	None
Chemistry	5	8 (CHM 113/115)
	4	4 (CHM 113)
	3	4 (CHM 101)
	2-1	None
Computer Science AB	4-5	6 (CSC electives)
	3	3 (CSC elective)
	1-2	None
Computer Science A	4-5	3 (CSC 100)
	1-3	None
English Language, Literature/Composition	4-5	6 (ENG 101/102)
	3 + pass writing exam	0 (ENG 101/102 waived; but must complete six hours of English electives)
	1-2	None
French, German or Spanish Language	4-5 + dept. conference	12-16 (FRE/GER/SPA 101/102/201/202)
	3 + dept. conference	Possible lower division SPA credit
	1-2	None
Government and Politics - United States	5	3 (POS 252)
	1-4	None
History - European	5	6 (HIS 105/106)
	4	3 (HIS elective)
	1-3	None
History - United States	5	6 (HIS 103/104)
	4	3 (HIS elective)
	1-3	None
Mathematics - Calculus AB	4-5	8 (MAT 270/271)
	3	4 (MAT 210)
	1-2	None
Mathematics - Calculus BC	4-5	12 (MAT 270/271/272)
	3 + dept. conference	4-8 (possible lower division MAT credit)
	1-2	None

## Physics B

5	8 (PHY 111/112)
4	4 (PHY 111)
3	4 (PHY 101)
1-2	None

## Physics C

5	4 (PHY 115)
4	4 (PHY 111)
3	4 (PHY 101)
1-2	None

## College Examination Program (CLEP)

General Examination	Score	Credit Hrs.	Equivalency
English Composition (1978 scale)	610	6	ENG 101/102
English Composition (1986 scale)	500	6	ENG 101/102
Humanities	500	6	Humanities electives
Mathematics	500	6	MAT electives
Natural Sciences	500	6	Science electives
Social Science and History	500	6	Social Science electives
Subject Examination	Score	Credit Hrs.	Equivalency
American Government	50+	2	POS 252
American History I	50+	3	HIS 103
American History II	50+	3	HIS 104
American Literature	50+	3	ENG elective
Analysis and Interpretation of Literature	50+	3	ENG elective
Calculus w/ Elementary Functions	60+	4	MAT 210
College Algebra	50+	3	MAT elective
College Algebra and Trigonometry	50+	3	MAT elective
College Composition	50+	3	ENG elective
College French	42-51	8	FRE 101/102
	52-80	16	FRE 101/102/201/202
College German	42-51	8	GER 101/102
	52-80	16	GER 101/102/201/202
College Spanish	42-51	8	SPA 101/102
	52-80	16	SPA 101/102/201/202
English Literature	50+	3	ENG elective
General Biology	50+	8	BIO 181/182
General Chemistry	50+	8	CHM 113/115
Human Growth and Development	50+	3	PSY 341 (counts as lower division)
Introduction to Educational Psychology	—	0	None
Introductory Accounting	50+	6	ACC 211/212
Introductory Business Law	50+	3	BUS elective
Introductory Marketing	—	0	None
Introductory Psychology	50+	3	PSY 101
Introductory Sociology	50+	3	SOC 101
Principles of Macroeconomics	60+	3	ECN 201
Principles of Management	—	0	None
Principles of Microeconomics	60+	3	ECN 202
Trigonometry	50+	3	MAT elective
Western Civilization I	50+	3	HIS 105
Western Civilization II	50+	3	HIS 106

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 with the University's Business Office before the student's registration is official. 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.

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 charges, without 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 cafeteria are closed during Thanksgiving and Christmas holidays, Spring Break, and between the close of the first Summer session and the opening of the Fall semester.

## 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

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 chronic 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.) Waiver forms are available in the Business Office. When submitting a waiver students must attach front and back copies of their insurance cards and return them to the Business Office by the posted term deadline. An approved insurance waiver is only valid for one semester. A new waiver must be requested for all subsequent semesters. All waivers are subject to verification and approval.

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

Coverage for additional family members may be purchased at the University's Business Office.

Those students taking less than 12 credit hours, College of Continuing 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 the Registrar. 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 the Registrar. This form is available in the Office of the Registrar. Tuition refund is subject to the Refund Schedule and is calculated on the date the completed withdrawal form is received in the Office of the Registrar. A complete withdrawal fee will be charged to the student.

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 the Registrar. Students may also appeal for dropped course according to the same criteria.

### **Financial Aid**

Drops and complete withdrawals may reduce a student's eligibility for financial assistance. Resulting refunds are subject to the regulations governing Federal Title IV aid; all or part of the refund given must be returned to the program(s) from which financial assistance was received. This policy shall be applied on a consistent basis to all students receiving financial assistance. The funds returned will be distributed to the various Federal Title IV aid programs based on the following priority schedule:

### **REFUND DISTRIBUTION — Prescribed by Law and Regulation**

#### **TOTAL REFUND**

1. Federal SLS Loan
2. Unsubsidized Federal Stafford Loan
3. Subsidized Federal Stafford Loan
4. Federal PLUS Loan
5. Unsubsidized Federal Direct Stafford
6. Subsidized Federal Direct Stafford Loan
7. Federal Direct PLUS Loan
8. Federal Perkins Loan
9. Federal Pell Grant
10. FSEOG
11. Other Title IV Aid Programs Loan
12. Other Federal, state, private, or institutional aid
13. The Student

Students who reduce their course load during the refund period may be subject to repayment or recalculation of financial assistance. The portion of a refund allocated to a program will not exceed the amount a student received from that program. Any portion of a refund allocated to a loan made under the Stafford or PLUS programs must be returned to the lender. If a student withdraws, drops out, or is expelled from school before the first day of classes, any Title IV funds the institution disbursed to the student for non-institutional costs except for Federal Work Study (or loan funds) automatically become an overpayment and must be returned to the program from which they were awarded. A temporary hold will be placed on the student account in the University's Business Office until the refund process is completed.

### **Refunds and Fees**

#### **Fees for Withdrawals and Dropped Courses**

Complete withdrawal fee.....	\$25.00
Drop fee.....	\$10.00

#### **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. Contact the Director of Housing for further information on room and board refunds.

### **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, an undergraduate student must be enrolled in a degree granting course of study, be in good standing and making satisfactory academic progress (as defined later in this catalog), and not be in default or delinquent on any loan plan with the University, state, or federal government. Also, he or she must not owe a refund on grants previously received under the Pell Grant, the Federal Supplemental Educational Opportunity Grant, or the State Student Incentive Grant.

### **Application Process**

The University uses the Free Application for Federal Student Aid (FAFSA). This form may be obtained from the Office of Financial Aid, other financial aid offices, 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. A completed financial aid file includes the following:

1. A completed/processed Application for Admission received at the Office of Financial Aid,

2. A completed FAFSA,
3. Financial Aid Transcripts from all schools attended,
4. Verification of application data (only if required),
5. Completed tax returns, additional worksheets, and other relevant information (only if required).

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.

### **Determination of Financial Aid**

After the Office of Financial Aid has received the appropriate forms listed above, the student's financial need and the types of awards for which he or she qualifies will be determined from the information obtained.

Financial need is the difference between the cost of attending the University and the resources available to the student.

Thus, Financial Need (FN) equals Cost of Attendance (CA) minus Parental Contribution (PC) and Student Contribution (SC).

$$FN = CA - (PC + SC)$$

All students normally will be expected to contribute toward their cost of education from summer earnings and from employment during the academic year. (If it is not in the student's best interest to work, or if employment alone will not complete eligibility, other types of gift aid (grants, scholarships, etc.) will be considered if available.) The Office of Financial Aid will make every effort to meet the financial need of each student. Financial Aid Counselors are available to discuss the student's contribution, family contribution, or any other questions that may arise.

### **Award Procedures**

For financial aid programs in which need is the factor in determining eligibility, the Federal Pell Grant is considered first. If a student's need is not fulfilled with the Pell, the Supplemental Educational Opportunity Grant (SEOG) is the next form of aid considered.

A student who is eligible for Federal Work Study (FWS) will be notified of potential eligibility. The student is also sent instructions on how to find a FWS position. The FWS awards will then be made once a job has been obtained, as long as funds are available. When gift aid funds have been depleted, loans will be the source used to fill the remaining need. All packaging of financial aid is on a "first come, first served" basis.

### **Financial Aid and Academic Load**

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. Scholarship recipients must be enrolled full-time at Grand Canyon University. Courses taken at other colleges do not count as enrollment at Grand Canyon University for financial aid/scholarship purposes.

### **Keeping the Office of Financial Aid Informed**

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. Address changes and changes in the academic course load must also be reported to the Office of Financial Aid.

### **Satisfactory Academic Progress**

All students are required to maintain satisfactory progress toward their educational objectives in order to be eligible for all institutional, federal, and state financial aid. (Athletic Grants-In-Aid will be based on the requirements of the NCAA, as well as this policy). Satisfactory progress is defined in both qualitative and quantitative terms.

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



Graduate students must maintain a minimum cumulative GPA of 3.00 for all coursework at Grand Canyon University.

**Quantitative:** Students receiving financial aid must make positive movement toward their degree. Federal Regulations indicate that the maximum time frame students may take to complete their program is 150% of the published length of the program. Grand Canyon University publishes the required number of credit hours for each program. To determine if students are making satisfactory academic progress quantitatively they can take the required number of hours for their degree, take 150% and make sure they will graduate before they attempt that many credits. For example, assume their degree takes 128 hours to complete. One hundred and fifty percent of 128 is 192 hours. Students must complete their degree in less than 192 attempted hours. Federal regulations also require that progress be evaluated at the end of each increment. Progress will be evaluated after the Spring semester for all students except for those students enrolled in the Continuing Studies Program. Summer school is the beginning of the academic year for purposes of financial aid and will be evaluated along with that academic year. Continuing Studies students will be evaluated at the end of the first semester. In order to be making satisfactory academic progress at the end of each year, students must earn credit for at least 67% of their attempted courses. Incomplete courses do not count as earned credit, but do count as an attempted course. Withdrawals do not count as earned credits or attempted credits. Repeating courses will count as earned hours toward the maximum hours allowed. Non-credit remedial courses do not count as courses attempted or credits earned.

Transfer and readmitted students must follow the above mentioned satisfactory academic progress. Prior credits will be calculated into the allotted 150%. Transfer credits will not be calculated into the 150%.

Students who fail to maintain satisfactory progress, either qualitative or quantitative, will be placed on probation. While on probation, a student may continue to receive financial assistance. Students on probation must resolve their unsatisfactory academic progress pursuant to the criteria outlined in the notice of probation or they will be put on suspension. However, probation cannot be lifted as it does not stop students from receiving aid. Students on suspension may not receive any financial assistance. To have suspension lifted, students must resolve their unsatisfactory academic progress pursuant to the criteria outlined in the notice of suspension. Students may appeal the determination that they are making satisfactory academic progress to the Office of Financial Aid. Students may also appeal suspension on the basis of extenuating circumstances that prevented them from accomplishing satisfactory academic progress by completing a Financial Aid Appeal form. The Financial Aid Committee will review all extenuating circumstance appeals on a regular basis.

All students on suspension who complete the criteria outlined in the notice of suspension must inform the Office of Financial Aid. The Office of Financial Aid will review the relevant information and issue a determination.

#### **Students Must:**

1. Review and consider all information about the school's program before they enroll.
2. Accurately complete all application forms and return them to the appropriate office/agency on time.
3. Pay special attention to and accurately complete their application for student financial aid. Errors can result in long delays in the receipt of financial aid. Intentional misrepresentation of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the US Criminal Code.
4. Return all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Officer or the agency to which they submitted their application.
5. Read and understand all forms they are asked to sign and keep copies of them.
6. Accept responsibility for all agreements they sign.
7. Notify the lender of changes in their name, address, or school status if they have a loan.
8. Perform the work that is agreed upon in accepting the University Award Letter.

9. Know and comply with deadlines for application and reapplication for aid.

10. Know and comply with the University's refund procedures.

11. Maintain good standing and satisfactory academic progress.

Funding for all Grand Canyon University scholarships is limited. It is recommended that the Free Application for Financial Aid be completed immediately after January 1 and the Admission Application be completed prior to that date.

#### **Students May Expect to Receive Information on:**

1. What financial assistance is available, including information on all federal, state, and institutional financial aid programs.

2. The deadlines for submitting applications for each of the financial aid programs available.

3. The cost of attending the institution and the University's refund policy.

4. How the University determines their financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc. are considered in their budget.

5. What resources (such as parental contribution, financial aid, their assets, etc.) are considered in the calculation of their need.

6. How much of their financial need, as determined by the institution, has been met.

7. The various programs in their student aid package. If they believe they have been treated unfairly, they may request reconsideration of the award which was made to them.

8. What portion of the financial aid they received must be repaid, and what portion is grant aid. If the aid is a loan, they have the right to know what the interest rate is, the total amount that must be repaid, the payback procedures, the length of time they have to repay the loan, and when repayment begins.

9. How the University determines whether they are making satisfactory progress, and what happens if they are not.

## **SCHOLARSHIPS**

The purpose of the academic scholarship program is to enable undergraduate students to complete their bachelor degrees. It 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 would apply for the necessary additional hours required to earn the degree. However, the 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 and needs fewer than full-time credits to graduate. In this case the scholarship will 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.

If students use the scholarship award to pay the tuition for a course and then withdraws, the award will be adjusted accordingly.

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 after eligibility.

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 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.

### **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 3.25 cumulative 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 a National Merit Finalist, may apply for one of a specified number of 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 are available in the Office of Admission and the Office of Financial Aid and must be completed and returned to the Office of Admission by March 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 and had the equivalent of a 3.75 GPA in college courses completed. These allowable credit hours would reduce the hours of the scholarship award proportionately.

Students who are chosen to receive this scholarship will be required to participate in the University's Honors Program. See page xx 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 3.75 cumulative 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. The student participates in the University's Honors Program.

### **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 or SAT combined score at or above the 95th percentile nationally.

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 3.50 cumulative 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.

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 3.25 cumulative 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 3.50 cumulative 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 3.25 cumulative 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.

### **Church Matching Scholarships**

The University will match dollar-for-dollar, up to \$500 per year, for each dollar given by a student's Southern Baptist Church.

### **Denominational Workers Dependent Scholarships**

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

1. A 2.00 cumulative 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.

### **Convention Scholarships**

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

1. A 2.00 cumulative 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.

### **Boy Scout Eagle**

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

1. A 3.00 cumulative Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.

### **Girl Scout Gold Award Scholarship**

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

1. A 3.00 cumulative Grand Canyon University GPA is maintained.
2. The student remains continuously enrolled full-time at Grand Canyon University.

### **Acteen Scholarships**

Students interested in an Acteen Scholarship should see the Office of Financial Aid for details.

### **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.

### **Other Institutional Scholarships**

Special ability scholarships are available in the areas of Business, Nursing, Gerontology, Art, Drama, Speech, and Music. 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 2.00 cumulative 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 requirements for any of these scholarships is a 2.00 cumulative 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-Llamas Hispanic Scholarship  
Asian Scholarship  
N.E. and Lora Barker Scholarship Fund  
Fred R. and Dorothy G. Barnes Scholarship  
Ernest I. and Eurice Bass Scholarship Fund  
Dr. George C. Beakley, Jr. Scholarship  
Beck Memorial Scholarship  
Woodrow and Letress Berryhill 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  
Harold Dye Family Scholarship  
Glenn Eason Educational Scholarship  
David H. Eaton Scholarship  
Evans-Griffin Scholarship  
Martha Frances Memorial Scholarship  
Frank and Elsie Frazier Indian Scholarship  
Wesley and Lola Freeburg Scholarship Fund  
Pam Gardner Memorial 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  
J.W. Kieckhefer Endowed Scholarship  
Richard A. Jackson Scholarship  
Rob Jones MBA Scholarship  
Tom S. Kent Family Scholarship Fund  
D.C. Martin Scholarship Endowment Fund  
Mildred Mitchell Martin Scholarship  
Paul and Esther McCarty Memorial Scholarship  
Mary McDowell Ministerial Scholarship  
Fannie Mae Meredith Music Scholarship  
Carl Paetz Memorial Scholarship  
Crystle Paetz Nursing Scholarship  
Joyce Daily Parker Scholarship  
Ken and Diane Miller Scholarship Endowment Fund  
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  
Willis J. and Ida M. Ray Memorial Scholarship  
Mack D. and Bonnie Jean Reagan Business Scholarship  
Riddle Endowed Scholarship Fund  
Reverend William D. Rummel Memorial Scholarship  
Marci Salmon Education Scholarship  
Tim Salmon Business Scholarship  
C.J. and Thelma B. Smith Ministerial Scholarship  
Jerry D. Smithey Business Scholarship  
A.L. Stoker Memorial 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  
Howard Relfe Memorial Scholarship  
Dorothea Van Deusan Opdyke Scholarship  
Eurice M. Bass Foundation  
Phelps Dodge Scholarship  
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. In addition, students may receive a nontaxable \$150 allowance each month during the school year while on scholarship status. Students who are not on ROTC scholarship but are enrolled in the last two years of ROTC also receive the \$150 allowance. Scholarships are available on a four-, three-, and two-year basis. To qualify for four-year scholarships, students must be US citizens and submit an application prior to December 1 of their senior year of high school. For information contact the Air Force and Army ROTC detachment at Arizona State University or the ROTC office on campus:

Army ROTC at Grand Canyon University (602) 589-2550, USAF at Arizona State University (602) 965-3181, or Army at Arizona State University (602) 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 Tribe of the respective student. The tribes also require the student to submit an application for Federal Aid to the Office of Financial Aid. Each tribe 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.

### **Arizona Southern Baptist Convention Ministry-Related Vocations Scholarships**

Those eligible to apply are Grand Canyon University full-time students pursuing ministry-related vocations, e.g. pastors, ministers of education, ministers of music, ministers of youth, missionaries related to Southern Baptist denominational missions agencies, and vocational workers with Southern Baptist missions educational agencies. Those applicants who already have an undergraduate degree in any field are ineligible for this scholarship.

The purpose of this scholarship is to encourage and assist ministry-minded students in fulfilling their biblical calling by furthering their training at Grand Canyon University.

Applications and information regarding eligibility for this program may be obtained from the Office of Financial Aid. Applications must be submitted before July 1 for the Fall semester and January 1 for the Spring semester, and must be applied for each semester.

### **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 outright gifts of money and are awarded on the basis of financial need. A student's financial package may include grant money whenever guidelines and funding levels permit.

### **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 this grant by using the application for Federal Student Aid. 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. The application procedure is described in the "Financial Aid Application Process" section.

### **Arizona State Grant Program (ASG)**

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. The application procedure is described in the "Financial Aid Application Process" section.

## **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 debt burden, the Office of Financial Aid is of the opinion that the loan debt was contracted to the student could invest in him or herself.

### **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. 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 Stafford Loan Program (GSL)**

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.*

### **Annual and Aggregate Loan Limits**

	Dependent Status Maximum Federal Stafford (Sub & Unsub)	Independent Status Maximum Federal Sub Stafford	Academic Year Maximum Federal Stafford (Sub & Unsub)
<b>Annual Limits</b>			
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
<b>Aggregate Limits</b>			
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 by regulation every July 1. See the Office of Financial Aid for current rates. Repayment begins six months after the borrower ceases to be enrolled at least half-time with monthly payments of not less than \$50, but with a maximum repayment time of ten years. Students must meet general eligibility requirements and be enrolled at least half-time. Applications are

### **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 Stafford and PLUS loans regardless of loan amount or length of time remaining in the loan period. This applies to all loans guaranteed on or after January 1, 1990 for loan periods beginning on or after that date. Within this time period, the disbursement of the student loans shall be in no less than two disbursements. The Office of Financial Aid will post a schedule of expected disbursements at the beginning of each session. This schedule is dependent upon the receipt date of the loan application and may vary accordingly.

### **Disbursement of Student Loans to First Year Students**

The United States Department of Education requires that the school may not deliver the first installment of a Stafford Loan to an undergraduate student who has not successfully completed the first year of the program of education in which the student is currently enrolled until 30 days after the first day of classes, and only if it then certifies in the student's file that the student continues to be enrolled, is in attendance, and is maintaining satisfactory progress. "Delivery" includes crediting the student's account as well as providing funds directly to the student.

### **Students Receiving Over-awards**

The University will withhold and promptly return to the lender any Stafford disbursement not yet delivered to the student which exceeds the amount of assistance for which the student is eligible, taking into account other financial aid obtained by the student. Instead of returning the entire disbursement, the school may return to the lender only that portion of the disbursement for which the student is ineligible.

### **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 Job. Positions are posted daily on the northeast outside wall of the Office of Student Life.

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

Employment Guides are also available in 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 in number.

### **Non-Federal Work Study**

Non-Federal Work Study positions do not require a financial aid

need, nor is it necessary to fill out a financial aid packet in order to obtain these positions. These on-campus positions are limited in number.

### **Part-Time Jobs Off-Campus**

After viewing the job board students must register at the front desk, in the Office of Student Life, to obtain remaining information about 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**

The Cooke Health Center is an outpatient health facility. It is staffed by a registered nurse who is certified in college health and physicians who also have private practices. Laboratory, X-ray, pharmacy, and emergency room services are available off campus. A referral service for emotional/mental health needs is available to students. Visits to see a physician at the Cooke Health Center are included in the student's general fee.

### **Residence Life/Housing**

Any student officially admitted to Grand Canyon University is eligible to apply for campus housing. We offer both residence hall and apartment housing.

All unmarried freshman students who are under 20 years of age and who carry 12 credit hours or more are required to live in residence housing. Exceptions are made for those students who live with their parents, guardians, or close relatives. Freshmen are required to live in residence halls and sophomores may apply for the apartments, if space is available. The residence hall environment is best suited for students under the age of 25. Older students are encouraged to live in the North Rim Student Apartment Complex. Room and board charges for

students who reside in a residence hall includes a meal plan of either 21 meals per week or 14 meals per week.

Residence halls are closed during Thanksgiving, Christmas, and Spring Break. The residence halls are available in the summer for Summer Session I only if a sufficient number of students apply for residency. The halls are closed from the end of Summer Session I to the beginning of the Fall semester.

Apartment housing, furnished and unfurnished, is available to students who are 20 years of age or older or of sophomore status. Priority is given to married students, families, and students with a senior or junior classification. Students who reside in the North Rim Student Apartment Complex are required to carry at least 12 credit hours. Roommate selections for the apartments are made by the student, not the University. All utilities, including access to local telephone service and basic cable television, are included in the monthly rent.

A completed application and deposit is required for placement in campus housing. Additional information regarding housing may be obtained by contacting Housing Office, PO Box 11097, Phoenix, Arizona 85061-1097.

### **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.

Each student taking nine hours or more is required to attend a minimum of ten chapels per semester. Evening students, those already possessing a degree, and those whose off-campus internships and teaching practicums conflict with the chapel schedule may apply for chapel exempt status.

Students are encouraged to participate in local churches as a part of their total experience. Many opportunities are offered on campus to become involved in the spiritual aspect of campus life. Some of these opportunities on campus are found within the Baptist Student Union (BSU), Christian Ministries Association (CMA), the Fellowship of Christian Athletes (FCA), and numerous small Bible study and Discipleship groups.

### **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 eight intercollegiate sports, sponsoring four sports each for men and women. Women's teams compete in soccer, volleyball, basketball, and tennis. 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 cafeteria provides meals during the academic year. It is closed when the University is not officially in session (during Thanksgiving, Winter Break, Spring Break, and Summer Break).

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

Light lunches 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, Office of Student Life, 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 Administration 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, Office of Student Life, 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, ping pong, frisbee golf, basketball, water volleyball, 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, TWIRP, 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. Interviews are held each Spring to determine council leadership; applications are available in the Office of Student Life.

### **Publications**

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

## **GENERAL ACADEMIC REGULATIONS**

### **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 College of Continuing Studies should be aware that some specific

policies are different for that college only. 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 the Dean of the College of Continuing Studies 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 checklist, available upon request in the Office of the Registrar, 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 programs within the College of Continuing Studies 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 25 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 31).

*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 the Registrar 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 the Registrar.

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 the Registrar. 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 the Registrar. 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.

Courses in the College of Continuing Studies 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' advisor and the Office of Financial Aid. After the semester begins, no changes in course schedules is 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. **Refunds are determined by the date the student files a completed withdrawal form with the Office of the Registrar.** (See the schedule of refunds beginning on page 13)

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 pages iv-v.

### Course Load

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

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

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 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 have employment other than school work should not take more than 15 hours of college work 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 Chief Academic Officer 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.

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



### **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 years. 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 "F" earned at Grand Canyon University may be removed only by repeating the course at Grand Canyon University.

A student may be permitted to repeat a course in order to raise an earlier grade of "D." The last grade earned is considered the grade of record as it pertains to credit toward graduation.

It is the student's responsibility to file a Repeat Form in the Office of the Registrar. This form must be filed at registration or during the semester in which the course is repeated.

### **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 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 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 GPA of 2.00 is required.

### **Procedures for Special Study Courses**

Students should:

1. Obtain the proper special study form from the Office of the Registrar (the Office of the Registrar 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 the Registrar 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 the Registrar. 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 the Registrar and obtain all signatures indicated on the form. 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." A student withdrawing from some but not all courses must do so before the date specified in the Academic Calendar (see "Dropping Courses," page 22).

### **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 College of Liberal Arts 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 the Registrar 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 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 GPA of 3.00 for graduation.

The regulation concerning grades on college work taken elsewhere is given on pages xx.

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

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 Superior; extraordinary scholarship; outstanding performance
- B Far above average; unusually good work
- C Average; standard performance; acceptable college work
- D Passing; but below standard
- F Failure or unauthorized withdrawal
- I Incomplete (see page 24)
- W Authorized withdrawal; no credit
- Cr Credit given, but no grade or quality points
- S Satisfactory completion of audit or non-credit course
- U Additional work needed to meet requirements in non-credit or non-grade course
- NR Not reported by instructor
- IP Course currently in progress

### 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. (See page 23 for more information.)

### 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; "B," three 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," "B," "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" 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 the Registrar, 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 the Registrar. 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.) An undergraduate student who qualifies for the Dean's List during any semester may audit one course within the next calendar year without charge. The audit privilege covers the regular audit fee for any course, regardless of the number of semester hours. It does not cover class fees or any University fees.

#### 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 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

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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 27).

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 xx). 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 the Registrar.

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

- Applied Music (Music Performance)
- Art Education
- Biblical/Theological Studies
- Biochemistry
- Christian Education
- Communications
- Creative Arts in Worship
- English Literature
- English Teaching
- Graphic Design
- History
- International Studies
- Political Science
- Social Sciences
- Speech/Theatre
- Studio Art
- Theatre/Drama

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

- Accounting
- Finance
- International Business
- Management
- 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
- 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  
 Martial Arts  
 Mathematics  
 Mathematics (Engineering)  
 Mathematics (Secondary Teaching)  
 Music Education  
 Organizational Sociology  
 Physical Education  
 Physical Education (Teaching)  
 Physical Science  
 Physics (Secondary Teaching)  
 Psychology  
 Recreation  
 Science for Elementary Teachers  
 Secondary Education  
 Sociology  
 Special Education  
 Speech Teaching  
 The Bachelor of Science in Nursing is granted to majors in nursing.

#### **Minors Offered**

Athletic Coaching  
 Behavioral Sciences  
 Biology  
 Biophysical Science  
 Business  
 Chemistry  
 Christian Studies  
 English  
 Exercise Science  
 Fire Science  
 German  
 Health Education  
 History  
 Humanities  
 Justice Studies  
 Leadership Studies  
 Mathematics  
 Music  
 Philosophy  
 Physical Education  
 Physical Education - Martial Arts  
 Physics  
 Political Science  
 Pre-Law  
 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. In determining graduation requirements, a student may use only one catalog.

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.

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, even if they have remained in continuous enrollment.

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 the Registrar.

#### **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 four year 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 far ahead to take courses when they are offered. The University reserves the right to cancel any scheduled class due to insufficient enrollment or other reason. 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 an option or 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 the Registrar.

Graduate students must file an Intent to Graduate form with the

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Office of the Registrar at least one semester prior to their anticipated graduation date.

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

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

### **Commencement Exercises**

#### **Academic Regalia**

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

#### **Attendance**

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 the Registrar 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 the Registrar prior to March 15 to account for all outstanding requirements. Once the plan has been approved by the Office of the Registrar, 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 the Registrar and the Academic Affairs Committee.

#### **Grade Requirements for Graduation**

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

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

#### **Correspondence and Extension Credit**

Record of all correspondence and extension work transferred from another institution must be filed with the Office of the Registrar prior to enrollment in the final semester before graduation. (See page 23 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, 46 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, 34 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, 69 semester hours of professional prerequisites, and 20 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.

#### **Total Hours**

The total number of semester hours for a Master of Arts in Education degree is not to exceed 38. 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 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 2.00 GPA in their majors and are not permitted to count any course with a grade below 2.00 toward their majors. Higher GPAs are required by specific departments/colleges.

Graduate students must maintain a 3.00 GPA.

#### **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 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.

#### **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)

- |   |                 |
|---|-----------------|
| <b>I. Christian Perspectives:</b>                   | <b>6 hours</b>  |
| 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)      |                 |
| <b>II. Communication:</b>                           | <b>10 hours</b> |
| A. English — 6 hours*                               |                 |
| ENG 101 Academic Writing (3)                        |                 |
| 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)     |                 |
| <b>III. Heritage</b>                                | <b>6 hours</b>  |
| 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               |                 |
| <b>IV. Personal and Social Environment</b>          | <b>3 hours</b>  |
| Any economics (ECN), foreign language (FRE,         |                 |
| GER, SPA, etc.), geography (GEO), political science |                 |
| (POS), psychology (PSY), or sociology (SOC) course  |                 |
| <b>V. Mathematical Inquiry</b>                      | <b>3 hours</b>  |
| MAT 120 Intermediate Algebra or                     |                 |
| higher mathematics course                           |                 |
| <b>VI. Scientific Inquiry</b>                       | <b>4 hours</b>  |
| Any biology (BIO), chemistry (CHM),                 |                 |
| geology (GLG), or physics (PHY) course              |                 |
| which contains a laboratory component               |                 |
| <b>VII. Fine Arts</b>                               | <b>3 hours</b>  |
| Any art, music, or theatre course                   |                 |

**Total University Liberal Arts Foundation Requirements: 35 hours\*\***

\* Students whose Writing Proficiency Examination (placement test)

scores place them 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 32 hours for those students.

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

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 should be consulted when the Office of the Registrar 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
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	<u>1 hour</u>
	<b>16 hours</b>

##### Second Semester:

UNV 304/UNV 305/UNV 306/or BIB 123	3 hours
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	<u>3 hours</u>
	<b>16 hours</b>

\*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.

