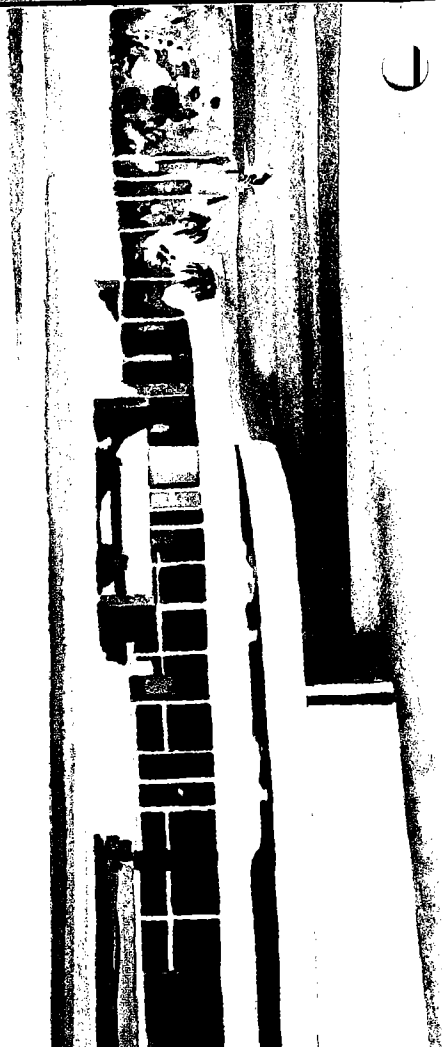




GRAND CANYON COLLEGE

General Catalog

1982-1983/1983-1984

PHOENIX, ARIZONA

THE COLLEGE SEAL

The seal of Grand Canyon College depicts the saguaro cactus, the state flower, silhouetted against an outline of the State of Arizona. In the background are mountain ranges with a cross erected on the highest peak, illuminating the map of the state. The desert scene represents the barren state of uneducated man. The clouds approaching from beyond the mountains give promise that the barren desert may come to know life, beauty and fruitfulness. The saguaro cactus, with branches pointing upward, signifies the four years of intellectual endeavor and opportunity afforded students at Grand Canyon College. The mountains in the background symbolize the challenging achievements awaiting on the horizons of the future. The cross serves as a guide and source of



spiritual enlightenment. Between the outer circle representing the earth and the inner circle representing the wheel of progress, the name of the College and the place and date of its founding are inscribed.

The use of the seal is permitted only with approval of the President of the College.

The colors of Grand Canyon College are purple and white.

Recommended by the faculty and adopted by the trustees.

FOREWARD

Grand Canyon College is a Christian, liberal arts college. As such, it offers bachelor's degree programs which feature academic excellence in an environment where a Christian perspective is emphasized. The College strives to attract capable, ambitious, and moral people who can benefit from a college education with a Christian emphasis and who are motivated by ideals of service in various fields of human endeavor.

The College is open to academically and morally qualified students, regardless of national origin, race, creed, sex, or religious beliefs.

Grand Canyon College is a member of the North Central Association of Colleges and Secondary Schools.

Annually Grand College informs students of the Family Educational Rights and Privacy Act of 1974. This Act, with which the institution wishes to comply fully, was designed to protect the privacy of education 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 through informal and formal hearings. Students also have the right to file complaints with The Family Educational Rights and Privacy Act office (FERPA) concerning alleged failures by the institution to comply with this Act.

Local policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the Registrar's office. The policy is also printed in the class schedule.

The Registrar's office maintains a Directory of Records which lists all educational records maintained on students by this institution.

Questions concerning the Family Education Rights and Privacy Act may be referred to the Registrar's office, March 1, 1978.

DIRECTORY FOR CORRESPONDENCE

College Mailing Address

Grand Canyon College
3300 W. Camelback Road
P.O. Box 11097
Phoenix, AZ 85061

General Policy, Gifts and Endowment, Legal Matters

President of the College

Academic Matters, Faculty, Curriculum, and Program

Academic Dean

Registrar

Expenses, Financial Arrangements,

Student Employment on Campus

Director of Financial Aid

Student Employment off Campus

Director of Placement

Tuition Grants for Ministerial Students

Director of Financial Aid

Dormitories and Housing

Dean of Students,

Fund Development

Administrative Assistant

Estate Planning

Senior Vice President for

Institutional Advancement

Associated Students, Student Publications

Vice President for Planning

& Development

Publicity Materials

Dean of Students

Teacher Education

Director of Admissions

Veterans' Affairs

Director of Teacher Education

Summer School

Director of Financial Aid

Alumni Affairs

Academic Dean

Secretary of the Alumni Association

INFORMATION FOR VISITORS

The Administration Building faces toward Camelback Road and is the central one of the three buildings on Administration Avenue. Office hours are 8 a.m. to 5 p.m., Monday through Friday. From 9 a.m. to 12 o'clock noon on Saturdays the office of the Director of Admissions and the switchboard are open. During summer and holidays the office hours are 8 a.m. to 4 p.m. Holidays: Thanksgiving Day, Christmas Eve, Christmas Day, New Year's Eve, New

Year's Day, Memorial Day, Independence Day, Veteran's Day and Labor Day.

Visitors are always welcome on the campus. One who anticipates a visit to the campus when offices will be closed may make arrangements by writing to the Executive Vice President. If plans cannot be made far enough in advance, a telephone call will often find someone at the switchboard to arrange a visit. Telephone: Area Code 602, 249-3300.

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ACADEMIC CALENDAR

1982													
S M T W T F S S							S M T W T F S S						
MAY							JUNE						
2	3	4	5	6	7	8	1	1 2 3 4 5					
9	10	11	12	13	14	15	6	7	8	9	10	11	12
16	17	18	19	20	21	22	13	14	15	16	17	18	19
23	24	25	26	27	28	29	20	21	22	23	24	25	26
30	31						27	28	29	30			
JULY							AUGUST						
4	5	6	7	8	9	10	1	2	3	4	5	6	7
11	12	13	14	15	16	17	8	9	10	11	12	13	14
18	19	20	21	22	23	24	15	16	17	18	19	20	21
25	26	27	28	29	30	31	22	23	24	25	26	27	28
							29	30	31				
SEPTEMBER							OCTOBER						
5	6	7	8	9	10	11	1	2	3	4	5	6	7
12	13	14	15	16	17	18	3	4	5	6	7	8	9
19	20	21	22	23	24	25	10	11	12	13	14	15	16
26	27	28	29	30			17	18	19	20	21	22	23
							24	25	26	27	28	29	30
							31						
NOVEMBER							DECEMBER						
1	2	3	4	5	6		5	6	7	8	9	10	11
7	8	9	10	11	12	13	12	13	14	15	16	17	18
14	15	16	17	18	19	20	19	20	21	22	23	24	25
21	22	23	24	25	26	27	26	27	28	29	30	31	
28	29	30											

1983													
S M T W T F S S							S M T W T F S S						
JANUARY							FEBRUARY						
2	3	4	5	6	7	8	1	1 2 3 4 5					
9	10	11	12	13	14	15	6	7	8	9	10	11	12
16	17	18	19	20	21	22	13	14	15	16	17	18	19
23	24	25	26	27	28	29	20	21	22	23	24	25	26
30	31						27	28					
MARCH							APRIL						
1	2	3	4	5			3	4	5	6	7	8	9
6	7	8	9	10	11	12	10	11	12	13	14	15	16
13	14	15	16	17	18	19	17	18	19	20	21	22	23
20	21	22	23	24	25	26	24	25	26	27	28	29	30
27	28	29	30	31									
MAY							JUNE						
1	2	3	4	5	6	7	5	6	7	8	9	10	11
8	9	10	11	12	13	14	12	13	14	15	16	17	18
15	16	17	18	19	20	21	19	20	21	22	23	24	25
22	23	24	25	26	27	28	26	27	28	29	30		
29	30	31											

SUMMER SESSIONS*

1982	Pre-sessions First Term Second Term	May 24-June 4 June 4-July 8 July 9-Aug 12
1983	Pre-sessions First Term Second Term	May 23-June 3 June 3-July 7 July 8-Aug 11
1984	Pre-sessions First Term Second Term	May 21-June 1 June 1-July 5 July 6-Aug 9

*NOTE: The initial date in each instance is the date of registration.

FALL SEMESTER

<u>1982</u>		<u>1983</u>
Aug 30	Faculty Workshop	Aug 29
Aug 30	Dormitories open for new students	Aug 29
Aug 31	Conferences, placement tests, and orientation for new students	Aug 30
Aug 31	Registration for Seniors, Juniors, Sophomores	Aug 30
Sept 1	Registration for Freshmen and Transfers	Aug 31
Sept 2	Instruction begins, day classes	Sept. 1
Sept 2,6,7	Evening Registration	Sept. 1,5
Sept 2	Instruction begins, evening classes	Sept 1

1983

S	M	T	W	T	F	S	S	M	T	W	T	F	S					
JANUARY							FEBRUARY											
					1							1	2	3	4	5		
					6	7	8					6	7	8	9	10	11	12
					9	10	11	12	13	14	15	13	14	15	16	17	18	19
					16	17	18	19	20	21	22	20	21	22	23	24	25	26
					23	24	25	26	27	28	29	27	28					
					30	31												
MARCH							APRIL											
					1	2	3	4	5							1	2	3
					6	7	8	9	10	11	12	3	4	5	6	7	8	9
					13	14	15	16	17	18	19	10	11	12	13	14	15	16
					20	21	22	23	24	25	26	17	18	19	20	21	22	23
					27	28	29	30	31			24	25	26	27	28	29	30
MAY							JUNE											
					1	2	3	4	5	6	7							
					8	9	10	11	12	13	14	5	6	7	8	9	10	11
					15	16	17	18	19	20	21	12	13	14	15	16	17	18
					22	23	24	25	26	27	28	19	20	21	22	23	24	25
					29	30	31					26	27	28	29	30		

STUDENT TEACHING

Sept 2	Classes begin	Sept 1
Sept 8	Last day to register for Education Block courses	Sept 7
Sept 24	Last day to drop Education Block courses without penalty	Sept 23
Oct 14	Classes end	Oct 13
Oct 18	Student teaching begins	Oct 17
Dec 17	Student teaching ends	Dec 16

ACADEMIC CALENDAR

JANUARY TERM

<u>1983</u>		<u>1984</u>
Jan 3	January Term begins (Mon.)	Jan 2
Jan 21	January Term ends (Fri.)	Jan 20
Jan 22	January Term reports due by noon	Jan 21

SPRING SEMESTER

Jan 24	Dormitories open for new students	Jan 23
Jan 25	Conferences for new students	Jan 24
Jan 25	Registration for Seniors, Juniors, Sophomores	Jan 24
Jan 26	Registration for Freshmen and Transfers	Jan 25
Jan 27	Instruction begins, day classes	Jan 26
Jan 27, 31, Feb. 1	Evening Registration	Jan 26, 30, 31
Jan 27	Instruction begins, evening classes	Jan 26
Feb 7	Last day to register for credit	Feb 6
Mar 18	Records close for mid-term grades	Mar 16
Mar 21	Mid-term grade reports due by noon	Mar 19

Mar 19-27	Spring vacation	Mar 17-25
Apr 1	Good Friday (no classes)	Apr 20
May 2	Last day to drop courses without penalty	May 1
May 20	Grade reports for Seniors due by noon	May 18
May 16-19	Final examinations (5th period MWFF held on May 13, 11)	May 14-17
May 23	Grade Reports due by noon	May 21
May 21	Baccalaureate service 10 a.m.	May 19
May 21	Commencement 5 p.m.	May 19

STUDENT TEACHING

Jan 27	Classes begin	Jan 26
Feb 2	Last day to register for Education Block courses	Feb 1
Feb 24	Last day to drop Education Block courses without penalty	Feb 24
Mar 10	Classes end	Mar 8
Mar 14	Student teaching begins	Mar 12
May 20	Student teaching ends	May 18

1983 (cont.)

S	M	T	W	T	F	S	S	M	T	W	T	F	S
JULY							AUGUST						
3	4	5	6	7	8	9	1	2	3	4	5	6	7
10	11	12	13	14	15	16	7	8	9	10	11	12	13
17	18	19	20	21	22	23	14	15	16	17	18	19	20
24	25	26	27	28	29	30	21	22	23	24	25	26	27
31							28	29	30	31			

SEPTEMBER OCTOBER

4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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NOVEMBER DECEMBER

6	7	1	2	3	4	5	4	5	6	7	1	2	3
13	14	15	16	17	18	19	11	12	13	14	15	16	17
20	21	22	23	24	25	26	18	19	20	21	22	23	24
27	28	29	30				25	26	27	28	29	30	31

1984

S	M	T	W	T	F	S	S	M	T	W	T	F	S
JANUARY							FEBRUARY						

1 2 3 4 5 6 7	1 2 3 4
8 9 10 11 12 13 14	5 6 7 8 9 10 11
15 16 17 18 19 20 21	12 13 14 15 16 17 18
22 23 24 25 26 27 28	19 20 21 22 23 24 25
29 30 31	26 27 28 29

MARCH APRIL

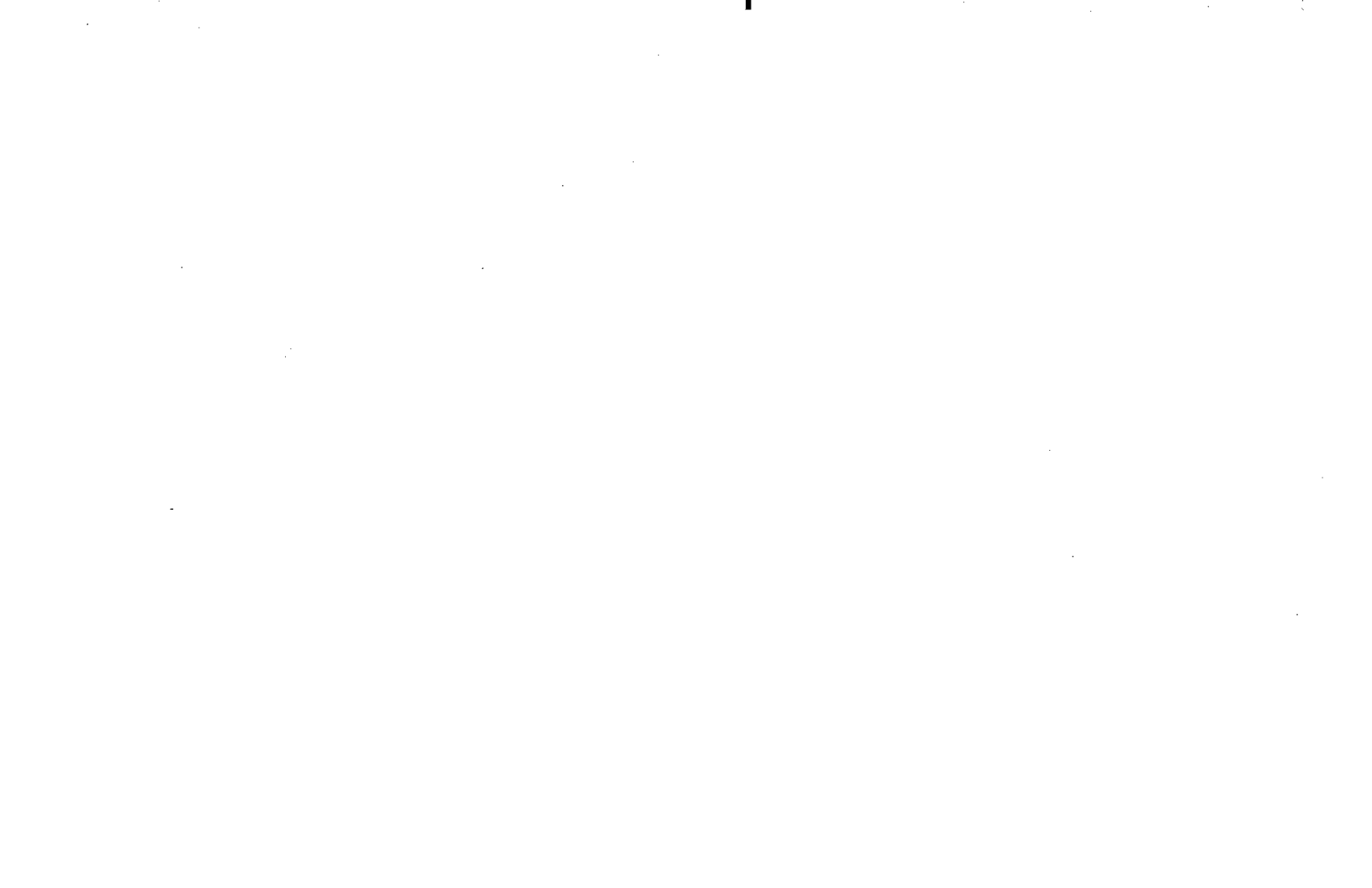
1 2 3	1 2 3 4 5 6 7
4 5 6 7 8 9 10	8 9 10 11 12 13 14
11 12 13 14 15 16 17	15 16 17 18 19 20 21
18 19 20 21 22 23 24	22 23 24 25 26 27 28
25 26 27 28 29 30 31	29 30

MAY JUNE

1 2 3 4 5	1 2
6 7 8 9 10 11 12	3 4 5 6 7 8 9
13 14 15 16 17 18 19	10 11 12 13 14 15 16
20 21 22 23 24 25 26	17 18 19 20 21 22 23
27 28 29 30 31	24 25 26 27 28 29 30

JULY AUGUST

1 2 3 4 5 6 7	1 2 3 4
8 9 10 11 12 13 14	5 6 7 8 9 10 11
15 16 17 18 19 20 21	12 13 14 15 16 17 18
22 23 24 25 26 27 28	19 20 21 22 23 24 25
29 30 31	26 27 28 29 30 31



I. GENERAL COLLEGE INFORMATION

- General Purpose
- Specific Objectives
- Christian Emphasis
- Governing Body
 - Faculty
 - Students
- Accreditation
- Teacher Education
- Pre-Professional Training
 - Computer Center
 - Evening Classes
 - January Term
 - Summer Sessions
- Historical Sketch
 - Location
 - Campus Map
 - Campus
- College Publications
- Alumni Association



GENERAL PURPOSE

The general purpose of Grand Canyon College, as a Christian, liberal arts college, is to offer bachelor's degree programs which emphasize academic excellence in an environment where a Christian perspective is maintained. Working toward this purpose, the board of trustees, the

administration, and the faculty strive to attract capable, ambitious, and moral people who can profit by a college education in this environment and who are motivated by ideals of service in the various fields of human endeavor.

SPECIFIC OBJECTIVES

In an effort to attain the general purpose stated above, Grand Canyon College seeks to provide a liberal education which will enable students to strengthen the spiritual, mental,

social, moral, physical, aesthetic, and professional aspects of their lives by furnishing the opportunity to develop the following qualities:

1. An appreciation of spiritual realities, and of God's concern for the natural universe and its laws, for social institutions, and for each individual's life.
2. A high level of competence in effective analysis, in accurate and constructive thinking, in appropriate evaluation of evidence, in distinction of truth from error, and in creative scholarship.
3. A personal awareness of social values; an experience of courtesy, enjoyment, and poise in association with others; a concern for our American heritage and for human dignity and freedom; and a sense of responsibility toward community service.
4. Habits of clean living, clean speech, temperance, and personal decency; a sense of responsibility for doing high grade, honest work; and a proper regard for the rights and feelings of others.
5. Healthful living practices, physical vigor, and the enjoyment of participation in a variety of recreational activities.
6. A better understanding and appreciation of aesthetic values and of man's efforts toward self-expression in the creative arts.
7. The acquisition of professional skills in preparation for a chosen career.

The curriculum is designed to implement the purpose of the College in developing Christian principles of leadership and thinking

in all phases of man's activities. Emphasis is placed upon the effort to provide a liberal education which supports professional competence.

CHRISTIAN EMPHASIS

Grand Canyon College attempts to provide a Christian atmosphere where spiritual issues are discussed, religious experiences are encouraged, and the relevance of Christianity to our culture is explored. The Christian

emphasis of the College finds expression in both structured and unstructured campus activities.