\*\*Some students may initially be placed in a different course as the result of their performance on the Writing Proficiency Examination (WPE). That placement should be followed and ENG 101 and ENG 102 postponed until the WPE is mastered.

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	<u>6 hours</u>	<u>13 hours</u>
	15 hours	16 hours
Junior Year:	Fall	Spring
major, minor, electives	<u>17 hours</u>	<u>16 hours</u>
	17 hours	16 hours
Senior Year:	Fall	Spring
major, minor, electives	<u>17 hours</u>	<u>16 hours</u>
	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 made 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 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. See page 26 for these exceptions. Of these 18 hours, six must be from upper division courses.

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 27).

#### **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 the Registrar 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. (Second degree students are exempt from taking the Writing Proficiency Examination.)
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 the Registrar 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 the Registrar 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.

## **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 may be available on a limited basis. Students should consult first with the instructor of the course in which they are having difficulty. The instructor may refer the student elsewhere as appropriate.

#### **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, approximately 700 of Grand Canyon University's students, faculty, and staff have traveled to over 35 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 real 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.

### **Study Abroad and International Programs**

**Argentina**—Grand Canyon University sends students to the Patagonia area of Argentina in the summer to conduct recreational activities with missionaries in a large sports facility.

**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. Students are required to take a class in methods of teaching ESL and may receive practicum credit as well.

**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 summer 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 the 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 to its international student body: long and short term programs, including the Master of Arts degree in several disciplines; graduate and undergraduate semesters abroad; and 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.

**Kazakhstan**—A relationship exists with the Kazak Ministry of Education allowing Grand Canyon University students to study at any of the universities in this second largest republic of the Commonwealth of Independent States. Kazak students come to Grand Canyon University's campus under this exchange program.

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

**Mexico**—A relationship with the Universidad Kino in Phoenix's sister city of Hermosillo offers six 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**—Two programs are in effect in the United Kingdom, one in the business area and one in education. Business students exchange with students at Staffordshire University in Stoke-on-Kent for a semester or a year. Education students may take master's level courses at Brighton University in a summer program.

## **ONGOING PROGRAMS**

### **Coalition of Christian Colleges and Universities**

The Coalition of Christian Colleges and Universities (CCCCU) 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, a study program, and

living in a small Christian community. Preference is given to early applicants. Applications may be obtained from the Office of the Chief Academic Officer. Final admission to any of the programs is the decision of the CCCCU.

Applicants typically enroll at Grand Canyon University for 16 semester hours 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 needing credit for particular courses in their major field should confer with their major advisor well in advance of leaving campus and work with Grand Canyon University's Office of the Registrar to assure the applicability of CCCCU coursework to Grand Canyon University's requirements. The CCCCU 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 as they are official University courses.

### **The 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 by 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, beginning in the Spring of 1999, 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. The program seeks to introduce students to the diversity of China, including Beijing, Shanghai, and Xi'an. This interdisciplinary, cross-cultural program of study enables Christian students to deal with this increasingly important part of the world in an informed, Christ-centered way. Students earn 16 semester hours of credit.

### **Latin America Studies Program (LASP)**

Students of Coalition 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. In addition to the regular program of interdisciplinary offerings, three specialized academic tracks are available to qualified students: Advanced Language and Literature studies (limited to Spanish majors and offered both Fall and Spring Terms), International Business and Management (offered only in Fall Term) and Tropical Sciences (offered only in Spring Term). Students in all tracks earn 16 semester hours of credit.

### **Los Angeles Film Studies Center (LAFSC)**

The Los Angeles Film Studies Center is designed to train students of



fields with fellow Honors students and professors in a shared experience that fosters group camaraderie and friendship. Students are admitted to the Honors Program by invitation of the Director of the Honors Program or upon receiving a Scholars 100 award.

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

### **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 (Army) Military Science or (Air Force) Aerospace Studies.

For further information contact Grand Canyon University at (602) 589-2550, Arizona State University Army ROTC at (602) 965-3318 or Air Force ROTC at (602) 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 101L, AES 103L, AES 201L, AES 203L, AES 301L, AES 303L, AES 401L, AES 403L).

#### **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 attendance to the Professional Officer Course.

Additionally, scholarship recipients must be able to fulfill commissioning requirements by age 25. 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 an interview 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 an interview 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 \$150 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 \$150. Scholarships are available on a four-, and two-year basis. To qualify for the four-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 two-year scholarships. Those interested must apply through 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.

#### **Flight Screening Program (FSP)**

A cadet designated to enter US Air Force Undergraduate Pilot Training after graduation participates in FSP after the junior year in college. This program trains and motivates pilot candidates.

### **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



World War II to the present, emphasizing the impact of limited war and technology on roles and missions. One hour lecture, one hour Leadership Practical Application.

**AES 301** **3 hours**  
**U.S. Air Force Communication Management and Leadership**

Every Fall. An integrated leadership course, emphasizing the individual as a manager in an Air Force milieu. Individual motivational and behavioral processes, leadership, communication, and group dynamics are covered. Two hours lecture, one hour Leadership Practical Application.

**AES 303** **3 hours**  
**U.S. Air Force Management and Leadership**

Every Spring. Study of the organizational and personal values, management of forces in change, organizational power, politics, managerial strategy and tactics. Two hours lecture, one hour Leadership Practical Application.

**AES 401** **3 hours**  
**National Security Institutional Policy and Strategy**

Every Fall. An examination of the Armed Forces as a technical element of society, with emphasis on the broad range of American civil-military relations; principles and techniques of communicative skills; and the political, economic, and social constraints on the national defense structure. Two hours lecture, one hour Leadership Practical Application.

**AES 403** **3 hours**  
**Topical and Regional Security Issues**

Every Spring. Study of the formulation and implementation of US defense policies, and the impact of technological and international developments on strategic preparedness in the overall defense policy-making processes. Two hours lecture, one hour Leadership Practical Application.

## **MILITARY SCIENCE**

**EPE 105** **1 hour**  
**Army Master Fitness**

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

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

Every Fall. An overview of the mission, organization, and structure of the Army and its role in national defense, and discussion of current military issues. 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**  
**American Military History**

Every Fall. Study of the role of the military in American life during war and peace from colonial times to the present day. Three hours lecture/conference, 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, Army Master Fitness.

**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, Army Master Fitness.

**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, Army Master Fitness.

**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, Army Master Fitness.

## **HONORS COURSES**

**HON 340** **3 hours**  
**Honors Interdisciplinary Seminar**

Every Fall. Led by two faculty members, this team-taught class creatively combines traditional academic disciplines. May be used to satisfy a University Liberal Arts Foundation core requirement. Prerequisite: Honors Program participant.

**HON 350** **3 hours**  
**Honors Interdisciplinary Seminar**

Every Spring. Led by two faculty members, this team-taught class creatively combines traditional academic disciplines. May be used to satisfy a University Liberal Arts Foundation core requirement. Prerequisite: Honors Program participant.

**HON 360** **3 hours**  
**Honors Interdisciplinary Seminar**

Every Fall. Led by two faculty members, this team-taught class creatively combines traditional academic disciplines. May be used to satisfy a University Liberal Arts Foundation core requirement. Prerequisite: Honors Program participant.

**HON 370** **3 hours**  
**Honors Interdisciplinary Seminar**

Every Spring. Led by two faculty members, this team-taught class creatively combines traditional academic disciplines. May be used to satisfy a University Liberal Arts Foundation core requirement. Prerequisite: Honors Program participant.

**HON 450** **3 hours**  
**Honors Thesis**

Every semester. Independent research in an area chosen by the Honors Student and a professor from his or her major field. Prerequisites: Senior status and admittance and participation in the Honors Program.

**HON 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.

## UNIVERSITY COURSES

**UNV 050** **0 hours**  
**EASE**

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 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. The 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 ACT scores or performance on the Writing Proficiency Examination indicates their need for a review of writing skills and strategies. May be repeated for a maximum of six hours if required.

**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 pass the Writing Proficiency Exam so that freshman students can enroll in English 101 or Transfer students can receive Mastery status. 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**

Every semester. This course seeks to expand students' understanding of the relationship between science and the Christian faith. Through historical, philosophical, and practical examinations and with open-minded discussions, students are encouraged to develop their own perspectives on important issues concerning science, technology, and the Christian faith. Prerequisite: BIB 103, BIB 113, or BIB 123.

**UNV 305** **3 hours**  
**The Christian Mind**

Every Fall. This course examines the historical development of Christian worldviews and challenges students to develop Christian understandings of problems facing humanity in the 21st century. 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

## MISSION STATEMENT

The College of Business seeks to deliver a quality education within the liberal arts framework and Christian values-based tradition of Grand Canyon University to students who seek to develop their potential to assume responsible positions and pursue successful careers in the continuously evolving global environment. To achieve this mission, 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.

## COLLEGE DESCRIPTION

The College of Business at Grand Canyon University 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, Grand Canyon University is nationally accredited by the Association of Collegiate Business Schools and Programs, 7007 College Boulevard, Suite 420, Overland Park, Kansas 66211, (913)339-9356, to offer the following degrees: Bachelor of Business Administration degree with majors in Accounting, Business Administration, Finance, International Business, and Marketing, and Master of Business Administration degree.

## COLLEGE OF BUSINESS FEATURES

### DEGREE OFFERINGS

With the increasing complexity of the business world, solid academic preparation is essential for success. The College of Business offers the Bachelor of Business Administration degree in the following majors: Accounting, Business Administration, Finance, International Business, and Marketing. The College of Business additionally offers a Master of Business Administration degree, an undergraduate minor in Business, and a Computer Information Systems Certificate Program which is highly recommended as an enhancement for all majors.

The accounting major is designed to prepare students for professional practice in corporate or public accounting or for management positions in business. Completing the requirements for the accounting major qualifies students to sit for either or both the Unified Certified Public Accountant (CPA) and Certified Management Accountant (CMA) examinations.

The finance major is offered to students interested in careers in banking, corporate finance, or investments. The emphasis is on applications and practical skills.

The international business major consists of business classes plus foreign language and cultural courses. A key component of this program is a foreign study experience.

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.

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.

**NOTE:** The direct transfer plan from accredited community colleges does not apply to the College of Business programs.

### STUDENT ORGANIZATIONS

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

Institute of Management Accountants Student Chapter, open to any student interested in business, is affiliated with the Phoenix Chapter of the Institute of Management Accountants. 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 ADMISSION PROCEDURES

Undergraduate students must be admitted into the College of Business before they can be considered for a degree. Normally, an application is filed by the student with the College of Business at the end of the student's sophomore year. Until a student is admitted to the

College of Business, the only upper division business courses that can be taken are: BUS 300, 307, 309, 310, 315, 319, and ECN 333.

In order to meet the requirements for admission to the College of Business, a student must:

1. Have an overall minimum GPA of 2.00 and a cumulative GPA of 2.25 for the following courses:

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 the Writing Proficiency Exam before being admitted.

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 College of Business.

Admission application forms may be obtained from the College of Business. Admission is not required for business minors, second degree students, or students from other areas of study within the University.

Admission to Grand Canyon University does not guarantee acceptance into the College of Business.

#### **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. 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 admitted to the College of Business who have a cumulative GPA of 2.75 or higher.
2. A maximum of two semesters of internships may be taken. The second semester should be taken with a different organization.
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 ("Cr") 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.
6. International Business majors contemplating an overseas internship should begin their planning process at least eight months in advance of their departure from the Grand Canyon University campus. All documentation must be completed prior to the student's departure from campus.

#### **COMPUTER INFORMATION SYSTEMS CERTIFICATE PROGRAM**

The College of Business strongly recommends that all students, regardless of their major, take coursework in Computer Information Systems (CIS). The CIS Certificate Program represents a three-course area of emphasis that includes:

- CIS 301: Principles of Information Systems†  
CIS 302: Database and Decision Support Systems  
CIS 303: System Analysis and Design

Students may find knowledge in computer information systems an enhancement to their major, of assistance in securing a position after graduation, and useful for themselves and their employers.

† CIS 301 is a required course in the Business Core.

#### **DEGREE REQUIREMENTS**

##### **GENERAL CURRICULUM FOR COLLEGE OF BUSINESS**

##### **UNDERGRADUATE DEGREES**

University Liberal Arts Foundation Requirements	51-65 hours
Lower Division Business Core	6 hours
Upper Division Business Core	27 hours
Major Concentration	24-34 hours
Electives	6-20 hours
Total General Curriculum Requirements	128 hours

##### **UNIVERSITY LIBERAL ARTS FOUNDATION**

##### **COLLEGE OF BUSINESS**

As previously indicated, the University Liberal Arts Foundation for the College of Business differs from the University Liberal Arts Foundation found on page 28. Students majoring in the College of Business must complete all requirements listed below as part of the ULAF for the College of Business. 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\*

ENG 101 Academic Writing (3)

ENG 102 Research Writing (3)

BUS 307 Business Communication (3)

OR

ENG 103 Honors Composition (3)

English Elective (3)

BUS 307 Business Communication (3)

B. Speech — 3 hours

SPC 113 Fundamentals of Speech (3)

C. Computer Literacy — 3-5 hours

CIS 180 Computer Information Systems Modules (3)

Accounting majors:

CIS 180B Beginning Spreadsheets (1)

CIS 180J Accounting Applications (1)

Finance majors:

CIS 180C Beginning Database (1)

CIS 180E Intermediate Spreadsheets (1)

**III. Heritage****A. History — 3 hours****6 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 317 *Organizational Ethics* (3)**IV. Personal and Social Environment****9-25 hours**ECN 201 *Macroeconomic Principles* (3)ECN 202 *Microeconomic Principles* (3)*Accounting and Finance 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)*International Business majors whose native language is not English:*PSY 101 *General Psychology* (3)SOC 101 *Introduction to Sociology* (3)GEO 121 *World Geography* (3)*International Business majors whose native language is English:*GEO 121 *World Geography* (3)*Foreign language courses* (16)**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****51-65 hours**

\*Students whose Writing Proficiency Examination 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.

**LOWER DIVISION BUSINESS CORE —  
ALL BUSINESS MAJORS****Accounting**

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 309A	Personal Assessment	1 hour
BUS 309B	Research and Goal Setting	1 hour
BUS 309C	The Job Search Process	1 hour
BUS 310	Business Law I	3 hours
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****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 383	Advanced Accounting	3 hours
ACC 481	Auditing Theory and Practice	3 hours

**Electives from the following\*****9 hours**

**ACC 332	Advanced Cost Accounting (3)
†ACC 351	Income Tax Accounting — Individual (3)
**ACC 428	Income Tax Accounting — Corporate (3)
ACC 495	Accounting Theory (3)
†BUS 315	Business Law II (3)
BUS 411	Internship (3)
BUS 429	International Business Practicum (3)
FIN 401	Financial Statement Analysis (3)

**Total Degree Hours 128 hours**

\* Must include at least one income tax course.

\*\* Recommended for those planning to sit for the CMA examination.

† Recommended for those planning to sit for the CPA examination.

**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	19 hours

**Business Administration Core**

ACC 331	Cost Accounting	3 hours
BUS 315	Business Law II	3 hours
BUS 319	Business and Society	3 hours
ECN 333	Managerial Economics	3 hours
MGT 415	Organizational Behavior	3 hours
MKT 305	Marketing Trends and Issues OR	
MKT 440	Marketing Research	3 hours

**Electives from the following****6 hours**

BUS 411	Internship (3)
BUS 429	International Business Practicum (3)
CIS 302	Database and Decision Support Systems (3) OR
CIS 303	Systems Analysis and Design (3)
FIN 401	Financial Statement Analysis (3) OR
FIN 402	Intermediate Finance (3)
MGT 304	Business Facilitation Skills (3)
MGT 313	Operations Research (3)
MGT 321	Human Resource Management (3)

**Total Degree Hours 128 hours****DEGREE REQUIREMENTS — FINANCE****(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

#### Finance Core

FIN 303	Investments	3 hours
FIN 305	Derivatives	3 hours
FIN 363	Financial Markets and Institutions	3 hours
FIN 401	Financial Statement Analysis	3 hours
FIN 402	Intermediate Finance	3 hours
FIN 405	Management of Commercial Banks	3 hours
FIN 425	International Trade and Finance	3 hours

Electives from the following	3 hours
*ACC 331	Cost Accounting (3)
BUS 411	Internship (3)
BUS 429	International Business Practicum (3)
ECN 333	Managerial Economics (3)

**Total Degree Hours 128 hours**

\* Recommended for those planning to sit for the CFM examination.

#### DEGREE REQUIREMENTS — INTERNATIONAL BUSINESS (B.B.A. DEGREE; No Minor Required)

University Liberal Arts Foundation for Business	52-65 hours
Lower Division Business Core	6 hours
Upper Division Business Core	27 hours
Free Electives	6-19 hours

#### International Business Core

BUS 306	International Business II	3 hours
BUS 334	Sociocultural Forces	3 hours
BUS 344	Comparative Environments	3 hours
BUS 429	International Business Practicum OR	
BUS 411	Internship	3 hours
FIN 425	International Trade and Finance	3 hours
MKT 425	International Marketing	3 hours

For students whose native language is not English:

Electives from the following	6 hours
BUS 429	International Business Practicum (3) OR
BUS 411	Internship (3)
MGT 304	Business Facilitation Skills (3)
SPC 311	Advanced Public Speaking (3)
SPC 318	Voice and Diction (3)
ENG 342	American Literature (3)
HIS 343	Colonial America (3)
HIS 345	Modern America (3)
HIS 409	Civil War and Reconstruction (3)
HIS 431	American Military History (3)
POS 252	Federal Government (2)
SOC 423	American Minority Peoples (3)

For students whose native language is English:

Electives from the following	6 hours
BUS 429	International Business Practicum (3) OR
BUS 411	Internship (3)
MGT 304	Business Facilitation Skills (3)
SPA 342	Reading and Analysis of Literary Texts (3)
SPA 373	Hispanic Civilizations (3)
GER 363	Civilization of Germany (3)
GER 423	Survey of German Literature (3)
HIS 317	Studies in the Non-Western World (3)
HIS 367	Modern Europe (3)
HIS 413	Russian History (3)
ENG 200	Analysis of World Literature (3)
PHI 463	World Religions (3)

**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)
ECN 333	Managerial Economics (3)
MKT 303	Sales and Sales Management (3)
MKT 410	Retail Management (3)

**Total Degree Hours 128 hours**

#### MINOR REQUIREMENTS — BUSINESS\*

Courses that should be taken as part of University Liberal Arts Foundation:

CIS 180	Microcomputer Applications (selected options) (3)
ECN 201	Macroeconomic Principles (3)

#### Required Business Minor Core:

ACC 211	Financial Accounting	3 hours
ACC 212	Managerial Accounting	3 hours
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**

\* Internship credit may not count toward a minor in Business.

#### GRADUATE STUDIES

The Master of Business Administration (M.B.A.) degree is designed for working professionals who desire to complete their degree without interrupting their professional careers. In addition to the traditional general business M.B.A., areas of emphasis are offered in International Business, Finance, and Accounting. Each of these concentrations is available by taking specialized elective courses.

#### GRADUATE PROGRAM ADMISSION REQUIREMENTS

All holders of baccalaureate degrees from accredited institutions are welcome to apply.

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 Director of the M.B.A. Program 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 44) to prepare them for advanced coursework.

### GRADUATION REQUIREMENTS

1. Participants must maintain a 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 Director of the M.B.A. Program.

### 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 Director of the M.B.A. Program, 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 Director of the M.B.A. Program 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 "residential" are held every May in a foreign country and every January in Phoenix. See BUS 629 International Business Practicum.

Participants can earn from one to three credit hours. Information will be provided by the Director of the M.B.A. Program.

### 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	618	Corporate Taxation (3)
ACC	619	Accounting Theory (3)

ACC	620	Financial Statement Analysis (3)
BUS	615	Business Law Seminar (3)
BUS	626	International Business (3)
BUS	629	International Business Practicum (3)
BUS	690	Special Topics in Business (3)
FIN	625	Investments (3)
FIN	627	Derivatives (3)
MGT	613	Operations Strategy (3)
MGT	623	Organizational Development (3)
MGT	624	Entrepreneurship (3)
MKT	628	International Marketing (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 ACCOUNTING:

ACC	618	Corporate Taxation (3)
ACC	619	Accounting Theory (3)
ACC	620	Financial Statement Analysis (3)

#### CONCENTRATION IN FINANCE:

ACC	620	Financial Statement Analysis (3)
FIN	625	Investments (3)
FIN	627	Derivatives (3)

#### CONCENTRATION IN INTERNATIONAL BUSINESS MANAGEMENT:

BUS	626	International Business Management (3)
BUS	629	International Business Practicum (3)
MKT	628	International Marketing (3)

## 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 process and job order systems, standard cost systems, cost allocation, and budgeting. Prerequisites: ACC 212 and admission to the College of Business.

**ACC 332 3 hours****Advanced Cost Accounting**

Spring 1999, and alternate years. Continuation of ACC 331. A study of advanced management accounting topics with an emphasis on current cost accounting practices. Prerequisite: ACC 331.

**ACC 351 3 hours****Income Tax Accounting—Individual**

Fall 1999, and alternate years. An examination of the fundamentals of federal income taxation of individuals, including basic research and tax planning methods. Prerequisites: ACC 212 and admission to the College of Business.

**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 428 3 hours****Income Tax Accounting—Corporate**

Spring 2000, and alternate years. A study of the theory and practices of accounting for income taxes of corporations, partnerships, estates, and trusts. Prerequisite: ACC 322.

**ACC 481 3 hours****Auditing Theory and Practice**

Every Spring. A study of the principles involved in the examination of financial statements by independent accountants including evaluation of internal control, sampling techniques, audit program development and use, and reporting. Professional code of ethics and legal considerations are also covered. Prerequisite: ACC 321.

**ACC 495 3 hours****Accounting Theory**

Fall 2000, and alternate years. An exploration of financial accounting theory and its role in current accounting practice. Prerequisite: ACC 322.

**ACC 499 1 - 4 hours****Independent Study**

On demand. See page 23.

**BUSINESS****BUS 200 3 hours****Introduction to Business**

On demand. Introduction to the language and to an elementary understanding of the ways and means of business. This class does not fulfill any of the requirements for any major or minor in 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 300 3 hours****Personal Money Management**

On demand. A practical course for those seeking information and techniques to assist in achieving personal and family financial goals. This is a life skills course which is appropriate for any student, regardless of discipline, but does not fulfill any of the requirements for any major or minor in business.

**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, FIN 301, and MKT 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 307 3 hours****Business Communications**

Every semester. This course provides practice in writing effective business letters, memoranda, and reports. Emphasis is on effective written communication as it applies to human relations in business and as a managerial approach to effective communication. Prerequisites: ENG 102 and passing the Writing Proficiency Examination.

**BUS 309A 1 hour****Personal Assessment**

Every semester. Computerized personal assessment tools, career opportunities in various business fields, and employer expectations will be discussed.

**BUS 309B 1 hour****Research and Goal Setting**

Every semester. This course includes research sources and investigation techniques, career strategies, goal setting and career development plans, and timelines for the job search process.

**BUS 309C 1 hour****The Job Search Process**

Every semester. Interviewing techniques, resumé writing and follow through, networking, professional dress, and business courtesy will be covered.

**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 319 3 hours****Business and Society**

Every Fall. 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. Prerequisite: PHI 317 or equivalent.

**BUS 334** **3 hours**  
**Sociocultural Forces in International Business**

Every Fall. A study of the significance of societies and cultures for international business with emphasis on sociocultural components and frameworks for understanding and working with national cultures. Culture will be examined in terms of its impact on marketing, human resource management, production, and finance. Prerequisite: BUS 305.

**BUS 344** **3 hours**  
**Comparative Environments**

Every Spring. A study of the dynamics of international business as it relates to market and emerging market economics and regional economic development. Emphasis is on economic, political, and legal issues, as well as business diplomacy and negotiations. Prerequisite: BUS 305.

**BUS 411** **3 hours**  
**Business Internship**

Every semester. An opportunity for students to practice principles learned in business by working at least eight hours per week in an organization under the supervision of a practitioner. Course can be repeated with approval of the Director of the Internship Program. Prerequisites: Admission to the College of Business and permission of the Director of the Internship Program.

**BUS 429** **1 - 3 hours**  
**International Business Practicum**

Every year. This practicum allows students to participate in a Phoenix residential between Fall and Spring, and a foreign residential during Summer sessions. Designed for students interested in intercultural diversity and its impact on group dynamics. One hour course credit is given for participation in a Phoenix or a foreign country residential. 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 480** **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. Prerequisites: MKT 301, MGT 301, FIN 301, MGT 310, CIS 301, senior status, and instructor's approval.

**BUS 499** **1 - 4 hours**  
**Independent Study**  
On demand. See page 23.

## 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
- G. Pagemaker
- H. Intermediate Word Perfect
- I. Introduction to the Internet
- J. Accounting Applications
- L. Presentation Graphics

Prerequisites: CIS 180D and CIS 180H require CIS 180A; 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: CIS 180 and admission to the College of Business.

**CIS 302** **3 hours**  
**Database and Decision Support Systems**

Fall 2000, and alternate years. 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**

Spring 1999, and alternate years. A study of the analysis and design of computer-based information systems. General systems theory will be emphasized. Topics include the system development life cycle and alternatives, data and process modeling, logical and physical design, project management and justification, and computer aided software engineering (CASE). Prerequisite: 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.

**ECN 333** **3 hours**  
**Managerial Economics**

Every Fall. An application-oriented intermediate course in microeconomics, dealing with decision making of business firms, the influence of constraints on business behavior, and business attempts to forecast demand and cost conditions. Also explored are how firms react to specific demand conditions and the influence of competition and the market power on decisions. Prerequisites: BUS 251 and ECN 202.

## 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 303**  
**Investments****3 hours**

Every Fall. This course focuses primarily on stocks, bonds, and portfolio theory. Principles will be discussed that apply to investment decisions at all levels, from the management of small portfolios of individual investors to large, professionally-managed mutual funds. The course is useful for those who are interested in careers in the investments industry as well as those who simply want to make more effective personal investment decisions. Prerequisite: FIN 301.

**FIN 305**  
**Derivatives****3 hours**

Every Spring. A course in the options and futures markets. Characteristics of specific contracts, the workings of the various markets, theories and approaches to valuation, and hedging opportunities are covered. Applications to investments, international finance, and the management of financial institutions are emphasized. Prerequisite: FIN 301.

**FIN 363**  
**Financial Markets and Institutions****3 hours**

Every Spring. A general survey of financial institutions, the Federal Reserve System, the qualities of a sound monetary system, the theory and value of money, deposit insurance, and foreign exchange. Prerequisite: FIN 301.

**FIN 401**  
**Financial Statement Analysis****3 hours**

Every Fall. The firm's three principle financial statements (the Income Statement, the Balance Sheet, and the Statement of Cash Flows) are analyzed in detail. Special focus is placed on the accounting principles used in the statements. Financial reporting differences among a variety of industries are examined, including manufacturing, retailing, and service firms. The material discussed is relevant to lenders, investors, and management. Prerequisite: FIN 301 or ACC 321.

**FIN 402**  
**Intermediate Finance****3 hours**

Every Spring. A study of the application of financial techniques and principles to case studies in 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 405**  
**Management of Commercial Banks****3 hours**

Every Spring. A course in the management of depository institutions such as banks and savings and loans. Topics emphasized include asset and liability management, functional cost analysis, liquidity planning, management of loan and investment portfolios, capital adequacy, and the changing regulatory climate of the banking industry. Prerequisite: FIN 301.

**FIN 425**  
**International Trade and Finance****3 hours**

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.

**FIN 499**  
**Independent Study****1 - 4 hours**

On demand. See page 23.

**MANAGEMENT****MGT 301**  
**Principles of Management****3 hours**

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 304**  
**Business Facilitation Skills****3 hours**

Fall 2000, and alternate years. This course teaches the competencies of leading business meetings and conferences, facilitating discussion groups, and building teams. Prerequisites: SPC 113 and admission to the College of Business.

**MGT 310**  
**Production and Operations Management****3 hours**

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: Admission to the College of Business.

**MGT 313**  
**Operations Research****3 hours**

On demand. An introduction to mathematical model building and solution techniques. Although the emphasis will be on the quantitative techniques covered, correct application and interpretation of models will be stressed. Topics include decision theory, mathematical programming, queuing theory, and simulation. Prerequisite: Admission to the College of Business.

**MGT 321**  
**Human Resource Management****3 hours**

Spring 1999, and alternate years. An analysis of the personnel policies of business enterprises. Areas of study include selection, placement, training, promotion, morale, employee services, and the organization and functions of a human resource department. Prerequisite: MGT 301.

**MGT 415**  
**Organizational Behavior****3 hours**

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**  
**Principles of Marketing****3 hours**

Every semester. An overview of marketing concepts with integrated marketing issues. Topics include competitive marketing strategies, the external environment, marketing information and intelligence, consumer behavior, business markets and business-to-business buying, the global marketplace, marketing communication, product and services marketing, promotion and advertising, public relations, and implementing and controlling the marketing program. Prerequisite: Admission to the College of Business.

**MKT 302**  
**Buyer and Consumer Behavior****3 hours**

Every Fall. This course uses behavioral science approach to help students recognize the distinct buyer strategies and decision-making processes of purchase by organizational buyers and consumers. Topics include cross-cultural variations in behavior, external and internal influences on today's buyers, purchase and post-purchase processes, customer satisfaction, and customer commitment. Prerequisite: MKT 301.

**MKT 303****Sales and Sales Management****3 hours**

Spring 2000, 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, technological trends, and cultural language diversity. Prerequisite: MKT 301.

**MKT 304****Promotion and Advertising****3 hours**

Every Spring. An integrated marketing communications perspective for today's changing world of advertising and promotion. 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, direct marketing, public relations, publicity, corporate advertising, and measuring; and evaluating the promotional program. Prerequisite: MKT 301.

**MKT 305****Market Trends and Issues****3 hours**

Every Fall. A survey of variables affecting today's marketing managers in planning, organizing, and controlling the marketing mix. Topics include new product and new services development for profit and not-for-profit organizations, ethics, creative strategies, brand and product management, merchandising and logistics, corporate policy analysis, sales and budget forecasting, customer satisfaction measurement, marketing communications and positioning, integration of marketing applications to the corporate mission statement, technology, and diversity. Prerequisite: MKT 301.

**MKT 410****Retail Management****3 hours**

Spring 1999, and alternate years. Three main objectives are addressed: the importance of retailing as an institution in our society, the exciting and challenging environment facing retail managers today, and current as well as future retail management practices that are ever-changing in retail operations and opportunities. Prerequisite: MKT 301.

**MKT 425****International Marketing****3 hours**

Every Spring. An introduction to marketing products and services globally. The course discusses and compares Asian, American, and European consumers. Belief systems, attitudes, and values are discussed as they relate to consumer wants and needs. Export/import, joint ventures, wholly owned subsidiaries, foreign manufacturing, and licensing are investigated as foreign market entry strategies.

**MKT 440****Marketing Research and Reporting****3 hours**

Every Fall. An examination of the business research process and the research documents as tools to aid the managerial decision-making process. Topics include the design of research, primary and secondary data collection methods, conducting ethical research, the application of statistical tools and measurement techniques, and reporting the research in both written document and oral presentation format. Prerequisite: MKT 301.

**MKT 480****Marketing Management****3 hours**

Every Spring. A study of the application of basic marketing principles to the marketplace, approaches and tools for problem analysis, marketing of services and products, analysis of marketing problems, use of case studies, and development of marketing plans. Prerequisite: MKT 301.

**MKT 499****Independent Study****1 - 4 hours**

On demand. See page 23.

**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****Accounting Practices****3 hours**

Every Fall. 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****Financial Analysis****3 hours**

Every Fall. 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****BUS 601****Quantitative Methods in Business****3 hours**

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.

**MGT 602****Organizational Theory and Behavior****3 hours**

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.

**CIS 603****Information Systems****3 hours**

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.

**BUS 604****Business Ethics and Society****3 hours**

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. Prerequisites: PHI 317 or its equivalent, and graduate standing.

**ACC 605****Managerial Accounting****3 hours**

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 allocation, and budgeting. Prerequisites: ACC 211 and ACC 212, or ACC 501 or its equivalent, and graduate standing.

**MKT 606****Marketing Management****3 hours**

Every Summer. A study of the management of the marketing function in business and non-profit enterprises. Topics emphasized include market environmental analysis and marketing planning, strategy, and control. Development and management of marketing programs are explored through the case method. Prerequisites: MKT 301 or its equivalent, 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 609** **3 hours**  
**Strategic Management**  
Every Summer. 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**  
Spring 2000, and alternate years. An examination of operations as a strategic resource. Topics include methods to facilitate strategic formulation, analysis of the linkages 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.

**BUS 615** **3 hours**  
**Business Law Seminar**  
Fall 1999, and alternate years. 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 businesspeople. 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.

**ACC 618** **3 hours**  
**Corporate Taxation**  
Spring 2000, and alternate years. A study of federal taxation of corporations with emphasis on transactions between the corporation and outside parties. Topics include the basic rules of federal corporate income taxation, tax planning, and special rules for S Corporations. Taxation for partnerships, estates, and trusts will also be covered. Prerequisites: Graduate standing and six semester hours of financial accounting.

**ACC 619** **3 hours**  
**Accounting Theory**  
Fall 2000, and alternate years. 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**  
Summer 1999, and alternate years. 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.

**MGT 623** **3 hours**  
**Organizational Development**  
Summer 1999, and alternate years. 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.

**BUS 624** **3 hours**  
**Entrepreneurship**  
Fall 2000, and alternating years. 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.

**FIN 625** **3 hours**  
**Investments**  
Every Fall. This course focuses primarily on stocks, bonds, and portfolio theory. Principles will be discussed that apply to investment decisions at all levels, from the management of small portfolios of individual investors to large, professionally-managed mutual funds. The course is useful for those who are interested in careers in the investments industry as well as those who desire to make more effective personal investment decisions. Prerequisites: FIN 301 or FIN 501 or its equivalent, and graduate standing.

**BUS 626** **3 hours**  
**International Business**  
Spring 1999, and alternate years. 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.

**FIN 627** **3 hours**  
**Derivatives**  
Spring 1999, and alternate years. A study of the class of securities known as derivatives. This class covers forward contracts, futures, option, and swaps. Topics emphasized include risk and return characteristics of derivatives, pricing models, and characteristics of the markets and exchanges in which derivatives are traded. Risk management through hedging, as opposed to mere speculation, will be emphasized. Use of derivatives in the fields of international business, investments, and the management of financial situations will be discussed. Prerequisites: FIN 608 or its equivalent, and graduate standing.

**MKT 628** **3 hours**  
**International Marketing**  
Fall 1999, and alternate years. An analysis of environmental conditions that enhance or inhibit an international firm's efforts to design and use effective marketing techniques. The impact of differences in language, aesthetics, religions, business customs, and attitudes on marketing strategies are addressed. Prerequisites: MKT 606, BUS 626, and graduate standing.

**BUS 629** **1 - 3 hours each**  
**International Business Practicum**  
Every year. Phoenix residential in January. Foreign residencies in May. This course is designed for students interested in intercultural diversity and its impact on group dynamics. It provides hands-on experience. Participation in all activities is required and time off work may be necessary (approximately one to two weeks for each residential). Prerequisite: 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.

# The College of Continuing Studies

## MISSION STATEMENT

The College of Continuing Studies seeks to deliver multi-discipline, degree completion programs for working adults who are seeking to improve their professional skills, increase their knowledge base, and expand their understanding of the pragmatic application of theory and practical information in their respective professions.

## COLLEGE DESCRIPTION

The College of Continuing Studies is an adult-oriented, professional development program designed for individuals who are seeking to complete the requirements for a Bachelor of Science degree in an economically viable program in a format designed to accommodate their busy personal and professional schedules.

## COLLEGE FEATURES

The Bachelor of Science degrees in Applied Management, Public Safety Administration, and Organizational Sociology are all degree completion programs and are offered only through the College of Continuing Studies. The college also provides a R.N. to B.S.N. degree program. 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 advance degreed professionals who are specialists in the areas they teach. The concepts learned in the classroom can be immediately applied to one's work and personal life. Assignments include outside readings and essays on selected topics. Students in this program also design, implement, and evaluate an applied research project related to his or her occupation or community. 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 56 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 B.S. degree from Grand Canyon University.

## ADMISSION INFORMATION

Applicants for the degree completion program must be at least 25 years of age and have a minimum of two years (60 semester hours) of credit from a regionally accredited college or university. 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. Students entering the R.N.-B.S.N. program must be licensed as an R.N. in the State of Arizona.

Interested students should complete the following steps:

1. Request an application packet from the College of Continuing Studies. Note: A separate application is used for the College of Continuing Studies program. Please do not complete a standard Grand Canyon University Application for Admission.
2. Call the College of Continuing 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 College of Continuing Studies Application for Admission along with a \$50 non-refundable processing fee to:  
  
Grand Canyon University  
College of Continuing Studies  
3300 W. 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 College of Continuing Studies 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 MMRs—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 College of Continuing Studies. 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 College of Continuing



Studies. 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 College of Continuing Studies personnel.

6. Submit a completed Payment Option Form to the College of Continuing Studies.

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 Continuing Studies Orientation Program (normally held one week prior to the start of courses).

### GRADUATION REQUIREMENTS

College of Continuing 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.

The Bachelors of Science in Applied Management, Public Safety, and Sociology consist of three areas:

University Liberal Arts Requirements	35 hours
Applied Management, Public Safety Administration, or Organizational Sociology Core Requirements	36 hours
Elective Requirements	57 hours
<b>Total</b>	<b>128 hours</b>

### UNIVERSITY LIBERAL ARTS FOUNDATION REQUIREMENTS FOR APPLIED MANAGEMENT, PUBLIC SAFETY, AND SOCIOLOGY

The University Liberal Arts Foundation for the College of Continuing Studies can be found in a separate brochure housed at the College of Continuing Studies.

### DEGREE OFFERINGS

#### Applied Management Major Core:

CCS 430	Group Dynamics	3 hours
CCS 431	Portfolio Assessment	3 hours
CCS 432	Systems Concepts	3 hours
CCS 433	Research Methodology	3 hours
CCS 434	Professional Research Project I	3 hours
CCS 435	Applied Communications	3 hours
CCS 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**

#### Public Safety Administration Core:

CCS 430	Group Dynamics	3 hours
CCS 431	Portfolio Assessment	3 hours
CCS 433	Research Methodology	3 hours
CCS 436	Literary Analysis	3 hours
CCS 438	Human Resources	3 hours
PSA 434	Professional Research Project I	3 hours
PSA 441	Professional Research Project II	3 hours
PSA 442	Command and Control Systems	3 hours
PSA 443	Strategic Planning	3 hours

PSA 444	Personal Development	3 hours
PSA 445	Leadership in Public Safety	3 hours
PSA 446	Ethics in the Public Safety Environment	3 hours

**Public Safety Administration Core Hours 36 hours**

#### Organizational Sociology Core:

CCS 431	Portfolio Assessment	3 hours
CCS 436	Literary Analysis	3 hours
CCS 438	Human Resources	3 hours
SCS 430	Social Psychology Concepts	3 hours
SCS 432	Social Systems	3 hours
SCS 433	Social Research Methods	3 hours
SCS 434	Social Research Project I	3 hours
SCS 435	Environmental Sociology	3 hours
SCS 436	Comparative Social Structures	3 hours
SCS 459	Social Leadership Issues	3 hours
SCS 440	Social Ethics	3 hours
SCS 441	Social Research Project II	3 hours

**Organizational Sociology Core Hours 36 hours**

#### RN to BSN Option:

The format for prerequisite and general education requirements varies for the RN-BSN option and are based on the objectives and requirements of the traditional nursing program.

Nursing Prerequisites*	41 hours
Remaining University Liberal Arts Requirements	12 hours
RN-BSN Core Requirements	36 hours
Elective Requirements	39 hours
<b>Total</b>	<b>128 hours</b>

\*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.

#### Nursing Prerequisites:

##### Bachelor of Science in Nursing Core:

BIO 201	Human Anat. & Physiology with Lab I	4 hours
BIO 202	Human Anat. & Physiology with Lab II	4 hours
BIO 205	Microbiology with Lab	4 hours
BIO 308	Pathophysiology	3 hours
CIS 180	Computer Applications	1 hour
CHM 101	Chemistry	3 hours
CHM 260	Biochemistry with Lab	4 hours
ENG 101	Academic Writing	3 hours
ENG 102	Research Writing	3 hours
NUR 204	Applied Nutrition	3 hours
PSY 101	General Psychology	3 hours
PSY 341	Lifespan Development	3 hours
SOC 101	Introduction to Sociology	3 hours

**Total Nursing Prerequisite Hours 41 hours**

#### REMAINING UNIVERSITY LIBERAL ARTS REQUIREMENTS

Humanities – 6 hours  
Any history course (3)  
Any art, mmusic, theater course (3)

Mathematics – 6 hours  
PSY 363 Statistics and Probabilities (3)  
MAT 121 College Algebra (3)

#### CORE REQUIREMENTS FOR RN TO BSN OPTION

CCS 431	Portfolio Assessment	3 hours
CCS 436	Literary Analysis	3 hours
NRS 430	Professional Dynamics	3 hours

NRS 432	Community Health Systems and Concepts	3 hours
NRS 433	Research Methodology	3 hours
NRS 435	Professional Communication	3 hours
NRS 434	Research Project I	3 hours
NRS 437	Ethical Decision Making in Health Care	3 hours
NRS 438	Interpersonal Dynamics	3 hours
NRS 439	Trends and Issues in Today's Health Care	3 hours
NRS 440	Leadership in Nursing and Health Care	3 hours
NRS 441	Professional Research Project II	3 hours

**Total RN-BSN Core Hours** **36 hours**

### **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 51 hours for the Applied Management, Public Safety and Sociology degrees, and 39 hours for the RN-BSN option.

### **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**

### **COLLEGE OF CONTINUING STUDIES**

#### **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 431** **3 hours** **Portfolios Assessment**

A course that focuses on the preparation of students' personal portfolios and professional life-learning experiences.

#### **CCS 432** **3 hours** **Systems Concepts**

This course analyzes organizations using the systems model, application of the systems model for solving organizational problems.

#### **CCS 433** **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 projects.

#### **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 436** **3 hours** **Literary Analysis**

This course surveys the content, background, genre, and significance of literature using the Bible as the foundational text.

#### **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, evaluation, and 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 434** **3 hours** **Professional Research Project I**

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 441** **3 hours** **Professional Research Project II**

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.

#### **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.

### **RN TO BSN OPTION**

#### **NRS 431** **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 433** **3 hours** **Research Methodology**

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.

#### **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 435** **Applied Communications** **3 hours**  
This course deals with the fundamentals and application of writing and presentation used in the professional nursing environment.

**NRS 437** **Ethical Decision Making in Health Care** **3 hours**  
This course explores case studies using bio-ethical theories with a focus on informal consent, confidentiality, treatment refusals, comfort and death issues.

**NRS 438** **Community Health Systems and Concepts II** **3 hours**  
This course provides an extended 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 439** **Trends and Issues in Today's Health Care** **3 hours**  
This course examines the values and perceptions of health care groups affecting recruitment, training and development, delegation, supervision of human resources in health care. Examines the manager's role and current trends and issues in nursing and health care.

**NRS 440** **Leadership in Nursing and Health Care** **3 hours**  
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 441** **Professional Research Project** **3 hours**  
This course requires students to implement theories and concepts in individual projects related to health care issues.

## **PUBLIC SAFETY ADMINISTRATION**

**PSA 442** **Command and Control Systems** **3 hours**  
This course covers the analysis and application of the systems model for solving operational command and control problems.

**PSA 443** **Strategic Planning** **3 hours**  
This course deals with the fundamentals and application of strategic analysis and planning in public safety.

**PSA 444** **Psychology of Personal Development** **3 hours**  
This course examines personal and professional relationships through the use of effective verbal and non-verbal skills.

**PSA 445** **Leadership in Public Safety** **3 hours**  
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 446** **Ethics in Public Safety** **3 hours**  
This course explores case issues and philosophies as they relate to accountability in the public safety environment.

**PSA 434** **Professional Research Project I** **3 hours**  
This course requires students to implement theories and concepts in individual projects related to public safety issues.

**PSA 441** **Professional Research Project II** **3 hours**  
This course requires students to implement theories and concepts in individual projects related to public safety issues.

## **ORGANIZATIONAL SOCIOLOGY**

**SCS 430** **Social Psychology Concepts** **3 hours**  
This course examines patterns of social interaction, norms, roles, and collective behavior. Intensive and critical analysis of the concepts of sociology are emphasized.

**SCS 431** **Social Systems** **3 hours**  
This course provides an analysis of the growth and problems in urban America from a social systems perspective.

**SCS 433** **Social Research Methods** **3 hours**  
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.

**SCS 435** **Environmental Sociology** **3 hours**  
This course analyzes human organizational responses to population growth, technological advances, and environmental stressors. It explores how these social factors impact and influence organizational behavior.

**SCS 436** **Comparative Social Structures** **3 hours**  
This course provides social and cultural system comparisons. Roles, status, social development in contemporary America are examined.

**SCS 439** **Social Leadership Issues** **3 hours**  
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** **Social Ethics** **3 hours**  
This course explores case issues and philosophies as they relate to social ability in society at large.

**SCS 434** **Social Research Project I** **3 hours**  
This course requires students to implement theories and concepts in individual projects that apply meta-sociology to students' occupations or vocations.

**SCS 441** **Social Research Project II** **3 hours**  
This course requires students to implement theories and concepts in individual projects that apply meta-sociology to students' occupations or vocations.

# The College of Education

## MISSION STATEMENT

"Those Who Can ... Teach" is the basis of the mission statement of the College of Education.

The college strives to prepare reflective practitioners who have foundational knowledge in encouraging student-focused learning through implementing quality instructional design and effective classroom procedures.

## 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 Arts (B.A.), 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 OF EDUCATION FEATURES

### GUARANTEE STATEMENT

Starting with its December 1984 graduates, Grand Canyon University has provided the following guarantee: Grand Canyon University will guarantee assistance to any teacher graduate who is experiencing difficulty in the first year of teaching in the area for which they have been certified. Believing in the excellence of our program, we will provide assistance to any graduate recommended by the College of Education at Grand Canyon University for teaching certification in the state of Arizona at the elementary, special education, or secondary level. 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 new teachers by assisting them 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.

### EDUCATION PLACEMENT SERVICES

Education Placement Services is open to all Grand Canyon University graduates, including 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 Fifth Year 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

Education Placement Office regarding fees for this service. While the services offered through the Placement 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** begins as early as the sophomore year with a minimum of 120 hours in the K-12 classroom prior to student teaching.
- **Opportunities to design** curriculum materials.
- **A student professional organization** which provides encouragement to students via projects, workshops, and academic areas.
- **A placement service** that averages a 92% placement rate for education graduates in the past 15 years.
- **Faculty** who have an average of 12 years experience in the K-12 school system.
- **Adjunct faculty** who hold concurrent employment in classroom and administrative positions.
- **Choices of study** in the areas of: Special Education in Learning Disabilities and/or Emotional Disabilities, Secondary (grades 7-12) with a double major in an academic area, Elementary (grades K-8), Reading Endorsement (grades K-12), Teaching English as a Second Language Endorsement (grades K-12), Bilingual Endorsement (grades K-12), and K-12 Endorsement in the areas of Art, Music, and Physical Education.

## TEACHER EDUCATION CURRICULA

The courses in education are planned primarily to provide curricula for certification of elementary teachers, secondary teachers, and special education teachers.

At the printing of this catalog, changes in certification requirements and procedures were pending within the Arizona Governmental process. Information provided here is of probable accuracy and included for convenience. However, the student is strongly advised to contact the College of Education and/or the Arizona State Department of Education before relying on certification information contained here.

Coursework is offered leading to teacher certification in the following areas:

1. Elementary Education (A minor in a content area commonly taught in grades K-8 in the Arizona public schools is required);
2. Special Education-Learning Disabilities and Emotionally Handicapped, offered in conjunction with a double major in 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, and three hours of ESL 523 is required.) This is valid for three years and is non-renewable;
4. Bilingual Provisional Endorsement (An Arizona elementary, secondary, or special education teaching certificate and passage of the bilingual proficiency exam);
5. 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 of study. A minor is recommended but not required;
6. Endorsements (K-12) for Art, Music, Dramatic Arts, 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 for eight credit hours at the elementary level (grades K-8) as well as eight credit hours at the secondary level (grades 7-12) for a total of 16 credit hours of student teaching. Endorsements are also offered in Reading Education, Teaching English as a Second Language, and Bilingual Education.

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 and Special Education majors as well as those seeking Secondary Certification must meet the requirements for the Grand Canyon University state-approved certification program prior to graduation.

## PROVISIONAL CERTIFICATE, ELEMENTARY, SPECIAL EDUCATION, OR SECONDARY

Students working toward a bachelor's degree may normally qualify for a provisional certificate for teaching in the elementary or secondary schools of Arizona if they have credit for the courses required for professional preparation, including student teaching. Any portion of this professional preparation, including a study of psychology, curriculum, methods of teaching, and student teaching, may be included in the work leading toward the bachelor's degree.

One who has already earned a bachelor's degree may normally qualify for a provisional teaching certificate by completing at least 40-47 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 57-61). Students who plan to be in the Fifth Year program are encouraged to enter the Master of Education (M.Ed.) program (see pages 57-58).

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 Teacher Proficiency Assessment before they are issued a provisional certificate. These assessments will be based on the Arizona Teacher Standards Seven and Eight. Upon receipt of the provisional certificate which is valid for two years and not renewable, the teacher must pass the performance portion of the Arizona Teacher Proficiency Assessment in order to receive a Standard Teaching Certificate. This assessment is based on the Arizona Teacher Standards One, Two, Three, Four, Five, and Six. A Special Education Certified Teacher must also pass Arizona Teacher Standard Nine. 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 teacher education, a student must have completed at least 45 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 have passed the Writing Proficiency Examination (see page 6).
3. All candidates must submit three letters of reference.
4. 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.
5. All candidates must submit an **Application for Fingerprint Clearance** and fingerprint card to the Arizona State Department of Education (copies of these forms should be submitted to the College of Education). Submit the **Application for Fingerprint Clearance** and fingerprint card to the Arizona State Department of Education, 1535 West Jefferson, Phoenix, Arizona 85002. The College of Education will verify clearances on a quarterly basis.

Application procedures and policies are available in the Education Packet at the University bookstore. 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. As changes occur in the assessment process for future eligibility and continuance in the program, notifications will be posted in the College of Education. It is the

student's responsibility to meet the requirements and changes.

#### **APPLICATION FOR TEACHER EDUCATION**

After completing 45 semester hours, prospective candidates must make written application to the Dean of the College of Education for admission to the Teacher Education Program.

Applications are not processed until they are submitted in complete form and 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 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.

#### **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, located in the College of Education. 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 courses in their major, in education courses, and in University courses which are 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 eight semester hours (approximately ten weeks) of student teaching in each area of certification.

Student teachers who are not enrolled in a regular program at 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, SED 443, SED 452, and SED 462; or 18 hours in Elementary Education to be selected from EED 323, EED 343, EED 403, EED 433, EED 443, and EED 463; or 15 hours in Special Education to include SPE 355, SPE 365, SPE 376, SPE 386, and SPE 435 or SPE 535;
3. Maintain an overall GPA of 2.50 and a 2.50 GPA in the major area of study at Grand Canyon University.

All students must complete regular matriculation requirements with the Office of the Registrar before entering the Teacher Education Program.

#### **STUDENT TEACHING SEMESTER**

The student teaching semester is offered on a "block" basis. Students complete 13-15 credit hours of coursework in a single semester which is

divided into two blocks. The first block lasts five weeks, during which time students take 5-7 hours of coursework in professional education. The second block, of ten weeks duration, is reserved for student teaching and carries eight hours of credit.

Special Education majors and any student seeking the K-12 Endorsement (Art, Music, Physical Education) will student teach for 20 weeks duration. Refer to the respective college for additional requirements.

Grand Canyon University provides experience in student teaching through an arrangement made 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 at the school and the student is expected to follow the same work schedule as the cooperating teacher. It is recommended that no other coursework be taken during the student teaching experience.

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*.

#### **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 28. 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 \*

ENG 101 Academic Writing (3)

ENG 102 Research Writing (3)

B. Speech—3 hours

COM 123 *Dramatic Arts for Teachers* (3)

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 Tradition—3 hours

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:** 6 hours  
 Any art, music, or theatre elective *except art education (ARE) and music education courses (MED)* (3)  
 Any art, music, theatre, art education (ARE), or music education (MED) course (3)

**Total University Liberal Arts Foundation Requirements for Elementary/Special Education** 48 hours

\* Students whose Writing Proficiency Examination (placement test) scores place them 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 45 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.

#### 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 28. 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\*  
 ENG 101 Academic Writing (3)  
 ENG 102 Research Writing (3)  
 B. Speech—3 hours  
 COM 123 Dramatic Arts for Teachers (3)

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 Tradition—3 hours  
 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 Intermediate Algebra (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 whose Writing Proficiency Examination (placement test) scores place them 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.

#### 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 52-53).

Electives (as required to satisfy the 128 semester hour minimum graduation requirement).

**Elementary Education Major**

PHI	303 Philosophy of Education	3 hours
EDU	313 Educational Psychology	3 hours
	(PSY 353 or equivalent is prerequisite)	
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	343 Curriculum and Methods: Language Arts	3 hours
EDU	412 Assessing Student Performance	2 hours
EED	403 Curriculum and Methods: Mathematics	4 hours
EED	433 Curriculum and Methods: Reading/Decoding	4 hours

EED	443	Prescriptive Reading and Practicum	2 hours
EED	463	Curriculum and Methods: Social Studies	3 hours
** EDU	430	Classroom Management	3 hours
** EDU	420	Orientation to Student Teaching	2 hours
EED	480	Student Teaching: Elementary School	8 hours

**Total Major Hours 49 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.

\*\* These courses are taught on a six-week block basis so that student teaching can meet for a full day the other ten weeks.

Prior to certification, the Arizona Department of Education requires a passing score on the professional knowledge portion of the Arizona Teacher Proficiency Assessment and a passing score on the elementary education subject knowledge portion of the Arizona Teacher Proficiency (ATPA). The College of Education faculty recommend that the **professional knowledge portion of the ATPA** be taken during the last half of student teaching or at the end of student teaching and the **elementary education knowledge portion of the ATPA** be taken prior to 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 ATPA, 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 ATPA is developed. The provisional Elementary Certificate is valid for two years and is not renewable. To receive a Standard Elementary Certificate, the candidate must receive a passing score on the **performance portion of the ATPA** within the two-year time limit of the Provisional Elementary Certificate.

#### Recommended Electives for Elementary Teacher Candidates:

SPE	---	Special Education Electives (3-6)
CIS	---	Computer Application Modules (3)
ENG	473	Children's Literature (3)
ENG	471	Adolescent Literature (3)
* ESL	523	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)

#### 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 53-54).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

#### Special Education Major: Learning Disability Specialization

PHI	303	Philosophy of Education	3 hours
EDU	313	Educational Psychology (PSY 353 or equivalent is a prerequisite)	3 hours
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	343	Curriculum and Methods: Language Arts	3 hours
EDU	412	Assessing Student Performance	2 hours
EED	403	Curriculum and Methods: Mathematics	4 hours
EED	433	Curriculum and Methods: Reading/Decoding	4 hours
EED	443	Prescriptive Reading and Practicum	2 hours
EED	463	Curriculum and Methods: Social Studies	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
** EDU	430	Classroom Management	3 hours
** EDU	420	Orientation to Student Teaching	2 hours
SPE	408	Student Teaching: Learning Disabilities	4 hours
SPE	418	Student Teaching: Emot. Disabilities	4 hours
EED	480	Student Teaching: Elementary School	8 hours

**Total Major Hours 72 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.

\*\* These courses are taken concurrently prior to the 20-week student teaching semester.

Prior to certification, the Arizona Department of Education requires a passing score on the professional knowledge portion of the Arizona Teacher Proficiency Assessment and a passing score on the specified disability (emotional disability and/or learning disability) special education portion of the Arizona Teacher Proficiency Assessment (ATPA). The College of Education faculty recommend that the **professional knowledge portion of the ATPA** be taken during the last half of student teaching or the end of student teaching and the **specified disability (emotional disability and/or learning disability) special education portion of the ATPA** be taken prior to student teaching. The Provisional Specialized Special Education Certificate is valid for two years and is not renewable. To receive a Standard Specialized Special Education Certificate, the candidate must receive a passing score on the **performance portion of the ATPA** within the two-year time limit of the Provisional Specialized Special Education Certificate. The Specialized Special Education Certificate allows the holder to teach students with the designated specialization of emotional disability and/or learning disability.

#### DEGREE REQUIREMENTS — SECONDARY EDUCATION/CERTIFICATION (Grades 7-12) (B.S. DEGREE; Minor Recommended)

University Liberal Arts Foundation for the College of Education  
Secondary Teacher Education Program (see pages 53-54).

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

PHI	303	Philosophy of Education	3 hours
EDU	313	Educational Psychology (PSY 373 or equivalent is a prerequisite)	3 hours
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:

EDU	412	Assessing Student Performance	2	hours
* SED	452	Reading and Learning Strategies for Middle and Secondary School	3	hours
* SED	462	Secondary Practicum	2	hours
** EDU	430	Classroom Management	3	hours
** SED	443	Secondary Curriculum Development	2	hours
** EDU	420	Orientation to Student Teaching	2	hours
SED	480	Student Teaching: Secondary School	8	hours

**Total Secondary Certification Hours 37 hours**

\* These courses must be taken concurrently.

\*\* These courses are taught on a six-week block basis so that student teaching can meet for a full day the other ten weeks.

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 52.

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.

The 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 40-47 semester hours of upper division 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 offered as an alternative to this program.

#### **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 for the purpose of initial teacher certification or for the purpose of an initial concentration in the College of Education. Those students seeking initial certification 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

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. These programs of study are designed to meet certification requirements for the Arizona State Department of Education. Coursework is presently offered in the following areas:

- Elementary Education
- Reading Education
- Secondary Education
- Teaching English as a Second Language/Bilingual 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 only 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 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 purchase an admission packet from the Graduate Office in the College of Education. 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 Graduate Office in the College of Education:

1. A graduate application;
2. A passing score on the Writing Proficiency Examination;
3. A 2.50 cumulative GPA as well as a 2.50 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;
4. Three references;
5. Official transcripts from all regionally-accredited colleges or universities attended;
6. An application for fingerprint clearance and a fingerprint card submitted to the Arizona State Department of Education (copies of these forms should be submitted to the College of Education);
7. An interview with the Director for Undergraduate and Graduate Studies and the Graduate Committee.

Master of Arts in Education (M.A.) candidates must submit the following to the Graduate Office in the College of Education:

1. A graduate application;
2. A record of satisfactory performance on the Miller Analogies Test (MAT) or the Graduate Record Examinations General Test (GRE)—waived for applicants with an undergraduate GPA of 3.00 or above;
3. A 2.80 cumulative GPA as well as a 2.80 GPA in the major area of certification;
4. A copy of current teaching certificate;

5. Two references;

6. A copy of most recent teacher evaluation;

7. An official transcripts from all regionally-accredited colleges or universities attended;

8. An interview with the Director for Undergraduate and Graduate Studies and the Graduate Committee.

Acceptance into the graduate M.A. programs in 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 imposed 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 Official 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 Director for Undergraduate and Graduate Studies prior to the student enrolling in coursework.

Master of Arts in Teaching (M.A.T.) candidates must submit to the Graduate Office for Distance Learning in the College of Education:

1. A graduate application;

2. 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)

Child Psychology (PSY 353 or equivalent) (3)

Educational Psychology (EDU 313 or equivalent) (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 COM 123 (3)

\* Coursework is not required. 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 — 45 hours

EDU 570 Philosophical/Social Issues 3 hours

EDU 363 Instructional Technology 3 hours

SPE 325 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 323 Curriculum and Methods: Science 3 hours

EED 343 Curriculum and Methods: Language Arts 3 hours

EDU 412 Assessing Student Performance 2 hours

EED 563 Curriculum and Methods: Social Studies 3 hours

EED 503 Curriculum and Methods: Mathematics 4 hours

EED 533 Curriculum and Methods: Reading/Decoding 4 hours

EED 443 Prescriptive Reading and Practicum 2 hours

\*\* EDU 430 Classroom Management 3 hours

\*\* EDU 420 Orientation to Student Teaching 2 hours

EED 480 Student Teaching 8 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 2 hours

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**

**63 - 65 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.

\*\* These courses are taught on a six-week block basis so that student teaching can be for a full day the other ten weeks. It is recommended that no other coursework be taken during the student teaching experience.

Refer to "B.S. Degree Requirements for Elementary Education" regarding certification requirements.