Structured activities include required attendance at chapel services, courses in Bible required for

graduation, and the activities of the Baptist Student Union, Ministerial Association, and other religiously oriented groups. The chapel provides students with an opportunity to set academic pursuits aside and worship with the entire student body, faculty, and administration. Each year two special weeks of religious emphasis are held, at which time outstanding Christian leaders speak daily to the student body and hold conferences and seminars on problems and topics relevant to young Christians.

In other events sponsored by the College, a strong Christian emphasis is maintained. These provide opportunities for a student to become involved, to express himself, and to be influenced by Christian ideals. An atmosphere of Christian living prevails in the classrooms, in the dormitories, on the athletic field, and

in every college activity. It is evidenced in the College choirs, in sports events, in College sponsored tours, and in spontaneous conversations between students and faculty in classes, at lunch, or at coffee breaks.

Many students coming to Grand Canyon College are confident and clear about their religious faith; others are uncertain, indifferent, or uninformed. The confrontation of these persons with each other stimulates spiritual growth and develops new insights.

Grand Canyon College adds a spiritual thrust to the challenging and academically demanding nature of a high quality college education. The College emphasizes and exemplifies the fact that scholarship and Christianity are not only compatible but complementary in their most significant manifestations.

GOVERNING BODY

The College, owned and operated by Arizona Southern Baptists, is governed by a board of trustees elected by the Arizona Southern Baptist Convention.

The name of Grand Canyon

College shall not be used by any student or any employee of the College in connection with any commercial venture, without the written approval of the President of the College.

FACULTY

The instructional staff is selected with the objectives of the College in mind, emphasis being placed upon character, academic competence, teaching ability, and personality. 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 for their students, and punctuality and dependability in meeting their responsibilities. Evidences of academic competence

include the acquiring of advanced degrees, contributions in their fields of specialization, and professional habits of study and research. Teaching ability is largely judged by what the teacher's students learn about a subject and by their interest and success in pursuing further study. Evidences of personality include exemplary habits, a sense of humor, self-control, humility, friendliness, sympathetic understanding, fair-mindedness, and neatness in appearance.

STUDENTS

The type of students attracted to the College determines the degree of success in achieving the objectives of the College. The students desired are those who have the capacity,

personality, motivation, and background to do acceptable work and who are moved by a desire for service to God and to man.

ACCREDITATION

The College is accredited by North Central Association of Colleges and Schools.

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

Provisional approval for the Bachelor of Science in Nursing degree has been given by the State Board of Nursing in Arizona.

The College is a member of the Association of Southern Baptist Colleges, the Council of Independent Colleges and the Association for Innovation in Higher Education.

The College is approved for Veterans and dependents.

By authorization from the Immigration and Naturalization Service of the Department of Justice, non-immigrant alien students may apply for admission to the College. (See page 56.)

TEACHER EDUCATION

The College offers training for prospective teachers for elementary school and high school. A student teaching program is made possible by contract agreement with various public and private schools in Arizona.

All requirements for an elementary or secondary teaching certificate may be met at Grand Canyon College. The teacher education curriculum is described on pages 94 to 96.

PRE-PROFESSIONAL TRAINING

Pre-law

A student who desires to prepare for a career in law or in another profession requiring a legal education may take his undergraduate pre-law work at Grand Canyon College.

The minimum requirements for admission to law schools vary from three years of college preparation to a college degree. Whenever possible, a course of study should be arranged to fit the particular suggestions and requirements of the law school which the student wishes to attend. In any case, a broad preparation in English, history and government, and economics is recommended. Pre-law students are advised also to complete an elementary course in accounting.

The legal profession is exacting in its standards in regard to intellectual effort, honesty, and maturity. Basic objectives of pre-legal education should include the development of

comprehension and articulate communication, critical understanding of human institutions, and creative power in thinking.

Health Fields

Through the Department of Natural Sciences the College offers courses which meet or exceed the requirements for admission to schools of medicine, dentistry, veterinary medicine, pharmacy, or optometry. Students who plan to enter programs in medical technology, physical therapy or other careers in health science may also complete their preliminary work at the College. Students interested in a career in nursing may obtain a Bachelor of Science in Nursing degree at the College.

Successful applicants to professional schools must maintain a superior academic record and should demonstrate an interest in and knowledge of their chosen fields. In addition to courses in science and mathematics, students should select from a broad range of courses in the humanities and social sciences. The pre-medical advisor can be of assistance in planning academic schedules. A suggested curriculum is described on page 136.

Reserve Officers Training Corps

Through an arrangement with Arizona State University at Tempe, Grand Canyon College has developed a four-year program of ROTC. Students register for the classes at Grand Canyon College and take the courses at Arizona State University or one of the community college campuses. The goal of this professional education is to provide the foundation of military knowledge and skills needed by the junior officers of the military service. Students may take ROTC credit in Army/Military Science or Aerospace Studies.

An advisory office is available to students interested in the Reserve Officers Training Corps. Contact the Department of Military Science at Arizona State University. Assistance in curriculum planning and information on admission in procedures is provided.

COMPUTER CENTER

The College provides academic and administrative computing support using a computer manufactured by Digital Equipment Corporation. The computer supports both batch and timesharing operation, using a variety of high-level languages.

All students have access to the computer through interactive terminals at various locations throughout the campus. The Computer Center also provides periodic tutorials to help students integrate the computer usage into their academic activities.

EVENING CLASSES

Regular college courses are offered during late afternoon and early evening hours. The length of the

class session is adjusted so that the total meeting time for the semester is equivalent to that of a day class.

JANUARY TERM

The January interterm provides an opportunity for students to concentrate on a single area of study during a three-week period.

Two types of courses are offered during January Term. Those with the JT prefix are graded on a credit/non-credit basis. These courses are structured with the intent to expand the liberal arts approach through a curriculum oriented to exploration. This curricular approach is realized through course offerings that promote the opportunity for each individual to experience new places, activities, and ideas that are beyond the scope of the usual degree curriculum. In addition, students may choose to take courses offered for departmental credit which will count toward a major or minor and receive a letter grade.

Convocation, tours, special speakers, and performances are significant features of the interterm.

Students are encouraged to participate in community activities related to their studies, to visit historic sites, and to make use of many other resources for learning not readily accessible in a regular academic schedule.

Three semester hours of credit are given for the January Term. Regular tuition rates are charged plus a \$20 special activities fee. For courses which include tours, additional cost is based upon expenses of the tour. Students may pre-register for the January Term at the beginning of the Fall semester. One January Term is required for each 42 hours earned in residence at Grand Canyon College.

Students not regularly enrolled in Grand Canyon College may register for the January Term at any time during the Fall Semester and may receive a schedule of offerings by writing the Academic Dean.

SUMMER SESSIONS

Two summer sessions of five weeks each are held, offering a selection of courses in each

department. A schedule of courses may be secured by writing to the Academic Dean.

Student Teaching during the Summer Sessions

Student teaching schedules are arranged individually, in advance, by personal interview with the Director of Teacher Education.

College graduates who are admitted to the teacher training program may enroll for six hours of elementary or secondary apprentice teaching during the summer session. *Prerequisites:* all the courses listed for Elementary, Special, or Secondary certificate programs as outlined in the Department of Education, except Student Teaching.

Student teachers who are not enrolled in a regular program at Grand Canyon College must present a letter of

request from the institution sponsoring their certification program. If students are working directly with the State Department of Education for certification, they are to present an official evaluation from the certification office indicating their need of student teaching. All students must complete regular matriculation requirements with the Registrar's Office before entering the teacher education program.

HISTORICAL SKETCH

The first definite steps toward founding Grand Canyon College were taken at the annual session of the Baptist General Convention of Arizona (now the Arizona Southern Baptist Convention) in November, 1946. On March 4, 1947, college trustees who had been selected by the Executive Board of the Convention chose Prescott as the site for the new college and Grand Canyon College as its name. The

College was chartered on August 1, 1949, and began instruction with the Fall semester, 1949.

In September, 1951, the College was moved to Phoenix, and the first permanent buildings were erected on an 80-acre tract on West Camelback Road at Thirty-Third Avenue.

The following men have served as President of the College:

Willis J. Ray, 1949-50
 Leroy Smith, 1950-52
 Frank Sutton (acting president), 1952
 B.O. Herring, 1952-54
 Glenn Eason (acting president), 1954-55
 Loyd R. Simmons, 1955-58
 Glenn Eason (acting president), 1958-59
 Eugene N. Patterson, 1959-65
 Charles L. McKay (acting president), 1965-66
 Arthur K. Tyson, 1966-72
 William R. Hintze, 1973-77
 Dillard Whitis (acting president), 1977-78
 Bill R. Williams, 1978-

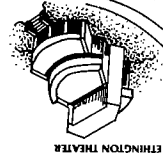
LOCATION

The College is located in the 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 1,508,030 in the metropolitan area. Located near many places of interest, such as the Grand Canyon, the Petrified Forest, Montezuma Castle, Oak Creek

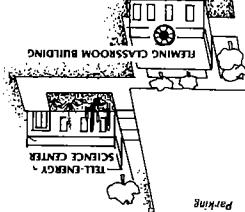
Canyon, Walnut Canyon, and Superstition Mountains, Phoenix is one of the notable winter resorts of America. Phoenix is easily accessible over transcontinental Interstate Highways 10 and 17. Convenient airline connections are available through Sky Harbor International Airport.

Grand Canyon College

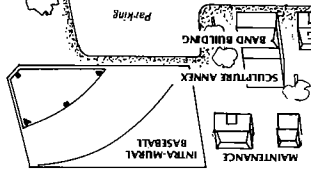
3300 WEST CAMELBACK ROAD
POST OFFICE BOX 11097
PHOENIX, ARIZONA 85061



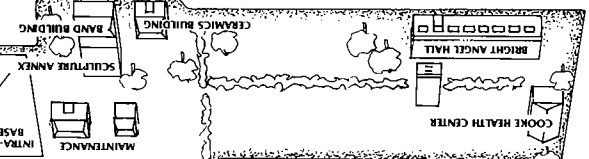
ETHINGTON THEATER



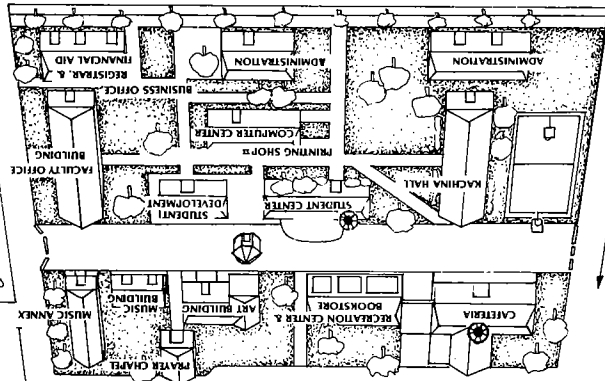
SCIENCE CENTER
FLEMING CLASSROOM BUILDING



INTRA-MURAL BASEBALL
MAINTENANCE
SCULPTURE ANNEX



BRIGHT ANGEL HALL
COOKE HEALTH CENTER
CERAMICS BUILDING
BAND BUILDING



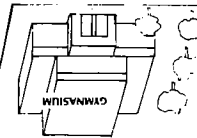
ADMINISTRATION
KACHINA HALL
STUDENT CENTER
PRINTING SHOP
COMPUTER CENTER
BUSINESS OFFICE
REGISTERAR. & FINANCIAL AID
FACULTY OFFICE
STUDENT DEVELOPMENT
ART BUILDING
MUSIC BUILDING
PRAYER CHAPEL
RECREATION CENTER & BOOKSTORE
CAFETERIA



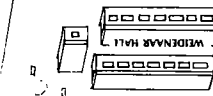
KAIBAB HALL



TENNIS COURTS

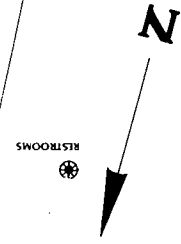


GYMNASIUM



WEIDENAUER HALL

CAMPUS GUIDE



RIS ROOMS

BASE BALL

Camelback Rd.

CAMPUS

The College has 70 acres available for development of its campus. The original buildings were constructed in 1951 of pumice block in a one-story cottage style. They are now used for administrative offices, faculty offices, cafeteria, and auxiliary classrooms and laboratories. The Student Center and pavilion were secured largely through the efforts of students. Grouped around a quadrangle landscaped with flowers and Arizona shrubs and trees, all the buildings afford a view of the mountains surrounding the Valley of the Sun. The campus is comfortable and provides an attractive setting for college living.

A gymnasium and the Fleming Library were constructed in 1957. A dormitory and a health center were completed in 1960.

More than to any other single donor, the College is indebted to the late Dr. William Fleming, together with his widow, Dr. Bessie Fleming, of Fort Worth, Texas, for the funds which have made possible the permanent buildings on the campus. Mr. Fleming was a Christian businessman who was especially interested in Christian education. His concept of his stewardship was in part to use his gifts to challenge others to give. The Flemings gave the Fleming Library outright, when the College was still in its infancy, and later provided funds on a challenge basis to build the health center, the first permanent dormitory wing, and the Fleming Classroom Building.

The Fleming Library, a two-story, red brick building, is arranged so as to provide a desirable atmosphere for study and immediate access to all materials. The library collection contains over 130,000 books and bound periodicals. Approximately 645 magazines and journals are received currently.

In 1979 the library received a donation of 40,000 volumes from the library of the now defunct Prescott College, Prescott, Arizona. This library was a gift of Dr. Robert I. Schattner, Washington, D.C. The collection is strongest in the areas of the social and behavioral sciences and literature and increased the holdings of Fleming Library by one-half.

A classroom building, another dormitory, a student pavilion, an addition to the library, and an extension to the cafeteria were completed in 1963. The bookstore occupied newly-constructed quarters in 1964. A dormitory addition was completed in 1967. The Ethington Memorial Little Theater was completed in 1973. The Tell Energy-Science Building was completed in 1977.

Easily accessible from a mall near the center of the campus are a cafeteria, game room, and bookstore; also a student center for lounging and snacks.

All buildings are cooled in the summer, most of them by refrigeration.

The Fleming Library

Library of Recordings

There are approximately 3,100 albums of recordings in Fleming Library. Approximately 715 albums of classical recordings, were a gift to the library by an Arizona cowboy, Chet Brantner of Mohave County, who collected them over a period of more than 25 years.

Another portion of the recordings collection, approximately 1,180 albums, was given by Bud Glaze, a Phoenix businessman.

The remaining portion of the recordings collection was acquired by purchases and individual gifts.

A listening station is provided in the library for the enjoyment of students.

Athletic Facilities

Antelope gymnasium is the home court of the 1975 and 1978 NAIA basketball champions. With a seating capacity of approximately 1,000, the gym also provides facilities for the women's volleyball team, intramural sports and physical education classes. It contains locker and shower facilities and equipment rooms for men and women, as well as office space and classrooms.

The varsity baseball team, NAIA National Champions in 1980 and 1981, plays on Brazell Field. Recent renovations include a new electronic scoreboard and a lighting system for night games.

In 1978 the Youngker family of Buckeye gave the six-court Youngker Tennis Center, in memory of young Steven, who lost his life in military service. His brother and sister are graduates of the College.

Dormitories

Bright Angel Hall, named for Bright Angel Creek at the bottom of the Grand Canyon, was completed in 1960. It houses 60 women in a two-story, fireproof brick building with large and well-furnished rooms.

Kachina Hall houses 28 additional women.

East Kaibab Hall, named for Kaibab Forest, was completed in 1963. An addition, Kaibab West, was completed in 1967. The combined facility is comparable to Bright Angel Hall and has a total capacity of 118 men students.

The Weidenaar Dormitory was completed in 1981. This modernly furnished, three unit, modular construction houses 60 women. Another modular unit was built behind Bright Angel Hall, which houses 32 women. Funds for construction of these facilities were made possible through a lease-back arrangement with Mr. and Mrs. Conrad Veen. The Weidenaar name is in honor of Mrs. Veen's parents.

The alumni association of the College sponsored the raising of funds for the health center, erected in 1960. It is named in honor of a former College physician. The building contains a doctor's office, two treatment rooms, a nurse's office, and a reception room. It is adequately equipped to care for the most common medical needs of students and faculty members.

**Charles M. Cook
Health Center**

The Fleming Building, completed in 1963, contains eight classrooms and five offices for faculty members.

**Fleming
Classroom
Building**

The Ethington Memorial Little Theater, with a seating capacity of 333, was completed in 1973. It was given by Peter and Anna Ethington.

**Ethington
Memorial
Little Theater**

This building serves as a small auditorium for lectures, plays, concerts, and recitals.

**Tell
Energy-Science
Building**

The Tell Energy-Science Building was completed in 1977. Initial funds for construction of this very modern and complete facility were furnished through the generosity of Mr. and Mrs. Andrew P. Tell and the Tell Foundation of Phoenix. The building is completely equipped for laboratories in biology, chemistry, physics, and environmental science.

COLLEGE PUBLICATIONS

Class Bulletins are published for the Fall and Spring semesters, January Term, and Summer School.

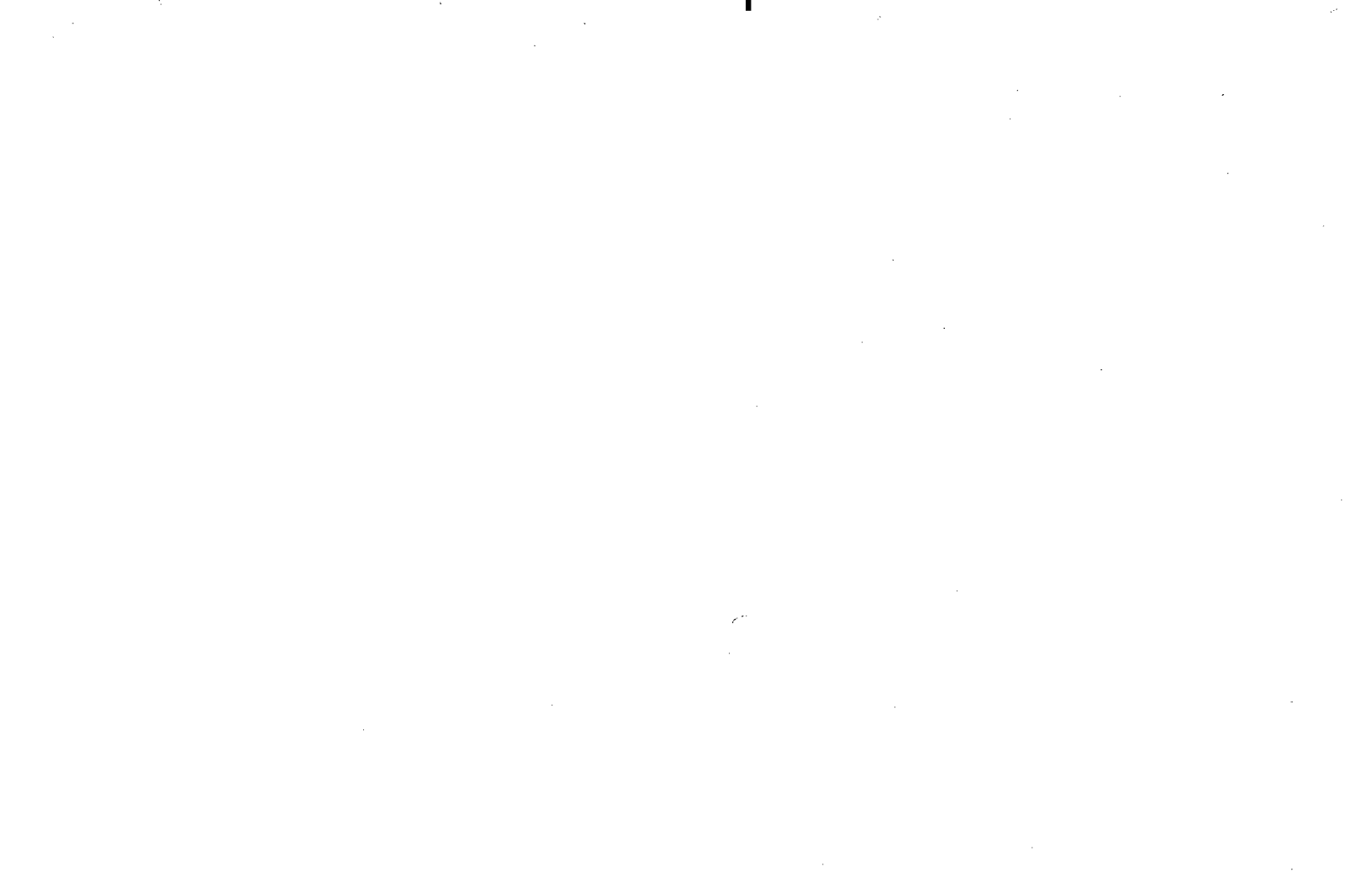
Canyon Highways is published by the College for the purpose of presenting the activities of alumni,

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 College.