##### 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)

Adolescent Psychology (PSY 373 or equivalent) (3)

Educational Psychology (EDU 313 or equivalent) (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 — 33 hours

EDU 570 Philosophical/Social Issues 3 hours

EDU 363 Instructional Technology 3 hours

SPE 325 Educating Learners with Diverse Needs 3 hours

SED 442 Secondary Methods 3 hours

Acceptance into the College of Education is required for the following courses:

EDU	412 Assessing Student Performance	2 hours
*SED	552 Reading and Learning Strategies for Middle and Secondary School	3 hours
*SED	462 Secondary Practicum	2 hours
**EDU	430 Classroom Management	3 hours
*SED	543 Secondary Curriculum	2 hours
**EDU	420 Orientation to Student Teaching	2 hours
SED	480 Student Teaching	8 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. Acceptance into the Master of Education Degree Program is required.

\*\*These courses are taught on a six-week block basis so that student teaching can be for a full day the other ten weeks. It is recommended that no other coursework be taken during the student teaching experience.

Refer to "B.S. Degree Requirements for Secondary Education" regarding certification requirements.

### 3.) PROGRAM OF STUDY FOR SPECIAL EDUCATION CERTIFICATION (Grades K-12) LEARNING DISABILITIES AND EMOTIONAL DISABILITIES

In addition to complying with the program of study for the M.Ed. Elementary Education, the following courses must be completed:

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	408 Student Teaching: Learning Disabilities OR	
SPE	418 Student Teaching: Emotional Disabilities	3 hours
SPE	535 Diagnosis and Assessment in Special Education	3 hours

**Total Additional Hours 18 hours**

Refer to the "B.S. Degree Requirements for Special Education" regarding certification requirements.

### DEGREE REQUIREMENTS — MASTER OF ARTS (M.A.)

#### 1.) PROGRAM OF STUDY FOR READING EDUCATION\*

##### Prerequisites:

Elementary, Secondary, or Special Education Certification  
EED 433/533 Curriculum and Methods: Reading  
SED 452/552 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	471/571 Adolescent Literature OR	
ENG	473/573 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 also meet the Bilingual Education Endorsement with additional approved minimal off-campus credit. The English as a Second Language Endorsement (ESL) and the Bilingual Education Endorsement (BLE) are important for educators seeking employment in the Southwest where school populations are increasingly linguistically and ethnically diverse. For both endorsements, 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 when 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 other than 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 available from the College of Education Graduate Office.

#### 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

**English as a Second Language Requirements:**

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
ESL	510	Advanced Language Teaching Methodologies and Assessment	3 hours
ESL	511	Language Teaching Curriculum and Materials Design	3 hours

**Total Major Hours 38 hours**

\* Compliance with the Arizona Department of Education ESL Endorsement (valid for grade level of teaching) Certificate.

\*\* For the non-certification program in Teaching English as a Second Language (TESL), select one of these courses for a total of 35 hours.

This program is offered to cohort groups of 15 students.

**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 hours
---	---	Content Area Specialization Courses	6 hours
EED	583	Elementary School Mathematics	3 hours
EED	584	Elementary School Science	3 hours
RDG	503	Foundations in Reading (3) OR	
RDG	504	Innovative Reading Programs (3) OR	
RDG	606	Research in Reading (3)	3 hours

**Total Major Hours 35 - 37 hours**

\* This program is offered to cohort groups of 15 students.

**4.) PROGRAM OF STUDY FOR SECONDARY TEACHERS**

with an area of specialization to be designed in conjunction with the Director for Undergraduate and Graduate Studies.

**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 hours
EDU	502	Effective Classroom Management	3 hours
EDU	504	Collaborative Action Research - Part 1: Introduction	1 hour
EDU	505	Motivating Today's Learner	3 hours
EDU	506	Learning Styles and Mult. 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	510	Including Students with Special Needs in the Classroom	3 hours
EDU	511	Current Issues in Education	3 hours
EDU	512	Capstone Project	1 hour
EDU	513	Helping Students Become Self-Directed Learners	3 hours

**Total Major Hours 30 hours**

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 56 for a description of this distance learning master's degree.

**MINOR REQUIREMENTS —****ENGLISH AS A SECOND LANGUAGE**

ESL	414	English in its Social and Hist. Setting	3 hours
ESL	420	English Linguistics	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
ENG	201	Intermediate Grammar OR	
ENG	314	English Syntax OR	
ESL	530	Advanced Grammar for English Language Teaching	3 hours

**Total Major Hours 21 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**

BLE	414	English in its Social and Hist. Setting	3 hours
BLE	420	English Linguistics	3 hours
ENG	201	Intermediate Grammar OR	
ENG	314	English Syntax OR	
BLE	530	Advanced Grammar for English Language Teaching	3 hours
BLE	423	English Language Teaching: Foundations and Methodologies	3 hours
BLE	410	Advanced Language Teaching: Methodologies and Assessment	3 hours
BLE	412	Bilingual Methodologies and Materials	3 hours
BLE	480	Internship in Bilingual Education	3 hours

**Total Major Hours 21 hours**

Within one semester of acceptance into the College of Education, a student must pass the Arizona State Department of Education Bilingual Proficiency Exam in order to continue in the bilingual education minor program.

After completion of the minor and passage of the proficiency exam, a student may receive BLE endorsement.

**EDUCATION**

**EDU 202 2 hours**

**Overcoming Math Anxiety**

On demand. Designed to help math-anxious students to trace the

origins of their fears and work at conquering them. Myths about mathematics achievement will be discussed and put to rest. Emphasis will be placed on strategies needed to reduce math anxiety including relaxation training, self-monitoring, positive affirmation, math visualization techniques, and group discussion of difficulties in confronting mathematics.

**EDU 313** **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, and PSY 353 or PSY 373.

**EDU 355** **3 hours**  
**Using Computers in the Classroom**

On demand. This course will provide a basic knowledge of computers as related to education: How they work, what they can do for us, and current issues in all teaching disciplines. It will also give practical experience enabling the student to use the computer as a tool in teaching. Prerequisite: Instructor's approval.

**EDU 363** **3 hours**  
**Instructional Technology**

Every semester and every Summer. Emphasis is given on 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.). Prerequisite: CIS 180.

**EDU 412** **2 hours**  
**Assessing Student Performance**

Every semester and every Summer. This course focuses on the philosophy and strategies of testing, a variety of assessment techniques, examination construction, and critical thinking skills as applied to student assessment. Major projects of this course will include a course portfolio, an examination construction project, and alternative assessments for a unit in the student's field of study. Prerequisites: EED 323 or EED 343 or SED 442, PHI 303 or EDU 570, EDU 313, and admittance to the teacher education program.

**EDU 420** **3 hours**  
**Orientation to Student Teaching**

Every Fall and every Spring. This course is designed for students who are enrolled in student teaching, to help prepare them for their classroom experiences as well as assist them with entry into the job market upon completion of their student teaching experience. Administrators from public and private schools are invited to participate in this orientation as are other professional personnel. Additional instruction is given by the faculty and staff of the College of Education. Prerequisites: All required courses for certification except EDU 430, SED 443 or SED 543, ; concurrent enrollment in student teaching.

**EDU 430** **3 hours**  
**Classroom Management**

Every Fall and every Spring. This course is designed to allow the prospective teacher the opportunity to learn techniques involved in the successful management of a learning environment. Major emphasis is given to the establishment of a realistic discipline plan. Prerequisites: All required courses for certification except EDU 420, SED 443 or SED 543, and student teaching.

**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 463** **3 hours**  
**Presentational Technology**

Every Fall and every Spring on demand. This course provides students with an in-depth exposure to a wide range of presentational techniques and visual aids, ranging from simple visuals to computer-generated slide shows. Emphasis will be given to audience analysis, medium selection, and platform presentation skills practice. This course is designed primarily for majors in Business and Communications. Prerequisites: CIS 180A, CIS 180B, and SPC 113.

**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 502.

**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 504.

**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 505.

**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 506.

**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 507.

**EDU 509** **1 hour**

**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 508.

**EDU 510** **3 hours**

**Including Students with Special Needs in the Classroom**

Every semester. The focus of this course is to develop an understanding of the inclusion process for students with special needs. Participants will learn the rationale and laws relating to the inclusion movement, the diversity of needs of these students, and strategies for successful teaching of students with special needs. Prerequisite: EDU 509.

**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 510.

**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 513.

**EDU 513** **3 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 511.

**EDU 533** **3 hours**

**Computer Curriculum Management**

On demand. This course provides a basic knowledge of the tools and procedures available for creating and maintaining a computer science curriculum. Prerequisite: Instructor's approval.

**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 572** **3 hours**

**Leadership Development**

On demand. Various models, definitions, and case studies of leadership are examined within the context of the educational spectrum. The different roles and character formation of the leader are presented. Both the theory and methods of mentoring are studied as essential for the multiplication of strategically-minded leaders. Prerequisites: Admittance to the M.A. program, EDU 570, and EDU 571.

**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 MT** **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: 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 includes 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, EDU 412, 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 303** **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 of the future which await persons now entering the teaching profession. The course is designed for students who have already committed themselves to a career in education or are exploring a career in education. This course includes a first phase observation in the K-12 classroom. Prerequisite: Sophomore status.

## ELEMENTARY EDUCATION

**EED 323** **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. 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 343** **3 hours**  
**Curriculum and Methods: Language Arts**

Every semester and every Summer. This course is designed to familiarize the student with language arts skills. Emphasis will be placed on approaches to teaching and developing creative activities which involve students in the language arts curriculum. Laboratory experiences will include multi-cultural classrooms. Prerequisites: (Admittance to the Teacher Education program, PHI 303 or EDU 570, ENG 101, ENG 102, ESL 420 or 520, and COM 123 (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 433** **4 hours**  
**Curriculum and Methods: Reading/Decoding**

Every semester. Techniques for teaching major aspects of reading through various approaches, including phonics as well as developing lifelong learners. This course will also focus on the theoretical constructs undergirding different approaches to reading. Prerequisites: Admittance to the Teacher Education program, PHI 303, ESL 420, EED 343, junior status required, senior status recommended.

**EED 443** **2 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 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 343, EED 433 or EED 533, 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 480** **8 hours**  
**Student Teaching: Elementary School**

Every semester. The student is assigned to an approved school to serve as a student teacher for nine weeks 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.

**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 in the classroom, manipulative materials and the mathematics curriculum in the elementary school is 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 323.

**EED 533** **4 hours**  
**Curriculum and Methods: Reading/Decoding**

Every semester. Techniques for teaching major aspects of reading through various approaches, including phonics, as well as developing life-long learners. This course will also focus on the theoretical constructs undergirding different approaches to reading. Current reading theory and research will be addressed and incorporated throughout the course. Consideration will be given to multi-cultural issues. Prerequisites: Admittance to the M.Ed. program, EDU 570, ESL 520, and EED 343.

**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 323, ESL 520, EED 343, EDU 313, 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 and EED 403 or EED 503.

**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 433 or EED 533 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 433 or EED 533, 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 433 or EED 533, SED 452 or SED 552, RDG 503, and RDG 504.

**RDG 580****3 hours****Internship in Reading**

Every semester 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 433 or EED 533, 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 433 or EED 533, 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****3 hours****Secondary Methods**

Every semester and every Summer. 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 and active participation. Prerequisites: COM 123, PHI 303 or EDU 570, and EDU 313 (may be taken concurrently); EDU 363 is recommended.

**SED 443****2 hours****Secondary Curriculum Development**

Every semester and every Summer on demand. A study of secondary school curriculum development. Major emphasis is given to planning instructional objectives, lesson planning, and developing a model curriculum. Prerequisites: Admittance to the Teacher Education program, PSY 373, PHI 303, EDU 313, SED 442, SED 452, and SED 462.

**SED 452****3 hours****Reading and Learning Strategies for Middle and Secondary School**

Every semester. 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. Must be taken concurrently with SED 462. Prerequisites: Admittance to the Teacher Education program, PHI 303, EDU 313, and SED 442 (may be taken concurrently).

**SED 462****2 hours****Secondary Practicum**

Every semester. A school-centered experience designed to provide prospective teachers with intensive involvement in a middle or secondary school with students and classroom teachers. Must be taken concurrently with SED 452; may be taken concurrently with SED 442. Prerequisites: Admittance to the Teacher Education program, PHI 303 or EDU 570, and EDU 313.

**SED 480****8 hours****Student Teaching: Secondary School**

Every semester. The student is assigned to an approved school to serve as a student teacher for ten weeks under the supervision of an experienced teacher. Prerequisites: Required courses for a Secondary Certificate, completed major, a 2.50 GPA, admission to the Teacher Education program, and senior status. Credit only, no grade is given.

**SED 543****2 hours****Secondary Curriculum Development**

Every semester and every Summer on demand. Various orientations to curriculum development will be investigated. Emphasis is given to planning instructional objectives and developing a model curriculum. Students will be involved in a literature study focus on innovative practices in secondary schools. Prerequisites: Admittance to the M.Ed. program, EDU 570, EDU 313 or EDU 571, SED 442, SED 552, and SED 462.

**SED 552****3 hours****Reading and Learning Strategies for Middle and Secondary School**

Every semester. 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. Must be taken concurrently with SED 462. Prerequisites: Admittance to the M.Ed. program, EDU 570, and EDU 313 or EDU 571.

## SPECIAL EDUCATION

### **SPE 325** **3 hours** **Educating Learners with Diverse Needs**

Every semester. This course is a survey of the unique learning needs of exceptional students. Prerequisite: PSY 101.

### **SPE 355** **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 diagnosis techniques and related remedial practices. Prerequisite: SPE 325.

### **SPE 365** **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** **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** **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 408** **4 - 8 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** **4 - 8 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 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 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 325, SPE 355 or SPE 365, SPE 376, and SPE 386 (may be taken concurrently).

## TEACHING ENGLISH AS A SECOND LANGUAGE

### **ESL 410** **3 hours** **Advanced Language Teaching Methodologies and Assessment**

Every Spring on demand. Also ESL 510, BLE 410, and BLE 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 Fall and 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**

Fall 1999, and subsequent semesters. Also BLE 414. 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, BLE 420, and BLE 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 1999, and subsequent Fall and Summer semesters on demand. Also ESL 523, BLE 423, and BLE 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.

### **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** **Advanced**

Every Spring. 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.

### **ESL 520** **English Linguistics**

Every semester. 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** **English Language Teaching Foundations and Methodologies**

Fall 1999, and subsequent semesters. Also BLE 523, BLE 423, and BLE 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.

### **ESL 530** **Advanced**

Every Spring. 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.

### **ESL 580** **Internship**

Every semester. 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.

## BILINGUAL

### **BLE 410** **Advanced**

Every Spring. 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.

### **BLE 412** **Bilingual**

Every Spring. 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.

### **BLE 414** **English in its Social and Historical Setting**

Fall 1999, and subsequent semesters. Also ESL 414. 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 510****3 hours****Advanced Language Teaching Methodologies and Assessment**

Every Spring on demand. Also ESL 410, BLE 410, and BLE 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 523.

**ESL 520****1 or 3 hours****English Linguistics**

Every semester. Also ESL 420, BLE 420, and BLE 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 523****3 hours****English Language Teaching Foundations and Methodologies**

Fall 1999, and subsequent Fall and Summer semesters on demand. Also ESL 423, BLE 423, and BLE 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.

**ESL 530****3 hours****Advanced Grammar for English Language Teaching**

Every Summer on demand. Also BLE 530. 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 four weeks. The internship is individualized and arrangements can be made based on student needs. Prerequisites: ESL 514, ESL 520, and ESL 523.

**BILINGUAL EDUCATION****BLE 410****3 hours****Advanced Language Teaching Methodologies and Assessment**

Every Spring on demand. Also BLE 510, ESL 410, and 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, and writing) within the content areas and the use of standard tests. Prerequisite: ESL 423.

**BLE 412****3 hours****Bilingual Methodologies and Materials**

Every Spring on demand. This course teaches native language instructional strategies and the design and implementation of developmentally appropriate bilingual curricula in programs serving linguistically diverse K-12 school populations. Prerequisite: Passage of bilingual proficiency exam.

**BLE 414****3 hours****English in Its Social and Historical Setting**

Fall 1999, and subsequent semesters. Also ESL 414. An exploration of English language variation across sociocultural context and time. Implications for building culturally appropriate ways of interacting in professional settings are discussed.

**BLE 420****3 hours****English Linguistics**

Every semester. Also BLE 520, ESL 420, and 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.

**BLE 423****3 hours****English Language Teaching Foundations and Methodologies**

Every Fall on demand. Also BLE 523, ESL 423, and 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.

**BLE 480****3 hours****Internship in Bilingual Education**

Every semester. Also BLE 580. The student is assigned an approved, experienced teacher or coordinator of programs for bilingual education for four weeks. The internship is individualized and arrangements can be made based on student needs. Prerequisites: BLE 414, BLE 420, and BLE 423.

**BLE 510****3 hours****Advanced Language Teaching Methodologies and Assessment**

Every Spring on demand. Also BLE 410, ESL 410, and 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, and writing) within the content areas and the use of standard tests. Prerequisite: ESL 523.

**BLE 520****3 hours****English Linguistics**

Every semester. Also BLE 420, ESL 420, and 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.

**BLE 523****3 hours****English Language Teaching Foundations and Methodologies**

Every Fall on demand. Also BLE 423, ESL 423, and 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.

**BLE 530****3 hours****Advanced Grammar for English Language Teaching**

Every Summer on demand. Also ESL 530. A descriptive grammar of English, this course is specifically designed to aid teacher's understanding of the nature of language and the processes of language use.

**BLE 580****3 hours****Internship in Bilingual Education**

Every semester. Also BLE 480. The student is assigned an approved, experienced teacher or coordinator of programs for bilingual education for four weeks. The internship is individualized and arrangements can be made based on student needs. Prerequisites: BLE 514, BLE 520, and BLE 523.

# 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 a strong Biblical foundation for life and ministry, and 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, as well as individuals with 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. In the humanities, social sciences, and fine arts, 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 J. Niles Puckett Center for Christian Studies provides both foundational courses, and equips Christian Studies majors with a strong Biblical foundation for ministry, along with tools for service in the Christian community.

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

The College of Liberal Arts provides degree programs in the following areas:

Applied Music (Music Performance)	B.A.
Art Education (Certification Required)	B.A.
Biblical/Theological Studies	B.A.
Christian Education	B.A.
Church Music	B.M.
Communications	B.A.
Creative Arts in Worship	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.
Piano Performance	B.M.
Political Science	B.A.
Psychology	B.S.
Social Sciences	B.A.
Sociology	B.S.
Speech Teaching (Certification Required)	B.S.
Speech/Theatre	B.A.
Studio Art	B.A.
Theatre/Drama	B.A.
Vocal Performance	B.M.

In addition, the College of Liberal Arts offers minors in the following areas:

Behavioral Sciences  
Christian Studies  
English  
German  
History  
Humanities  
Justice Studies  
Mathematics  
Music  
Philosophy  
Political Science  
Pre-Law  
Psychology  
Social Sciences  
Sociology  
Spanish  
Speech  
Studio Art  
Theatre/Drama  
Writing/Journalism

### 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 28. 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\*\*

ENG 101 Academic Writing (3)  
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 54).

\* Students whose Writing Proficiency Examination (placement test) scores place them 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 34 hours for those students.

\*\*Biblical/Theological Studies, Christian Education, and Creative Arts in Worship majors, along with Christian Studies minors, must complete Track 1 of Christian Perspectives.

# 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 pages 53-54).

Admission to Teacher Education programs (see page 52).

Secondary Education major required (see page 52).

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
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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
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\* 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.

### DEGREE REQUIREMENTS — GRAPHIC DESIGN (B.A. DEGREE; No Minor Required)

Entrance into the Graphic Design major requires successful completion of ART III 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 67).

Electives (a 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 D  
ARH 2  
ARH 2  
ART 1  
ART 2  
ART 2  
ART 3  
---  
ART 4  
DGN 1  
DGN 2  
DGN 2  
DGN 2  
DGN 3  
DGN 3  
DGN 4  
DGN 4  
DGN 4  
SPC  
SPC

### DEGREE REQUIREMENTS — GRAPHIC DESIGN (B.A. DEGREE)

Entrance  
completion  
Design, DG  
selected art  
A review by  
pursuit.

University  
(see page 67)

Electives  
graduation

Studio Art

Studio Art  
Two-Dime  
Total Maj

Courses a  
should be tal

Studio Art

ARH  
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Addition

1. Two-D  
ART  
ART  
ART  
ART

**Graphic Design Major**

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 301	Photography II	3 hours
---	DGN, ART, or ARH electives	6 hours
ART 431	Portfolio Preparation	3 hours
DGN 112	Two-Dimensional Design	3 hours
DGN 223	Advertising Design	3 hours
DGN 263	Computer Graphics	3 hours
DGN 233	Graphic Design I	3 hours
DGN 333	Graphic Design II	3 hours
DGN 363	Computer Graphics II	3 hours
DGN 433	Graphic Design III	3 hours
DGN 411	Graphic Design Internship I	3 hours
DGN 412	Graphic Design Internship II	3 hours
SPC 113	Fundamentals of Speech	3 hours
SPC 311	Advanced Public Speaking	3 hours

**Total Major Hours** 60 hours

**DEGREE REQUIREMENTS — STUDIO ART****(B.A. DEGREE; No Minor Required)**

Entrance into the Studio Art 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 the College of Liberal Arts (see page 67).

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	36 hours
Two-Dimensional or Three-Dimensional Emphasis Hours	24 hours
<b>Total Major Hours</b>	<b>60 hours</b>

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
ARH ---	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 431	Portfolio Preparation	3 hours
DGN 112	Two-Dimensional Design	3 hours
DGN 115	Three-Dimensional Design	3 hours

**Total Studio Art Core Hours** 36 hours

**Additional Emphasis Requirements (Select one):****1. Two-Dimensional Emphasis — 12 hours**

ART --	Art Elective	3 hours
ART 201	Photography I	3 hours
ART 252	Printmaking I	3 hours
ART 323	Painting II	3 hours

**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** 24 hours

**2. Three-Dimensional Emphasis — 12 hours**

ART 272	Jewelry I	3 hours
ART 331	Sculpture II	3 hours
ART 363	Ceramics II	3 hours
ART ---	Art elective	3 hours

**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** 24 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.

**ART EDUCATION****ARE 323**

**3 hours**

**Art Media and Methods for the Elementary Teacher**

Fall 2000, and alternate years. 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**

Spring 2000, and alternate years. Exploration of materials, theory, and organization for presenting art activities, and development in the

arts for students on 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**

Fall 2000, and alternate years. A survey of ancient Near Eastern, Egyptian, Greek, Roman, and Medieval European art up to the Renaissance.

### **ARH 234** 3 hours **Art History II**

Spring 1999, and alternate years. A survey of Occidental Art during the Renaissance, Mannerist, Baroque, Rococo, Neo-Classic, Romantic and Modern epochs.

### **ARH 439** 3 hours **Contemporary Art**

Spring 2000, and alternate years. A survey of recent and current trends in art with special consideration of post-modernism and new concepts with media and modes of presentation.

### **ARH 442** 3 hours **American Art**

Fall 1999, and alternate years. An overview of the history of art in the United States from European settlement of the New World to today.

## 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 the figure 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 in 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. Prerequisite: ART 111.

### **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 323** 3 hours **Painting II**

Spring 1999, and alternate years. 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, welding, 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 2000, 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 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 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 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 resume. Prerequisite: Instructor's approval.

**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.

**DGN 233 3 hours****Graphic Design I**

Every Fall. An introduction to the visual organization of design elements and instruction in the use of equipment and tools of the professional designer. Prerequisite: ART 111.

**DGN 263 3 hours****Computer Graphics I**

Every semester. A study of computer image creation, transformation, and manipulation using the Macintosh platform to develop designs and publications generated in graphic software. Prerequisite: DGN 112 or DGN 223.

**DGN 333 3 hours****Graphic Design II**

Every Spring. Further study of visual communications through the use of verbal and visual elements. Emphasis will be on creative problem solving and concept development. Includes preparation of art work for reproduction. Prerequisite: DGN 233.

**DGN 363 3 hours****Computer Graphics II**

Every Spring. Continuation of advanced study and development of design generated in graphic software. 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 433****3 hours****Graphic Design III**

Fall 1999, and alternate years. A study of advanced principles in the development of visual communications concepts and creative problem solving. Further development in applications of publications, posters, and packaging. Introduction to campaign presentational skills. Prerequisite: DGN 333.

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# 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 of Communications and Speech also 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 through dramatic presentations and creative worship.

Performance and participation scholarships are available by audition.

## PUBLICATION LABS

*Canyon Echoes*, newspaper.

*Canyon Trails*, yearbook.

Both publications are 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)

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

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 Major Core

ART 201	Photography I	3 hours
CIS 180	Microcomputer Applications (A, G, and D or L)	3 hours
CIS 301	Principles of Information Systems	3 hours
COM 003	Communications Orientation	0 hours
COM 301	Broadcasting	3 hours
COM 310	Principles of Public Relations	3 hours
DGN 223	Advertising Design	3 hours
DGN 263	Computer Graphics I	3 hours
ENG 201	Intermediate Grammar	3 hours
ENG 301	Advanced Composition	3 hours
ENG 313	Business and Technical Writing	3 hours
JRN 200	News Writing and Reporting	3 hours
JRN 201	Publications I - Yearbook	3 hours
JRN 314	Small Newspaper I	3 hours
SPC 113	Fundamentals of Speech	3 hours
SPC 292	Group Discussion	3 hours
SPC 311	Advanced Public Speaking	3 hours
SPC 398	Communications and the Media	3 hours

**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	English in its Social and Historical Settings	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	3 hours

**Total Emphasis Hours 18 hours**

## DEGREE REQUIREMENTS — SPEECH TEACHING (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for Secondary Education Program (see page 54).

Admission to Teacher Education program (see page 52).

Secondary major required (see page 52).

Minor required.

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

### 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 109).

## 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 Communications Orientation 0 hours

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 Dramatic Arts for Teachers 3 hours

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 Broadcasting 3 hours

Every Spring. An overview of broadcasting and electronic media for radio and television.

## COM 305 Parliamentary Procedure 3 hours

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 Sports Broadcasting 3 hours

Every Summer. Also PED 307. A course designed to teach students the basic components of sports related radio or television broadcasting.

## COM 310 Principles of Public Relations 3 hours

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: Admission to Communications program or instructor's approval.

## COM 399 Practicum 1 - 4 hours

Every semester. See page 23.

## COM 411 Journalism Internship I 3 hours

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 Journalism Internship II 3 hours

Every semester. Continuation of COM 411. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 411.

## COM 413 Photojournalism Internship I 3 hours

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 Photojournalism Internship II 3 hours

Every semester. Continuation of COM 413. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 413.

**COM 415** **Public Relations Internship I** **3 hours**

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** **Public Relations Internship II** **3 hours**

Every semester. Continuation of COM 415. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 415.

**COM 417** **Broadcasting Internship I** **3 hours**

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** **Broadcasting Internship II** **3 hours**

Every semester. Continuation of COM 417. Further experience practicing functional skills under the supervision of a practitioner. Prerequisite: COM 417.

**COM 498** **Advanced Topics** **3 hours**

On demand. Topics of interest in communications not covered in depth in other courses will be considered. Prerequisite: Instructor's approval.

**COM 499** **Independent Study** **3 hours**

Every semester. See page 23.

## **JOURNALISM**

**JRN 200** **News Writing and Reporting** **3 hours**

Every semester. A course designed for students wishing to learn the basic skills of news writing and reporting.

**JRN 201** **Publications I - Yearbook** **3 hours**

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 through various publications such as the University student yearbook, *Canyon Trails*.

**JRN 300** **Advanced News Writing and Reporting** **3 hours**

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** **Publications II - Yearbook** **3 hours**

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** **Small Newspaper I** **3 hours**

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** **Photojournalism I** **3 hours**

Fall 2000, 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** **Photojournalism II** **3 hours**

Spring 2001, 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** **Publications Photography** **3 hours**

Every semester. A course designed to give students practical experience in producing photographs for college publications. Laboratory experience is provided through publications such as *Canyon Trails* and *Canyon Echoes*. May be repeated for a maximum of six hours of credit. Prerequisites: ART 201 and instructor's approval.

**JRN 399** **Practicum** **3 hours**

Every semester. See pages 23.

**JRN 414** **Small Newspaper II** **3 hours**

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** **Independent Study** **1 - 4 hours**

Every semester. See page 23.

## **SPEECH**

**SPC 113** **Fundamentals of Speech** **3 hours**

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** **Speech Participation** **1 hour**

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** **Group Discussion** **3 hours**

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** **Speech Participation** **1 hour**

Every semester. Same as SPC 200.

**SPC 301** **Ensemble Performance (Word Power, Inc./Canyon Tales)** **1 hour**

Every semester. Select auditioned ensemble. Provides opportunity for a wide variety of performance experiences in a 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 23.

**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 23.

# 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 and verbal texts 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 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 succeed in effectively communicating 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.

History presents students with chronological and theoretical frameworks that enable them to properly contextualize the human cultural, social, political, and economic experience. The department also seeks to equip its majors 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 67).

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
ENG 490B	Senior Seminar: Literature	3 hours
† ENG ---	Writing Electives	6 hours
ENG ---	English Electives	6 hours

Total Major Hours 42 hours

† Two of the following courses must be taken: ENG 301 (Advanced Composition), ENG 313 (Business and Technical Writing), ENG 411 (Creative Writing), or ENG 495 (Special Topics in English).

### DEGREE REQUIREMENTS — ENGLISH TEACHING\* (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Education  
Secondary Education Program (see pages 53-54).

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
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
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.

### DEGREE REQUIREMENTS — HISTORY (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

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
HIS 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 417	Constitutional History of the United States (3)

HIS ---	European History	6 hours
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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	3 hours
HIS 490	Historical Research	3 hours
HIS ---	Upper Division History Electives	3 hours

**Total Major Hours 36 hours**

# MINOR REQUIREMENTS — ENGLISH\*

ENG 200	Analysis of World Literature	3 hours
ENG 214	Intermediate Grammar OR	
ENG 314	English Syntax	3 hours
ENG 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.

# 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
HIS 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.

# 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 Grammar	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

ENG 301	Advanced Composition	3 hours
ENG 201	Intermediate Grammar OR	
ENG 314	English Syntax	3 hours
Select electives from:		3 hours
ENG 313	Business and Technical Writing (3)	
ENG 315	English in its Social and Historical Settings (3)	
ENG 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:

ENG 313	Business and Technical Writing	3 hours
ENG 315	English in its Social and Hist. Settings	3 hours
ENG 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**

# ENGLISH

**ENG 101 3 hours**

# Academic Writing

Every semester and every Summer. A course in writing academic prose, including various types of essays. Prerequisite: Passing score on the Writing Proficiency Examination.

**ENG 102 3 hours**

# Research Writing

Every semester and every Summer. A course exploring various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. Prerequisites: ENG 101 and passing score on the Writing Proficiency Examination.

**ENG 103****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. Prerequisite: Placement from the Writing Proficiency Examination.

**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.

**ENG 301****3 hours****Advanced Composition**

Every Spring. A course for students who wish to develop their skills in academic and nonfiction writing. Prerequisites: Grade of 2.00 or above in ENG 101 and ENG 102, or ENG 103.

**ENG 313****3 hours****Business and Technical Writing**

Every semester. A course designed to present the best practices in writing business communications and technical reports. 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 411****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. 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 the 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 Christian authors, or works which address Christian themes, with the goal of integrating Christian belief and literary study. The seminar's focus will be flexible. 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. 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. 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 23.

## 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 semester. 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 modern civilization.

**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 examined. Required for all history majors. Prerequisites: Nine hours from the following: HIS 103, HIS 104, HIS 105, and HIS 106.

**HIS 303** **3 hours**  
**History of 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**

Spring 1999, and alternate years. 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.

**HIS 317** **3 hours**  
**Studies in the Non-Western World**

Spring 1999, and alternate years. A study of the non-western world. Geographic areas studied will vary. Emphasis will be on culture, history and the contemporary situations. Prerequisite: Three semester hours of history.

**HIS 322** **3 hours**  
**Medieval History**

Spring 1999, and Fall 2000. 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**

Fall 2000, and Spring 2002. 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; Catholic/Counter Reformations; rise of nationalism and capitalism. Prerequisite: HIS 106.

**HIS 343** **3 hours**  
**Colonial America**

Spring 1999, and Fall 2000. This course examines the political, economic, social, and cultural history of the American colonies from initial settlement to the end of the Revolutionary War (1783). Prerequisites: HIS 103, HIS 104, and HIS 246, or instructor's approval.

**HIS 345** **3 hours**  
**Modern America**

Spring 2000, and Fall 2001. A political, economic, and cultural history of the United States from the end of the Spanish American War to the present. Prerequisites: HIS 103, HIS 104, and HIS 246, or instructor's approval.

**HIS 352** **3 hours**  
**History of England to 1714**

Fall 2000, and alternate years. 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 105 and HIS 246, or instructor's approval.

**HIS 353** **3 hours**  
**History of Christianity**

Every Fall. 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**

Fall 1999, and Spring 2001. 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** **Civil War and Reconstruction** **3 hours**  
 Fall 1999, and Spring 2001. An examination of the causes, conduct and consequences, both political and military, of the American Civil War. Prerequisite: HIS 103, HIS 104, HIS 246, or instructor's approval.

**HIS 413** **Russian History** **3 hours**  
 Fall 1999, and Spring 2001. 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 431** **American Military History** **3 hours**  
 Every Fall. A survey of the development of the American military and militia system from its English origin through the Vietnam War. 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 475** **Christianity and the Legal Profession** **3 hours**  
 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 the course. Prerequisite: Senior status or instructor's approval.

**HIS 490** **Historical Research** **3 hours**  
 Every Fall. An exploration of historical research. Required of all history majors. Prerequisites: HIS 103, HIS 104, HIS 105, HIS 106, HIS 246, history major, and instructor's approval.

**HIS 497** **Internship in History** **1 - 4 hours**  
 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** **Advanced Topics** **3 hours**  
 On demand. Topics of interest to historians, not covered in depth in other courses, will be offered. Prerequisite: Instructor's approval.

**HIS 499** **Independent Study** **1 - 4 hours**  
 On demand. See page 23.

## MODERN LANGUAGES

### Chinese

**CHI 101** **Elementary Chinese I** **4 hours**  
 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** **Elementary Chinese II** **4 hours**  
 On demand. Continuation of CHI 101. Prerequisite: CHI 101 or equivalent.

### French

**FRE 101** **Elementary French I** **4 hours**  
 Every Fall. A study stressing conversation and the fundamentals of grammar and pronunciation, and simple composition, together with graded reading.

**FRE 102** **Elementary French II** **4 hours**  
 Every Spring. Continuation of FRE 101. Prerequisite: FRE 101 or equivalent.

**FRE 201** **Intermediate French I** **4 hours**  
 Every Fall. Review, composition, and extensive speaking and reading. Prerequisite: FRE 102.

**FRE 202** **Intermediate French II** **4 hours**  
 Every Spring. Continuation of FRE 201. Prerequisite: FRE 201.

**FRE 499** **Independent Study** **1 - 4 hours**  
 On demand. See page 23.

### German

**GER 101** **Elementary German I** **4 hours**  
 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** **Elementary German II** **4 hours**  
 Every Spring. Continuation of GER 101. Prerequisite: GER 101.

**GER 201** **Intermediate German I** **4 hours**  
 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** **Intermediate German II** **4 hours**  
 Every Spring. Continuation of GER 201. Prerequisite: GER 201 or instructor's approval.

**GER 311** **German Conversation** **3 hours**  
 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** **German Composition** **3 hours**  
 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** **Heidelberg, Germany Tour** **3 hours**  
 On demand. An opportunity to combine intensive communicative courses in the German language and culture in a centuries-old setting. Prerequisite: Instructor's approval.

**GER 363** **Civilization of Germany** **3 hours**  
 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 499** **1 - 4 hours**

**Independent Study**

On demand. See page 23.

**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 oral 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 Grammar, Readings**

Every Fall. Designed to give the student practice in writing in Spanish. Prerequisite: SPA 311.

**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 Composition**

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 23.

# 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 students with sudden but hard-won insights into structure; engage students in playful yet disciplined creativity; and encourage students 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.

Students have the opportunity to enhance their contact with faculty, other math students, and the national mathematical communities through the Grand Canyon University student chapter of the Mathematical Association of America.

The facilities for mathematics include a Computer Center and the Dynamical Systems Lab where students use computers to study fractals, chaos, and iterations. The Computer Center houses a VAX 6000-410

computer and terminals, a large network of IBM compatible PC's, and other micro-computers.

## DEGREE REQUIREMENTS — MATHEMATICS (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

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
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
MAT	498A	Project in Mathematics OR	
MAT	498B	Project in Dynamical Systems	3 hours
MAT	---	Upper Division Math. Electives (excluding MAT 396 and MAT 483)	6 hours
PHY	115	University Physics I	4 hours
PHY	116	University Physics II	4 hours

**Total Major Hours** 56 hours

### DEGREE REQUIREMENTS — MATHEMATICS FOR ENGINEERS\* (3:2 PROGRAM: B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

Minor required.

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 211	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
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 396 and MAT 483)	12 hours
PHY 115	University Physics I	4 hours
PHY 116	University Physics II	4 hours
PHY ---	Upper Division Physics OR	
CHM ---	Upper Division Chemistry	8 hours

**Total Major Hours 67 hours**

\* An alternative application sequence may be planned with department consultation and written approval.

\* 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.

### 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 54).

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
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
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.

### 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

On demand. 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

On demand. 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: systems of numeration, the real number system, algebraic models, number theory, 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. Topics from logic and geometry, elementary probability and statistics, math of finance, and number theory. 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 an introduction to vector analysis. Prerequisite: MAT 270 or equivalent.

**MAT 272** **4 hours**  
**Analytical Geometry and Calculus III**

Every Fall. A study of partial differentiation and multiple integration, infinite series and sequences, and differential equations. Prerequisite: MAT 271 or equivalent.

**MAT 300** **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. Prerequisite: MAT 271.

**MAT 310** **3 hours**  
**College Geometry**

Fall 1999, 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 1999, 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 1999, 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 2000, 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 hour**  
**Partial Differential Equations**

Fall 2000, 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**

Spring 1999, and alternate years. 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 483** **3 hours**  
**Mathematics in the Secondary School**

Fall 2000, 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. 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 498A** **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. Prerequisites: MAT 372, MAT 373, and instructor's approval.

**MAT 498B** **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. Prerequisites: MAT 372, MAT 373, MAT 443, and instructor's approval.

**MAT 499** **1 - 4 hours**  
**Independent Study**

Every semester. See page 23.

# 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, faculty, and artists-in-residence 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 67).

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.

#### Music Core:

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
MUS	371	Music History I	3 hours
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.

### 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
M--	---	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
M--	---	Applied Piano	1 hour
MUS	391	Counterpoint	2 hours

**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 67).

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
MUS	371	Music History I	3 hours
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.

## CHURCH MUSIC

Students elect emphasis from Choral Conducting, Instrumental, Keyboard, or Vocal

#### Church Music Core

CAW	2--	Introduction to Christian Worship	3 hours
CAW	300	Worship Participation	2 hours
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, but not limited to, the following:

MED	232	Woodwind Instrument Class (1)	8 hours
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--	394	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

<b>Total Emphasis Hours</b>	<b>24 - 26 hours</b>
<b>Total Church Music Core Hours</b>	<b>32 hours</b>
<b>Total Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>97 - 99 hours</b>

## 2. Instrumental Emphasis

M-- ---	Major Applied Instrument	16 hours
M-- 119, 219	Applied Voice	3 hours

<b>Total Emphasis Hours</b>	<b>19 hours</b>
<b>Total Church Music Core Hours</b>	<b>32 hours</b>
<b>Total Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>92 hours</b>

## 3. Keyboard Emphasis

M-- ---	Major Applied Piano	16 hours
M-- ---	Secondary Applied	2 hours
M-- ---	Applied Voice	2 hours
MUS 429	Accompanying	2 hours
MUS ---	Advanced Keyboard Skills	1 hour

<b>Total Emphasis Hours</b>	<b>21 hours</b>
<b>Total Church Music Core Hours</b>	<b>32 hours</b>
<b>Total Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>94 hours</b>

## 4. Vocal 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 481	Vocal Pedagogy	2 hours

<b>Total Emphasis Hours</b>	<b>23 hours</b>
<b>Total Church Music Core Hours</b>	<b>32 hours</b>
<b>Total Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>94 hours</b>

## 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 readjust 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

<b>Piano Performance Hours</b>	<b>48 hours</b>
<b>Bachelor of Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>89 hours</b>

## 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
M-- ---	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

<b>Vocal Performance Hours</b>	<b>54 hours</b>
<b>Bachelor of Music Core Hours</b>	<b>41 hours</b>
<b>TOTAL HOURS</b>	<b>95 hours</b>

## DEGREE REQUIREMENTS — MUSIC EDUCATION (B.S. DEGREE; No Minor Required)

University Liberal Arts Foundation for the Secondary Education Program (see page 54).

Additional Emphasis hours required.

Admission to Teacher Education programs (see pages 52).

Secondary Education major required (see page 52).

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.

Courses are listed alphabetically by prefix, not in the order they should be taken. See Academic Advisor for sequence.

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.

### 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
MUS 371	Music History I	3 hours

MUS 372	Music History II	3 hours
MUS 381	Conducting I	2 hours
MUS 392	Form and Analysis	3 hours
---	Piano Proficiency	0 hours

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**Total Music Core Hours 45 hours**

**Music Education Core**

<b>Secondary Certification</b>		<b>36 hours</b>
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 167	Class Guitar	1 hour
MUS 382	Conducting II	2 hours

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**Total Music Education Core Hours 46 - 49 hours**

\* MED 381 is not required for Secondary certification but is required for K - 12 Endorsement.

**Additional Emphasis Requirements (Select one):**

<b>1. Choral Conducting (Major applied instrument, voice or piano)</b>		
MAP 390	Junior Recital (Conducting)	0 hours
MAP 394	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 405	Conducting Practicum	1 hour
MUS 411	Choral Arranging	2 hours
MUS 471	Choral Literature	3 hours
MUS 481	Vocal Pedagogy	2 hours

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**Total Emphasis Hours 15 hours**

<b>2. Instrumental Conducting</b>		
MAP 390	Junior Recital (Conducting)	0 hours
MAP 394	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 320	Jazz Improvisation	1 hour
MUS 391	Counterpoint	2 hours
MUS 405	Conducting Practicum	1 hour
MUS 462	Orchestration	2 hours

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**Total Emphasis Hours 14 hours**

**MINOR REQUIREMENTS — MUSIC**

M--	Major Applied Instrument OR Voice	4 hours
	(Music minors choosing piano as their major applied instrument must pass the piano proficiency examination.)	
M--	Secondary Applied Piano OR	
MEN	Voice Ensemble (3 semesters) OR	
MUS 420	Advanced Keyboard Skills OR	
MEN 304	Piano Ensemble	3 hours
MUS 429	Accompanying (Piano emphasis only)	3 hours
MUS 009	Recital Attendance (four semesters)	0 hours
MUS 111	Italian Diction	(1 hour)
	(Voice emphasis only)	
MUS 112	French Diction	(1 hour)
	(Voice emphasis only)	
MUS 211	German Diction	(1 hour)

	(Voice emphasis only)	
MUS 191A	Aural Perception I	2 hours
MUS 191B	Harmony I	2 hours
MUS 281	Fundamentals of Conducting OR	
MUS 381	Conducting I	2 hours
MUS 371	Music History I OR	
MUS 372	Music History II	3 hours

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**Total Minor Hours 19 (22) hours**

## 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 2001, 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 393 3 hours**  
**Hymnology**

Fall 2000, and alternate years. Also MIN 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.

**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 100, CAW 200, and CAW 300.

**MCH 471 3 hours**  
**Choral Literature**

Spring 2000, 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 major 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 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**

Fall 2000, and alternate years. 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 225** **3 hours**  
**Survey of Jazz in America**

Every Fall. A survey of music in the jazz idiom from its origin to present. Introduction to the principal periods, performers, and styles of jazz with emphasis on listener appreciation and understanding.

**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 2000, 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 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 371** **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. Prerequisites: MUS 191A, MUS 191B, and junior or senior status, or instructor's approval.
- MUS 372** **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. Prerequisites: MUS 191A, 191B, and junior or senior status, or instructor's approval.
- MUS 373** **2 hours**  
**Piano Literature I**  
Fall 2000, 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 1999, 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 1999, 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 2000, 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 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 in 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 pages 23.
- 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 2000, 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 1999, 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 2000, 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 2000, 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 23.

## 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** **2 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** **2 - 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** **2 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 readjust, 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** **2 - 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** **2 - 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** **2 - 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 129.

**M-A, M-E, M-M 329** **2 - 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** **2 - 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** **2 - 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 - 2 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 - 2 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 - 2 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 hour**  
**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 2000, 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 hour**  
**Music in the Elementary Grades**  
 Fall 2000, 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 1999, 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**  
 Every Fall. 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 ensemble, 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. An ensemble of 40 voices 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 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 learn 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 199** **1 hour**

**Grand Guitars**

On demand. Instrumental performance ensemble for guitar emphasizing group performance in a variety of musical idioms. Prerequisite: Instructor's approval.

**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.



# J. Niles Puckett Center for Christian Studies

## DEPARTMENT DESCRIPTION

The Dr. J. Niles Puckett Center for Christian Studies exists to guide students in challenging learning experiences, to provide them with a strong Biblical foundation for ministry, and to equip them for service in the Christian community. The courses are designed to provide students with an understanding of the Bible and its historical and theological significance for the Christian faith, preparation and planning for ministry, and guidance through spiritual development.

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

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

Christian Studies students may choose from three degree programs. Each degree program seeks to provide a solid foundation for working with people in all fields of Christian endeavor as well as 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 in the local church context, either in preparation for seminary or for a ministry of designing and carrying out the Christian education program in a church context.

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.

### DEGREE REQUIREMENTS — BIBLICAL/THEOLOGICAL STUDIES (B.A. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

Minor required.

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)

#### 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
CIS	180D	Desktop Publishing	1 hour
ENG	201	Intermediate Grammar	OR
ENG	314	English Syntax	3 hours
ENG	301	Advanced Composition	3 hours
HTH	353	History of Christianity	3 hours
HTH	303	History of Christianity in America	3 hours
HTH	333	Psychology of Religion	3 hours
HTH	373	Christian Doctrines	3 hours
HTH	463	World Religions	3 hours
MIN	202	Introduction to Ministry	3 hours
MIN	243	Church Administration	3 hours
MIN	315	Basic Christian Discipleship	3 hours
MCH	378	Music in Worship	3 hours
MIN	443	Leadership for Ministry	3 hours
MIN	490	Senior Seminar	3 hours
MIN	497	Ministerial Internship	3 hours

Select 12 hours of electives from the following courses:

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 (3)
GRK	284	Beginner's Greek II (3)
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                      64 hours**

#### **DEGREE REQUIREMENTS— CHRISTIAN EDUCATION**

**(B.A. DEGREE; Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

Note the following modifications in the ULAF requirements:

<b>I. Christian Perspectives:</b>	<b>6 hours</b>
Track 1:	
BIB 113	Old Testament History (3) AND
BIB 123	New Testament History (3)

<b>IV. Personal and Social Environment:</b>	<b>6 hours</b>
PSY 101	General Psychology (3)
SOC 101	Introduction to Sociology (3)

#### **Christian Education Major:**

ACC 211	Financial Accounting	3 hours
BIB 433	Life and Teachings of Christ	3 hours
BIB 442	The Pentateuch	3 hours
CIS 180B	Beginning Spreadsheet	1 hours
CIS 180C	Beginning Database	1 hours
CIS 180D	Desktop Publishing	1 hours
EDU 313	Educational Psychology	3 hours
ENG 201	Intermediate Grammar OR	
ENG 314	Advanced Grammar	3 hours
ENG 301	Advanced Composition	3 hours
HTH 333	Psychology of Religion	3 hours
HTH 303	History of Christianity in America	3 hours
HTH 373	Christian Doctrines	3 hours
MCH 378	Music in Worship	3 hours
MIN 202	Introduction to Ministry	3 hours
MIN 213	A Survey of Christian Education	3 hours
MIN 243	Church Administration	3 hours
MIN 315	Basic Christian Discipleship	3 hours
MIN 393	Hymnology	3 hours
MIN 443	Leadership for Ministry	3 hours
MIN 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                      69 hours**

#### **DEGREE REQUIREMENTS — CREATIVE ARTS IN WORSHIP**

**(B.A. DEGREE; No Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

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:

<b>I. Christian Perspectives:</b>	<b>6 hours</b>
Track 1:	
BIB 113	Old Testament History (3) AND
BIB 123	New Testament History (3)

<b>IV. Personal and Social Environment</b>	<b>3 hours</b>
PSY 101	General Psychology (3)

#### **Creative Arts in Worship Major**

ARH 100	Art Appreciation	3 hours
ART 201	Photography	3 hours
CAW 2---	Introduction to Christian Worship	3 hours
CIS 180D	Desktop Publishing	1 hour
CIS 180G	Pagemaker	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 242	Church Administration	3 hours
MIN 315	Basic Christian Discipleship	3 hours
MIN 443	Leadership for Ministry	3 hours
MCH 378	Music in Worship	3 hours
MCH 393	Hymnology	3 hours
MUS 252	Music Appreciation	3 hours
SPC 311	Advanced Public Speaking	3 hours
TRE 270	Christian Drama	3 hours

Select one emphasis:

#### **Music Emphasis**

* CAW 300	Worship Participation	2 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
MIN 490	Senior Seminar	3 hours
MUS 009	Recital Attendance (four semesters required)	0 hours
+ MUS 191A	Aural Perception	2 hours
+ MUS 191B	Harmony	2 hours
MUS 281	Fundamentals of Conducting OR	
MUS 381	Conducting I	2 hours

**Total Music Emphasis                      26 hours**

\* May not be taken concurrently with Internship.

+ Must be taken concurrently.

#### **Speech/Performance Emphasis**

* CAW 300	Worship Participation	2 hours
CAW 412	Worship Internship I — Speech/Performance Emphasis	3 hours
CAW 413	Worship Internship II — Speech/Performance Emphasis	3 hours
MIN 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 26 hours**

\* May not be taken concurrently with Internship.

### Theatre Emphasis

* CAW 300	Worship Participation	2 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

Total Theatre Emphasis 26 hours

\* May not be taken concurrently with Internship.

Total Major Hours 73 hours

### 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	
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
MIN 443	Leadership for Ministry	3 hours
PHI 101	Introduction to Philosophy OR	
PHI 225	Introduction to Ethics	3 hours

Total Minor Hours 18 hours

### MINOR REQUIREMENTS—PHILOSOPHY

PHI 101	Introduction to Philosophy	3 hours
PHI 312	Foundations of Western Thought OR	
PHI 313	Shapers of the Modern Mind	3 hours
PHI 225	Introduction to Ethics OR	
PHI 311	Business Ethics OR	
PHI 329	Biomedical Ethics	3 hours
PHI ---	Philosophy electives	9 hours

Total Minor Hours 18 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 Center for Christian Studies.

### BIB 113 3 hours

#### Old Testament History

Every Fall. 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 Spring. 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

Spring 2001, and alternate years. This course helps equip students interested in more serious Biblical studies to understand and use basic principles of Biblical interpretation. An introduction to Biblical interpretation is the focus, with a study of the several literary styles in Biblical literature and an exposure to and evaluation of various methods of Biblical analysis from a conservative viewpoint. Prerequisites: BIB 113 and BIB 123.

### BIB 423 3 hours

#### General Epistles and Revelation

Spring 2000, 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

Spring 2000, and alternate years. A study of the writing 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 2000, and alternate years. A study of the life of Jesus, with special attention given to his person, teachings, and work. Prerequisites: BIB 112 and BIB 123.

### BIB 442 3 hours

#### The Pentateuch (Genesis-Deuteronomy)

Fall 1999, 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 2001, and alternate years. A study of the life and times of the apostle Paul, with an interpretation of his epistles and their historical setting. Prerequisites: BIB 113 and BIB 123.

### BIB 453 3 hours

#### Old Testament Poetry

Fall 2000, and alternate years. 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

Fall 1999, and alternate years. 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 23.

**CREATIVE ARTS IN WORSHIP****CAW 2--****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 2--.

**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 were 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 1999, and alternate years. 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 23.

**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**

Fall 2000, 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 243** **3 hours**  
**Church Administration**

Every Spring. 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.

**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 to correlate 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**  
**Basic Christian Discipleship**

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.

**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. Recommended prerequisites: EDU 303 and EDU 313.

**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 the 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 practice 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 393** **3 hours**  
**Hymnology**

Fall 2000, 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.

**MIN 443** **3 hours**  
**Leadership for Ministry**

Every Fall. 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 490** **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 students' final semester. 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 201, 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 23.

## NEW TESTAMENT GREEK

**GRK 274** **4 hours**  
**Beginner's Greek I**

Fall 1999, 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 study the Greek New Testament.

**GRK 284** **4 hours**  
**Beginner's Greek II**

Spring 2000, and alternate years. Continuation of GRK 274. A study of McWice's Grammar is completed, with simple exercises for reading and translation. Prerequisite: GRK 274 or equivalent.

**GRK 373** **3 hours**  
**Advanced Greek Grammar I**

Fall 2000, 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 1999, 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 23.

## **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 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 303** **3 hours**  
**Philosophy of Education**

Every semester. Also EDU 303. 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. Prerequisite: Sophomore status.

**PHI 312** **3 hours**  
**Foundations of Western Thought**

Spring 2000, and alternate years. 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**

Spring 2001, and alternate years. 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 317** **3 hours**  
**Organizational Ethics**

Every semester. A study of the application of moral concepts and principles to business practice. Topics include product quality and safety, truth in advertising, employee rights and responsibilities, organizational life, and the capitalist system.

**PHI 318** **3 hours**  
**Faith and Reason**

Fall 2000, and alternate years. 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 329** **3 hours**  
**Biomedical Ethics**

Every semester. A study of the application of moral concepts and principles to issues arising in the health care professions. Topics include role conflicts, paternalism, truth telling, informed consent, human experimentation, abortion, euthanasia, and the allocation of scarce resources.

**PHI 463** **3 hours**  
**World Religions**

Spring 1999, and alternate years. 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 499** **1- 4 hours**  
**Independent Study**

On demand. See page 23.

# 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.

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.

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. Leaders of the new millennium should learn what is, and ponder what should be, the relationship between the individual citizen and the collective body politic.

The Pre-law minor helps students develop skills necessary for success in law school. Basic objectives include the development of comprehensive, articulate communication, and 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.

The Social Sciences major and minor provide the student with an interdisciplinary approach in understanding the fields of economics, geography, history, political science, psychology, and sociology. The Social Sciences minor is especially useful for Elementary Education majors.

### DEGREE REQUIREMENTS — INTERNATIONAL STUDIES (B.A. DEGREE: Minor Required)

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

International Studies Major

BUS	414	Intercultural Communications	3 hours
ECN	201	Macroeconomics	3 hours
GEO	121	World Geography	3 hours
HIS	105	Western Civilization to 1500	3 hours
PHI	225	Introduction to Ethics	3 hours
PHI	463	World Religions	3 hours
POS	497	Political Science Internship	3 hours
POS	498	Advanced Topics: Public Policy	3 hours
PSY	101	Introduction to Psychology	3 hours
SPA	373	Hispanic Civilization	3 hours
SOC	101	Introduction to Sociology	3 hours
SOC	313	Cultural Anthropology	3 hours
SOC	498	Advanced Topics: Third World Issues	3 hours
* UNV	300	Study Abroad	6 hours
UNV	490	International Studies Seminar	3 hours
† ---	---	Foreign language of choice	16 hours

Select two electives from: 6 hours

††BUS	410	International Business (3)
ECN	202	Microeconomics (3)
††ECN	423	Comparative Economic Systems (3)
ENG	200	Analysis of World Literature (3)
ENG	315	English in its Social and Hist. Settings (3)
ENG	497	Internship (with an international emph.) (1-4)
HIS	413	Russia and Eastern Europe (3)
HIS	498	Advanced Topics: Non-Western World (3)
HIS	498	Latin American History (3)
POS	380	Comparative Governments (3)

Total Major Hours 36 hours

\* An approved course of study at a recognized international college or university, an international program sponsored by the Coalition for Christian Colleges and Universities, or a Grand Canyon University international studies program. All students must register with the Grand Canyon University Center for International Education before beginning these six hours. A minimum of six weeks must be spent living abroad.

† You will need to pass 16 hours of coursework in a second language or demonstrate proficiency by examination in listening, speaking, and reading by examination.

†† The College of Business will waive prerequisites for BUS 410 and ECN 423.

**DEGREE REQUIREMENTS — JUSTICE STUDIES****(B.S. DEGREE: Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement.)

**Justice Studies Major**

* JUS	100	Introduction to Justice Studies	3 hours
JUS	296	Social Research	3 hours
JUS	303	Criminal Justice Theory	3 hours
* JUS	306	The Police Function	3 hours
* JUS	308	Adjudication Function	3 hours
JUS	310	Correctional Function	3 hours
JUS	311	Justice and Ethics	3 hours
* JUS	461	Substantive Law	3 hours
* JUS	462	Procedural Law	3 hours
JUS	490	Senior Seminar	3 hours
JUS	497	Internship in Justice Studies	3 hours

--- --- Advanced Topic courses 6 hours

Recommended topics:

Juvenile Delinquency/Gangs,  
Comparative Criminal Law,  
Law and Social Control,  
American Minority Peoples (SOC 423)

**Total Major Hours 39 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.

**DEGREE REQUIREMENTS — POLITICAL SCIENCE****(B.A. DEGREE: Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement.)

**Political Science Major**

POS	100	Introduction to Political Science: (Politics: Power and the Individual)	3 hours
POS	252	Federal Government	2 hours
POS	262	Arizona Government	1 hour
POS	323	International Relations	3 hours
POS	370	Politics, Religion and Ethics	3 hours
POS	380	Comparative Governments	3 hours
POS/HIS	416	American Diplomatic History OR	
POS/HIS	417	American Constitutional History	3 hours
POS	---	Political Thought	3 hours
POS	497	Internship	3 hours

--- --- Advanced Topic courses 6 hours

Recommended topics include:  
Political Parties and Ideologies,  
Campaigns and Elections,  
Public Policy and Propaganda,  
"Hot Spots": Issues in Foreign Policy

**Total Major Hours: 30 hours**

**DEGREE REQUIREMENTS — PSYCHOLOGY****( B . S .****DEGREE: Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement.)

**Psychology Major**

PSY	101	General Psychology	3 hours
PSY	253	Personality Development	3 hours
PSY	324	Learning and Cognition	3 hours
PSY	350	Social Psychology	3 hours
PSY	363	Probability and Statistics	3 hours
PSY	414	History and Systems of Psychology	3 hours
PSY	450	Experimental Psychology	4 hours
PSY	---	Upper division Psychology electives	6 hours

Select a course from each category: 6 hours

**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)	

**Total Major Hours 34 hours**

**DEGREE REQUIREMENTS — SOCIAL SCIENCES****(B.A. DEGREE: Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts  
(see page 66).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement.)

**Social Sciences Major**

ECN	201	Macroeconomics Principles OR	
ECN	202	Microeconomic Principles	3 hours
GEO	111	Physical Geography OR	
GEO	121	World Geography	3 hours
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
POS	252	Federal Government	2 hours
POS	262	Arizona Government	1 hour
PSY	101	General Psychology	3 hours
PSY	363	Probability and Statistics	3 hours
PSY	450	Experimental Psychology	4 hours
SOC	101	Introduction to Sociology	3 hours
SOC	296	Social Research	3 hours
SOC	363	Probability and Statistics	3 hours
---	---	Upper division electives:	9 hours
Select from geography, history, political science, psychology, sociology			

**Total Major Hours 39-40 hours**



**DEGREE REQUIREMENTS — SOCIOLOGY****(B.S. DEGREE; Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

**Sociology Major**

SOC 101	Introduction to Sociology	3 hours
SOC 341	Social Problems	3 hours
SOC 296	Social Research	3 hours
SOC 313	Cultural Anthropology OR	
SOC 423	American Minority Peoples	3 hours
SOC 333	Marriage and the Family OR	
SOC 385	Human Sexuality	3 hours
SOC 363	Intro. to Probability and Statistics	3 hours
SOC 483	History of Social Thought	3 hours
SOC 490	Senior Seminar	3 hours
SOC 497	Internship in Sociology	3 hours
SOC ---	Upper division Sociology electives	

Select three of the following courses: 9 hours

SOC 353	Urban Sociology (3)
SOC 350	Social Psychology (3)
SOC 383	Drug Abuse Seminar (3)
SOC 431	Social Work (3)

**Total Major Hours 39 hours****MINOR REQUIREMENTS — BEHAVIORAL SCIENCES\***

SOC 101	Introduction to Sociology	3 hours
SOC 483	History of Social Thought OR	
SOC 313	Cultural Anthropology	3 hours
PHI 101	Introduction to Philosophy	3 hours
PSY 101	General Psychology	3 hours
---	Upper division Psychology OR	
---	Sociology electives	6 hours

**Total Minor Hours 18 hours**

\* Not recommended for prospective teachers in secondary education.