ALUMNI ASSOCIATION

The Alumni Association of Grand Canyon College 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 12 semester hours in residence. Only graduates may hold elective offices.



II. FINANCIAL INFORMATION

Student Expenses
Tuition, Housing and Basic Fees
Special Charges
Student Insurance
Miscellaneous Fees
Special Class Fees
Student Insurance
Room and Board
Refunds
Financial Aid and Employment
Placement Services
Ministerial Grants
Student Loans
Scholarships and Tuition Grants
Tribute Fund



STUDENT EXPENSES

The regular school year is composed of a Fall semester, a January term, and a Spring semester. Summer school sessions are composed of two terms of five weeks each. The student may pre-register for January term as part of the Fall semester enrollment.

The expenses of a student are due and payable at the beginning of each semester or term and must be paid, or satisfactory arrangements concerning them made with the Business Office, before the student's

registration is official. It is recommended that application for financial aid be made at least two months in advance of need. The College will honor VISA and MasterCard charges.

Students may not receive grade reports or transcripts until satisfactory arrangements have been made to clear accounts in the Business Office.

The Board of Trustees reserves the right to change all fees and charges, without notice, if necessary.

TUITION, HOUSING, AND BASIC FEES**Academic Year,
Including
Evening School**

✓ Tuition, per semester hour	\$ 71.00
✓ Audit fee, per semester hour (Scholarships do not apply) .	71.00
✓ General fee, 9 hours or more, per semester	50.00
✓ General fee (includes parking), less than 9 hours, per semester hour	3.00
✓ Parking fee, 9 hours or more per semester September 1 through August 31	20.00
✓ February 1 through August 31	10.00
Room (2 persons to a room) Fall semester and January term	415.00
January term only	80.00
Spring semester	335.00
Extra for private room in dorm if available	60.00
For 3 persons to a room a 15% discount is given	

Board

Fall semester (approximately)	650.00
Spring semester (approximately)	650.00
January Term (approximately)	100.00

Tuition and all fees, per semester hour

\$ 35.00

**Center For
Biblical Studies****Summer School**

✓ Tuition, per semester hour (Scholarships do not apply) .	\$ 71.00
✓ Audit fee, per semester hour (Scholarships do not apply) .	71.00
✓ General fee, per 5-week term	5.00
✓ Parking fee, June 1 through August 31	5.00
Room, per term	110.00
Board (approximately)	200.00
Room, per week	25.00

SPECIAL CHARGES

Application fee (non-refundable)	\$ 15.00
This one-time fee must be paid before the Registrar's Office will set up a file for a student.	
Reservation deposit for dormitory room	40.00
(Refundable when the student moves out of the dormitory permanently.) Should the student not enroll, this deposit may be refunded if the intention not to enroll is made known to the College by August 1 for the Fall semester or by January 1 for the Spring semester.	
Breakage deposit	10.00
This deposit applies to all students taking nine hours or more and remains in effect as long as the student plans to continue his studies. It is subject to charge for property loss or damage; breakage or violation of rules in any laboratory, classroom, or the library; for loss of keys; and for other miscellaneous charges. Each semester the student must restore the breakage deposit to the \$10.00 balance if a charge has been made against the deposit during the previous semester. Upon completion or termination of the student's course of study, written application may be made for refund.	

MISCELLANEOUS FEES:

Late entrance examination fee	\$ 5.00
Late registration fee	15.00
(This fee will be added to the financial record card when a student registers after the regular registration dates as set by the College.)	
Temporary registration permit fee	5.00
(This fee is charged by the Registrar's Office for not filing all records before registration period begins.)	
Course changes after close of regular registration	10.00
Interest charges on unpaid balance at Business Office, per month	1½%
Late examination fee (for any major exam)	5.00
Special examination, per semester hour or credit equivalent	12.50
Typing proficiency test	10.00
Graduation fee	25.00
Transcript of credits, except the first	1.00
Dormitory dues, per semester	2.00
Post office box rental, per semester	2.00
Registration of second car	2.00
Student Identification	2.00
Returned checks, per check	10.00
Student Insurance (Sickness and accident, per semester (approximately)	57.50
(See page 25)	
Placement fee (paid during the term of student teaching or upon request for service of the Placement Office; includes 10 brochures)	15.00
Reinstated Placement fee (to update a placement file after 12 months; includes 3 brochures)	10.00
Additional Placement Brochure, each	2.00

SPECIAL CLASS FEES

Independent Study (includes Reading & Conference courses, Practicums) . \$ 20.00
 January Term 20.00

Art

AR 183 Art Media/Methods 20.00
 AR 213/313 Crafts 20.00
 AR 223/323 Printmaking 20.00
 AR 253/353 Jewelry 20.00
 AR 263/363 Ceramics 20.00
 AR 273/373 Sculpture 20.00
 DGN 253 Design 20.00
 AR 243 Photography I 25.00
 AR 343 Photography II 30.00
 AR 481 Studio Problems/Techniques 20.00

Education

EDU 103/113 Reading Skills for Success in College .. \$ 20.00
 EED 326/SED 326 Student Teaching (per semester hour) 10.00
 EED 328/SED 328 Student Teaching (per semester hour) 10.00
 EDU 363 Audiovisual Materials & Methods 25.00
 Student Teaching within 25-50 miles 50.00
 Student Teaching outside of Maricopa County 100.00

Music Department

MAP All Private Lessons (per semester hour) \$ 90.00
 MUS All Class Lessons 25.00
 MAP/PAR 390 Junior Recital 20.00
 MAP/PAR 490 Senior Recital (B.A.) (full) 30.00
 MAP 400 Senior Recital (B.S.) (short) 20.00
 MED 232/241/251/262 Instrument Classes 15.00
 MUS 219 Opera Workshop 35.00

Physical Education Department

PE 101 Swimming \$ 12.00
 PE 201 Bowling 15.00
 DR 303 Driver Education 20.00

Natural Science and

Science Lab Fee (for each lab course) \$ 20.00
 SCI 114 Science Concepts 35.00

Mathematics

EVS 312 Environmental Science Field Study 25.00
 MAT 313 Set Theory and Symbolic Logic 20.00
 CS 301 Microprocessor Workshop 20.00
 CS 480 Readings and Current Literature 20.00

STUDENT INSURANCE

A group plan for accident and sickness insurance for Grand Canyon College students is available and provides for payment of medical and hospital charges according to a schedule which is furnished each student planning to attend the College. All students living in the dormitory must have this or comparable insurance, and commuting students are encouraged to carry such insurance. All international

students are required to carry medical and hospitalization insurance. The College cannot issue this insurance later than the last day of registration for credit. (See Academic Calendar, pages 6 and 7.)

Coverage becomes effective at 12:01 a.m. on September 1, or as soon thereafter as application for it is received. For students taking insurance in the fall only, coverage

continues through the Fall semester. For students taking the insurance for the Fall and Spring semesters, insurance continues until 12 midnight on August 31. Protection is in effect during all interim vacation periods and the student is covered at home, at school, and while traveling,

24 hours a day. Family coverage may be purchased directly from the agent.

All students living in the dormitory will be charged for student insurance on the day they register, unless they provide information as to their own carrier and policy number.

ROOM AND BOARD

Linens, towels, blankets, and pillows are furnished by the student.

The schedule of charges for regular semesters and terms begins on page 22. For holidays and guests, these provisions are made: Room rent is charged at the rate of \$5 per day for students who stay in the dormitories when school is not officially in session (during Christmas holidays and Spring recess, between close of Spring semester and opening of the first Summer term, and between end of the Summer

term and opening of the Fall semester). For one guest, the charge is \$7.50 per night; for two people in the guest room, \$10 per night.

A student is charged for his board at the time he registers. The cafeteria is closed during Thanksgiving, Christmas, and Spring holidays.

Individual meals may be purchased for cash at moderate cost at the cafeteria or student center by commuting students, members of the College staff, and guests.

REFUNDS

If a student is forced to withdraw from school because of sickness or other unavoidable cause approved by the administration, his expenses are

refundable, upon application for refund, according to the schedule below.

APPLICATION FOR REFUND

In order to secure a refund, the student must make official withdrawal at the time he is leaving school. Proper forms for withdrawal may be obtained from the Registrar's Office. Refunds are not made until the Registrar's Office gives the Business Office an official notice of withdrawal.

student withdrawing from school is \$10 regardless of whether the student has attended classes. Minimum charge for withdrawing from Evening School is \$5.

Refunds are determined by the date the student files a completed withdrawal form with the Business Office.

All refunds due a student are forfeited unless called for on or before June 30 of the college year for which such refunds are made. Should June 30 fall on Sunday or on a day when the Business Office is not open, the refund is obtainable on the next

REFUND SCHEDULE**Fall and/or Spring Semester and Evening School refunds**

Tuition	Registration without attendance (minimum charge) ... \$ 10.00
	During first week of classes (minimum charge) 25.00
	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
Fees	Fees are not refundable after the first week of classes.
Room	Minimum dormitory rental charge \$ 50.00
	Residence between two and three weeks 60% of charge
	Residence between three and four weeks 40% of charge
	Residence between four and five weeks 20% of charge
	After five weeks No refund
	No refunds given without proper dorm checkout form.
Board	Based on amount of coupons returned upon withdrawal.

January Term refunds

Tuition	Full refund of tuition & fees until January 1.
	January, first week only 40% of total tuition
	January, after first week No refund
Room	Minimum charge-January withdrawal \$ 40.00
Board	Maximum of \$100 in returned coupons upon withdrawal before January 1. No refunds for off-campus courses or tours other than 10% up to \$25 maximum of returned coupons.

Summer School Refunds

Tuition	Registration without attendance—minimum charge ... \$ 10.00
	Attendance 1-3 days 75% of tuition
	Attendance 4-5 days 50% of tuition
	Attendance 6-7 days 25% of tuition
	After 7 days No refund
Fees	Fees are not refundable after the first week.
Room	Residence 1-3 class days 75% of charge
	Residence 4-5 class days 50% of charge
	Residence 6-7 class days 25% of charge
	After 7 days No refund
Board	No refund is given without a proper dorm checkout form.
	Based on amount of coupons returned upon withdrawal. The day of withdrawal is charged as one full day.

FINANCIAL AID AND EMPLOYMENT

Students who need any kind of financial aid should apply at least two months before the assistance will be needed. Those who apply before March 15 for the coming school year will be given preference.

Students who will receive financial assistance must submit the ACT

Family Financial Statement. This form may be procured from the financial aid office of Grand Canyon College or from high school counselors.

All applications and correspondence regarding on-campus employment, loans, grants, grants-in-aid, or scholarships should be addressed to Director of Financial Aid.

PART-TIME EMPLOYMENT AND WORK STUDY

Every effort is made to assist a student in obtaining part-time employment. Under ordinary circumstances, a student who plans to work should have enough money in advance for the first semester.

Numerous jobs are available for both men and women students. Campus jobs include the following: secretaries, switchboard operators, custodians, cafeteria helpers,

laboratory assistants, lawn maintenance workers, building maintenance personnel, library assistants, accompanists for the Music Department, and dormitory assistants. Grand Canyon College is participating in the Work-Study Program. Persons interested in such employment should communicate with the Director of Financial Aid.

PLACEMENT SERVICES

In addition to campus employment, a variety of off-campus jobs are available. The Placement Office offers its services in finding these jobs to any student enrolled in Grand Canyon College. There is no fee for registering for part-time off-campus employment.

The Placement Office maintained by the College also serves graduates or former students who have completed a minimum of 12 hours for credit at the College. Every effort is made to aid students, graduates, and former students in achieving their career goals.

All correspondence should be addressed to the Director of

Placement Services. There is a \$15 fee for compiling an initial placement file, and a \$10 reinstatement fee for updating an existing file after 12 months to keep it active.

Services of the Placement Office include providing information concerning techniques of searching for jobs, processing applicant and employer requests, posting job vacancies on campus bulletin boards, providing placement brochures for prospective employers, providing information about prospective employers, and making personal contact with the applicant and the prospective employer.

MINISTERIAL GRANTS

Grant Provisions. The source of these grants is the Cooperative Program of the Arizona Southern Baptist Convention (ASBC). The maximum grant per student is \$2,000, except pastors. The formula for grant distribution is 35% of the tuition fee, except pastors, whose

grant is 100%. (The students who are pastors must be pastoring a Southern Baptist Church within the first half of the semester to be eligible. There is no penalty for changing pastorates.)

Recipients. 1) Mission Volunteers —Students who are training for work

under the direction of the Home Mission Board or Foreign Mission Board. 2) Students training for the preaching ministry. 3) All others shall apply to and be interviewed by the Review Committee of Denominational Cooperation Committee of the ASBC.

Qualifications (Home Church Endorsement). Student must have made a public commitment of his call to the ministry in his local home church in which he holds membership upon entering Grand Canyon College (GCC).

The local home church in business session shall *hear* a public reading of these rules regulating Ministerial Grants and vote to endorse the student recipient. The Letter of Endorsement of the church's action shall be mailed to Dr. Jack Johnson, 400 West Camelback, Phoenix 85013, before the grant payment will be made.

This church action shall be taken annually.

Qualifications (Church membership status while attending GCC). Arizona students must be affiliated with and be active in a local Southern Baptist church while attending Grand Canyon College, and be willing to submit a quarterly report signed by their local pastor.

Out-of-state students are eligible for the grant under the same provisions described above.

Requirements. Student agrees to sign promissory note stating he will repay the grant which becomes a loan if he does not continue in the preaching ministry or missions (home or foreign) at least five years following departure from college and/or seminary.

Student must complete a questionnaire every time he applies for a grant.

Student grants must be applied toward tuition only at Grand Canyon College.

If student shows loss of interest in his chosen vocation (preaching or missions), he may be called upon by the Review Committee to give a report of his activities and intentions.

Students receiving grants must complete REL 113 early in their academic career at GCC.

Students receiving grants must hold membership in the Grand Canyon College Ministerial Association.

a) Enforcement of this regulation will be carried out by the Association officers.

b) They shall report non-compliance to the Executive Office of the ASBC.

c) Failure to comply with this requirement may result in termination of grant the following semester.

d) Exemptions for attendance requirement will be on the same basis as established guidelines for exemption from chapel.

Responsibilities of the ASBC.

The teacher of REL 113 shall give continuous guidance to all grant recipients.

The Denominational Cooperation Committee of the Executive Board of the ASBC shall have the responsibility of establishing procedures for the Ministerial Grant. a) A Review Committee shall work with the teacher in screening and supervising grant recipients. b) The Review Committee will be appointed by the Denominational Cooperation Committee.

STUDENT LOANS—LONG TERM

All College loans exceeding \$100 may require a co-signer, regardless of whether the student is 19 years of age. National Direct Student Loans and Federally Insured Loans do not require a co-signer.

National Direct Student Loans.

An eligible student may borrow up to the current limit as determined by federal regulations, subject to availability of funds. To qualify, a student must meet federal guidelines. Repayment need not begin until six months after the student leaves college. Interest, at (5) five percent per year, begins at the time the repayment period starts. In certain cases, part or all of the loan principal and interest may be cancelled.

Guaranteed Student Loans.

The guaranteed student loan

program is a program whereby loans are made by lending agencies in certain states, with the loan guaranteed by the federal and state agencies. Students may apply for this loan if they are making satisfactory progress toward graduation or are admitted to college. The student may qualify for up to \$2500 if the financial aid being received by the student does not exceed school expenses. Repayment begins (6) six months after the student ceases to be at least a half-time student and is made to the lending agency which made the loan. The current interest rate of (9) nine percent begins at the time the repayment period starts. The student must submit a needs analysis if the family income exceeds \$30,000 to determine eligibility.

SHORT TERM LOANS

Numerous loan funds administered by the College Business Office are available. A student may be permitted to make a note payable to the College. All College loans exceeding \$100 may require a co-signer, regardless of whether the student has reached the age of 19.

Adair Loan Fund.

This fund, made available by Mr. and Mrs. Oliver Adair, is restricted to *freshman* men or women with grade averages of "C" or above. Interest is 6% per annum after the borrower terminates connection with Grand Canyon College.

Anonymous Loan Fund.

An anonymous contributor established a fund for loans to be made to *ministerial* students in need. Interest is 6% per annum from the date of the loan.

AWARE Loan Fund. The applicant must be enrolled in a minimum of 12 hours in day or evening school and regularly attending classes, must establish need for the loan, and must be a member of the campus chapter of Adult Women's Active Return to Education (AWARE).

Lt. Stephen A. Beck Student Loan Fund. This fund, provided by Dr. and Mrs. Roland L. Beck, is available to *senior* students who have maintained at least a "C" average each semester while attending Grand Canyon College. Interest is 3% per annum from the date of the loan.

Orvilla Briscoe Memorial Student Loan Fund. This fund, made available by Mr. and Mrs. B.D. Gladden, is for *junior* or *senior ministerial* students with at least a

"C" average in their work. The student may borrow up to \$250 per semester. The loan may be repaid starting four months after one ceases to be a full-time student at Grand Canyon College. At this same time interest at 6% per annum begins. After payments begin, the borrower has 36 months to pay off the loan.

Austin Boyle Memorial Loan Fund. The family and friends of Mr. Austin Boyle have established this fund to assist students as determined by the current policies.

The Katherine Brooks Loan Fund. This fund was established by Mr. and Mrs. Troy E. Brooks. Its purpose is to assist worthy young *ladies in the junior or senior* classes who need help financially to enable them to complete their college work. Interest is 6% per annum from the date of the loan.

J.W. Caperton Foundation Student Loan Fund. This fund was made available by Mr. J.W. Caperton for *ministerial* students. Interest is 4% per annum.

Peter H. Ethington Memorial Student Loan Fund. This fund, provided by members of the Ethington family, is available to *all students*. Interest is 6% per annum from the date of the loan.

First Baptist Church, Ajo, Arizona, Student Loan Fund. This fund is available for students who have completed one year of training at Grand Canyon College and who are preparing for *full-time Christian service*. The loan may be repaid starting one year after the loan is made. The first year of the loan is interest free. After the first year the note will bear 6% interest per annum.

First Southern Baptist Church, Avondale, Arizona, Student Loan Fund. This fund is available for *all students* with a preference to those

from Avondale and Estrella Association.

Bessie Fleming Student Loan Fund. This fund, provided by Dr. and Mrs. William Fleming, is available to *all students*. Interest is 6% per annum from the date of the loan.

Barbara Sandra Getz Memorial Loan Fund. This fund, provided by Mr. and Mrs. Charles Getz, is available to worthy and needy students who have demonstrated proficiency and seriousness of purpose. Interest is 6% per annum from the date of the loan.

The Franklin P. & Eileen Hart Loan Fund. This fund established by Mr. and Mrs. Franklin Hart for *all students* with exceptional financial needs.

Inez Humphrey Memorial Loan Fund. This fund provided by members of the Humphrey family. This fund is available for *all students* with preference to those from First Baptist Church, Yuma, Arizona.

Navajo Loan Fund. Mr. Leo Berndt provided this fund for the education of worthy *Navajo Indians* or other students when it is not needed for Navajo students. Interest is 5% per annum from the date of the loan.

Murray B. Parsons Student Loan Fund. This loan fund was made available through the estate of Murray B. Parsons. The loan is available to worthy and needy students who have demonstrated proficiency and seriousness of purpose. Interest is 6% per annum from the date of the loan.

Student Loan Fund. A small revolving fund made available by members of the faculty for emergency needs is open to any approved student for a maximum of \$25. No interest is charged if the loan is paid by maturity.

L.B. and Mabel Vaughn Student Loan Fund.