**MINOR REQUIREMENTS — JUSTICE STUDIES**

JUS 100	Introduction to the Justice System	3 hours
JUS 303	Theory of Criminal Justice	3 hours
JUS 306	The Police Function	3 hours
JUS 308	The Adjudication Function	3 hours
JUS 310	The Correctional Function	3 hours
JUS 311	Justice and Ethics	3 hours

**Total Minor Hours 18 hours****MINOR REQUIREMENTS — POLITICAL SCIENCE**

POS 100	Introduction to Political Science	3 hours
POS 252	Federal Government	2 hours
POS 262	Arizona Government	1 hour
POS 370	Politics, Religion and Ethics	3 hours
---	3 hours	

Select one of the following courses:

POS 344	Political Thought (3)
POS 498	Advanced Topics: Political Parties (3)

Select one of the following courses:

POS 323	International Relations (3)
POS 380	Comparative Government (3)
POS 498	Advanced Topics: "Hot Spots" (3)

Select one of the following courses:

HIS/POS 417	American Constitutional History (3)
HIS/POS 417	American Diplomatic History (3)

**Total Minor Hours 18 hours****MINOR REQUIREMENTS — PRE-LAW**

BUS 310	Business Law I OR	
BUS 315	Business Law II	3 hours
ECN 201	Macroeconomic Principles	3 hours
ENG 301	Advanced Composition	3 hours
ENG 314	Advanced Grammar	3 hours
HIS 417	Constitutional History of the United States	3 hours
HIS 475	Christianity and the Legal Profession	3 hours
JUS 461	Substantive Law OR	
JUS 462	Procedural Criminal Law	3 hours
PHI 215	Introduction to Logic	3 hours

**Total Minor Hours 24 hours****MINOR REQUIREMENTS — PSYCHOLOGY**

PSY 101	General Psychology	3 hours
PSY 253	Personality Development	3 hours
PSY 350	Social Psychology	3 hours
PSY ---	Upper division Psychology electives	9 hours

**Total Minor Hours 18 hours****MINOR REQUIREMENTS — SOCIAL SCIENCES**

ECN 201	Principles of Economics - Macro OR	
ECN 202	Principles of Economics - Micro	3 hours
GEO ---	Geography elective	3 hours
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 hours
POS 252	Federal Government	2 hours
POS 262	Arizona Government	1 hour
PSY 101	General Psychology	3 hours
SOC 101	Introduction to Sociology	3 hours

**Total Minor Hours 21 hours**

\* Three hours must be upper division.

**MINOR REQUIREMENTS — SOCIOLOGY**

SOC 101	Introduction to Sociology	3 hours
SOC 483	History of Social Thought	3 hours
SOC ---	Sociology electives	
---	(six hours must be upper division)	12 hours

**Total Minor Hours 18 hours****GEOGRAPHY****GEO 111****Physical Geography****3 hours**

Every Fall. A geographic study of climate, topography, drainage, soils, and plant and animal life, and their influence on man and on the development of civilization.

**GEO 121****World Geography****3 hours**

Every Spring. A study of the physical environment and of the relationship of man to each of the major geographic areas of the world.

**GEO 498****Advanced Topics in Geography****3 hours**

On demand. In depth study of selected topics such as geography of the Southwest, or a World Political Geography.

**GEO 499****Independent Study****1 - 4 hours**

On demand. See page 23.

## JUSTICE STUDIES

### **JUS 100** 3 hours

#### **Introduction to the Justice System**

Every Fall. Overview of the justice system and the concept of justice. Roles of law enforcement personnel, the courts, and correction agencies. Philosophical and theoretical views in historical perspective.

### **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**

Spring 2000, and alternate years. 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**

Fall 2000, and alternate years. Objectives, strategies, programs, roles, perspectives and interagency relationships of police. Prerequisite: JUS 100.

### **JUS 308** 3 hours

#### **Adjudication Function**

Fall 1999, and alternate years. Objectives, strategies, programs, roles, perspectives, and interagency relationships of the courts. Prerequisite: JUS 100.

### **JUS 310** 3 hours

#### **Correctional Function**

Spring 2000, and alternate years. Objectives, strategies, programs, roles, perspectives and interagency relationships of correctional agencies. Prerequisite: JUS 100.

### **JUS 311** 3 hours

#### **Justice and Ethics**

Spring 2000, and alternate years. Exploration and application of values and principles to problems in the field of justice. Analysis of the concept of justice. Development of personal ethical framework.

### **JUS 461** 3 hours

#### **Substantive Law**

Spring 2001, and alternate years. 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**

Fall 2000 and alternate years. 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 490** 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. 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: 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 23.

## POLITICAL SCIENCE

### **POS 100** 3 hours

#### **Introduction to Political Science (Politics, Power and the Individual)**

Every 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 every Summer. A survey of American government; meets the teacher certification requirement for American Government.

### **POS 262** 1 hour

#### **Arizona Government**

Every Fall and every Summer. A survey of Arizona History and Government. Meets the teacher certification requirement for Arizona Government.

### **POS 370** 3 hours

#### **Politics, Religion and Ethics**

Spring 1999, and alternate years. Integration of political premises with an ethical framework, specifically, and Christian principles, generally. 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? Prerequisite: POS 100, or instructor's approval.

### **POS 344** 3 hours

#### **Political Thought**

Fall 1999, and alternate years. 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 380** 3 hours

#### **Comparative Governments**

Spring 2001, and alternate years. 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 323****3 hours****International Relations**

Fall 2000, and alternate years. 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 416****3 hours****American Diplomatic History**

Spring 2000, and alternate years. 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**

Spring 2002 and alternate years. 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 498****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. Prerequisite: Instructor's approval.

**POS 499****1 - 4 hours****Independent Study**

On demand. See page 23.

**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**

Summer 1999, 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 2000 and alternate years. A course emphasizing the relationships 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.

**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 350****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. Prerequisite: PSY 101 or SOC 101.

**PSY 353****3 hours****Child Psychology**

Every Semester and every Summer. 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. 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. 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 414****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. Prerequisite: 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. Prerequisite: PSY 101 or instructor's approval.

**PSY 499** **1 - 4 hours**  
**Independent Study**  
On demand. See page 23.

## **SOCIOLOGY**

**SOC 101** **3 hours**  
**Introduction to Sociology**

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. 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 Fall. 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 350** **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. Prerequisite: PSY 101 or SOC 101.

**SOC 353** **3 hours**  
**Urban Sociology**

Fall 1999, 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. 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. 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 483**

**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. Prerequisites: SOC 101 or instructor's approval.

**SOC 490**

**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 builds upon the major, and grapple with the issues raised by a Christian perspective on sociology. Required of all Sociology majors. 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 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 23.

# 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 — SPEECH/THEATRE

**(B.A. DEGREE; Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

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.

#### 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
TRE 270	Christian Drama OR	
TRE 440	Stage Lighting and Design	3 hours
*TRE 300	Theatre Participation	1 hour
TRE 370	Theatre History I OR	
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
<b>Total Major Hours</b>		<b>45 hours</b>

\* Students are required to select three out of four available participation credits. Both speech and theatre must be represented.

### DEGREE REQUIREMENTS — THEATRE/DRAMA

**(B.A. DEGREE; Minor Required)**

University Liberal Arts Foundation for the College of Liberal Arts (see page 67).

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	
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
TRE 370	Theatre History I	3 hours
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
<b>Total Major Hours</b>		<b>48 hours</b>

#### **MINOR REQUIREMENTS — THEATRE**

TRE 345	Scene Design OR	
TRE 346	Costume Design OR	
TRE 440	Stage Lighting and Design	3 hours
TRE 120 I	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
TRE 370	Theatre History I OR	
TRE 371	Theatre History II	3 hours
TRE 498	Stage Direction	3 hours
TRE —	Theatre Elective	3 hours
<b>Total Minor Hours</b>		<b>22 hours</b>

## **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 2000, 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 1999, 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 270** **3 hours** **Christian Drama**

Spring 1999, 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.

### **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 1999, 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 1999, 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 370** **3 hours** **Theatre History I (Greeks to Restoration)**

Spring 1999, and alternate years. An in-depth study of the history and development of theatre from early Greece to the English Restoration. Prerequisite: TRE 120 or instructor's approval.

### **TRE 371** **3 hours** **Theatre History II (18th Century to Present)**

Spring 2000, and alternate years. An in-depth study of the history and development of theatre from 18th century through modern time. 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 2000, 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 1999, 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**

Summer 1999, 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 pages 23.

**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 2000, 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 1999, 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 2000, 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 23.



# College of Science & Allied Health

## MISSION STATEMENT

The College of Science and Allied Health strives to prepare students for graduate study and employment in the 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 and Allied Health provides curricula for athletic training, biochemistry, biology, chemistry, corporate fitness, environmental biology, physical science, physics, 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 on the campus of Grand Canyon University by the Arizona School of Health Sciences.

## COLLEGE OF SCIENCE AND ALLIED HEALTH FEATURES

### ARTICULATION AND ADMISSION AGREEMENTS WITH OTHER INSTITUTIONS

Grand Canyon University has articulation and reserved 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. 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 the Arizona School of Health Sciences. The Arizona School of Health Sciences, located on the Grand Canyon University campus, 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 and Allied Health 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 AND ALLIED HEALTH ‡

The University Liberal Arts Foundation (ULAF) for the College of Science and Allied Health differs slightly from the ULAF found on page 28. Students majoring in the College of Science and Allied Health must complete all requirements listed below as part of the ULAF for the College of Science and Allied Health. 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 \*
  - ENG 101 Academic Writing (3)
  - 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: 3 hours

- MAT 121 College Algebra (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 (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 37\* hours

\* Students whose Writing Proficiency Examination (placement test) scores place them 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 33 hours for those students.

‡ Students in the College of Science and Allied Health with a Secondary Education major complete only the University Liberal Arts Foundation requirements for the College of Education (see page 54).

The faculty and staff of the College of Science and Allied Health assist all students in excelling to their potential and in preparing for further professional study if desired. However, it is the students 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
ENG	101 Academic Writing	3 hours
ENG	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**

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
PHY	496 Biophysics
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 and Allied Health 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 (May include Science on the Internet)	3 hours
ENG	101	Academic Writing	3 hours
ENG	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

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<b>Total Pre-Health Profession</b>			
<b>Core Hours</b>			<b>57 hours</b>

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## **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), located on the campus of Grand Canyon University in Phoenix, 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 and Allied Health (see page 112).

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 Required)

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 and Allied Health (see page 112).

Minor required.

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
BIO 301	Science Communication I	2 hours
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 (excluding BIO 201, BIO 202, and recitation classes)	8 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/SCI 180	Computer Info. System Modules (May include Science on the Internet)	3 hours
* PHY 111, 111L	General Physics I	4 hours
* PHY 112, 112L	General Physics II	4 hours
† MAT 270	Analytical Geometry and Calculus I	4 hours

Total Major Hours 66 hours

\* PHY 115, 115L University Physics I and PHY 116, 116L University Physics II may be substituted.

† PSY 363 Probability and Statistics or MAT 213 Probability and Statistics 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. The Wildlife Emphasis broadens the curriculum, making more career possibilities available in wildlife biology.

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

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

# 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, one 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, one hour lab. Prerequisite: BIO 181 or instructor's approval.

## **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. Credit offered only for Human 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. Credit offered only for Human 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: Concurrently 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. Credit offered only for Human 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. Credit offered only for Human 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, or instructor's approval.

## **BIO 301** **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. Prerequisite: Biology major.

## **BIO 302** **2 hours**

### **Science Communication II**

Every semester. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. Prerequisite: Biology major.

## **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**

Every semester. 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, BIO 201 (with a grade of A or B), and instructor's approval.

## **BIO 306** **2 hours**

### **Introduction to Occupational Therapy**

Every Fall. 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**

Every semester. 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, or instructor's approval.

## **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, or instructor's approval.

**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, or instructor's approval.

**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 350** **4 hours**  
**Comparative Invertebrate Zoology**

Fall 1999, 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 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 preceeding 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 396** **2 hours**  
**Biology Tutoring**

Every semester. A course designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the College Dean and the Tutor Program Coordinator.

**BIO 426** **4 hours**  
**Aquatic Ecology**

Spring 2001, and alternate years. 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**

Every Fall. 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 480** **3 hours**  
**Methods of Teaching Science in the Secondary School**

On demand. 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 2000, 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 2001, 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 23.

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**BOTANY**

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**BOT 184****4 hours****Plant Biology**

Spring 2000, 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.

**BOT 370****4 hours****Arizona Flora**

On demand. 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: BOT 184.

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**SCIENCE**

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**SCI 180****1 hour****Science on the Internet**

Every semester. A study of search strategies and information related to science and health. Students use Internet directories, search engines, e-mail, mailing lists, newsgroups, and multimedia to gather information about careers, research, journals, books, and field studies in science and health.

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**ZOOLOGY**

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**ZOL 213****3 hours****Introduction to Wildlife Ecology and Management**

Every Fall. 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, or instructor's approval.

**ZOL 411****4 hours****Principles of Terrestrial Wildlife Biology**

Spring 2000, and alternate years. An advanced study of the principles of terrestrial wildlife management, including current philosophy, natural resource law, public policy, and techniques of ecology and management of terrestrial species assemblages. Three hours lecture, three hours lab. Prerequisite: ZOL 213, BIO 320, or instructor's approval.

**ZOL 413****4 hours****Principles of Fisheries Management**

Spring 2001, and alternate years. A survey of the principles of aquatic systems, ecology and fisheries management, and biology. Three hours lecture, three hours lab. Prerequisite: ZOL 213, BIO 320, or instructor's approval.

# 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 Health Education Endorsement, career employment and advancement in the firefighting service 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 44-46 hours of study with a minor required. Department minors include: Athletic Coaching, Exercise Science, Fire Science, Health Education, Physical Education-Teaching Emphasis, Physical Education-Martial Arts Emphasis, and Recreation.

The Athletic Training major prepares students for employment in secondary schools, colleges and universities, professional sports, and industrial and clinical settings as Certified Athletic Trainers. The student will receive instruction in prevention, management, and rehabilitation of injury and illness in the sports setting, the administration of sports medicine programs, and education and counseling of athletes on subjects related to this field. A teaching degree is recommended, but not required.

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 Health/Fitness Director with the American College of Sports Medicine, Certified Strength and Conditioning Specialist or Personal Trainer with the National Strength and Conditioning Association, or any of the national aerobics instructor certifications.

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 Fire Science minor emphasizes the skills to assist the future firefighter toward employment in the firefighting industry and to assist the currently employed firefighter in acquiring knowledge and advancing in rank.

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.

The Physical Education-Martial Arts Emphasis minor will provide students with the skills needed to instruct others in various forms of self-defense and karate techniques.

### DEGREE REQUIREMENTS — ATHLETIC TRAINING (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

#### Athletic Training Major

BIO	201	Human Anatomy and Physiology I	4 hours
BIO	202	Human Anatomy and Physiology II	4 hours
EXS	314	Care and Prevention of Athletic Injuries	3 hours
EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
EXS	383	Measurement in Physical Education	3 hours
EXS	414	Advanced Athletic Training	3 hours
EXS	425	Theory of Prescribing Exercise	3 hours
EXS	496	Special Topics in Exercise Science (2 two-hour courses of different topics)	4 hours
EXS	497	Internship in Exercise Science	3 hours
HLT	200	Personal Health	3 hours
HLT	270	First Aid and Safety	3 hours
PSY	101	General Psychology	3 hours
---	---	Methods course from any teaching field	3 hours

**Total Major Hours** **45 hours**



**DEGREE REQUIREMENTS — CORPORATE FITNESS AND WELLNESS**  
(B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

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
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 (Select from 121, 131, 141, 151)	4 hours
PED	240	Introduction to Physical Education	3 hours
PED	246	Instructional Strategies in Physical Ed.	3 hours
PED	---	Professional Activities (Select three from 252, 262, 272, 282, 285, 292)	6 hours

**Total Major Hours** 47 hours

**DEGREE REQUIREMENT — PHYSICAL EDUCATION**  
(B.S. DEGREE; MINOR REQUIRED)

Non-Teaching Candidates: University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

Teaching Candidates: University Liberal Arts Foundation for the Secondary Education Program (see page 53-54).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

**Physical Education Major**

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
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	363	Phys. Ed. for the Exceptional Child	3 hours
PED	383	Measurement in Physical Education	3 hours
PED	403	Phys. Ed. for the Elementary Grades	3 hours
PED	413	Phys. Ed. for the Secondary School	3 hours
PED	---	Activity Classes (Select four from 121s and 131s)	4 hours
PED	---	Professional Activities (Select four from 252, 262, 272, 282, 292)	8 hours
PED	---	Upper Division Phys. Ed. Electives	3 hours

**Total Major Hours** 44 hours

**DEGREE REQUIREMENTS — RECREATION**  
(B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

Minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

**Recreation Major**

HLT	270	First Aid and Safety	3 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 272, 282, 285, 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
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

**MINOR REQUIREMENTS — ATHLETIC COACHING**

EXS	314	Care and Prevention of Athletic Injuries	3 hours
HLT	253	Anatomy and Physiology	3 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 272, 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

**MINOR REQUIREMENTS — EXERCISE SCIENCE**

EXS	314	Care and Prevention of Athletic Injuries	3 hours
EXS	335	Kinesiology	3 hours
EXS	340	Physiology of Exercise	3 hours
EXS	383	Measurement in Physical Education	3 hours
EXS	425	Theory of Prescribing Exercise	3 hours
EXS	496	Special Topics in Sports Medicine	2 hours
EXS	497	Internship in Exercise	3 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	292	Teaching of Individual Activities II	2 hours

**Total Minor Hours** 25 hours

**MINOR REQUIREMENTS — FIRE SCIENCE**

Transfer hours from community college*			18 hours
EXS	325	Fire Service and the Community	3 hours
EXS	375	Fire Prevention Program Development and Management	3 hours
EXS	423	Fire Department Administration	3 hours
EXS	497	Fire Service Internship	3 hours

**Total Minor Hours** 30 hours

\* See Department Chair for list of participating community colleges and required courses.

\* 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.

**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 hours

**MINOR REQUIREMENTS — PHYSICAL EDUCATION-MARTIAL ARTS**

EXS	314	Care and Prevention of Athletic Injuries	3 hours
PED	141	Self Defense	1 hour
PED	151	Karate	1 hour
PED	231	Advanced Karate	2 hours
PED	241	Advanced Self Defense	2 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	285	Teaching Self Defense Activities	2 hours
PED	287	Teaching Karate Activities	2 hours
PED	289	Teaching of Combatives	2 hours
PED	401	Traditional Okinawan Weapons	3 hours
EXS	497	Internship in Exercise Science	3 hours

**Total Minor Hours** 24 hours

**MINOR REQUIREMENTS — PHYSICAL EDUCATION**

EXS	335	Kinesiology	3 hours
HLT	253	Anatomy and Physiology	3 hours
PED	195	Lifetime Wellness	2 hours
PED	---	Activities (Select from 121s and 131s) (Any two different activities)	2 hours
PED	240	Introduction to Physical Education	3 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 272, 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

**Total Minor Hours** 26 hours

**MINOR REQUIREMENTS — RECREATION**

HLT	270	First Aid and Safety	3 hours
PED	246	Instructional Strategies in Phys. Ed.	3 hours
PED	---	Professional Activities (Select two from 252, 262, 272, 282, 285, 292)	3 hours
REC	203	Introduction to Recreation	4 hours
REC	213	Recreational Leadership (3) OR	
REC	215	Recreational Programming (3)	3 hours
REC	313	Outdoor Recreation (3) OR	
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** 27 hours

**EXERCISE SCIENCE****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 325 3 hours****The Fire Service and the Community**

Every Fall. The sociological, economic, and political characteristics of communities, and their impact on the fire problem. The course will include an in-depth examination of the fire service's role in the community, as emergency care providers for the sick and injured, fire suppression providers, community role models, and an organization with a growing responsibility in the social services arena.

**EXS 335 3 hours****Kinesiology**

Every Spring. Analysis of human movement, integrating knowledge of the skeletal, muscular, and neurological systems with the effect of gravity, friction, internal, and external forces, and the laws of motion have on its function, including the application of these factors to various types of physical skills. Two-and-one-half hours lecture, one-half hour lab. Prerequisites: HLT 253, or BIO 201 and BIO 202, and PHY 101 (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 375 3 hours****Fire Prevention Program Development and Management**

Every Spring. An examination of the techniques, procedures, programs, and agencies involved in fire prevention. The course will include an exploration of fire inspection programs, public education, sprinkler ordinances, and the role of the fire service administrator in managing, supporting, and developing these programs.

**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 deals with tests of fitness and sports skills. Prerequisites: PED 246 and four hours of Professional Activities.

**EXS 399 1 - 4 hours****Practicum**

On demand. See pages 23.

**EXS 414 3 hours****Advanced Athletic Training**

Every Spring. This course covers evaluation of athletic injuries, recognition of the importance of physical exams, conditioning programs, and disqualifying factors in athletics. It is designed for students seeking NATA certification. Prerequisites: EXS 314 and EXS 335 (may be taken concurrently).

**EXS 423 3 hours****Fire Department Administration**

Every Fall. An exploration of the organization and management techniques in the fire service, including fire and EMS operations, hiring and personnel practices, budgeting, master planning, and forecasting trends. The course includes organization and management theory, how it is utilized in today's fire service, and how it may impact the future of the fire service administration.

**EXS 425 3 hours****Theory of Prescribing Exercise**

Every Spring. This course covers the theoretical basis and practical application of general principles of exercise prescription to various ages, fitness levels and health states. Two-and-one-half hours lecture, one-half hour lab. Prerequisite: EXS 335.

**EXS 496 2 hours****Special Topics in Sports Medicine**

Every Fall. Examination of current issues, topics, and trends in the field of sports medicine. Current theories and practices regarding diet, ergogenic aids, orthopedics, neurology, emergency procedures, rehabilitation, and injury prevention methods will be discussed. Must be taken twice by athletic training students. Prerequisites: EXS 314, BIO 201, and BIO 202.

**EXS 497 1 - 5 hours****Internship in Exercise Science**

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 Chairman for specific information. Prerequisite: Instructor's approval.

**EXS 499 1 - 4 hours****Independent Study**

On demand. See page 23.

**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 396 2 hours****Health Education Tutoring**

Every semester. This course is designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the Department Chair and the Tutor Program Coordinator.

**HLT 423 3 hours****Health Administration**

Every Spring. Also REC 423 and PED 423. This course deals with

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 - 4 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 23.

**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	Acrobatics
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 141 1 hour****Self Defense**

Every semester. A course designed to teach students how to react in the event of a push, grab, or takedown. Emphasis is placed on in-close techniques including knee and elbow strikes, joint locks, armbars, takedowns, and chokes.

**PED 151****Karate****1 hour**

Every semester. A course designed to develop basic karate skills, including open-handed strikes, leg blocks, low kicks, break falls, and Seisan kata. The course will also include instruction in traditional karate school ethics, Japanese terms and customs, and preparation for green belt promotion.

**PED 195****Lifetime Wellness****2 hours**

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 231****Advanced Karate****1 - 2 hours**

Every Spring. A course designed to develop advanced karate skills including power kicking, precision punching, tactile trapping, speed and cadence drills, angular attacks, timing and rhythm drills, and kata application. The course will also include preparation for brown belt promotion. Students seeking a minor in martial arts must complete two hours. Prerequisite: PED 151 or instructor's approval.

**PED 240****Introduction to Physical Education****3 hours**

Every Fall. 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 241****Advanced Self Defense****1 - 2 hours**

Every Spring. A course designed to teach students how to react in the event of a choke, bear hug, tackle, or rape threat. The course will include instruction in joint locks, throws, and advanced chokes and armbars. Students will become better prepared to react effectively in a life-threatening confrontation. Students seeking a minor in martial arts must complete two hours. Prerequisite: PED 141 or instructor's approval.

**PED 246****Instructional Strategies in Physical Education****3 hours**

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. Prerequisite: Must be a Health, Exercise Science, and Physical Education major or minor.

**PED 252****Teaching of Team Sports I****2 hours**

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****Teaching of Team Sports II****2 hours**

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 272****Teaching of Aquatic Skills****2 hours**

Upon availability. Practice and skills in the sport of swimming. Includes lesson planning, teaching procedure, evaluation techniques, and skill proficiency. Red Cross Emergency Water Safety and Water

Safety Instructor certificates will be issued to the student upon successful completion of the course. Three hours per week. Prerequisite: PED 246 (may be taken concurrently) and swimming test (must be able to swim 500 yards).

**PED 282****Teaching of Individual Sports I****2 hours**

Every Fall. Practice and skills in the activities of badminton, archery, 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 285****Teaching Self Defense Activities****1 - 2 hours**

Every Spring. A course designed to develop methods and techniques of teaching martial arts. Each student will research a particular area, prepare a paper, and provide an in-class demonstration. Prerequisites: PED 241 and PED 246 (may be taken concurrently), or instructor's approval.

**PED 287****Teaching Karate Activities****2 hours**

Every Fall. A course designed to develop methods of teaching karate. Each student will research a particular area, prepare a paper, and provide an in-class demonstration. Prerequisite: PED 231 or instructor's approval.

**PED 289****Teaching of Combatives****2 hours**

Every Fall. A course designed to develop methods and techniques of teaching grappling. Each student will research a particular area, prepare a paper, and provide an in-class demonstration. Prerequisite: PED 241 or instructor's approval.

**PED 292****Teaching of Individual Sports II****2 hours**

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****Sports Broadcasting****3 hours**

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****Athletic Coaching: Baseball****3 hours**

Every Fall. A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy of baseball.

**PED 333****Athletic Coaching: Basketball****3 hours**

Every Spring. A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy in basketball.

**PED 334****Athletic Coaching: Volleyball and Softball****3 hours**

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 Fall. 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 396** **2 hours**  
**Physical Education Tutoring**  
 Every semester. Designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the Department Chair and the Tutor Program Coordinator.

**PED 399** **1 - 4 hours**  
**Practicum**  
 On demand. See page 23.

**PED 401** **3 hours**  
**Traditional Okinawan Weapons**  
 Every Spring. A course designed to introduce students to the bo, shintai, tonfas, sais, and nunchukas. Students will learn traditional weapons forms, advanced weapons combinations, and the history of weapons from their origin as farm tools.

**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 Summer. 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, 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 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**  
 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 23.

## 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, 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 396** **3 hours**  
**Recreation Tutoring**  
 Every semester. Designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the Department Chair and the Tutor Program Coordinator.

**REC 423** **3 hours**  
**Recreation Administration and Supervision**  
 Every Spring. 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 1999, 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 425****3 hours****Recreation for Special Populations**

Every Fall. A course designed to develop methods and techniques of leading therapeutic recreation activities in institutions. 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.

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**SCIENCE**

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**SCI 180****1 hour****Science on the Internet**

Every semester. A study of search strategies and information related to science and health. Students use Internet directories, search engines, e-mail, mailing lists, newsgroups, and multimedia to gather information about careers, research journals, books, and field studies in science and health.

# 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, and 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 11 for specific information.

The diverse backgrounds of the faculty, with expertise in biochemistry, material science, meteorology, biophysics, solid state chemistry, analytical chemistry, catalysis and organometallics, chemistry education, and computers in 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 physics and chemistry, advising students in their choice of major, or helping well-qualified students find summer internships at government laboratories such as Argonne National Laboratory, Illinois, and Oak Ridge, Tennessee. The department continues to serve increasing numbers of students with small recitation groups, in which students meet with faculty while learning together. 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 and Allied Health (see page 112).

No minor required.

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

#### Biochemistry Major

BIO	181	General Biology I	4 hours
BIO	182	General Biology II	4 hours
CHM	301	Science Communication I	2 hours
CHM	302	Science Communication II	2 hours
BIO	332	Cell Biology	3 hours
BIO	340	Genetics	4 hours
BIO	360	Physiology	4 hours
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 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 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/SCI	180	Comp. Information Systems Modules (May include Science on the Internet)	3 hours
MAT	213	Statistics	4 hours
PHY	111, 111L	General Physics I	4 hours
PHY	112, 112L	General Physics II	4 hours

**Total Major Hours** 70 hours

### DEGREE REQUIREMENTS — CHEMISTRY (B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

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
CHM	301	Science Communication I	2 hours
CHM	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/SCI	180	Comp. Info. Systems Modules (May include Science on the Internet)	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, 116	University Physics II	4 hours
<b>Total Major Hours</b>			<b>63 hours</b>

**DEGREE REQUIREMENTS — CHEMISTRY FOR SECONDARY TEACHERS**  
(B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for College of Education  
Secondary Education Programs (see pages 53-54).

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	Biology Concepts	4 hours
** BIO	105	Environmental Biology	4 hours
CHM	113, 113L	General Chemistry I	4 hours
CHM	115, 115L	General Chemistry II	4 hours
CHM	301	Science Communication I	2 hours
CHM	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/SCI	180	Comp. Info. Systems Modules (May include Science on the Internet)	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.

**DEGREE REQUIREMENTS — PHYSICAL SCIENCE**  
(B.S. DEGREE; Minor Required)

University Liberal Arts Foundation for the College of Science and Allied Health (see page 112).

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
CHM	301	Science Communication I	2 hours
CHM	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/SCI	180	Comp. Info. Systems Modules (May include Science on the Internet)	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 62 - 63 hours**

\* May substitute MAT 270 Analytical Geometry and Calculus I for MAT 121 and MAT 122.

**DEGREE REQUIREMENTS — PHYSICS FOR SECONDARY TEACHERS\***  
(B.S. DEGREE; No Minor Required)

University Liberal Arts Foundation for College of Education  
Secondary Education Program (see pages 53-54).

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/SCI	180	Comp. Info. Systems Modules (May include Science on the Internet)	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	115R	University Physics I Recitation	
PHY	116R	General Physics II Recitation	
PHY	115, 115L	University Physics I	4 hours
PHY	116, 116L	University Physics II	4 hours
PHY	301	Science Communication I	2 hours
PHY	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.

Any student wishing to minor in mathematics may, with College of Science and Allied Health 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 minor in chemistry may, with College of Science and Allied Health 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 53-54).

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 Biochemistry	4 hours
CIS/SCI	180	Comp. Info. Systems Modules (May include Science on the Internet)	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
PHY	301	Science Communication I	2 hours
PHY	302	Science Communication II	2 hours

**Total Major Hours** 39 hours

\* Please refer to the College of Education for certification requirements.

**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 (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.

+ Electives may include CHM 441 Physical Chemistry I or CHM 442 Physical Chemistry II, EGN 211 Statics, or EGN 312 Dynamics.

**MINOR REQUIREMENTS — BIOPHYSICAL SCIENCE**

BIO	201	Human Anatomy and Physiology I	4 hours
BIO	202	Human Anatomy and Physiology II	4 hours
BIO	--	Upper Division Biology Elective	4 hours

EXS 335	Kinesiology	3 hours
PHY/CHM ---	Upper Division Physics/Chemistry Electives (excluding PHY/ CHM 396, PHY/CHM 480)	6 hours
<b>Total Minor Hours</b>		<b>21 hours</b>

**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
PHY/CHM ---	Electives in Science (six hours must be upper division)		8 hours
<b>Total Minor Hours</b>		<b>24 hours</b>	

\* 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 and every Summer. 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 101 lab and CHM 101 recitation.