This fund was established by Mr. and Mrs. L. B. Vaughn to make funds available for worthy *students* or for *prospective students* of Grand Canyon College. Interest is 3% per annum from the date of the loan.

Wiley and Mary Trust Loan Fund.

This fund, made available by Mrs. Vernon Miller Burrow in memory of Wiley Newton Kelly and Mary Jane Lancaster Kelly, parents of the donor, is available to any student in need of a loan. There is a \$.25 service fee for this loan. The amount of the loan cannot exceed \$25.

SCHOLARSHIPS, GRANTS, AND GRANTS-IN-AID

Scholarships and grants-in-aid are available for the regular school year for full-time students, but not for the Summer terms, for a maximum of eight semesters.

A student who receives the scholarship, grant or grant-in-aid, then drops courses to reduce the total enrollment to below 12 hours (including complete withdrawal), shall repay the award before enrolling the next semester.

Grade average requirements for all scholarships and grants-in-aid are monitored by the Financial Aid Committee.

No renewals are automatic. Applications for all scholarships and all kinds of grants, including renewals, *must be filed* with the Director of Financial Aid by March 15 for the coming academic year (September to May).

Students on probation are not granted scholarships **or any type of grant** from the college except that a freshman admitted from the third quartile may, under certain circumstances, be given special consideration. (Subject to amendment relative to athletes.)

Academic Scholarships

Academic scholarships for \$1000 per year are available in limited number to freshmen during the year following high school graduation,

provided they ranked in the upper 10% of their classes in high school. Students with composite ACT percentile of 95 or higher for college bound students, or top ranking finalists in the National Merit Scholarship program, may also qualify. These scholarships are renewable for the full four years of college, provided a "B" average is maintained, renewal application is filed, and provided the student's record in other respects is acceptable.

Student honor scholarships in the amount of \$700 per year tuition are available to students who transfer from other colleges with an overall GPA of 3.50 ("B+") for a minimum of 24 hours. These may be renewed with a proper application and they apply to continuing Grand Canyon College students who achieve the cumulative GPA of 3.50.

Department Fellows

Qualified students are selected to serve as teachers' fellows in the various departments, each full-time member of the teaching faculty being entitled to one such fellow. Nominations are made by the chairman of the department in conference with the teaching personnel.

In order to qualify, a student must be at least a junior and be majoring

(in some cases, minoring) in the department in which he serves. He must have at least a 3.00 average in the department as well as in all his college work.

The stipend is \$50 per semester.

Special Abilities Scholarships

Application for special abilities scholarships are made to the instructor or faculty director of the activity.

Art, Drama, Speech. Special talent scholarships in amounts up to \$900 per year are offered to qualified students. Recipients are expected to use their abilities in projects sponsored by the College.

Music. Music scholarships, ranging up to \$900 may be awarded each school year. Recipients of such scholarships are expected to participate in musical performances at the direction of the College.

Grants-in-aid

A limited number of basketball, baseball, golf, tennis, and volleyball grants-in-aid are made up to the amount of full tuition, depending upon availability of funds.

Students who wish to apply for these will see or write to the instructor or faculty director of the activity.

ROTC Scholarships

Four-, three-, and two-year Air Force and Army ROTC scholarships are available to Grand Canyon College students. Each scholarship provides full tuition, laboratory and incidental fees, and full reimbursement for curriculum-required textbooks. In addition students receive a nontaxable \$100 allowance each month during the school year while on scholarship status. All students not on ROTC scholarship but enrolled in the last two years of

ROTC also receive the \$100 allowance. For information contact the Air Force or Army ROTC detachments at Arizona State University.

Endowed Scholarships

Unless otherwise stipulated, the basic academic requirement for any of these scholarships is a "C" average.

Ernest I. and Eurice Bass Scholarship Fund. Grand Canyon College receives income from a trust established by Ernest I. and Eurice M. Bass to be used to provide scholarships in the donors' names for such worthy students, preferably those in need of financial assistance, as shall be selected by the trustees of the College.

The Betty Wallace Beamer Memorial Fund was established by Mr. and Mrs. Edward D. Wallace. Earnings from the investments are awarded to a *sophomore or upper division student* who has demonstrated good scholarship and citizenship and has a concentration in humanities with a major interest in art.

The Henry and Dollie Brice Memorial Scholarship Fund was made available by Mr. and Mrs. Guy Stoker of Snyder, Texas, in memory of Mrs. Stoker's parents. The Scholarship, administered by the Financial Aid Committee, is awarded on the basis of student need and eligibility.

Vera Butler Scholarship. This endowed scholarship fund has been established by gifts honoring Dr. Vera Butler, former professor at Grand Canyon College. Earnings from investments are awarded to *women* elementary education majors entering their *senior* year at Grand Canyon College who have demonstrated good scholarship and

excellent character and citizenship and who show promise of doing effective teaching in the elementary grades.

The James E. Carroll Memorial Scholarship was established with funds contributed in memory of the late Reverend Mr. Carroll who was Vice President for Student Affairs at the time of his death in 1971.

The Cook/Bishop Memorial Presidential Grant is an endowed scholarship provided by Truman Cook and Eula Bishop Cook in memory of their mothers. The grant is administered by the financial aid committee to students on the basis of need and eligibility.

The G.D. Crow Memorial Scholarship was established by Mrs. Hilton Jones Crow, family and friends in memory of this faithful Christian layman of Tucson. This endowed fund provides an annual award to a qualified *speech major*, upon recommendation of the Financial Aid Committee.

The Keith and Mary Sue Davis Scholarship is available to qualified students who are emphasizing in their academic program some area of business or business administration.

The David H. Eaton Scholarship is an endowed fund provided by family and friends of Mr. Eaton, a Christian churchman and businessman. The scholarship is to be awarded to students who are interested in serving in a leadership capacity in an evangelical Christian church.

The Ernest E. and Linnie Ann Hatcher Memorial Scholarship is an endowed fund provided by Woodrow and Letress Berryhill, son-in-law and daughter of the Hatchers. The scholarship is not restricted by department, and is administered by the Financial Aid Committee

according to need and academic standing.

The Hine Memorial Scholarship is an endowed fund established in memory of George H., Frank B., and O. Hugh Hine by their mother, family and friends. The scholarship is not restricted to any department, and is awarded annually according to academic standing and financial need, upon recommendation of the Financial Aid Committee.

The William R. Hintze Alumni Scholarship Endowment. This endowed scholarship fund was established by the Alumni Association of Grand Canyon College in memory of the late Dr. William R. Hintze, president of Grand Canyon College from April 1973 to November 1977. The Alumni Association adds to the principal annually and the earnings are used by the College to help support its scholarship program. All awards are made through the College Financial Aid Committee.

The William R. Hintze Memorial Presidential Grant. This memorial fund was established by Mrs. Barbara L. Hintze and others in loving memory of Dr. William R. Hintze, president of Grand Canyon College from April 1973 to November 1977. The earnings from this endowment are to be used annually by the President of the College to help a needy student, without restriction as to GPA or major field. At the President's discretion, the fund may be used either for scholarship or for grant-in-aid.

The Tom S. Kent Family Scholarship Fund was contributed by descendants and friends of Tom S. Kent, Sr. a Christian businessman of Grapeland, Texas. Income from this permanently endowed scholarship is to be used to provide scholarships for *business majors* in need of financial assistance.

The McFarland Scholarship has been established by Mr. and Mrs. Ernest W. McFarland. The earnings will be used to benefit needy students, at the discretion of the Financial Aid Committee.

Karl S. Nelson Memorial Scholarship Fund was made available by Mr. & Mrs. E.T. Wells of Sun City, Arizona, in memory of their grandson. The earnings will be used for a *junior or senior student* who meets eligibility requirements of academic achievement and need, who shows future promise of success in his chosen field.

The Lowell B. Parker Ministerial Scholarship Fund. This scholarship fund was initiated by Dr. Joyce Parker, honoring her husband on their 25th wedding anniversary in 1971. The fund is a permanent endowment scholarship for the benefit of *ministerial students* with financial need. Earnings from the endowment are divided equally between two students and are administered by the Financial Aid Committee.

The Carl Paetz Memorial Scholarship is an endowed scholarship provided by the wife and sons of the late Carl Paetz of Muscatine, Iowa, and Scottsdale, Arizona. The award is available to a qualified *business major or minor* of at least *sophomore* status who maintains a 3.0 ("B") average, who is financially needy, who gives evidence of potential for future success, and who gives evidence of commitment to Jesus Christ as personal Savior and Lord. The award is administered by the Financial Aid Committee.

The Joyce Daily Parker ASTD Award. The Joyce Daily Parker ASTD Award was established by the Valley of the Sun Chapter, Inc. of the American Society for Training and Development in honor of Dr. Parker's

having been the 1972 recipient of the Gordon M. Bliss Award. She was also the first woman to receive this prestigious award. The cash award is given annually to the outstanding Training and Development *woman graduate*. Selection is made by the College Training and Development Program Director and the Valley of the Sun/ASTD Scholarship Committee.

The Pickering Scholarship in Psychology is an endowed fund provided by Dr. and Mrs. Robert Pickering of Phoenix. The annual award to an *upperclassman* is based on Christian commitment, academic progress in psychology or the social sciences, and personal characteristics, upon recommendation of the Financial Aid Committee.

The Mack D. and Bonnie Jean Reagan Business Scholarship. This permanently endowed scholarship fund has been established by Mrs. Bonnie Jean Reagan and friends in memory of the late Mack D. Reagan, an outstanding entrepreneur from Carthage, Mississippi. The earnings from this trust will provide scholarships for *business majors* in need of financial assistance who show promise of future success in business. The Scholarships are awarded by the Financial Aid Committee.

The C.J. and Thelma B. Smith Ministerial Scholarship was made available by Mr. and Mrs. C.J. Smith, Sr. Earnings from the fund will be utilized to assist deserving *ministerial students*.

The Jerry D. Smithey Business Scholarship. This permanently endowed scholarship fund was established in 1979 by Mrs. Sarah Elizabeth Smithey and friends to honor Jerry D. Smithey, a Christian

businessman in Tulsa, Oklahoma, for his enterprising business achievements and for his support of Christian work in Arizona. Income from this permanently endowed trust is to provide scholarships for innovative and enterprising students majoring in *business* who have demonstrated good citizenship and are in need of financial assistance. The Scholarships are awarded by the Financial Aid Committee.

The Roy F. and Helena H. Sutton Scholarship Fund was made available by Roy F. and Helena H. Sutton. The fund is a permanent endowment scholarship for the benefit of *ministerial students*. Earnings from the fund are awarded each semester to deserving ministerial students as recommended by the Financial Aid Committee.

Helen Youngs Memorial Fund. The income from an endowment provided by relatives and friends of Helen Youngs is available to a *woman student*. The amount is now approximately \$30 per semester and is awarded by the Financial Aid Committee.

The James E. Carroll Chair of Evangelism in the Center for Biblical Studies has been endowed with funds given in memory of the late Reverend Mr. Carroll, who was Vice President for Student Affairs at the time of his death, in November, 1971. Future gifts to the Carroll Memorial Fund will be added to this endowment.

Grants from Private Businesses and Organizations

The American Society for Training and Development, Sun Valley Chapter, has provided grants for students in the Training and Development program. Applications

for these grants may be obtained at the Financial Aid Office.

The Arizona Portland Cement Company has made available an annual grant for a *business major* who is a continuing student. The grant is awarded by the Financial Aid Committee in compliance with existing college policy for academic scholarships.

Thunderbird Bank Corporation has made grants available to *business majors* with good academic standing.

First Interstate Bank has made grants available to *business majors* with good academic standing.

Tuition Grants

Pell Grants. A grant program financed by the federal government. Special application forms are available from high school counselors or the College Office of Financial Aid. The completed form should be mailed to the address indicated thereon.

Supplemental Economical Opportunity Grants. These government grants are available to students from low income families and need not be repaid. Further information may be obtained from the Director of Financial Aid.

President's Grant. The President of the College may recommend grants up to \$300 per year to qualified students, based on their need and potential.

Indian Student Tuition Grant. *American Indian students* who qualify for admission are granted up to \$200 per school year.

Opdyke Grant. The Opdyke Fund is designated for the education of mountain people and is awarded to worthy students who qualify. Four

such grants in the amount of \$250 (\$125 each semester) are awarded.

Work Grants

The following work grants are available in publications, intramural sports, and dormitory assistants, for the annual stipends designated:

Canyon Trails (yearbook)

Editor.....	\$884.00
Assistant Editor	422.00
Photographer	586.00

Canyon Echoes

(student newspaper)

Editor.....	\$884.00
Assistant Editor	422.00
Photographer	691.00

Intramurals

Male Director	522.50
Female Director	522.50

Dormitory Assistants

5 for women's dormitories	750.00
4 for men's dormitories	750.00

THE TRIBUTE FUND

The Tribute Fund contains numerous memorial funds not large enough to be managed individually. Earnings from these funds are usually applied to the operating budget of the College, except when

specific restrictions have been expressed by the donors. Contributions to this fund have been given in honor of or in memory of loved ones or friends.

III. STUDENT LIFE

Statement of Principles

- Conduct
- Student Dress
- Marriages
- Religious Life
- Chapel Attendance
- Eligibility for Activities
- Organizations
- Student Clubs
- Honors and Special Recognitions
- Student Publications
- Activities
- Physical Education
- Student Services
- Traditional Events



STATEMENT OF PRINCIPLES

The mission of Grand Canyon College is to provide an excellent education in the liberal arts and sciences for qualified students regardless of national origin, race, creed, or religious beliefs. Since Grand Canyon College is a Christian, liberal arts college, it acknowledges a special responsibility in providing students with an opportunity to enjoy balanced and fulfilling experiences in a Christian context.

The faculty, administration, trustees, and students have worked together throughout the history of the College to establish and maintain a harmonious balance in fulfilling the intellectual, spiritual, and social objectives of the College in a viable academic climate. The result has been that students have exhibited a high sense of purpose and exemplary dedication to serving the needs of mankind.

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.

In anticipation of a continuing commitment to the general purpose and specific objectives of Grand Canyon College as stated elsewhere in the catalog and to the spirit of the College which has prevailed since its founding, the student body, the faculty, the administration and staff, and the board of trustees affirm their

Students, faculty, and staff members have spent countless man hours in building such facilities as the gymnasium-auditorium, the student center, the intramural and recreational areas, the bookstore and game room, the library, the parking areas, and campus landscaping. This cooperative endeavor has created a wholesome climate on campus and has maintained warmth, closeness, and unity of fellowship which can best be described as a family relationship.

Students and faculty members likewise experience genuine satisfaction as together they seek to discover and confront truth and as they search for solutions to problems involved in the human predicament. The words of the Alma Mater summarize the attitude and spirit of Grand Canyon College:

dedication to fostering those activities which will aid in fulfilling the special responsibilities and commitments of Grand Canyon College and further pledge themselves to discourage and, if necessary, prohibit activities which might interfere with the fulfillment of the ideas and programs of the College.

CONDUCT

Grand Canyon College attempts to create an atmosphere conducive to the purposes of a liberal arts education in the Christian tradition. All students who enroll in the College

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 College's policies, a person's enrollment at Grand Canyon College assumes that he accepts responsibility for honorable adherence to these standards, both on and off campus, while a student at the College.

Any meeting or other activity provided by students in the name of the College or any department or student organization of the College must have the approval of the Dean of Students.

The administration and faculty must approve any new club or society which is organized. They reserve the right to limit or disband any student organization.

Extracurricular activities which take students away from classes must first be approved by the Academic Dean.

No property belonging to the College or to other students may be altered or removed without special permission. Any loss, damage, or

breakage of school property will be charged to the student responsible for it.

Students are not permitted to have firearms of any nature in their possession on the campus. This applies to non-resident as well as resident students.

Gambling, the drinking of or possession of intoxicating beverages, and the use or possession of any of the narcotic and hallucinogenic drugs is entirely forbidden. Any student who violates these standards, either on or off campus, is subject to dismissal.

The use of tobacco is not permitted on the campus except in one's own living quarters in the dormitory.

Dancing is not permitted on the campus, and college organizations may not sponsor dances.

The use of profanity or vulgarity is forbidden.

When a student does not meet the College's general standards of behavior or comply with its regulations, the College may take disciplinary action. Such action may take the form of a reprimand, restriction of certain privileges, suspension, or final dismissal.

STUDENT DRESS

Students are to accept individual responsibility for appropriate dress. They must demonstrate a mature attitude in their dress and appearance while attending classes or engaging in other academic and extracurricular pursuits about the campus. The student is expected to maintain the same standards of dress and personal grooming which by those ordinarily be maintained by those engaged in other serious pursuits.

clothing that adequately covers the

Students are expected to wear

person and to wear shoes in all public facilities, including public rooms in college dormitories. A faculty member may determine whether a given mode of dress disrupts the academic process in that professor's classroom. The Office of Student Development may determine the appropriate dress for Chapel and other academic and extracurricular pursuits. More formal dress, if announced, may be required for special events or occasions. For

more detailed guidelines on dress, see the Student Handbook.

Obvious violations of these standards, such as failure to wear

clothing that adequately covers the person or to wear shoes in public facilities, may subject the student to corrective action.

MARRIAGES

The College stresses a Christian approach to all areas of life, including marriage and family living. In order that a proper foundation for marriage can be laid, the College believes that an adequate period of pre-marital preparation is necessary. A student

contemplating marriage during his college career is expected to confer with the Dean of Students.

A student who secretly marries while enrolled in Grand Canyon College may be subject to disciplinary action.

RELIGIOUS LIFE

Emphasis is placed not only upon the training of the body and the mind, but also upon the development of moral and religious values. In chapel programs, in classroom discussions, and in every relationship where the occasion arises, it is in accord with the policy of the College that the value of Christian living be upheld. Students are encouraged to join local churches

of their own faiths and to participate regularly.

Various organizations provide opportunities for religious service and participation both on the campus and in the community.

A Spiritual Emphasis Week is conducted each semester. Continuous emphasis upon Christian growth is maintained.

CHAPEL ATTENDANCE

Chapel provides an opportunity for the College community to share together in meaningful spiritual, cultural, and intellectual programs. Chapel meets on Monday and Wednesday at 10:40 a.m. All students taking nine or more hours are required to attend a minimum of twenty chapel programs per semester. When a student becomes

deficient, that is, has not attended enough times to reach the minimum of twenty chapels, (s)he must make up the deficiency by arrangement with the Dean of Students.

Exception to this requirement is made for students enrolled in evening classes only. January Term courses are not included in the 9-hour semester course load.

ELIGIBILITY FOR ACTIVITIES

Any student may participate in extracurricular activities provided by the College except as restricted by regulations established for campus organizations and intercollegiate activities. A student who is on the most recent unsatisfactory grade list, however must secure from the

sponsor of a given activity permission to participate.

Any student entering or reentering provisionally or as a special student is ineligible to hold office in any student organization until his special or provisional status is removed.

ORGANIZATIONS

All student organizations are required to deposit their funds with the College Business Office. The College disburses funds when requested by the sponsor and the president or treasurer of the organization.

The membership of the Associated Students of Grand Canyon College includes all students registered for nine or more semester hours for the current semester. The ASGCC elects six officers who form the Executive Council, and each class elects three senators who function as the legislative branch of the ASGCC. General meetings of the ASGCC are held in addition to weekly meetings of the Senate and the Executive Council. The student court, composed of three appointed justices, completes the organizational structure of the ASGCC.

The ASGCC seeks to provide a means of mediation for any problem that may arise from the Associated Students and to be a nucleus for sponsoring and coordinating campus activities. It promotes faculty-student cooperation, works for campus improvements, and promotes interests which contribute to the development of individuals and of the College.

Classes are organized with officers and committees. They promote various projects throughout the school year.

Each residence hall has a council which cooperates with the director of the hall in formulating and implementing policies affecting the residents.

STUDENT CLUBS

Because Grand Canyon College has a variety of campus organizations, each student is able to find organized activities which are particularly interesting or helpful to him. These clubs and activities may be classified into Departmental and Professional Clubs, Service and Honorary Organizations, and Religious Organizations.

Association for Women's Active Return to Education (A.W.A.R.E.) encourages and assists the return of adult women to higher education.

The Forensics Club endeavors to encourage student participation in all types of public speaking at both the intramural and the intercollegiate level.