**CHM 101L 1 hour**  
**Introduction to Chemistry: Laboratory**

Every semester and every Summer. A laboratory course designed to complement and support the principles being learned in Chemistry 101 lecture. Three hours lab. Prerequisites: Concurrent enrollment in CHM 101 lecture and CHM 101 recitation.

**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 101 lab.

**CHM 113 3 hours**  
**General Chemistry I**

Every semester and every Summer. 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 113 lab and CHM 113 recitation.

**CHM 113L 1 hour**  
**General Chemistry I: Laboratory**

Every semester and every Summer. A laboratory course designed to complement and support the principles being learned in CHM 113 lecture. Three hours lab. Prerequisites: MAT 121 or equivalent and concurrent enrollment in CHM 113 lecture and CHM 113 recitation.

<b>CHM 113R</b> <b>General Chemistry I: Recitation</b>	<b>1 hour</b>	chemical and instrumental techniques. Three hours lecture. Prerequisites: CHM 115 and concurrent enrollment in CHM 314 lab.
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 113 lab.		
<b>CHM 115</b> <b>General Chemistry II</b>	<b>3 hours</b>	<b>CHM 314L</b> <b>Analytical Chemistry: Laboratory</b> 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. Six hours lab. Prerequisite: Concurrent enrollment in CHM 314 lecture.
Every semester and every Summer. Continuation of CHM 113. Topics include thermodynamics, kinetics, descriptive chemistry, analytical chemistry, electrochemistry, and nuclear chemistry. Three hours lecture. Prerequisites: Concurrent enrollment in CHM 115 lab and CHM 115 recitation.		
<b>CHM 115L</b> <b>General Chemistry II: Laboratory</b>	<b>1 hour</b>	<b>CHM 331</b> <b>Organic Chemistry I</b> Every Fall and every Summer. A systematic study of chemistry of carbon compounds. Topics include nomenclature, structure, synthesis, reactions, and analysis of aliphatic and aromatic compounds. Three hours lecture. Prerequisite: CHM 115 and concurrent enrollment in CHM 331 lab and CHM 331 recitation.
Every semester and every Summer. A laboratory course designed to complement and support the principles learned in CHM 115 lecture. Three hours lab. Prerequisites: Concurrent enrollment in CHM 115 lab and CHM 115 recitation.		
<b>CHM 115R</b> <b>General Chemistry II: Recitation</b>	<b>1 hour</b>	<b>CHM 331L</b> <b>Organic Chemistry I: Laboratory</b> Every Fall and every Summer. Synthesis of compounds as discussed in the lecture as well as isolation and purification of natural products are included. Laboratory exercises involving separation, purification, and characterization of organic compounds. Three hours lab. Prerequisites: Concurrent enrollment in CHM 331 lecture and CHM 331 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 115 lab.		
<b>CHM 260</b> <b>Introduction to Organic and Biochemistry</b>	<b>3 hours</b>	<b>CHM 331R</b> <b>Organic Chemistry I: Recitation</b> Every Fall. Problem solving techniques as assistance for students taking CHM 331 lecture. One hour recitation. Prerequisites: Concurrent enrollment in CHM 331 lecture and CHM 331 lab.
Every semester. 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 101 and concurrent enrollment in CHM 260 lab and CHM 260 recitation.		
<b>CHM 260L</b> <b>Introduction to Organic and Biochemistry: Laboratory</b>	<b>1 hour</b>	<b>CHM 332</b> <b>Organic Chemistry II</b> Every Spring and every Summer. 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 332 lab and CHM 332 recitation.
Every semester. A laboratory course designed to complement and support the principles being learned in CHM 260 lecture. Three hours lab. Prerequisites: Concurrent enrollment in CHM 260 lecture and CHM 260 recitation.		
<b>CHM 260R</b> <b>Introduction to Organic and Biochemistry: Recitation</b>	<b>1 hour</b>	<b>CHM 332L</b> <b>Organic Chemistry I: Laboratory</b> Every Spring. Continuation of CHM 331L involving more complicated synthesis and instrumental techniques. Three hours lab. Prerequisites: Concurrent enrollment in CHM 332 lecture and CHM 332 recitation.
Every semester. 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 260 lab.		
<b>CHM 296</b> <b>Special Topics in Chemistry</b>	<b>1 - 3 hours</b>	<b>CHM 332R</b> <b>Organic Chemistry II: Recitation</b> 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 332 lab.
On demand. To include topics at the introductory level.		
<b>CHM 301</b> <b>Science Communication I</b>	<b>2 hours</b>	<b>CHM 360</b> <b>Principles of Biochemistry</b> 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 360 lab.
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. Prerequisite: Biochemistry, Chemistry, or Physical Science major.		
<b>CHM 302</b> <b>Science Communication II</b>	<b>2 hours</b>	<b>CHM 360L</b> <b>Principles of Biochemistry: Laboratory</b> 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.
Every semester. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. Prerequisite: CHM 301.		
<b>CHM 314</b> <b>Analytical Chemistry</b>	<b>3 hours</b>	
Every Fall. A survey of methods of chemical analysis based on reactions, physical properties, kinetics, and equilibrium using both		

**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 360 lab.

**CHM 396** 2 hours  
**Chemistry Tutoring**  
Every semester. Designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the College Dean and the Tutor Program Coordinator.

**CHM 399** 1 - 4 hours  
**Practicum**  
On demand. See page 23.

**CHM 441** 3 hours  
**Physical Chemistry I**  
Fall 1999, and alternate years. A study of the physical and chemical behavior of substances at the microscopic 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 441 lab.

**CHM 441L** 1 hour  
**Physical Chemistry: Laboratory**  
Fall 1999, 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 2000, and alternate years. Continuation of CHM 441. Topics include chemical kinetics, spectroscopy, and atomic and molecular structure. Three hours lecture. Prerequisites: CHM 441, MAT 272 (may be taken concurrently), and concurrent enrollment in CHM 442 lab.

**CHM 442L** 1 hour  
**Physical Chemistry II: Laboratory**  
Spring 2000, 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 2000, and alternate years. Study of the chemical basis for biological functions of 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 1999, 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 concurrent enrollment in CHM 463.

**CHM 463** 1 hour  
**Biochemistry: Laboratory**  
Every semester. 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 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**  
Every semester. 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 23.

## 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 312** 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 311.

## 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.

### **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 every Summer. A survey of physical science emphasizing applications of physical science to modern life. Three hours lecture. Prerequisites: Concurrent enrollment in PHY 101 lab and PHY 101 recitation.

### **PHY 101L** 1 hour

#### **Introduction to Physical Science: Laboratory**

Every semester and every Summer. A laboratory course designed to complement the physical principles covered in the PHY 101 lecture. Prerequisites: Concurrent enrollment in PHY 101 lecture and PHY 101 recitation.

### **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 101 lab.

### **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 107 lab.

### **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 every Summer. 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 111 lab and PHY 111 recitation; MAT 122 highly recommended.

### **PHY 111L** 1 hour

#### **General Physics I: Laboratory**

Every semester and every Summer. Laboratory experiments demonstrating the physical principles in the PHY 111 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 111 lecture and PHY 111 recitation.

### **PHY 111R** 1 hour

#### **General Physics I: Recitation**

Every Fall. 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 111 lab.

### **PHY 112** 3 hours

#### **General Physics II**

Every semester and every Summer. Continuation of PHY 111. Topics covered include wave motion, electrostatics, optics, and magnetism. Three hours lecture. Prerequisites: PHY 111 and concurrent enrollment in PHY 112 lab and PHY 112 recitation.

### **PHY 112L** 1 hour

#### **General Physics II: Laboratory**

Every semester and every Summer. Laboratory experiments demonstrating the physical principles in the PHY 112 lecture. Three hours lab. Prerequisites: Concurrent enrollment in PHY 112 lecture and PHY 112 recitation.

### **PHY 112R** 1 hour

#### **General Physics II: Recitation**

Every Spring. 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 112 lab.

### **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 PHY 115 lab and PHY 115 recitation.

### **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 115 recitation.

### **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 115 lab.

### **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 116 lab and PHY 116 recitation.

### **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 116 recitation.

### **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 116 lab.

### **PHY 296** 1 - 3 hours

#### **Special Topics in Physics**

On demand. May include mechanics for engineers, new courses designed to meet the engineering core requirements at Arizona State University. Also non-calculus-based electricity or electronics.

**PHY 301** **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. Prerequisite: Physics for secondary teaching major.

**PHY 302** **2 hours**

**Science Communication II**

Every semester. A weekly seminar series of scientists presenting their current research to a mixed audience of students and faculty. Prerequisite: PHY 301.

**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 1999, 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 396** **2 hours**

**Physics Tutoring**

Every semester. Designed to train students to help others who are experiencing difficulty in their regular coursework. Emphasis is placed on learning strategies, time management, study skills, and test taking. May be repeated for no credit. Prerequisites: Approval of the College Dean and the Tutor Program Coordinator.

**PHY 480** **3 hours**

**Methods of Teaching Science in the Secondary School**

On demand. 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: Instructors approval.

**PHY 499** **1 - 4 hours**

**Independent Study**

On demand. See page 23.

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**SCIENCE**

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**SCI 180** **1 hour**

**Science on the Internet**

Every semester. A study of search strategies and information related to science and health. Students use Internet directories, search engines, e-mail, mailing lists, newsgroups, and multimedia to gather information about careers, research journals, books, and field studies in science and health.

# The Samaritan College of Nursing

## MISSION STATEMENT

The Samaritan College of Nursing seeks to provide an academically and clinically challenging program to prepare the individual for professional nursing practice within an ethical and Christian framework to populations of diverse backgrounds in a rapidly changing environment.

## COLLEGE DESCRIPTION

The Samaritan College of Nursing offers both a pre-licensure program and a degree completion for nurses already licensed as registered nurses. The Samaritan College of Nursing is an integral part of Grand Canyon University, working closely with the College of Liberal Arts, the College of Science and Allied Health, and the College of Continuing Studies. The 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 nursing interventions; and function as professionals within the health care team. Emphasis is placed on both a strong academic foundation and nursing practice.

Students have supervised clinical experience in health care agencies within the metropolitan Phoenix area, and are responsible for personal transportation and uniform expenses necessary for the nursing major. Students are also expected to reflect the stated purpose of Grand Canyon University while representing the nursing program in various clinical areas.

The baccalaureate program is approved by the Arizona State Board of Nursing and accredited through the National League for Nursing Accrediting Commission, 61 Broadway, New York, New York 10006 (212) 363-5555. The College is a member of the American Association of Colleges of Nursing, and is a charter member of the Western Institute of Nursing.

## SAMARITAN COLLEGE OF NURSING FEATURES

- All faculty members have a master's or doctoral degree. Faculty-to-student ratios are generally limited to 1:8 or 1:10 in the clinical setting.
- Students begin their supervised clinical experiences during the first semester of the nursing curriculum. During the last two years of study, students spend approximately 18-24 hours per week in a clinical experience learning to apply theory in 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 a specialty area. In this course, students may select from many practice areas such as emergency department, intensive care, labor and delivery or community health.
- Development of a resumé and interview skills are part of the senior

studies. Historically, most seniors have found employment prior to graduation. However, in today's rapidly changing health care environment, employment upon graduation is the responsibility of the graduate and is not guaranteed by the Samaritan College of Nursing.

- Nursing 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. Prenursing scholarships are available to high school seniors, and transfer and returning students. Contact the Samaritan College of Nursing for more information.

- 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 a Christian framework to one's future professional role.

- The University is located in metropolitan Phoenix with access to a variety of acute care and community-based clinical agencies. Prominent among the acute care facilities in which students may have their clinical experiences are Good Samaritan Regional Medical Center, Maryvale Samaritan Medical Center, Thunderbird Samaritan Medical Center, Phoenix Baptist Hospital, John C. Lincoln Medical Center, and Phoenix Children's Hospital.

## PROCEDURES FOR APPLICATION

Students wishing admission to the pre-licensure program through the Samaritan College of Nursing must be first admitted to the University. Registered nurses desiring the RN-BSN Degree Completion Option should consult the catalog for the College of Continuing Studies for

further program information.

Application to the Samaritan College of Nursing is made during the semester prior to the semester in which the student intends to begin the nursing major. Applications for Fall admission are considered the previous Spring semester, and applications for Spring admission are considered during the previous Fall semester. Application packets for the Samaritan College of Nursing are available through the University Bookstore.

The application process requires:

1. A completed application form,
2. A drug screen,
3. An interview,
4. Three letters of recommendation,
5. Successful completion of the University's Writing Proficiency Examination,
6. Satisfactory completion of nursing prerequisite coursework.

Students may apply during their last semester of prerequisite coursework; however, all prerequisites and admission requirements must be completed prior to beginning the nursing major courses.

Acceptance into the Samaritan College of Nursing is determined by the Samaritan College of Nursing faculty and the availability of sufficient clinical spaces. Applicants who have completed their prerequisites at Grand Canyon University are given priority in consideration for admission into Samaritan College of Nursing.

A cumulative GPA of 2.80 and a GPA of 3.00 in prerequisite courses are the recommended minimum GPAs 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.

#### **GRADUATION REQUIREMENTS**

Graduation from the nursing program requires:

1. Successful completion of the prerequisite coursework, sequential nursing coursework, and all University Liberal Arts Foundation courses.
2. Students must maintain a 2.50 GPA in required nursing major coursework in order to progress and complete the curriculum.

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 32-1601 et. seq.), and must be satisfied independently of any requirements for graduation from the University. Historically, Samaritan College of Nursing graduates have been quite successful on the licensure examination; however, 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 67. Students majoring in Nursing must complete all requirements listed below as part of the ULAF for the Samaritan College of Nursing. Changes and additional requirements are indicated by italicized print.

Please note: Prerequisite courses are indicated with a "+" and must be completed prior to the Nursing major requirements.

#### **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:**

**9 hours**

A. English—6 hours\*

†ENG 101 Academic Writing (3)

†ENG 102 Research Writing (3)

B. Speech—2 hours\*\*

\*\*NUR 207 Therapeutic Communication (2)

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

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) or higher mathematics course (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 205 Microbiology (With laboratory - 4)

† BIO 308 Pathophysiology (3)

† CHM 101 Introduction to Chemistry (3)

† CHM 260 Introduction to Organic and Biochemistry  
(With laboratory - 4)

#### **VII. Fine Arts:**

**3 hours**

Any art, music, or theatre course (3)

#### **Additional College of Nursing Requirements:**

**4 hours**

† NUR 204 Applied Nutrition (3)

Elective (1)

**Total University Liberal Arts Foundation**

**Requirement for Samaritan College of Nursing 65 hours**

\* Students whose Writing Proficiency Examination (placement test) scores place them 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 60 hours for those students. A three-hour elective course may be required to complete the 128 semester hours required on the B.S.N. degree.

\*\* NUR 207 Therapeutic Communication is also a nursing major requirement.

\*\*\*Preclicensure students without a recent and strong biology background should register for BIO 181 General Biology prior to registering for BIO 201.

#### **DEGREE REQUIREMENTS — NURSING** **(B.S.N. DEGREE; No Minor Required)**

University Liberal Arts Foundation Requirements for Samaritan College of Nursing (see page 136).

Prerequisites for the Nursing Major (included in the ULAF for Samaritan College of Nursing (see page 136).

Electives (as needed to satisfy the 128 semester hour minimum graduation requirement).

#### **Nursing Major**

NUR 203	Introduction to Pharmacology	3 hours
NUR 206	Introduction to Nursing and Gerontology	6 hours
NUR 207	Therapeutic Communication	2 hours
NUR 309	Health Assessment	4 hours
NUR 311	Adult Health Nursing I	8 hours
NUR 312	Adult Health Nursing II	4 hours
NUR 313	Care of the Childbearing Family	6 hours
NUR 314	Family Centered Child Health Nursing	6 hours
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 498	Practicum in Nursing	3 hours

**Total Major Hours 65 hours**

**Total Requirements for B.S.N. Graduation 128 hours**

#### **R.N. — B.S.N. OPTION**

The registered nurse desiring program information for the R.N. - B.S.N. option should consult the catalog for the College of Continuing Studies.

## **NURSING**

### **NUR 203 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 socio-cultural concepts related to drug therapy will also be presented. The second purpose of the course is to provide the pharmacological foundation necessary for safe administration of drugs, monitoring the effects of therapy, and teaching clients about medications. The course is open to non-nursing majors. Prerequisites: BIO 201, BIO 202, and BIO 308.

### **NUR 204 3 hours** **Applied Nutrition**

Every semester and every Summer. Applied Nutrition provides a foundation of basic nutrition theory. The focus will be on assessment, food components, exercise and nutrition, weight control, and community programs and resources. Application of these aspects are used to promote health and prevent illness. The course is 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 208 3 hours** **Living with Loss**

Every Summer. Living with Loss is designed to increase the awareness of loss-grief experiences by exploration of bereavement behavior and coping skills as provided by Kubler-Ross, Garfield and Engle, and Leming. Content includes case studies, field trips, experiential sharing, films, and reading. The course is open to non-nursing majors.

### **NUR 309 4 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 8 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 203, NUR 206, NUR 207, and NUR 209.

### **NUR 312 4 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 analysis and management of critically ill clients experiencing a life-threatening crisis. The course comprises the last five weeks of the second semester of the nursing curriculum. Prerequisite: 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 advocacy of alternatives to promote positive outcomes during the childbearing phase of family development. Prerequisites: NUR 311 and 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 and NUR 312.

**NUR 398** **2 hours**  
**Research in Nursing**

Every semester and every Summer. 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. 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 Nursing 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 at 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, and NUR 413.

**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 498** **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. Prerequisites: NUR 411, NUR 412, and NUR 413.

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# INDEX

## A

Absences,  
    Chapel, 20  
    Class, See Class Attendance, 21  
Academic Advisement, 21  
Academic Calendar, iv-v  
Academic Honors, 24  
Academic Probation, 25  
Academic Regalia, 26  
Academic Regulations, 21-25  
    Advisement, 21  
    Class Attendance, 21  
    Classification of Courses, 21  
    Classification of Students, 21-22  
    Concurrent Enrollment, 22  
    Correspondence and Extension Credit, 23  
    Courses, 22-24  
    Eligibility for Activities, 23  
    Grade Requirements, 23  
    Grading Systems, 23  
    Semester Hour, 21  
    Standards of Academics, 24-25  
Academic Semester Hour, 21  
Academic Standards, 24-25  
Academic Suspension, 25  
Academic Tutoring, 29  
Accounting  
    Course Descriptions, 40-41  
    Degree Requirements, 38  
Accreditation, 2  
ACT Scores, 5  
Activities, 20-21  
Administration and Personnel, 138-142  
Administrative Withdrawal  
    for Non-attendance, 24  
    for Non-payment, see Student Expenses, 12  
Admission Policies and Procedures, 4-10  
    Advanced Placement (AP), 11  
    Campus Visits, 4  
    College Level Examination Program (CLEP), 11-12  
    Evaluation of Transfer Credit, 10-11  
    General Statement, 4  
    Graduate Student Admission,  
        College of Education, 56-57  
        College of Business, 39-40  
    International Student Admission, 8-10  
        Application Procedures, 9-10  
        General Information, 8-9  
        English Adjustment Skills  
            Experience, (EASE), 10  
        Pursuit of Degree, 9-10  
    Post Baccalaureate Admission, 8  
        Second Degree, 8  
    Orientation, 4  
    Readmission, 8  
    Unclassified Students, 7-8  
    Undergraduate Admission, 4-5  
        Admission with Specification, 5-6  
        Application Procedures, 6-8  
        Direct Transfer Plan, 7

    General Information, 4  
    Standards of Admissions, 4-5  
Advanced Placement (AP), 11  
Advisement, 21  
Aerospace Studies  
    Course Descriptions, 33-34  
Air Force ROTC, 32  
Allied Health  
    Degree Requirements, 115  
Alma Mater, 19  
Alumni Association, 3  
American Studies Program, 30  
Apartments, see Housing Services, 19  
Appeal of Grade, 24  
Application Procedures  
    Admission, 6-10  
    Financial Aid, 14  
    Housing, 19  
Applied Management  
    Course Descriptions, 49  
    Degree Requirements, 48  
Applied Music  
    Course Descriptions, 92  
    Degree Requirements, 86-87  
Arizona School of Health Sciences,  
    Articulation Agreement, 114  
Army ROTC, 32-33  
Art, Department of, 68-72  
    Course Descriptions, 69-72  
    Department Description, 68  
    Degree Requirements, 68-69  
    Minor Requirements, 69  
Art Education  
    Course Descriptions, 69  
    Degree Requirements, 68  
Art History  
    Course Descriptions, 70  
Art Studio  
    Course Descriptions, 70  
Assistance, see Financial Aid, 14-15  
Athletic Coaching  
    Minor Requirements, 121  
Athletic Training  
    Degree Requirements, 120  
Athletics  
    Affiliation, NCAA, 20  
    Eligibility, 20  
    Grants In-Aid, 18  
    Teams, 20  
Attendance Regulations  
    Chapel, 20  
    Class, 21  
Audit Grade, 24  
Auditing of Courses, 22  
Averaging of Grades, 24  
Awards, Honors, Recognitions, 24

## B

Bachelor of Arts, 25  
Bachelor of Business Administration, 25

Bachelor of Liberal Studies, 25  
Bachelor of Music, 25  
Bachelor of Science, 25-26  
Behavioral Sciences  
    Minor Requirements, 104  
Bible  
    Course Descriptions, 98-101  
Biblical/Theological Studies  
    Course Descriptions, 98  
    Degree Requirements, 96-97  
Bilingual Education,  
    Course Descriptions, 65  
    Minor Requirements, 59  
Biochemistry  
    Degree Requirements, 127  
Biology, Department of, 115-119  
    Course Descriptions, 117-119  
    Degree Requirements, 115  
    Department Description, 115  
    Minor Requirements, 116  
Biology, Environmental  
    Degree Requirements, 115-116  
Biology, General  
    Degree Requirements, 115  
Biology, Human  
    Degree Requirements, 116  
Biology for Secondary Teachers  
    Degree Requirements, 116  
Biophysical Science  
    Minor Requirements, 129  
Board of Trustees, 138  
Botany, 119  
Broadcasting, Communications Emphasis,  
    Communications Degree, 73  
Buildings, see University Campus, 3  
Business  
    Course Descriptions, 40-46  
    Minor Requirements, 39  
Business Administration  
    Course Descriptions, 43  
    Degree Requirements, 38  
Business, College of, 45-46  
    Admission Procedures, 37  
    College Description, 36  
    Computer Information Systems  
        Certificate Program, 37  
    Course Descriptions, 40-46  
    Degree Offerings, 36  
    Degree Requirements, 37-39  
    Internship Guidelines, 37  
    University Liberal Arts Foundation, 37-38

## C

Cafeteria, see Food Services, 20  
Calendar, Academic, iv-v  
Campus Facilities, see University Campus, 3  
Campus Housing, 19  
Campus Map, 150-151  
Campus Visits, 4



Canyon Echoes, 21, 73  
 Canyon Trails, 21, 73  
 Catalog, Choice of, 26  
 Center for Christian Studies, see J. Niles Puckett Center for, 96-101  
 Center for International Education, 29  
 Certification for Teaching, 54-56  
 Change of Courses (Add/Drop), 22  
 Change of Grade, 24  
 Chapel, 20  
 Chemistry  
   Course Descriptions, 129-131  
   Degree Requirements, 127-128  
   Minor Requirements, 129  
 Chemistry for Secondary Teachers  
   Degree Requirements, 128  
 China Studies Program, 30  
 Chinese  
   Course Descriptions, 81  
 Choice of Catalog, 26  
 Choral Conducting  
   Emphasis Requirements, 87-88  
 Christian Education  
   Degree Requirements, 97  
 Christian Perspectives, 31  
   Course Descriptions, 35  
 Christian Studies, J. Niles Puckett Center for, 96-101  
   Course Descriptions, 98-101  
   Degree Requirements, 96-98  
   Minor Requirements, 98  
 Church Music  
   Course Descriptions, 89  
   Degree Requirements, 87-88  
 Class Attendance, 21  
 Class Instruction, Music  
   Course Descriptions, 92-93  
 Classification of Courses, 21  
 Classification of Students, 22  
 CLEP Credit, 12  
 Clubs and Organizations, 21  
 Coalition for Christian Colleges and Universities, 30  
 College of Business see Business, College of, 36-46  
 College of Continuing Studies see Continuing Studies, College of, 47-50  
 College of Education see Education, College of, 51-65  
 College of Liberal Arts see Liberal Arts, College of, 66-111  
 College of Nursing see Samaritan College of Nursing, 134-137  
 College of Science and Allied Health see Science and Allied Health, College of, 112-133  
 Commencement Exercises, 27  
 Communications and Speech, Department of, 73-76  
   Department Description, 73  
   Course Descriptions, 74-76  
   Degree Requirements, 73-74  
   Minor Requirements, 74  
 Computer Application Modules  
   Course Descriptions, 42

Computer Information Systems  
   Course Descriptions, 42  
 Computer Information Systems Certificate Program, 37  
 Computer Science  
   Course Descriptions, 83  
 Concurrent Enrollment, 22  
 Conduct, Student, 20  
 Continuing Studies, College of, 47-50  
   College Description, 47  
   Course Descriptions, 49-50  
   Degree Requirements, 48-49  
 Cooke Health Center, 3, 19  
 Corporate Fitness and Wellness  
   Degree Requirements, 121  
 Correspondence and Extension Credit, 23  
 Correspondence Directory, see Whom to Contact, ii  
 Counseling Courses, see Psychology, 107-108  
 Course Descriptions (see specific College or Department)  
 Course Scheduling, 26  
 Courses, 22-24  
   Auditing of, 22  
   Change of, 22  
   Course Load, 22  
   Dropping, 22  
   Order of Taking, 22  
   Repeating, 22-23  
   Special Study, 23  
   Withdrawing from, 23  
 Creative Arts in Worship  
   Course Descriptions, 99  
   Degree Requirements, 97-98  
 Credit Grade, 24  
 Credit, Unit of, see Academic Semester Hour, 21  
 Criminal Justice, see Justice Studies, 104  
 Curricular Requirements for Graduation, 26

## D

Dean's List, 24  
 Degrees Offered  
   Bachelor of Arts, 25  
   Bachelor of Business Administration, 25  
   Bachelor of Liberal Studies, 25  
   Bachelor of Music, 25  
   Bachelor of Science, 25-26  
   Bachelor of Science in Nursing, 26  
   Master of Arts in Education, 25  
   Master of Arts in Teaching, 25  
   Master of Business Administration, 25  
   Master of Education, 25  
 Dentistry, Pre-medical, 113  
 Design Studio Course Descriptions, 71-72  
 Direct Transfer Plan, 7  
 Directory of Correspondence, see Whom to Contact, ii  
 Directory of Personnel, 138-143  
 Disability Services, 20  
 Discipline, see Student Conduct, 20  
 Dismissal from the University, see Student Conduct, 20

Dormitories, see Housing, 19-20  
 Double Degrees, 29  
 Double Major, 56  
 Drama, see Theatre & Drama, Department of, 109-111  
 Dropping of Courses, 22  
 Dynamical Systems, see Mathematics, 83

## E

Early Admissions Program, 5, 6  
 Economics  
   Course Descriptions, 42  
 Education, College of, 51-65  
   Application Procedures, 52-53, 56, 59  
   Certification, Elementary Education, 54-55  
   Certification, Secondary Education, 54  
   College Description, 51  
   Course Descriptions, 59-65  
   Degree Requirements, 54-56, 57-59  
   Fifth Year Program, 56  
   Guarantee Statement, 51  
   Master of Arts  
     Application Procedures, 56-57  
     Degree Requirements, 58-59  
   Master of Arts in Teaching  
     Application Procedures, 56-57  
     Degree Requirements, 59  
   Master of Education  
     Application Procedures, 56-57  
     Degree Requirements, 57-58  
   University Liberal Arts Foundation, 53-54  
 Elective Courses, see Course Scheduling, 26  
 Elementary Education  
   Course Descriptions, 62-63  
   Degree Requirements, 54-55  
 Elementary Teaching Certificate, 54-55  
 Eligibility  
   Activities, 23  
   Athletics, 20  
   Financial Aid, 14  
 Emotionally Handicapped Certification  
   Degree Requirements, 55  
 Employment Services, 19  
 Endowed Scholarships, 16-17  
 Engineering  
   Course Descriptions, 131  
   Preparation for, 114  
 English Adjustment Skills Experience (EASE), 10, 31  
   Course Description, 35  
 English as a Second Language  
   Course Description, 64-65  
   Minor Requirements, 59  
 English Literature  
   Course Descriptions, 79  
   Degree Requirements, 77  
 English Minor, 78  
 English Teaching  
   Degree Requirements, 77  
 Ensembles  
   Course Descriptions, 94-95  
 Environmental Biology  
   Degree Requirements, 115-116

Ethics Courses, see Philosophy, 101  
Ethington Memorial Theatre, 3  
Evaluation of Transfer Credit, 10-12  
Exercise Science  
    Course Descriptions, 122-123  
    Minor Requirements, 121  
Extracurricular Activities, 20-21

## F

Facilities, see University Campus, 3-4  
Faculty, 3, 138-141  
Fall Semester Dates,  
    see Academic Calendar, iv-v  
Family Educational Rights and Privacy Act,  
    see Student Records, 25  
Federal Work Study Program, 19  
Fees for withdrawals, Dropped Courses, 13  
Fifth Year Program, 56  
Film Studies see Los Angeles, 30  
Finance  
    Course Descriptions 42-43  
    Degree Requirements, 39  
Financial Aid, 14-15  
    Academic Load, 14  
    Academic Progress, 14-15  
    Application Process, 14  
    Award Procedures, 14  
    Determination of Financial Aid, 14  
    Eligibility, 14  
    Keeping the Office of  
        Financial Aid Informed, 14  
    Preference Deadline Dates, 14  
Financial Information, 12-19  
    Approvals, 19  
    Endowed Scholarships, 16-17  
    Financial Aid, 14-15  
    Grants, 18  
    Refund Policies, 13  
    Room and Board, 12  
    Scholarships, 15-18  
    Special Class Fees, 12  
    Student Employment, 19  
    Student Expectations, 15  
    Student Expenses, 12  
    Student Insurance, 12-13  
    Student Loans, 18-19  
    Student Responsibilities, 15  
    Tuition, Fees, and Housing, 12  
    Validine, 12  
Fire Science  
    Minor Requirements, 121  
Fleming Classroom Building, 3  
Fleming Library, 3  
Food Services, 20  
Foreign Languages,  
    see Modern Languages, 81-82  
French  
    Course Descriptions, 81