Departmental and Professional Clubs

Art Company of GCC promotes interest and enjoyment in art and art education and is open to all interested students.

Custody of Organization Funds

Student Government

International Students Organization provides international students an opportunity to become friends with others who are making cultural, social, and academic adjustments necessary to successful completion of their studies in the

United States. Students are encouraged to share accurate information about their own countries and cultures through monthly meetings, social activities, and campus interaction. Eligible members are those attending on student visas, or other students who have lived or studied abroad for an extended period of time.

The Keyboard Club, made up of piano or organ students, is for the purpose of exchanging ideas and studying toward increased keyboard proficiency. Another purpose is to provide inspiration and fellowship among the keyboard students.

Modern Language Club is open to persons interested in the languages and cultural contributions of other language groups.

Music Educators National Conference (Grand Canyon College Chapter) provides opportunity for professional development for college students of music education. Students participate in State, Division, and National meetings and in local activities of the chapter.

Organ Guild (Grand Canyon College Chapter) provides opportunity for students of organ to learn of the aims and purposes of the American Guild of Organists. It becomes a laboratory for youth to be better prepared to assist in advancing the cause of worthy religious music. All who study organ are eligible for membership.

Phi Beta Lambda seeks to inform the business student of the methods, opportunities, and the challenges of business.

Physical Education Majors Club fosters progress in health education, physical education and recreation education. It seeks to advance the

standards of the profession by cooperating with the State and National Education Association and participating in affairs of the American Association for Health, Physical Education, and Recreation. Membership is open to all physical education majors and to elementary education majors with physical education as a first minor.

Pierian Club is a literary and social club attracting students interested in dramatics and literature. Membership is open to all students majoring or minoring in English.

The President's Forum is composed of the presidents of all campus clubs and organizations. The President of the College serves as honorary chairman. Student presidents interact with the College President in an informational format. In addition, they coordinate yearly campus events and activities.

Resident Life Board coordinates social activities for men's and women's residence halls. It is composed of the elected social chairman of each dorm plus appointed committee members.

Student National Education Association is a nationally affiliated organization for all students who plan to enter the teaching profession.

Women's Recreation Association seeks to provide a varied program of physical and social activities for all women students.

Service and Honor Organizations

Alpha Chi is an honorary scholarship and service fraternity for men and women, designed to promote excellence in academic, campus, and civic affairs. Juniors and Seniors in the top 10% of their classes may qualify for membership on the

basis of their academic records, character, and participation in College affairs.

Alpha Kappa Epsilon functions as a pre-medical society. Its purpose is to encourage excellence in pre-medical scholarship, and to promote cooperation and contacts between health professionals and pre-medical students. Membership is open to students engaged in courses leading to studies in medicine and related fields.

Alpha Psi Omega is a national honorary dramatic fraternity whose purpose is to recognize and reward all phases of student participation in college play production.

Iota Phi is a scholastic and service honorary society for freshman women.

Sigma Sigma Phi is an honor society which recognizes women members of the senior class for outstanding scholarship, service, and leadership.

HONORS AND SPECIAL RECOGNITION

Each year a day is designated for a special assembly and other appropriate activities to recognize the achievements of students who have won distinction in academic pursuits or in student leadership. Ordinarily included in the recognitions are students in one or more of the following categories: Ray-Maben Scholars, students on the Honor Roll and Dean's List, department fellows, junior class marshals, and students named for the current year in Who's Who in American Colleges and Universities.

On appropriate occasions recipients of regional or national awards for excellence in academic, forensic, literary, or cultural affairs are recognized.

Ray-Maben Scholars. This recognition represents the highest scholarship honor awarded by Grand Canyon College. To be eligible, a student must have graduated or must be in the last semester or summer session of the senior year; must have

Religious Organizations

Baptist Student Union provides for edifying Christian fellowship, growth, and service for all students of Grand Canyon College. BSL plans, coordinates, and conducts spiritual activities and service projects on campus and in the community.

Ministerial Association meets once each month for the purpose of discussing problems pertaining to the work of the gospel ministry. It helps the College to become a congenial home for young men who are preparing for the pastorate.

Mission Service Association is composed of students preparing for service either as a home or foreign missionary.

Fellowship of Christian Athletes confronts athletes with the challenge and adventures of following Christ and serving Him while in college.

Honors Day

completed at least 60 hours of work at Grand Canyon College and carried 12 hours or more in a minimum of two semesters; must have a grade point average of 3.80 or higher, and at least a 3.80 grade point average on all college work attempted.

Junior Marshals. Special recognition is given to the two juniors with the highest academic ranking 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.

Graduation with Honors. The requirements for graduation with honors are stated on page 60.

Honor Roll and Dean's List. At the close of each semester, the freshman and sophomore Honor Rolls and the Dean's List are published. Students carrying 12 or more semester hours with a minimum of 8 semester hours of graded courses are considered for these honors.

Freshman students whose grade point average is 3.00 or above qualify for the Freshman Honor Roll.

Sophomore students whose grade point average is 3.25 or above qualify for the Sophomore Honor Roll.

Students whose grade point

average is 3.50 or above qualify for the Dean's List.

Special audit privileges for honor students are described on page 62.

Who's Who Among Students in American Universities and Colleges. This honor recognizes each year a select group of students with outstanding records of campus activities, citizenship, and promise of future success and usefulness in society.

The Pierian Award. The Pierian Club awards, each spring semester, an appropriate gift to the junior or senior English major who has the highest scholastic average for the year. A minimum of a "B" average must be attained by the recipient.

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

STUDENT PUBLICATIONS

The Antelope

The student handbook is published by the Office of Student Development, and the Student Council. It makes available detailed information concerning rules and procedures for approved student activities.

Canyon Echoes

This campus newspaper publication reflects the ideals, achievements, activities, and problems of student life. It offers a vehicle for information and student dialogue.

Canyon Trails Shadows

This is the College yearbook, published by a student staff.

This is a literary journal containing short stories, verse, essays, and critiques contributed by the students of the College.

ACTIVITIES

Educational Tours

A three-day educational tour, which students may take at moderate cost, is arranged for each Fall semester to the northern part of Arizona. The tour includes such points

of interest as the ghost city of Jerome, Oak Creek Canyon, Walnut Canyon Cliff Dwellings, Montezuma Castle, Sunset Crater, Wupatki National Monument, and the Grand Canyon.

During the regular academic year, a program of intramural sports is provided including such activities as volleyball, tennis, badminton, basketball, flag football, and softball.

A recreation center is open during the academic year and summer school which provides computer games, ping pong, pool, and other table sports.

Opportunities for dramatic, radio, and speech participation are available in plays, operas, and intercollegiate forensics and debate.

The Oratorio Society is open to all students without audition. It presents public performances of major choral works.

The Choralaires are selected after audition and constitute the choir which travels widely presenting choral music in concert form.

Quartets, trios, and ensembles provide further opportunities for students to develop musical abilities. Opera workshops offer possibilities for developing the individual voice.

The Wind Ensemble, Jazz Ensemble, Orchestra, and Stage Band present concerts and provide musical entertainment for the campus at various times and add spirit to such events as rallies and home ball games.

PHYSICAL EDUCATION

A physical education program is correlated with the health program of the College. Four semester hours of credit in physical education activity are required for graduation.

The physical education activity courses should be taken during the freshman and sophomore years. Transfer students and others who have postponed such training must take it before graduation.

Grand Canyon College believes in training the body as well as the mind and soul. Perhaps nothing encourages an interest in physical exercise more than college athletics. While it usually happens that those who are on the team are already developed and, therefore, do not need the intercollegiate contests for their own physical growth, most of them were originally aroused to an interest in the development of their bodies by participating in games or by watching the games of others.

Intercollegiate Athletics

In order to be assured that the collegiate teams will be a credit to their institution and that it will be a compliment to a

Intramural Athletics Recreation Center Drama, Radio, and Speech Activities Musical Programs

student to be a member of a team, the College has adopted the following rules:

1. Only students of this institution carrying 12 or more semester hours of work shall be allowed to participate in its intercollegiate or interscholastic contests (see page 40) for eligibility rule).
2. A member of the faculty or staff shall accompany all teams when they are away from the College.
3. All funds shall be deposited in the College Business Office and all checks shall be issued by the Business Office. The President shall approve all contracts or orders involving money.

HOUSING SERVICES

Unmarried students who are not at least 20 years of age, who carry 12 hours or more, are required to live in the dormitory. Exceptions are made for those students who live with their parents, guardians, or close relatives.

The dormitories offer attractive and comfortable housing and are governed by Resident Directors. Each hall is supervised by a Resident Assistant and a council representing all the halls. Students are expected to be quiet and orderly in the dormitory and thoughtful of the rights of others.

Room assignments are made in the order of the date of application and payment of reservation fee. Students are normally housed two to a room. Occasionally it is necessary to assign three students to a room in order to meet housing demands. The interests of the dormitory as a whole, and sometimes the interests of the individual student, may demand that a student change place of residence.

The dormitories are closed during

FOOD SERVICE

The College cafeteria provides well-balanced meals. All residents of the dormitories are required to buy meals through the College food services' meal plans. Other persons may buy meals on an individual basis. The

the Christmas holiday and Spring recess. Any use of the dormitories during these periods must be approved by and is subject to the review of the Office of Student Development.

All students residing in college housing must take meals through the College meal plan.

The women's dormitory is closed at 12 midnight during school nights and at 2 a.m. on weekends. The College does not require men students to be in the dormitory by a particular hour, but suggests that the same hours be observed.

The administration reserves the right to make such regulations as may seem advisable in regard to its responsibility for students who live off the campus and away from their parents.

The minimum course load for a dormitory resident is stated on page 60.

cafeteria is closed during the Thanksgiving, Christmas, and Spring holidays.

Light lunches and refreshments are also available in the Student Center.

HEALTH SERVICE AND HEALTH RECORDS

The College retains the services of a physician on a part-time basis. He is assisted by a graduate nurse employed by the College, who also maintains files on student health certificates and records.

All students entering the College must have the Grand Canyon College Health Certificate completed and returned to the Registrar's Office, before registration.

Any student may be required to receive medical examination at such times and in such manner as the College may deem necessary.

All appointments with the College Physician must be made through the College Nurse. A student who wishes to retain a physician other than the College Physician is at liberty to do so. Every student is personally responsible for all his medical costs except for consultation during the regular campus hours of the College Physician.

An athlete must be approved by the College Physician before being permitted to participate in major sports. Examinations will be repeated

periodically during the time of such participation.

A student with acute contagious illness is not permitted to remain on the campus. Other accommodations must be provided at the student's expense.

A person who has been required to withdraw from school for medical reasons is required to furnish a satisfactory health certificate before being permitted to enter or re-enter.

Any student who withdraws from the College for a period of one year or longer must have a statement from his medical doctor regarding his health if his health record is still on file in the Health Center at Grand Canyon College. If the record is not on file, a new one must be submitted.

Medical and hospitalization insurance is available at a cost of approximately \$60 per semester. All students living in the dormitories must have hospitalization insurance, and commuting students are encouraged to have it (see page 25). All international students are required to carry medical and hospitalization insurance.

COUNSELING SERVICE

The College seeks to provide a counseling and advisement service to the student. In addition, students who need counseling beyond the capacity of the College staff may be referred to

a certified counseling service in the community. The Office of Student Development arranges counseling and referrals.

TUTORING

In an effort to offer academic support to any student attending Grand Canyon College, the services of trained tutors are made available.

The tutors, besides having strong skills in their particular academic disciplines, are also trained in test-

ing techniques, study skills, time management and interpersonal relationship skills.

A fee is charged once a tutor has been assigned—this assures up to two one-hour tutoring sessions per week and shows good faith on the

part of the student. The fee goes into a fund which provides small stipends for the tutors. Arrangements for a tutor may be made through any

PLACEMENT SERVICE

The College maintains a placement office which assists students in securing off-campus employment while in school and positions in the

teacher, advisor, the Office of Student Development or the Program Director.

business and professional community after graduation. See page 27 for further information about this service and fees.

TRADITIONAL EVENTS

All School Welcome Party
 Parents' Weekend
 Harvest Festival
 Tour to Grand Canyon
 Thanksgiving Breakfast
 Dramatic Presentations
 Antelope Stampede
 Christmas Party for International Students
 Oratorio Society Performance
 Spring Banquet
 Music Recitals
 Christian Youth Career Day
 Choralaire's Spring Concert
 Varsity Dinner
 Senior Class Day

Reception for New Students and Faculty
 State B.S.U. Convention
 Founders Day
 Spiritual Emphasis Week
 Friends of the Library Book Reviews
 Hanging of the Green
 Needy Children's Christmas Party
 Choralaire's Christmas Concert
 Homecoming
 Honors Day
 Spring Thing
 Choralaire's Tour
 State B.S.U. Spring Retreat
 Junior-Senior Banquet
 Backpack to Havasu Canyon

IV. ADMISSION POLICIES & PROCEDURES

General Requirements

Academic Eligibility

High School Units Recommended

Early Admission to College

Advanced Placement

Admission of Freshmen

Admission of Transfer Students

Direct Transfer Plan

Readmission

Admission of International Students

Entrance Examinations



GENERAL REQUIREMENTS

The College is coeducational, interracial, and open to qualified students regardless of religious beliefs.

An applicant must be at least 16 years of age.

An applicant must furnish satisfactory evidence of good moral character and, if transferring from

another institution of higher learning, must request an official transcript from each institution previously attended. Applicants may not disregard their records of previous enrollment in any other institution of higher education. Failure to comply may result in dismissal or loss of credit.

ACADEMIC ELIGIBILITY

Graduates from accredited high schools who ranked in the upper half of their graduating class or whose composite ACT or SAT scores are in the upper 50th percentiles for college bound seniors may be admitted to the College as regular students without condition.

High school graduates who ranked in the lower half of their graduating class and whose ACT or SAT scores are below the 50th percentile may apply for admission on probation. (See Academic Probation on page 63.)

Some applicants are accepted as special students and are given assistance to help them develop the skills necessary for effective college work. After they demonstrate ability to

do acceptable college work by completing 12 hours with grades of "C" or better, they will be reclassified as regular students and may count credit already earned toward meeting graduation requirements.

Applicants who are 19 years of age and not high school graduates who give evidence of maturity and ability to do college work, may be accepted as special students on the basis of the G.E.D.

Students admitted under special conditions may be required to modify their program of studies to include special courses. (See Provisional Status on page 63.)

Applicants must supply all records listed under the admission procedures detailed later in this section.

HIGH SCHOOL UNITS RECOMMENDED

It is recommended that entering freshmen present the following minimal high school units:

<i>Subjects</i>	
English	
Mathematics (one unit of algebra)	
Social Studies (one in American history)	
Science (one laboratory course)	
Others	

Units
4
2
2
2
6

EARLY ADMISSION TO COLLEGE

A high school student with an exceptional academic record may

attend Grand Canyon College during the Summer session preceding the

senior year, upon recommendation of the high school principal or counselor. Credit earned during this Summer session may then be validated if the student enrolls at Grand Canyon College for the

Summer or Fall term following graduation from high school, provided the summer courses are not counted toward fulfilling high school requirements.

ADVANCED PLACEMENT

Advanced Placement Examinations. High school graduates who scored 5 or 4 on the Advanced Placement Examinations of the College Entrance Examination Board are given credit for appropriate college courses. Students who scored 3 may be given advanced placement or credit, subject to the approval of the department and of the Academic Dean. Students who score 1 or 2 on the advanced placement tests are considered individually by the departments concerned and the Academic Dean.

not be given to students who have previously earned 64 hours of college credit.

General Examination scores will entitle the student, upon registration at the College, to six hours of credit in each of the five General Examinations: (1) English Composition (610), (2) Humanities (500), (3) Mathematics (500), (4) Natural Sciences (500), (5) Social Sciences - History (500).

Three to eight hours of credit, depending upon the examination used, may be earned by scores of 50 or better on Subject Matter Examinations.

A maximum of 30 semester hours of credit by examination, extension, and correspondence may be applied toward a degree. The College does not recognize credits earned by testing after a student has earned 64 hours of college credit.

College Level Examination Program (CLEP).

Grand Canyon College accepts for college credit both the General and Subject Matter Examinations of the College Level Examination Program. CLEP credit will be given only when it does not duplicate credit previously earned, or is for a course more elementary than one for which the student has earned college credit. Credit will be given only for those examinations completed after July 1965. Credit will

Those interested should secure further information from the Academic Dean.

ADMISSION OF FRESHMEN

Applications for admission for the Fall semester should be on file in the Registrar's Office prior to August 1. For the Spring semester the application should be on file prior to January 1, and for the Summer, prior to May 1.

Applicants may secure sets of

high school) or from the Office of Admissions at Grand Canyon College and should follow the procedures given. Notice of acceptance may be given upon receipt of the admissions application, the application fee, and either a seven-semester high school transcript or the ACT or SAT score report.

admissions forms, including detailed instructions, from their high school guidance counseling office (Arizona

Applicants who wish to live in campus housing should contact the

Campus Housing Office to obtain application and related information regarding regulations. (See page 46 for additional information.)

Financial Aids Office to obtain applications and related information. (See page 26 for additional information.)

Applicants who wish to apply for financial aids should contact the

In order to complete their admissions file, applicants must submit all of the following:

1. An application for admission along with a \$15 non-refundable application fee.
2. Score report for either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). These examinations are offered on a regular basis throughout the country and in several locations overseas. The test should be taken as early as possible during or after completion of the junior year in high school. Only those score reports received directly from the testing agency will be accepted. The Grand Canyon College code number for the ACT is 0092. The code for SAT is 4331.

Detailed information for ACT and SAT programs may be secured from the applicant's high school guidance counseling office or from the Registrar's Office at Grand Canyon College.

Applicants entering with a G.E.D. and who have not been in high school for 5 years or more need not supply test scores.

3. A final high school transcript sent directly from the high school. Transcripts carried or mailed by the applicant are not acceptable. The transcript must show the date of graduation and the final numerical rank in class.

4. A student medical history (Part I of the Student Health Record). This must be submitted by all applicants. Those applicants who intend to live in campus housing must also submit the physician's statement (Part II of the Student Health Record) which must be completed and signed by a physician and dated less than six months prior to the date of first enrollment.

Final dormitory room assignments will be made when all credentials,

including health record and physician's statement, are received.

ADMISSION OF TRANSFER STUDENTS

A student transferring from another college must file all forms required under Admission of Freshman (above). One who has satisfactorily completed 12 hours in college need not file ACT scores or high school transcript.

Before enrolling, transfer students must have on file in the Registrar's Office transcripts of all work attempted at each institution previously attended. Applicants are

never permitted to disregard their record of any previous enrollment in another institution of higher education. Transcripts received through the hands of students are not acceptable as a basis for admission. It is the responsibility of the students to request that their transcripts be mailed to the Registrar.

A transfer student who is eligible to be classified as a senior must also pass the English usage test and must

file an Application for Graduation (see page 71).

Grand Canyon College generally accepts credit from regionally accredited colleges and universities provided the work is not of a highly specialized nature. A maximum of 16 semester hours of elective credit in technical courses may be accepted toward a degree.

A Guide to the Evaluation of Educational Experiences in the Armed Services is used in evaluation work submitted as a result of service in the armed forces. Credit will be granted only for work in the liberal arts areas. No technical credit will be accepted. All work will be considered lower division.

Credit earned at colleges and universities which are not regionally accredited will be evaluated on a course by course basis. Credit will be granted only with the approval of the department to which credit is assigned and after the student has earned 12 semester hours in residence at Grand Canyon College with a grade of "C" or above in all courses attempted. All credit will be considered lower division.

The College does not recognize credit for "life experiences."

The College does not recognize credit earned at a junior college, a college which is not regionally accredited, credits for educational experiences in the armed forces, or credits earned by testing after a student has earned a total of 64 semester hours of college credit.

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

Credit is not given for any course presented for transfer if the grade in that course is lower than a "C" or its equivalent. Quality points are not transferable. A course completed in another institution with a grade of "D" may serve as a prerequisite for another course only upon approval of the instructor concerned. (Students who enter under the Direct Transfer Plan from community colleges are referred to Direct Transfer Plan below.)