## G

General Academic Regulations, 21-25  
General University Information, 1-3

Geography  
    Course Descriptions, 104  
Geology  
    Course Descriptions 132  
German  
    Course Descriptions, 81-82  
    Minor Requirements, 77-78  
Governing Body of the University, 3  
Government, see Political Science, 105-106  
Grade Requirements, 23  
Grading System, 23  
Graduation, 25-29  
Graduate Degrees  
    Business Administration, 40  
    Elementary Education, 57, 59  
    Reading Education, 58  
    Secondary Education, 57-58  
    Teaching English as a Second Language  
        (TESL), 58-59  
Graduate Studies, College of Business (M.B.A.)  
    Admission Requirements, 39-40  
    Course Descriptions, 44-46  
    Course Waivers, 40  
    Degree Requirements, 40  
    Graduation Requirements, 40  
    International Opportunities, 40  
    Transfer Credits, 40  
Graduate Studies, College of Education  
    Application Procedures, 56-57  
    Degree Requirements, Master of Arts (M.A.)  
    Elementary Education, 57  
    Reading Education, 58  
    Secondary Education, 59  
    Teaching English as  
        a Second Language, 58-59  
    Degree Requirements, Master of Teaching  
        (MAT), 59  
Degree Requirements, Master of Education  
    (M.Ed.), 57-58  
    Program for Elementary Certification, 57  
    Program for Secondary Certification, 57-58  
    Program for Special Education Certification, 58  
Graduation Requirements, 25-29  
    Bachelor Degree Candidates  
        Suggested Program of Study, 28  
    Bachelor of Liberal Studies  
        Degree Requirements, 28-29  
    Choice of Catalog, 26  
    Correspondence and Extension Credit, 27  
    Course Scheduling, 26  
    Degrees Offered, 25-26  
    Double Degree, 29  
    Elective Courses, see Course Scheduling, 26  
    General Requirements, 27  
    Grade Requirements, 27  
    Major and Minor Subjects, 29  
    Minimum Residence, 27  
    Second Degree, 29  
    Total Hours, 27  
    University Liberal Arts Foundation, 27-28  
    Upper Division Requirement, 27  
Grants, 18  
Graphic Design  
    Degree Requirements, 68-69  
Greek, New Testament

Course Descriptions, 100-101  
Guitar  
    Emphasis Requirement, 86

## H

Health Education  
    Course Descriptions, 123  
    Minor Requirements, 122  
Health, Exercise Science, and Physical  
    Education, Department of, 120-126  
    Course Descriptions, 122-126  
    Degree Requirements, 120-121  
    Department Description, 120  
    Minor Requirements, 121-122  
Health History Form, 6,7,8,10  
Health Services, 19  
Historical Sketch, 2-3  
Historical/Theological Studies  
    Course Descriptions, 99  
History  
    Course Descriptions, 80-81  
    Degree Requirements, 78  
    Minor Requirements, 78  
Holidays, see Academic Calendar, iv-v  
Honor Roll, 24  
Honors  
    Awards, 24  
    at Graduation, 24  
    Recognitions, 24  
    Student Audit Privileges, see Dean's List, 24  
Honors Program, 31  
    Course Descriptions, 34-35  
Housing Services, 19-20  
Human Biology  
    Degree Requirements, 116  
Humanities  
    Minor Requirements, 78  
Humanities, Department of, 77-82  
    Course Descriptions, 79-82  
Department Description, 77  
    Degree Requirements, 77-78  
    Minor Requirements, 78

## I

Incomplete Grade, 24  
Independent Study Courses, 23  
Infirmary, see Health Services, 19  
International Studies  
    Degree Requirements, 102  
Instrumental Conducting  
    Emphasis Requirements, 89  
Insurance, 12-13  
Intercollegiate Athletics, 20  
International Education, Center for, 29  
International Business  
    Degree Requirements, 39  
International Students  
    Admission of, 8-10  
Intramural Athletics, 20

## J

J. Niles Puckett Center for Christian

Studies, 96-101  
Journalism  
  Course Descriptions, 75  
Journalism, Communications  
  Emphasis Requirements, 73-74  
Junior Marshals, 24  
Justice Studies  
  Course Descriptions, 105  
  Degree Requirements, 103  
  Minor Requirements, 104

---

**K**

Kirksville College of Osteopathic Medicine,  
  Southwest Center, see also Arizona School  
  of Health Sciences, 112

---

**L**

Languages, Courses in,  
  see Modern Languages, 82  
Latin American Studies program, 30  
Learner Goals, 27  
Learning Disabilities Certification  
  Degree Requirements, 55  
Liberal Arts, College of,  
  Department of,  
    Art, 68-72  
    Communications and Speech, 73-76  
    Humanities, 77-82  
    Mathematics, 83-85  
    Music, 86-95  
  J. Niles Puckett Center for Christian  
    Studies, 96-101  
  Social Sciences, 102-108  
  Theatre/Drama, 109-111  
  Description, 66  
  University Liberal Arts Foundation, 67  
Liberal Studies, Bachelor of, 25  
Library, Fleming, 3  
Literature, English Degree Requirements, 77  
Loans, Student, 18-19  
Location of the University, 4  
Los Angeles Film Studies Center, 30

---

**M**

Majors, 25-26  
Management, see Business Administration, 38  
Map, Campus, 150-151  
Marketing  
  Course Descriptions, 43-44  
  Degree Requirements, 39  
Martial Arts  
  Minor Requirements, 122  
Master of Arts  
  Degree Requirements, 58-59  
Master of Arts in Teaching  
  Degree Requirements, 59  
Master of Business Administration  
  Degree Requirements, 40  
Master of Education  
  Degree Requirements, 57-58  
Mathematics  
  Course Descriptions, 84-85  
  Degree Requirements, 83

  Minor Requirements, 84  
Mathematics, Department of, 83-85  
  Course Descriptions, 84-85  
  Department Description, 83  
  Dynamical Systems Laboratory, 82  
  Degree Requirements, 83-84  
  Minor Requirements, 84  
Mathematics for Engineers  
  Degree Requirements, 84  
Mathematics for Secondary Teachers  
  Degree Requirements, 84  
Medical Examination, see Health Services, 19  
Middle East Studies Program, 31  
Military Science  
  Course Descriptions, 34  
Minimum Residence, 27  
Minors, 26  
Mission Statement, 1  
Modern Languages, 81-82  
Music, Department of, 86-95  
  Course Descriptions, 89-95  
  Department Description, 86  
  Degree Requirements, 86-89  
  Minor Requirements, 89  
Music Education  
  Course Descriptions, 94  
  Degree Requirements, 88-89  
Music Theatre  
  Course Descriptions, 95

---

**N**

New Testament Greek  
  Course Descriptions, 10101  
Numbering of Courses, see Classification  
  of Courses, 21  
Nursing, see  
  Samaritan College of Nursing, 134-137

---

**O**

Occupational Therapy, Preparation for, 107-108  
Officials, see Administration, 124-129  
Optometry, Preparation for, 107  
Order of Taking Courses, 22  
Organizational Sociology  
  Degree Requirements, 48  
Orientation, New Students, 4  
Oxford Honors Program, 31  
Oxford Summer School Program, 31

---

**P**

Parking Fee, see Tuition, Fees and Housing, 12  
Payment of Fees, see Student Expenses, 12  
Personnel, see Administration,  
  Faculty, Staff, 138  
Pharmacy, Preparation for, 114  
Philosophy  
  Course Descriptions, 101  
  Minor Requirements, 98  
Photojournalism, Communications  
  Emphasis Requirements, 74  
Physical Education  
  Course Descriptions, 123-125

  Degree Requirements, 121  
  Minor Requirements, 122  
Physical Examinations, see Health Services, 19  
Physical Science  
  Degree Requirements, 128  
Physical Science, Department of, 127-133  
  Course Descriptions, 128-132  
  Degree Requirements, 128  
  Department Description, 127  
  Physical Therapy, Preparation for, 114  
  Physician's Assistant Studies, 114  
Physics  
  Course Descriptions, 133  
  Minor Requirements, 129  
Physics for Secondary Teachers  
  Degree Requirements, 128  
Piano Performance  
  Major Requirements, 88  
Piano Proficiency, 87  
Podiatry, Preparation for, 113  
Political Science  
  Course Descriptions, 105-106  
  Degree Requirements, 103  
  Minor Requirements, 104  
Practical Ministries  
  Course Descriptions, 99-100  
Practicum, 23  
Pre-engineering, 114  
Pre-health Professions, Preparations for  
  Schools of,  
    Pharmacy, 114  
    Physician Assistant Studies, 114  
    Physical Therapy, 114  
    Occupational Therapy, 114  
Pre-medical, Preparation for  
  Dentistry, 113  
  Medical, 113  
  Optometry, 113  
  Podiatry, 113  
  Veterinary Science, 113  
Pre-professional Programs, 26  
Presidents of the University,  
  see Historical Sketch, 2-3  
Privacy Act, see Student Records, 25  
Probation, Academic, 24  
Professors Emeriti, 141  
Psychology  
  Course Descriptions, 106-107  
  Degree Requirements, 103  
  Minor Requirements, 104  
Publications, 3, 21  
Public Relations, Communications  
  Emphasis Requirements, 74  
Public Safety  
  Degree Requirements, 48  
Puckett, J. Niles Center for Christian  
  Studies, see Christian Studies, 96-101  
Purpose of the University, 1

---

**Q**

Quality Points, see Grading System, 23

---

**R**

Ray-Maben Scholars, 24  
Reading and Conference, 23  
Reading Education  
    Course Descriptions, 63  
Readmission, 8  
Recitals, 86  
Recreation  
    Course Descriptions, 125-126  
    Degree Requirements, 121  
    Minor Requirements, 122  
Refund Policies, 13  
    Refund Schedule, 14  
Registration Dates, see Academic Calendar, iv-v  
Regulations, Academic, 21-25  
Religion, see Christian Studies, 96-101  
Religious Life, see Campus and Community  
    Ministries/Chapel, 20  
Repeating Courses, 22-23  
Reservations, Room, see Housing Services, 19  
Reserve Officer Training Programs, 32-33  
    Air Force ROTC, 32  
        Course Descriptions, 33-34  
        Scholarships, 17, 32  
    Army ROTC, 33-33  
        Course Descriptions, 34  
    Scholarships, 17-33  
Residence Halls, see Housing  
    Services, 19  
Residence Study Requirement, 27  
Room and Board, 12, 19  
Russian  
    Course Descriptions, 82  
Russian Studies Program, 31

---

**S**

Samaritan College of Nursing, 134-137  
    College Description, 134  
    Course Descriptions, 136-137  
    Degree Requirements, 136  
    University Liberal Arts Foundation, 135  
SAT Scores, 5  
Schedule Changes, see Change of Courses, 22  
Scholarships, 15-18  
Science and Allied Health, College of, 112-133  
    Arizona School of Health Sciences, 112  
    Department of  
        Biology, 115-119  
        Health, Exercise Science, and Physical  
        Education, 120-126  
        Physical Science, 127-133  
    Description, 112  
    Pre-elementary Teaching, 114  
    Pre-engineering, 114  
    Pre-graduate, 114  
    Pre-health Professionals, 114  
    Pre-medical, 113  
    University Liberal Arts Foundation, 112-113  
Science for Elementary Teachers  
    Degree Requirements 129  
Science Teaching  
    Minor Requirements, 129

Secondary Certification, 55-56  
Secondary Education  
    Course Descriptions, 63  
Second Degree, 29  
Semester Hour, Definition of, 21  
Shadows, 21  
Social Sciences  
    Degree Requirements, 103  
    Minor Requirements, 104  
Social Sciences, Department of  
    Course Descriptions, 105-108  
    Degree Requirements, 102-104  
    Department Description, 102  
    Minor Requirements, 104  
Social Work, see Sociology 104  
Sociology  
    Course Descriptions, 107-108  
    Degree Requirements, 104  
    Minor Requirements, 104  
Spanish  
    Course Descriptions, 82  
    Minor Requirements, 78  
Special Class Fees, 12  
Special Education  
    Course Descriptions, 64  
    Emotionally Handicapped, 55  
    Learning Disabilities, 55  
Special Events, 21  
Special Study Courses, 23  
Speech  
    Course Descriptions, 75-76  
    Minor Requirements, 74  
Speech Teaching  
    Course Descriptions, 75-76  
    Degree Requirements, 74  
Speech/Theatre  
    Degree Requirements, 109  
Sports Health Care, 114  
Spring Semester Dates,  
    see Academic Calendar, iv-v  
Staff,  
Standards of Academics, 24-25  
Student Clubs, 21  
Student Conduct, 20  
Student Employment Services, 19  
Student Expenses, 12  
Student Government, see  
    Campus Leadership Council 21  
Student Insurance, 12  
Student Life, 19-21  
    Athletics, 20  
    Calendar/Handbook, 19  
    Campus and Community  
        Ministries/Chapel, 20  
    Disability Services, 20  
    Food Services, 20  
    Health Services, 19  
    Housing, 19  
        Mission Statement, 19  
    Statement of Principle, 19  
    Student Activities, 20-24  
    Student Conduct, 20  
Student Loans, 18-19  
Student Organizations, 21

Student Orientation, 4  
Student Publications, 21  
Student Records, 25  
Student Residences, see Housing, 19  
Student Teaching Dates,  
    see Academic Calendar, iv-v  
Studio Art  
    Degree Requirements, 69  
Minor Requirements, 69  
Study Abroad Program,  
    see Center for International Education, 30  
Suspension, Academic, 25

---

**T**

Teacher Education Curricula, 52  
Teacher Placement, 51  
Teaching English as a Second Language (TESL)  
    Course Descriptions, 64-65  
    Degree Requirements, 58-59  
Tell Science Building, 3  
Theatre & Drama, Department of, 109-111  
    Course Descriptions, 110-111  
    Department Description, 109  
    Degree Requirements, 109  
    Minor Requirements, 109  
Theatre & Drama  
    Degree Requirements, 109  
Transfer of Credit, 10-11  
Transfer Students, 7  
Trustees, Board of, 138  
Tuition, 12

---

**U**

Unclassified Students, 6  
Undergraduate Admission, 4-6  
Unit of Credit, see Academic Semester Hour, 21  
University Campus, 3  
    Map, 150-151  
University, General Information, 1-4  
University Liberal Arts Foundation, 28  
University Liberal Arts Foundation for  
    College of Business, 37-38  
    College of Continuing Studies, 48  
    College of Education, 53-54  
    College of Liberal Arts, 67  
    College of Science and Allied Health, 112-113  
    Samaritan College of Nursing, 135  
University Mascot, 4  
University Publications, 3  
University Seal, 3  
University Special Programs, 29-33  
    Academic Tutoring, 29  
    Center for International Education, 29  
    Christian Perspectives, 31  
    Coalition for Christian Colleges and  
        Universities, 30  
    Course Descriptions, 33-35  
    EASE, Program, 10, 31  
    Honors Program, 31  
    Reserve Officer Training Program,  
        (ROTC), 31-33  
    Study Abroad, 29-30

University Success Program, 33  
Upper Division Requirements, 27

## V

Validine, 12  
Veterans, see Approvals, 19  
Veterinary Science, Preparation for, 113  
Vocal, see Music, Department of  
Degree Requirements, 87  
Vocational Rehabilitation, see Approvals, 19

## W

Whom to Contact, ii  
Who's Who Among Students, 24  
Wildlife Biology Emphasis  
Professional Certification, 116  
Withdrawal  
for Non-attendance, 23  
for Non-payment, see Student Expenses, 12  
from Courses, 23  
Withdrawal Grade, 24  
Work Opportunities, 19

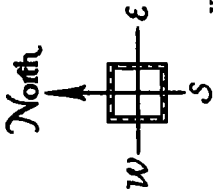
Writing/Journalism  
Minor Requirements, 78  
Writing Proficiency Examination, 6, 7

## Z

Zoology, 119

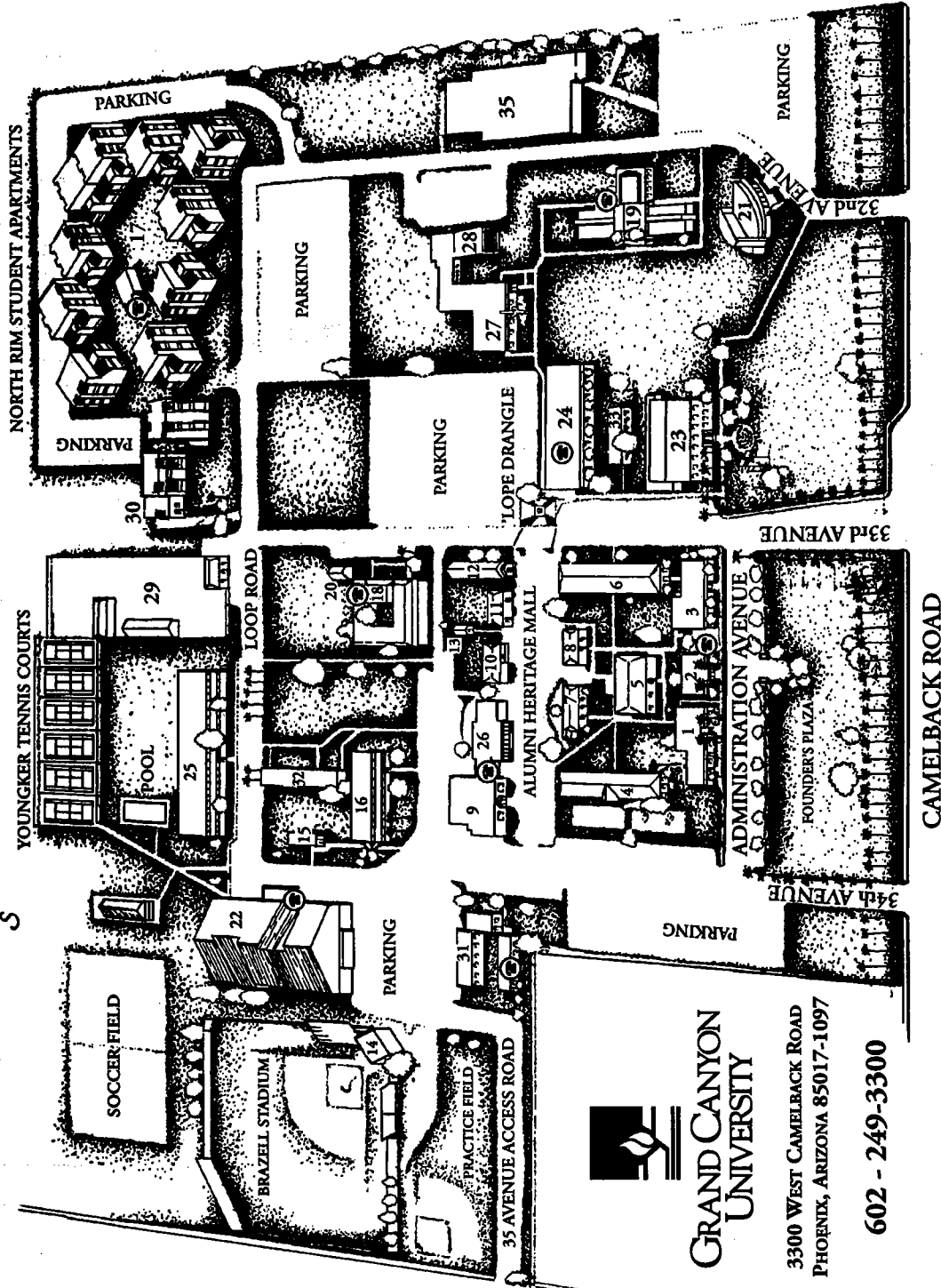
## COURSE PREFIX INDEX

<b>ACC</b> Accounting, 40-41, 44-45	<b>HTH</b> Historical Theological Studies, 99	<b>PHI</b> Philosophy, 62,101
<b>AES</b> Aerospace Studies, 33-34	<b>JRN</b> Journalism, 75	<b>PHY</b> Physics, 132-133
<b>ARE</b> Art Education, 69	<b>JUS</b> Justice Studies, 105	<b>POS</b> Political Science, 105-106
<b>ARH</b> Art History, 70	<b>MAP</b> Music - Applied, 92	<b>AES</b> Aerospace Studies, 33-34
<b>ART</b> Art Studio, 70-71	<b>MAT</b> Mathematics, 84-85	<b>PSA</b> Public Safety Administration, 50
<b>BIB</b> Biblical Studies, 98	<b>MCH</b> Church Music, 89	<b>RDG</b> Reading Education, 63
<b>BIO</b> Biology, 117-119	<b>MED</b> Music Education, 94	<b>REC</b> Recreation, 125-126
<b>BLE</b> Bilingual Education, 65	<b>MEN</b> Music Ensembles, 94-95	<b>RUS</b> Russian, 82
<b>BOT</b> Botany, 119	<b>MGT</b> Management, 43, 44-45	<b>SCI</b> Science on the Internet, 119, 126, 133
<b>BUS</b> Business, 41-42, 44-46	<b>MIN</b> Practical Ministries, 99-100	<b>SCS</b> Organizational Sociology, 50
<b>CAW</b> Creative Arts in Worship, 99	<b>MIS</b> Military Science, 34	<b>SED</b> Secondary Education, 63
<b>CCS</b> College of Continuing Studies,33-34	<b>MKT</b> Marketing, 43-45	<b>SOC</b> Sociology, 107-108
<b>CHM</b> Chemistry, 129-131	<b>MPC</b> Music Majors Class Piano, 92	<b>SPA</b> Spanish, 82
<b>CHI</b> Chinese, 81	<b>MPH</b> Music Non-Majors Class Piano, 92-93	<b>SPC</b> Speech, 75-76
<b>CIS</b> Computer Information Systems, 42, 44	<b>MPJ</b> Music Majors Class Piano/Jazz, 92	<b>SPE</b> Special Education, 64
<b>COM</b> Communications, 74-75	<b>MPS</b> Music Majors Class Piano/Arranging for Church Pianist, 92	<b>TRE</b> Theatre and Drama, 110-111
<b>CSC</b> Computer Science, 84	<b>MTH</b> Music/Theatre, 95	<b>UNV</b> University Courses, 35
<b>DGN</b> Design Studio, 71-72	<b>MUS</b> Music, 89-92	<b>ZOL</b> Zoology, 119
<b>ECN</b> Economics, 42	<b>MVC</b> Music Majors Class Voice, 92	
<b>EDU</b> Education, 59-62	<b>MVH</b> Music,Non-Majors Class Voice, 92-93	
<b>EED</b> Elementary Education, 62	<b>M_A</b> Music Majors/Private Applied Instruction Bachelor of Arts, 93	
<b>ENG</b> English, 79-80	<b>M_E</b> Music Majors/Private Applied Instruction/Bachelor of Science, 93	
<b>EGN</b> Engineering, 131	<b>M_G</b> Music Majors Private Applied Instruction/General Semester, 93	
<b>ESL</b> Teaching English as a Second Language, 64-65	<b>M_L</b> Music Non-Majors/Private Applied Instruction, 93-94	
<b>EPE</b> Army Master Fitness, 34	<b>M_M</b> Music Majors/Private Applied Instruction/Bachelor of Music, 93	
<b>EXS</b> Exercise Science, 122-123	<b>M_P</b> Music Majors/Private Applied Instruction/Probationary Status, 93	
<b>FIN</b> Finance, 12-13, 45	<b>NRS</b> RN to BSN Option, 49-50	
<b>FRE</b> French, 81	<b>NUR</b> Nursing, 136-137	
<b>GEO</b> Geography, 104	<b>PED</b> Physical Education, 123-125	
<b>GER</b> German, 81-82		
<b>GLG</b> Geology, 131-132		
<b>GRK</b> Greek, 100		
<b>HIS</b> History, 80-81		
<b>HLT</b> Health Education, 123		
<b>HON</b> Honors Courses, 34-35		



# Security Phone Location

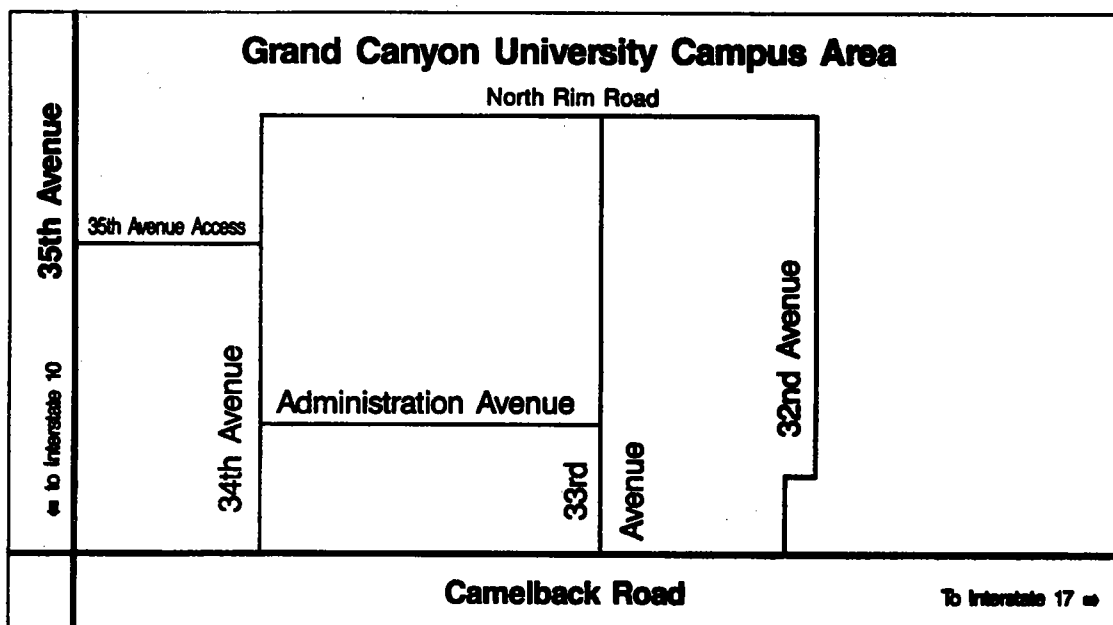
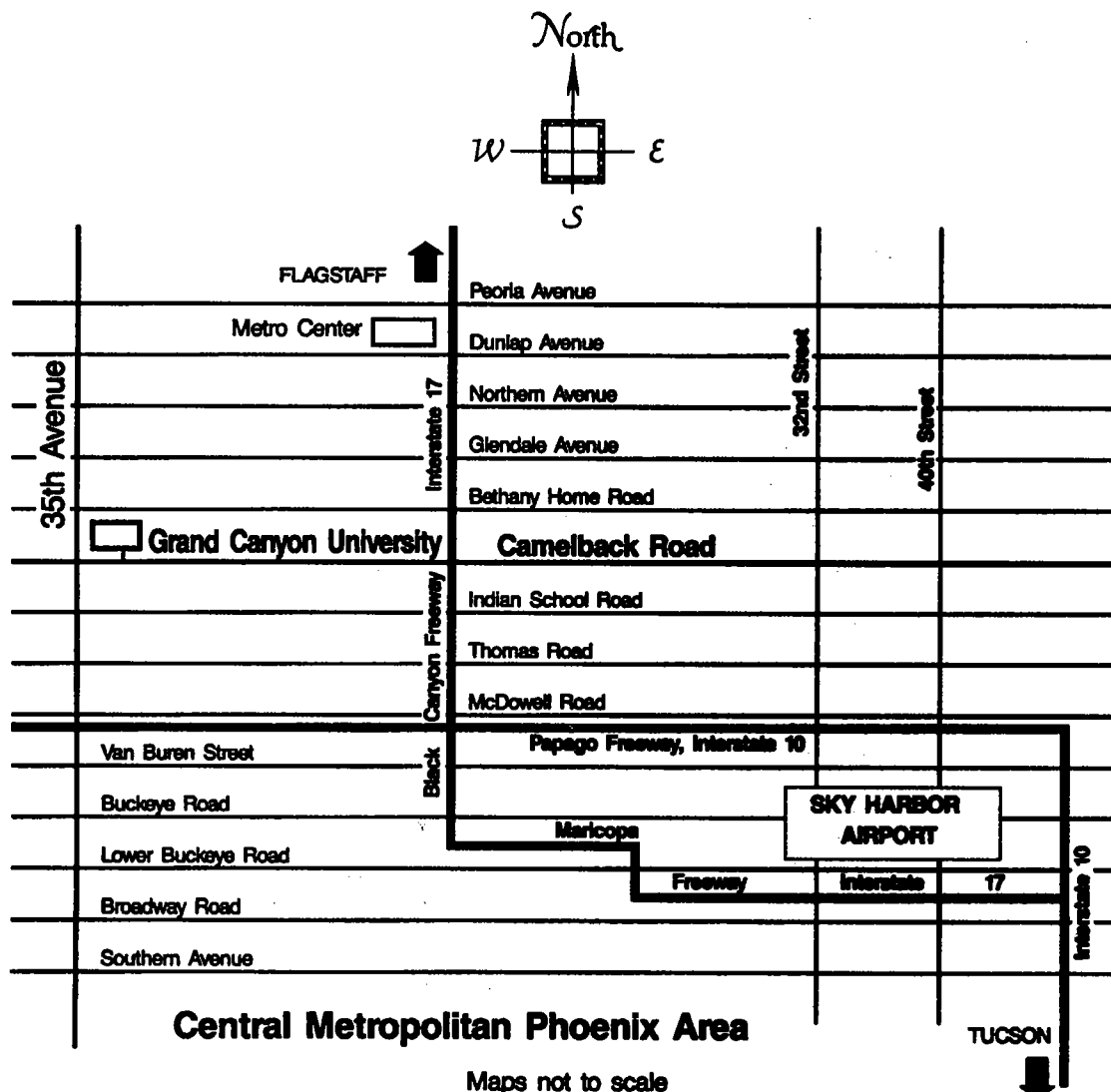
- MAP LEGEND**
1. Wallace
  2. Smith-Parker
  3. Ray Student Services
  4. Kachina Hall Music Faculty
  5. Computer Center
  6. College of Liberal Arts
  7. College of Business
  8. Student Life
  9. Food Services
  10. Accounting Service
  11. Publication Classrooms
  12. Music Annex
  13. Prayer Chapel
  14. Concession Stand
  15. Cooke Health Center
  16. Bright Angel Residence
  17. North Rim Student Apartments
  18. Smith Arts Complex
  19. Samaritan College of Nursing
  20. Sculpture Annex
  21. Edington Theatre
  22. Anelope 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 Classroom /EAR
  32. Mariposa Hall
  33. College of Education
  35. Kirkville College of Osteopathic Medicine



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