A maximum of 30 hours of credit by examination, extension, and correspondence work, including not more than 12 hours by correspondence, may be accepted for credit toward graduation. The regulations concerning credit for extension and correspondence work are stated on page 64 of the catalog.

Transfer students who do not have a "C" average in all college work already attempted may be admitted provisionally (see page 63).

Students who have been asked to withdraw from another college because of poor scholarship or for any other reason are considered for acceptance only if the period of suspension set by the former institution has elapsed or the college from which students were asked to withdraw reinstates them. During their first semester they may, upon recommendation of the Academic Dean or the Academic Affairs Committee, be required to withdraw if this appears to be in the best interest of the students and/or the College. Credit is not accepted if earned while a student is under suspension from another institution.

DIRECT TRANSFER PLAN

Arts degrees from regionally accredited community colleges as

Grand Canyon College accepts the completion of certain Associate of

fulfillment of the general studies requirements with the exception of the six semester hours of Bible and six semester hours of January Term courses. Students who intend to apply for certification to teach in Arizona must fulfill the general studies requirements for the certification program listed in the Department of Education and Psychology section of this catalog.

Only those Associate of Arts degree programs which are specifically designed to prepare a student to transfer to a four-year

college or university are acceptable for the Direct Transfer plan. An Associate of Arts in Applied Sciences, General Studies, a specialized field, or any other "terminal" program is not acceptable, with one exception: the Associate of Arts (Applied Science) in Nursing will be acceptable only if a student pursues a Bachelor of Science in Nursing.

Most students who enter under this plan can transfer to Grand Canyon College without losing any earned credit.

READMISSION

A student who has not maintained continuous attendance (except for Summer terms) in Grand Canyon College is required to apply for readmission on a form provided by the Registrar's Office. Transcripts of all additional work attempted in other institutions must be filed before readmission can be approved. (See page 70 for statement pertaining to choice of catalog.)

A student who has been out of

Grand Canyon College for any reason for a period of one year or longer must submit an updated student medical history (Part I of the Student Health form). A student who withdraws for medical reasons must obtain a medical clearance report before re-entering. A student whose study at Grand Canyon College is interrupted for a period of less than one year is not required to supply additional health data.

ADMISSION OF INTERNATIONAL STUDENTS

In cooperation with the National Association of Foreign Student Advisers, an International Student Adviser has been designated at Grand Canyon College. International students should communicate with the Foreign Student Adviser, Grand Canyon College, P.O. Box 11097, 3300 W. Camelback Rd., Phoenix, Arizona 85061.

Before the application of an international student whose native language is other than English, can be considered, he/she must submit scores of at least 500 on the Test of English as a Foreign Language (TOEFL). One may write to TOEFL,

Box 899, Princeton, New Jersey 08540, USA, for test application.

Prospective students must also furnish evidence of full financial support while in college. A minimum of \$6,000 for each year of study, exclusive of travel and vacation expense must be certified. An additional \$1,800, plus tuition, is needed for students who attend summer school. A minimum deposit of \$1,500 must be made before the I-20 needed for a student visa can be issued. This deposit, less application fee of \$15, will be refunded upon written request if the student is unable to enter.

International students are required to carry medical and hospitalization insurance. Such insurance is available at moderate cost through the College Business Office.

International students must file official transcripts and examination scores which would qualify them for college admission in their own country. All required records must be received by July 15 for admission in the Fall semester, and by December 15 for admission in the Spring semester.

International students (F-1 visa) must carry a minimum of 12 semester hours each semester to maintain student status.

International students who apply for admission as transfer students must be in good standing academically, demonstrate required English proficiency, and be in current status on their student visas. Full financial support must be certified.

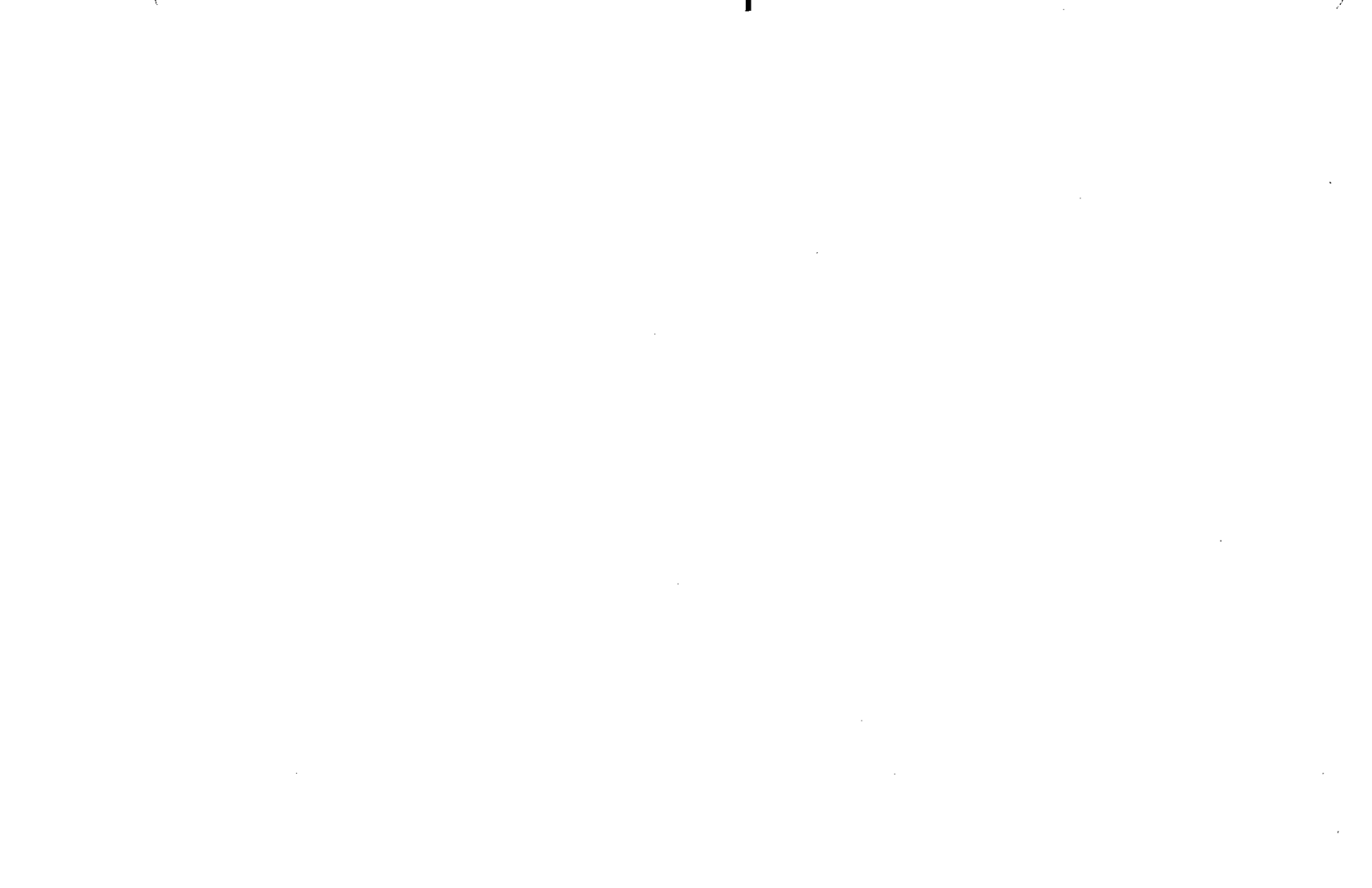
ENTRANCE EXAMINATIONS

All beginning freshmen are required to have American College Test (ACT) or Scholastic Aptitude Test (SAT) scores on file with the College prior to their acceptance as students. (See paragraph 2 of Admission of Freshmen on page 52.)

Prospective students should

consult the academic calendar (pages 6 and 7) for the dates of placement tests and other special examinations administered by Grand Canyon College.

International students are referred to above section, Admission of International Students.



V. GENERAL ACADEMIC REGULATIONS

Definition of Semester Hour

Numbering of Courses

Classification of Students

Order of Taking Courses

Grading System and Quality Points

Academic Honors

Course Load

Upper Division Requirement

Change of Courses

Dropping of Courses

Withdrawal from all Courses

Auditing of Courses

Grade Requirements

Repeating of Courses

Academic Suspension

Academic Probation

Provisional Status

Eligibility for Activities

Class Attendance

Permission to Take Examinations Late

Correspondence and Extension Credit

Comprehensive Examinations

Concurrent Enrollment

Special Courses by Independent Study

Honor Students Audit Privileges

Honors Study Program

DEFINITION OF SEMESTER HOUR

Grand Canyon College operates on the semester plan, offering two regular semesters of 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 and in laboratory courses. Summer sessions, composed of two terms of five weeks each, are operated on an accelerated schedule which is in accord with the semester hour principle. An interterm course for three hours credit is offered in January of each year.

NUMBERING OF COURSES

The courses in the different departments are numbered from 100 to 499.

Usually a freshman will not be

Courses from 100 to 199
Courses from 200 to 299

} Lower division

Courses from 300 to 399
Courses from 400 to 499

} Upper division

permitted to take a course which bears a number higher than 299 and a sophomore not higher than 399.

CLASSIFICATION OF STUDENTS

Students are classified as *freshmen* until they have completed 30 semester hours.

Students are classified as *sophomores* when they have completed 30 to 59 semester hours.

Students are classified as *juniors* when they have earned from 60 to 89 semester hours.

Students are classified as *seniors* when they have earned a minimum of 90 semester hours of credit, have earned a grade point average of 2.00 or above, have passed the English Usage Examination, and have filed an application for graduation.

Students are not permitted to graduate at the end of a semester or term which they began with a grade point average of less than 2.00. They must be officially classified as seniors when they register for the final semester or term before graduation.

(See page 70 for General Graduation Requirements.)

Auditors—those students who are enrolled in regular courses for no credit.

Fifth Year Students—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.

Second Degree Students—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 70).

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

ORDER OF TAKING COURSES

A student normally is expected to take required courses at the earliest opportunity. 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 Academic Dean.

GRADING SYSTEM AND QUALITY POINTS

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

A	Superior; extraordinary scholarship; outstanding performance	✓
B	Far above average; unusually good work	3
C	Average; standard performance; acceptable college work	2
D	Passing, but below standard	1
F	Failure or unauthorized withdrawal	0
A	Incomplete (see note below)	
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	
IP		

An incomplete grade will be given at the end of a term or semester only when seriously extenuating circumstances prevent a student from completing course requirements before the close of the grading period. When a grade of I is given, the student must complete all necessary work before the end of the next regular semester; otherwise the grade becomes an "F."

Incomplete Grade

Given - by Spg, sum by Fall

becomes an "F."

Averaging of Grades

For the purpose of computing grade point averages, grade points are assigned as follows: "A", 4 points for each semester hour; "B", 3 points; "C", 2 points; "D", 1 point; "F", 0 points. Other grades are not included in grade point average (GPA) computations. 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 is based only upon work taken in residence at Grand Canyon College.

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 Registrar's Office, 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 Business Office. Failure to follow these procedures will result in a grade "F."

Audit Grades

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.

Credit Grade

Certain courses earn credit toward and fulfill requirements, but do not count in GPA computation. 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.

Change of Grade

Final grades may be changed only by the instructor of the course, and then only if there has been an error in computation or to remove an incomplete grade ("I"). The instructor must submit an official grade change form, a copy of which will be mailed to the student.

Appeal of Grade

A student who feels that a grade has been unfairly awarded may appeal the grade by submitting a letter of appeal to the Academic Affairs Committee. The appeal should include specific reasons for requesting the grade change. A response from the instructor will be obtained before the appeal will be considered.

ACADEMIC HONORS**Graduation with Honors**

Students who have earned at least 60 hours at Grand Canyon College may qualify for honors at graduation by maintaining one of the following grade point averages:

- 3.40 to 3.59 may qualify for graduation *with distinction*;
- 3.60 to 3.79 may qualify for graduation *with high distinction*;
- 3.80 to 4.00 may qualify for graduation *with highest distinction*.

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

Other Honors

Other honors related to academic achievement are described on page 43.

COURSE LOAD

A 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 minimum of 6 semester hours

of credit courses during each of the Summer sessions is considered full-time. January Term enrollment is considered full-time, but January Term hours are not counted toward

either Fall or Spring full-time determination.

Students living on campus are expected to carry not fewer than 12 semester hours of work, except upon the advice of the College Physician or by special consent of the Academic Dean.

International students must carry a minimum of 12 semester hours each semester in order to maintain student status required for the F-1 visa.

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

The maximum course load normally to be allowed during a Summer term 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 the following rules have been adopted for the protection of students who find it necessary to earn part or all of their college expenses:

1. Students who have employment other than school work should not take more than 15 hours of college work.
2. Students working 20 hours or more per week who do not show satisfactory progress at the end of the first grade period may be required to reduce their work schedule or their course load.

UPPER DIVISION REQUIREMENT

For graduation, a student must earn a minimum of 45 semester hours of credit in upper division (300 or 400 level). In exceptional cases,

students may petition the Academic Affairs Committee for special consideration.

CHANGE OF COURSES

After a student has completed registration, no change in course schedule is permitted without the signatures of the professor or professors concerned, the Registrar or Academic Dean, and the Business Office. Tuition may be refunded when changes in class schedule are made upon the recommendation of the Academic Dean. Refunds are

determined by the date the student files a completed withdrawal form with the Business Office. (See the schedule of refunds beginning on page 26.)

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 6 and 7.

DROPPING OF COURSES

A student is not permitted to drop a course after the last day for dropping (see academic calendar, pages 6 and 7) without receiving a grade of "F",

except for very unusual reasons which are evaluated by the Academic Dean.

A student who discontinues a course at any time without withdrawing officially from it is given a grade of "F" in the course.

Instructions and forms for the dropping of a course are obtainable at the Registrar's Office.

WITHDRAWAL FROM ALL COURSES

To withdraw officially from all courses a student must secure an official withdrawal form from the Registrar's Office 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".

AUDITING OF COURSES

Under certain conditions a student may wish to audit a course rather than take it for credit in a degree program. Tuition and fees are the same as if the course were taken for credit. Normally, the student will merely sit in the class, take no examinations, and receive a grade of "S" or "U."

Students may change from credit to audit, with written consent of the instructor, in any course through the last day in the semester when a course may be dropped without

penalty, by going through the Registrar's Office to complete the official procedure.

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 college catalog.

GRADE REQUIREMENTS

For graduation students must present a minimum of 128 semester hours of credit and a grade point average of 2.00 for all courses attempted at Grand Canyon College. At least 45 hours must be upper division credit.

The regulation concerning grades on college work taken elsewhere is given on page 52.

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 average of 2.50 in their teaching majors.

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

REPEATING OF COURSES

A grade of "F" may be removed only by repeating the course.

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 records as it pertains to credit toward graduation.

ACADEMIC SUSPENSION

A student who has attempted 24 hours in residence at the College will normally be suspended at the end of

a semester in which his cumulative grade point average 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 make written application for reinstatement to the Academic Affairs Committee. A

student subject to academic suspension for the second time is normally given final dismissal.

A student reinstated after an academic suspension is admitted provisionally. See Provisional Status, below.

ACADEMIC PROBATION

Students who are admitted from the third quartile of their high school graduating classes and whose ACT or SAT scores are below the 50th percentile are admitted on academic probation.

Students whose cumulative grade point average on work attempted in Grand Canyon College drops below 2.00 are placed on academic probation.

Probationary status is removed when the student earns a cumulative

grade point average of 2.00 on all work attempted at Grand Canyon College.

A student on academic or disciplinary probation is not eligible for any grant or scholarship administered by the College, nor for an office in any student organization.

A student on probation is not classified as a senior scheduled for graduation. (See page 70.)

PROVISIONAL STATUS

A student who has provisional status is subject to all the restrictions named for probationary status. (See Academic Probation, above.)

A student with provisional status may be given final dismissal at any time if this appears to be in the best interest of the student and/or the College.

Transfer students admitted with less than a "C" average, or those reinstated after academic suspension, are admitted provisionally. Persons thus admitted retain provisional status until they have earned a total of at least 12 hours in Grand Canyon College and have earned a cumulative grade point average of 2.00. If they do not have an average of 2.00 on these 12 hours, they are subject to dismissal.

ELIGIBILITY FOR ACTIVITIES

Any student may participate in extracurricular activities provided by the College except as restricted by regulations established for campus organizations and intercollegiate activities. A student who is on the most recent unsatisfactory grade list

or on probation however must secure from the sponsor of a given activity permission to participate.

Any student with probationary or provisional status is ineligible to hold office in any student organization until the deficiency is overcome.

CLASS ATTENDANCE

1. Students are expected to be regular and punctual in class attendance. The instructor announces at the first session of each course and also states in the course syllabus what the attendance requirements are and is the judge of whether the student has met the stated attendance requirements at the end of the course.
2. The student alone assumes responsibility for all absences. Instructors will permit students to make up tests and other work when the absence was entirely unavoidable or authorized by the Academic Dean. (See below, Permission to take examinations late.)
3. To secure permission to make up work missed by absence, students must account to their instructors immediately after their return to class in the manner prescribed by their instructor.
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.

PERMISSION TO TAKE EXAMINATIONS LATE

Under certain conditions students may be permitted to take a major examination which they missed. In all such cases students must account to

the instructor for their absences and must present a receipt from the Business Office showing payment of the necessary fee (see page 23).

CORRESPONDENCE AND EXTENSION CREDIT

A maximum of 30 hours of credit by examination, extension, and correspondence work, including no more than 12 hours by correspondence, may be allowed for graduation.

Credit for college level seminary extension courses may be transferred to Grand Canyon College under certain conditions. Students planning eventual transfer of these courses should secure approval from the Chairman of the Department of

Religion 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 Registrar prior to enrollment in the final semester before graduation. Such work done at any time by a student while enrolled in Grand Canyon College must meet all of the criteria for concurrent enrollment.

COMPREHENSIVE EXAMINATIONS

Matriculated students may establish non-residence lower division credit by examination through the department in which the course is offered. Credit for a non-credit prerequisite may also be

established by a department examination. A proficiency examination, without credit, may be required by a department for a waiver of a course requirement.

The examination, as prepared by the instructor, must be approved by the Department Chairman. A letter grade of "C" or higher must be earned to be acceptable for credit.

Grades will be shown on the student's academic record as "Cr". No entry will be made for grades below "C". The graded examination will be kept on file in the student's permanent file.

Limitations

1. Application for credit by examination must be made during the first year of enrollment at Grand Canyon College.
2. Credit applies only to catalog courses, and only to those courses for which CLEP examinations are not available.
3. Credit may not be for a course which is equivalent to, or more elementary than, another course in which the student is enrolled or for which the student has already received credit.
4. A maximum of 30 hours for credit by examination, extension, and correspondence may be applied toward a degree.

Students should:

Procedures

1. Obtain an Application for Credit by Examination from the Registrar's Office.
2. Complete the necessary information and obtain all necessary signatures.
3. Pay the \$5 special examination fee in the Business Office and obtain their validation of payment.
4. Present the validated application to the instructor who will be responsible to prepare the examination.
5. Obtain the instructor's signature and final grade.
6. Return the application to the Business Office and pay the fee of \$12.50 for each hour of credit awarded.

Upon receipt of the validated grade, credit will be recorded on the student's permanent record.

Exceptions to the above policies may be made upon petition to and approval of the Academic Affairs Committee.

CONCURRENT ENROLLMENT

A full-time student who is matriculated at Grand Canyon College may be concurrently enrolled at another college or university under the following conditions:

1. Enrollment at another institu-

tion is limited to one course, not to exceed 4 semester hours.

2. The course must contribute to the student's major, minor, or professional goal.

3. A formal request for permission to enroll in another institution must be approved by the Academic Affairs Committee before the student registers for the off-campus course.
4. The request to the Academic Affairs Committee must have the endorsement of the student's advisor.

SPECIAL COURSES BY INDEPENDENT STUDY

Certain course numbers have been reserved for courses to be taken by independent study which instruct-

tional departments of the College wish to approve. These fall into three categories:

Independent Study

Department number 499. Research, seminar, or readings and conference on a special topic to be selected by the student and faculty advisor. May be taken for one, two, three, or four hours, depending upon the amount of time and work involved. May be repeated for up to four hours total credit unless specified otherwise in requirements for a major. For upper division students with a grade point average of 3.00, with approval of the department chairman, instructor, and the Academic Dean.

Practicum

Numbered 399 in each department, 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 which must agree to provide an advisor to work with the faculty advisor in designing and evaluating the student's experience. This course is for upper division students and may be taken any semester with approval of faculty advisor, department chairman, and Academic Dean. The student must obtain course approval forms from the Registrar's Office, complete them in conference with the instructor, and secure required signatures before enrollment can be completed.

Reading and Conference

Any course listed in the catalog may be taken by reading and conference with the instructor, with approval of the department chairman and the Academic Dean. The student must have a legitimate reason for seeking course credit through reading and conference. Normally students will not be permitted to receive credit for more than two courses by this method.

HONOR STUDENT AUDIT PRIVILEGES

A student who qualifies for the Dean's List during any semester may audit one course without charge. The audit privilege covers the regular

audit fee for any course, regardless of the number of semester hours. It does not cover special charges.

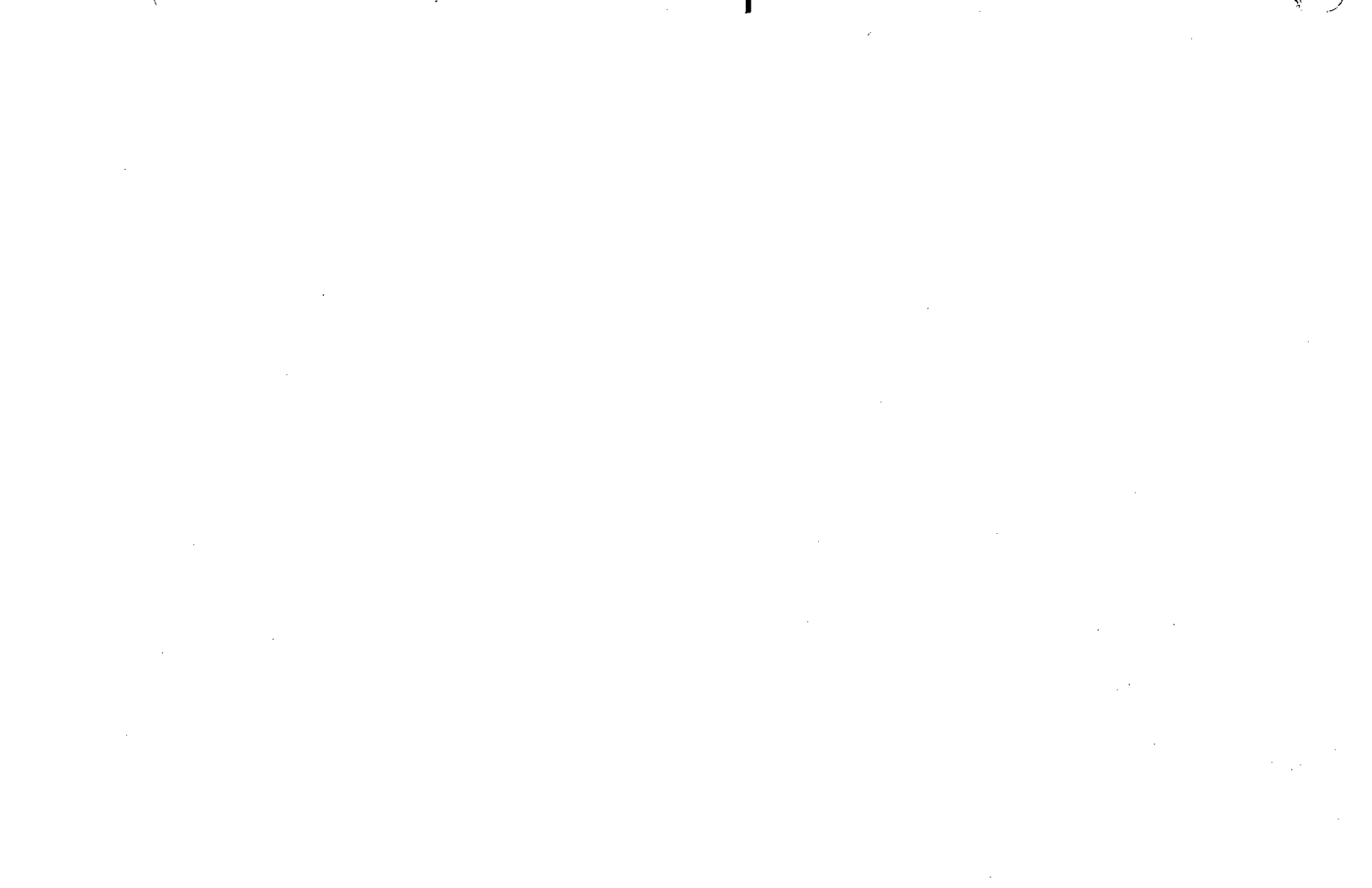
HONORS STUDY PROGRAM

The Honors Program is designed to provide a unique educational challenge for a select number of students who have demonstrated unusual scholarship and aptitude for learning. It seeks to provide them with opportunities for advanced study within their own discipline as well as exchanges with faculty and students outside their own field.

This is accomplished through an Honors Colloquium led by faculty and

outside speakers, attendance at local symphonies, plays, exhibits, or lectures, and an Honors Essay in which the students are involved in original research in their own disciplines.

Students are admitted to the Honors Study Program by invitation of the Honors Program Committee. Interested students should see the chairman of this committee.



VI. GRADUATION REQUIREMENTS

Degrees Offered

Second Degree

Choice of Catalog

General Requirements for Graduation

Curricular Requirements for Graduation

General Studies

Major and Minor Subjects

Elective Courses

Specific Academic Programs in Relation to Degrees



DEGREES OFFERED

The College offers curricula leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Nursing, or Bachelor of General Studies.

The Bachelor of Arts degree is granted to majors in Art, Art Education, Studio Art, Bible, English, Theatre-Speech, History, Music, Church Music, Performing Arts, Religion, Social Studies, and Behavioral Science.

The Bachelor of Science degree is awarded to majors in Behavioral Science, Biology, Business, Chemistry, Computer Science, Criminal Justice, Elementary Education, Special Education, Psychology,

Environmental Science, Mathematics, Music Education, Physical Education, Psychology, Sociology, and Training and Development.

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

Liberal Arts majors not listed in the catalog may be arranged under the direction of the department concerned with the approval of the Academic Dean.

SECOND DEGREE

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

1. General Education requirements for the degree sought.

2. A major in a field not used as a major for the earlier degree (See specific major for number of hours required).

3. A minimum of 30 hours in residence (36 for those who have not met the 6-hour requirement in Bible).

*No 5 hrs = 10 hrs
No 5 hrs = 10 hrs
No 5 hrs = 10 hrs*

CHOICE OF CATALOG

A candidate for a degree may elect to meet the requirements for graduation as outlined in the catalog in effect at the time of his original matriculation, or those of any

subsequent catalog. Students seeking certification to teach in Arizona must meet requirements in effect at the time of their graduation.

GENERAL REQUIREMENTS FOR GRADUATION

Number of Hours and Grade Point Average

The total number of semester hours required for graduation is 128 with a minimum grade point average of 2.00, indicating an average of "C"; on all work taken at Grand Canyon College. At least 45 hours must be upper division credit.

Students are not permitted to graduate at the end of a semester or term which they began with a grade point average of less than 2.00. (See page 58, Classification of Students.)

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

**Grade in
Major**

The College feels that a college graduate should be able to write clear and correct expository prose. Students who expect to graduate from Grand Canyon College are required to pass an English usage examination. The examination is given as part of the freshman English courses; students who take freshman English elsewhere are required to take the examination during the first semester of their junior year. Students who have completed more than 85 semester hours will not be allowed to register until they have taken this examination.

**English
Usage
Examination**

Examinees write short essays based on questions provided by their major departments. Members of the English faculty read the essays, then pass them with their recommendations to the department chairmen. The various department faculties make the final decision as to the student's competency in writing.

Students whose writing is judged to be less than competent will be referred to the English Department for assistance.

The examination is given twice each semester. Notices of the examination dates appear in the chapel bulletins.

**Minimum
Residence**

Normally eight semesters of residence or the equivalent in an approved college are required for graduation. At least 24 semester hours, including the 12 semester hours immediately preceding graduation, must be taken at Grand Canyon College.

Students are required to take in residence at Grand Canyon College at least 15 semester hours in their major subject, six of which must be upper division, and at least 9 semester hours in their minor subject, three of which must be upper division.

The requirements for graduation with honors are stated on page 60.

**Graduation
with Honors**

Record of all correspondence and extension work transferred from another institution must be filed with the Registrar prior to enrollment in the final semester before graduation. (See page 64 for additional information concerning correspondence and extension credit.)

**Correspondence
and Extension
Credit**

The College grants credit for the first semester of a language only upon completion of the second semester of the same language.

**Minimum Amount
of Language
Allowed**

All candidates who expect to complete degree requirements during the Spring semester must file a Statement of Intent to Graduate with the Registrar's Office no later than February 15 of that semester. Candidates who expect to

**Application
for Graduation**

complete requirements during the Fall semester should file the intent by September 15 of that semester. Statement of Intent to Graduate forms may be obtained from the Registrar's Office. A \$25 graduation fee must be paid to the Business Office before returning the completed form to the Registrar's Office.

Degree Plan

Once the completed Statement of Intent to Graduate has been filed in the Registrar's Office, a graduation check will be done. Each candidate will receive a list of courses yet to be completed to meet the degree requirements.

Attendance at Commencement Exercises

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 faculty.

Eligibility to Participate in Commencement

The policy adopted by the Faculty concerning eligibility of seniors to participate in commencement is outlined below:

Procedures:

1. Seniors who have completed all requirements for graduation or will do so in May or August participate in the annual commencement in May. They march in alphabetical order by degrees and are handed diploma covers. Those who have completed all requirements by May will receive their diplomas at that time; diplomas will be mailed to August graduates at the end of the Summer session.
2. Names of August graduates appear in the printed program along with December, January and May graduates, with an asterisk to indicate that they expect to complete requirements by August.

Requirements:

1. "C" average at beginning of Spring semester. A student who does not have a "C" average at the beginning of Spring semester may not graduate before May of the following year.
2. *Statement of Intent to Graduate* indicates that requirements will be met before the end of the Summer session. This must be filed with the Registrar by May 1.

This means that a student who suddenly decides to come back for a Summer term or one who finds graduation requirements could be completed by August but had not filed intent to graduate during the current year would not be eligible to participate in graduation exercises or receive the diploma until the following May. (This would not hinder one's applying for a job or going on to graduate studies.)

CURRICULAR REQUIREMENTS FOR GRADUATION

The completion of the required 128 semester hours usually requires four years of 32 semester hours each. The freshman and sophomore years are 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 (1) General Studies, (2) Major and Minor Subjects, (3) Elective Courses.

GENERAL STUDIES

The General Studies portion of the curriculum at Grand Canyon College is designed to unify the student's early college experience by forming a comprehensive and correlated foundation for a more meaningful life and for future academic pursuits. It seeks to help students to develop an understanding and appreciation of the various areas of knowledge and creative endeavor which have contributed to the development of contemporary society and thus to enable them to achieve greater social stability and a more secure personal life.

developing an awareness of the significance of various areas of knowledge to the student, their relationship to other areas of human endeavor and achievement, and their influence and potential in today's world.

General Studies at Grand Canyon College seek to help the individual student to apprehend the Christian way of life and to begin to acquire the knowledge, skills, and attitudes essential to a citizen who assumes moral and social responsibilities.

Students in teacher education programs will follow the list appearing on page 92 under Department of Education and Psychology.

For other students seeking the B.A., B.S., or B.S.N., the following courses comprise the minimum requirement in General Studies:

General Studies seek to provide, during the first college years, the kinds of learning experiences which will enable all students to choose wisely and build carefully the specialized program of studies most appropriate for them. General Studies are primarily concerned with

- | | | |
|------|--|--------------------|
| I. | Spiritual Foundations of Life (6 hours)
BIB 113, BIB 123 Old and New Testament History | 6 hours |
| II. | Social Foundations of Life (6 hours)
HIS 113, 123 History of Civilization I, II, or
HIS 123, 233 History of Civilization II, III, or
HIS 213, 223 Early and Recent American History | 6 hours |
| III. | Scientific Foundations of Life (7 hours)
Mathematics
Laboratory Science | 3 hours
4 hours |
| IV. | Communicative Arts (6 hours)
EEW 113 and EEW 123 Freshman English | 6 hours |
| V. | Humanities (2 hours)
AH 112 Intro to Art, or
MUS 252 Music Appreciation | 2 hours |

- VI. Physical Well-being (4 hours)
Activity Physical Education
(Students who transfer in 64 semester hours or more are required only 2 hours.) 4 hours
- VII. General Studies options
Twelve hours chosen from courses outside the student's major or minor area, with no more than one course from an academic area 12 hours
- VIII. Involvement in contemporary affairs. (January Term)
An interdisciplinary approach with emphasis on active participation and individual research in both on and off campus experiences. One January Interim course is normally required for each 42 hours completed in residence, with the following exceptions:
1. Those who meet their graduation requirements as essentially part-time students.
 2. Those who meet their graduation requirements as essentially night students.
 3. Those who have taken one January Interim course, in sequence, each year they are in continuing residence.
- IX. Foreign Language (recommended for B.A. Degree)
One language only; should be taken consecutively (see page 71).

MAJOR AND MINOR SUBJECTS

By the beginning of their junior year 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 12 hours must be of junior-senior rank. Students must also have a "C" average in their major and are not permitted to count in the major any course with a grade below "C." A candidate for a secondary teaching certificate must have a "C+" (2.50) average, or above, in the teaching major. To change a major once it has been declared as a junior, the student must secure approval of both departments in writing.

The student must also choose a minor in a subject area other than the

major. The minor must consist of not fewer than 18 semester hours. Of these, six hours must be from courses of junior-senior rank. It is suggested that a student try to earn at least 24 hours in the minor to teach in that field. No minor is certifiable. Some majors do not require minors due to the extensive breadth of requirements for the degree. Such majors are so indicated in their descriptions later in the catalog.

A student may elect to complete a second major in lieu of a minor.

No course may count toward hours required for the completion of both major and minor.

Transfer students should consult the paragraph concerning minimum residence (see page 71).

ELECTIVE COURSES

A faculty advisor will help each student select a combination of major, minor, and elective studies appropriate for that individual.

A student may elect to take courses

from the regular college curriculum offered in each department in addition to the courses which may be required in that particular area.

SPECIFIC ACADEMIC PROGRAMS IN RELATION TO DEGREES

It is assumed that in many instances students will not decide until the beginning of their junior year what their majors and minors will be. The suggestion is intended to encourage students to study in the widest possible variety of fields, in order that they may determine wherein their greatest interests lie.

Attention should be given to lower division courses which are required in majors, or as prerequisites to upper division courses, that may be selected. Each of the following programs is a guide or check sheet for the student. Every specific course listed is a required course, except as noted.

Suggested Program for Bachelor of Arts Degree Candidates

For majors in Art, Art Education, Bible, English, Theatre/Speech, History, Music, Church Music, Religion, Social Studies, or Behavioral Sciences.

Freshman Year		Sophomore Year	
		Fall	Jan. Spring
Bible 1†3, 123	Fall Jan. 3	Spring 3	4*
English 113, 123	3	3	2 or 2
History (see page 73)	3	3	4
Mathematics	1	1	1
Activity/P.E.	3	2	9
Electives	3	3	3
January Term	13	3	16
	13	3	16
Junior Year		Senior Year	
		Fall	Jan. Spring
Foreign Language	Fall Jan. 3*	Spring 3*	15
Electives, Major or Minor	11	12	17
January Term	3	3	15
	14	3	15

* A student continuing a foreign language from high school should begin his foreign language during his freshman year. For a Music major with Voice concentration, French or German is recommended. Foreign language is not required for a degree.

** Only two hours of Physical Education activity courses are required of students who transfer in 64 hours or more.

Suggested Program for Bachelor of Science Degree*

For majors in Biology, Business, Sciences, Mathematics, Music Chemistry, Elementary Education, Education, Physical Education, or Special Education, Environmental Training and Development.

Freshman Year			Sophomore Year		
	Fall	Jan. Spring		Fall	Jan. Spring
Bible 113, 123	3	3	Art or Music		
English 113, 123	3	3	Appreciation	2	or 2
Mathematics	3		History (see page 73)	3	3
Lab Science or SCI 114		4	Activity P.E.	1**	1
Activity P.E.	1	1	Electives, Major or Minor	7	10
Electives, Major or Minor	3	5	January Term	3	
January Term	—	—		13	3 16
	14	3 16			

* Students in any of these programs which lead to teacher certification are referred to pages 92 and 93.

Junior Year			Senior Year		
	Fall	Jan. Spring		Fall	Jan. Spring
Electives, Major or Minor	14	15	Electives, Major or Minor	17	15
January Term	—	—		—	—
	14	3 15		17	15

** Only two hours of Physical Education activity courses are required of students who transfer in 64 hours or more.

Requirements for the Bachelor of General Studies Degree

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

General Studies	Courses listed on pages 73 and 74	55 hours
	Electives	<u>73 hours</u>
		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 department will be acceptable toward the degree.

Course prerequisites as stated in the catalog will be observed.

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

An overall grade average of "C" must be maintained.

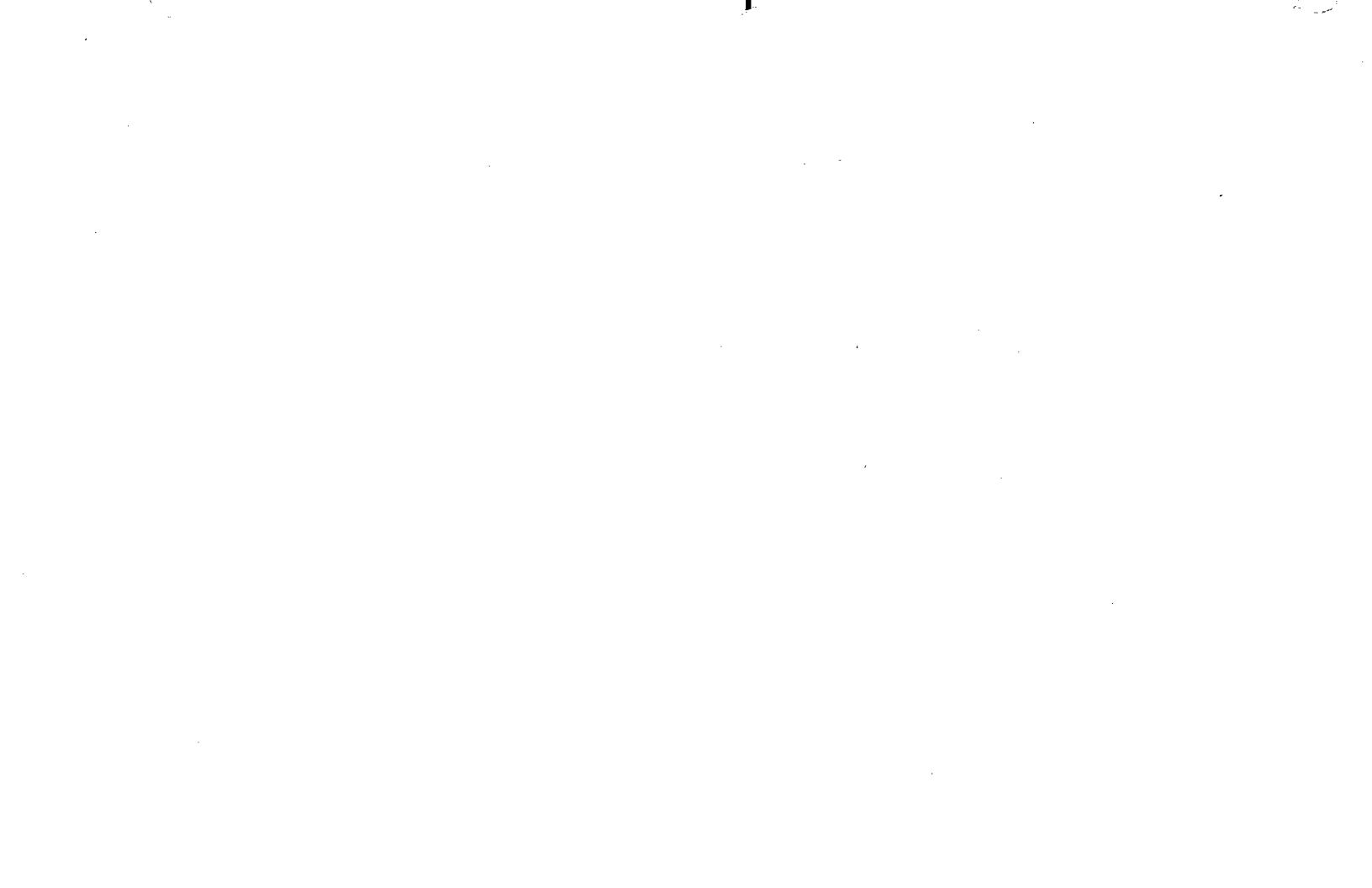
The student must pass the English Usage Exam required of all degree candidates.

The student must satisfy the minimum residence requirement.

Other Graduation Requirements

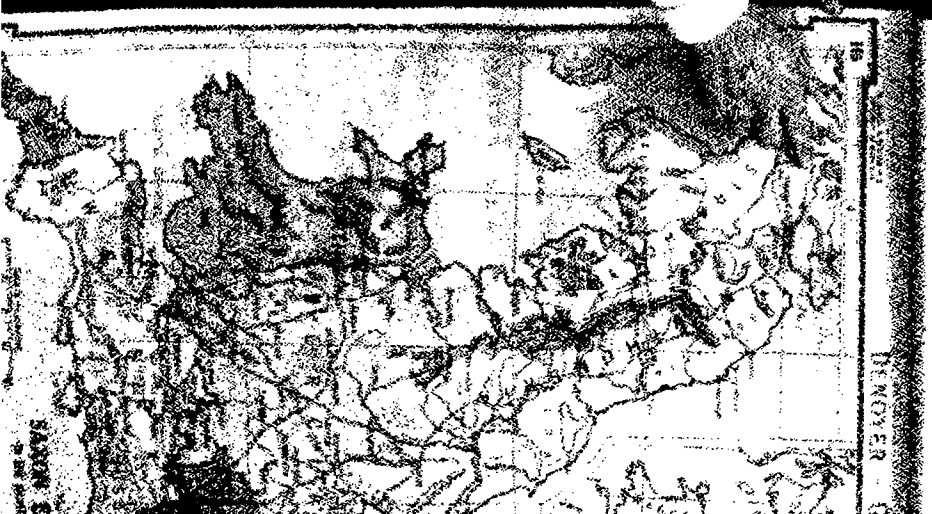
Students who elect this program will sign a statement that they understand the Bachelor of General Studies degree may not be accepted for teacher certification, admission to professional schools, or admission to graduate schools.

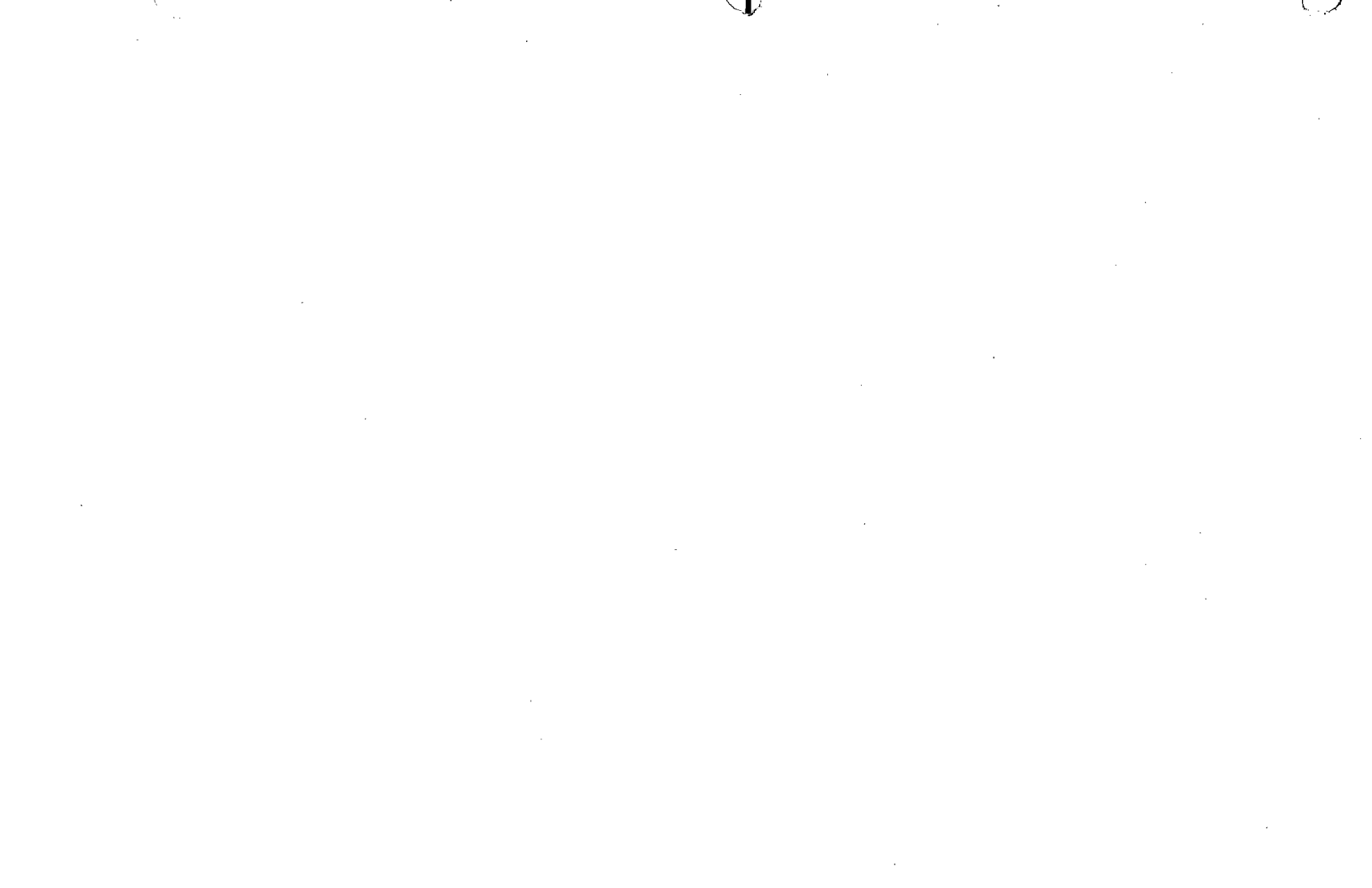
**Special
Conditions**



VII. DEPARTMENTS OF INSTRUCTION

Department of Business and Economics	-1
Department of Education and Psychology	-2
Department of Health and Physical Education	-3
Department of History and Social Sciences	-4
Department of Humanities	-5
Department of Natural Sciences and Mathematics	-6
Department of Performing Arts	-7
Department of Religion	-8
Samaritan College of Nursing	-9
ROTC	-10





BUSINESS AND ECONOMICS

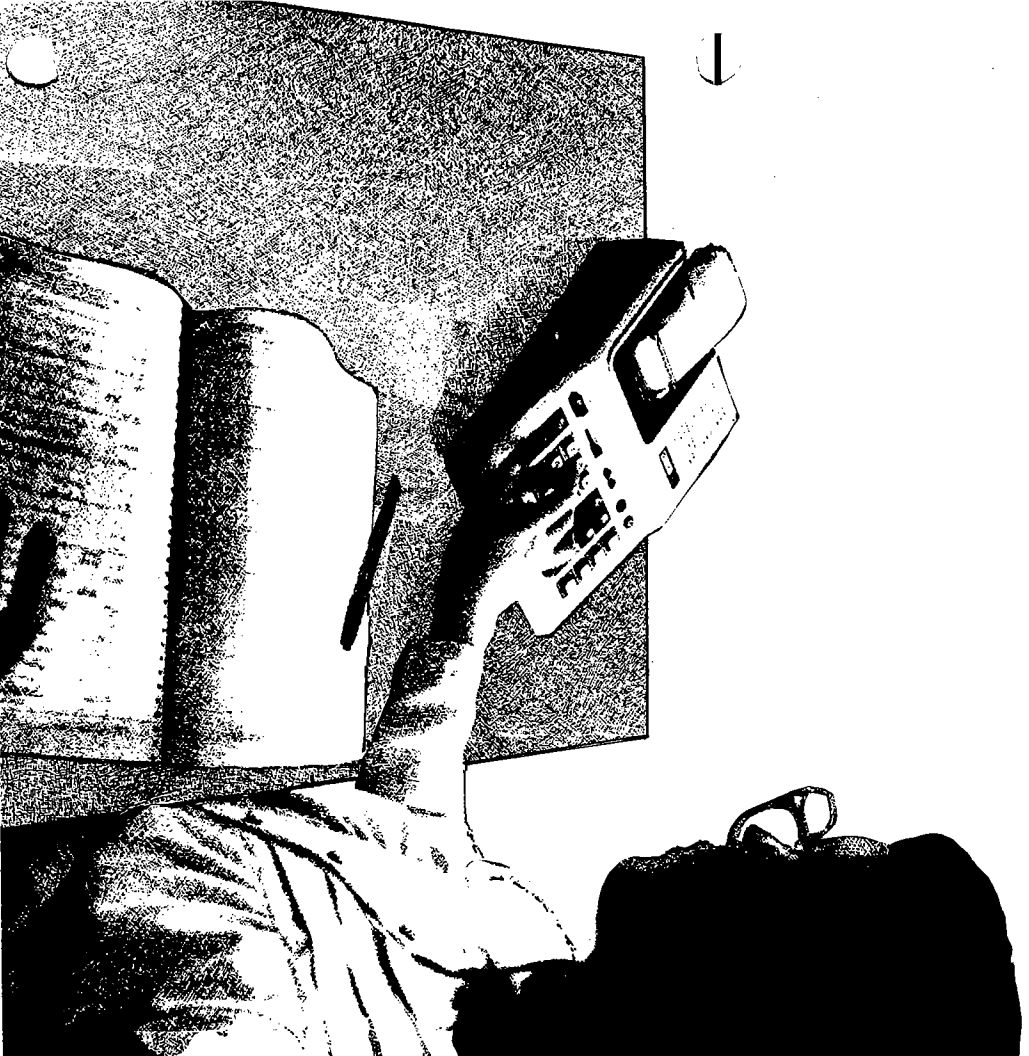
Department Description

Degree Requirements—Business Administration
Business

Degree Requirements—Accounting
Accounting

Degree Requirements—Economics
Economics

Degree Requirements—Training and Development
Training and Development



DEPARTMENT DESCRIPTION

The goal of the department is to assist students to prepare for professional careers in business. The program offered in business administration is a broad survey of the major fields of study which are part of the economic enterprise. This major is designed particularly for students who plan to own and operate a business, for students preparing for a career as an employee at the professional level, and for students who are preparing for graduate study in business. In addition to courses in the department, students of business are encouraged to develop skills in communications, quantitative disciplines, and cultural breadth. For

these skills and this knowledge to be most effective, students will be encouraged to base their lives on the personal God revealed in the Bible.

The department offers a major in Training and Development which combines courses in business, education, and social sciences. The objective of this program is to prepare people to work with business and government in internal education and development. Because of the broad scope and extensive course requirements for this program, students who major in Training and Development are not required to complete a minor (see page 74, Majors and Minors).

DEGREE REQUIREMENTS — BUSINESS ADMINISTRATION

Requirements for a major in Business Administration* (B.S. Degree)

BUS 102 American Business and Free Enterprise	3 hours
CS 133 Introduction to Computer Science	3 hours
BUS 243 Business Machines/Math	3 hours
BUS 323 Business Finance	3 hours
BUS 343 Introduction to Probability & Statistics	3 hours
ECO 213, 223 Survey and Principles of Economics	6 hours
ACC 214, 223 Principles of Accounting I, II	6 hours
BUS 353, 363 Business Law I, II	6 hours
BUS 373 Principles of Management	3 hours
BUS 383 Business Communications	3 hours
BUS 393 Principles of Marketing	3 hours
	<u>42 hours</u>

84-85 BUS 311 @ 45 ETHIC.

* Students majoring in Business are encouraged to develop a skill in touch typewriting. Students in Business Education must have proficiency equivalent to the requirements for Intermediate Typewriting. Students who feel they are proficient to this extent may take a special typewriting test given by the Department of Business and Economics. Notation of proficiency thus established is made on the student's permanent record. Proficiency must be established by course or by examination before the student takes BUS 383, Business Communications. See page 23 for the examination fee.

Requirements for a minor in Business

- * BUS 102 American Business and Free Enterprise 3 hours
- * BUS 243 Business Machines/Math 3 hours
- ACC 214 Principles of Accounting I 3 hours
- * BUS 353 Business Law I 3 hours
- * ECO 213 Survey of Economics 3 hours
- Upper division electives in Business 3 hours

*Sell typing job - if possible - must pay for
the - see page 89*
Department of Business and Economics

BUSINESS

BUS 102 AMERICAN BUSINESS AND FREE ENTERPRISE

Every Fall/3 hours

A course for the beginning study of American business. Various aspects of the business firm will be defined and illustrated. Major problems of the economic system will be introduced.

BUS 103 BEGINNING TYPEWRITING

Every Fall/3 hours

For students who cannot type 30 words per minute or students just beginning typewriting. Covers a general knowledge of and the care and operation of the typewriter, mastery of keyboard, and simple copying. There will be some letter writing and practice in centering various forms, columns, etc.

BUS 123 INTERMEDIATE TYPEWRITING

Every semester/3 hours

Provides practice in developing accuracy with speed in typing business correspondence, rough drafts of business letters, memoranda, inter-office communication, tabulation. Emphasis placed on production of mailable copy with opportunity for composition at the typewriter. Open to persons who have learned touch system and have attained a speed of 30 words per minute.

BUS 213 ADVANCED TYPEWRITING

Every Spring/3 hours

Attention given to developing speed plus accuracy in production of mailable communications including letters, legal documents, medical reports, accounting reports, government correspondence; tabulation forms and duplication processes.

BUS 243 BUSINESS MACHINES-MATH

Every semester/3 hours

Designed to give the student instruction in efficient operation of electronic display (digital) and electronic printing (tape) machines. Practical business applications including interest, discounts, payroll computation, insurance, proration, reciprocals, invoicing, markups, percentages, and commissions.

BUS 323 BUSINESS FINANCE

Every Spring/3 hours

The financial structure of various types of business organizations, including sole proprietorships, partnerships, and corporations. Methods of securing and managing funds to meet short-term and long-term capital requirements. Financial problems are considered in connection with refunding, reorganization, mergers, and consolidations. *Prerequisites: ACC 233 and ECO 223.*

BUS 333 PERSONNEL ADMINISTRATION

Spring, 1984, and alternate years/3 hours

Analysis of the personnel policies of business enterprises. Areas of study include selection, placement, training, promotion, morale, employee services, and organization and functions of a personnel department.

BUS 343 INTRODUCTION TO PROBABILITY AND STATISTICS

See **MAT 263** on page 147.

BUS 353 BUSINESS LAW I

Every Fall/3 hours

A study of the development of our legal system with a brief study of the nature of crimes, torts, and strict liability. The course also includes contracts, agency, and property.

BUS 363 BUSINESS LAW II

A continuation of **BUS 353**. Included in this course is the study of partnerships, corporations, sales, commercial paper, credit, and government regulations and agencies.

Every Spring/3 hours

BUS 373 PRINCIPLES OF MANAGEMENT

An introductory course with an overall objective of developing and improving skills which increase managerial effectiveness. The course deals with management in general and the basic management process and functions in particular, focusing on real world management situations concerned with planning and getting out routine work. *Prerequisite: Junior standing or consent of instructor.*

Every Fall/3 hours

BUS 383 BUSINESS COMMUNICATIONS

Practice in writing effective business letters, memoranda, and reports. Emphasis on effective written and oral communication as it applies to human relations in business; a managerial approach to effective communication through conversing, conferring, reporting, and dictating of business messages. Refresher course in communication skills such as dictionary use, word usage, punctuation, spelling, gaining word power, and constructing effective sentences. *Prerequisite: Ability to use the typewriter by the touch method.*

Every Spring/3 hours

BUS 393 PRINCIPLES OF MARKETING

Understanding of the marketing processes as they relate to marketing decisions, selection of market targets, product strategy, distribution channels, pricing, marketing research, advertising, interaction of marketing and society. *Prerequisite: ECO 213.*

Every Fall/3 hours

BUS 453 ORGANIZATIONAL BEHAVIOR

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 by using the case approach.

Every Spring/3 hours

DEGREE REQUIREMENTS—ACCOUNTING

Students who wish to complete the major in accounting should consult the major professor or the department chair.

Requirements for a minor in Accounting*

ACC 214, 233 Principles I, II

6 hours

ACC 313, 323 Intermediate Accounting I, II
Electives in Accounting

6 hours

6 hours

* When a minor in another business area is taken with a major in Business, there is some duplication of requirements. A course involved in such duplication is counted toward the minor only. The student takes sufficient electives in Business and Economics to satisfy the requirement of 42 hours in the Business major.

ACCOUNTING

ACC 214 PRINCIPLES OF ACCOUNTING I

An introduction to the fundamental principles and practices of financial accounting and the construction of financial statements.

Every Fall/3 hours

ACC 233 PRINCIPLES OF ACCOUNTING II *Every Spring/3 hours*

A continuation of **ACC 214**. An introduction to the fundamentals of managerial accounting as applied to the summarization and use of accounting data in the decision-making process. *Prerequisite:* ACC 213.

ACC 313 INTERMEDIATE ACCOUNTING I *Every Fall/3 hours*

An in-depth study of accounting theory and practice as related to assets and liabilities. *Prerequisite:* ACC 233.

ACC 323 INTERMEDIATE ACCOUNTING II *Every Spring/3 hours*

A continuation of **ACC 313**. Emphasis is placed on owners equity, special problems in income determination and financial reporting. *Prerequisite:* ACC 313.

ACC 433 COST ACCOUNTING *Every Spring/3 hours*
Principles of factory and distributive cost accounting, including process, job order, standard cost systems, and budgeting. *Prerequisite:* ACC 233.

ACC 443 INCOME TAX ACCOUNTING *Every Fall/3 hours*
Fundamentals of federal income taxation of individuals, partnerships and corporations. Basic research and tax planning methods. *Prerequisite:* ACC 233.

DEGREE REQUIREMENTS—ECONOMICS

Requirements for a minor in Economics*

ECO 213, 223 Survey and Principles of Economics 6 hours
Electives in Economics (6 hours upper division) 12 hours

* When a minor in another business area is taken with a major in Business, there is some duplication of requirements. A course involved in such a duplication is counted toward the minor only. The student takes sufficient electives in Business and Economics to satisfy the requirement of 42 hours in the Business major.

ECONOMICS

ECO 213 SURVEY OF ECONOMICS *Every Fall/3 hours*

A brief survey of basic economic concepts, principles, and business practices from a microeconomic approach. The course includes a preview 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.

ECO 223 PRINCIPLES OF ECONOMICS *Every Spring/3 hours*
A continuation of **ECO 213**. From a microeconomics approach covering prices and competition, nonprice competition, income distribution, current domestic problems, international trade, and comparative systems.

ECO 343 FAMILY FINANCIAL PLANNING *Every Fall/3 hours*
A study of standards of living related to income, expense, and occupation. A survey of consumerism directly related to consumer credit, savings, insurance, social security, health care, investments, taxes, estate planning, and purchasing a home. *Recommended prerequisite:* A survey course in economics.

ECO 363 MONEY AND BANKING

A general survey of commercial banking operations, the Federal Reserve System, the qualities of a good monetary system, the theory of value of money, money and banking history, deposit insurance, and foreign exchange. *Prerequisite: ECO 213.*

ECO 383 ECONOMIC HISTORY OF THE UNITED STATES

See **HIS 383** on page 114.

ECO 453 COMPARATIVE ECONOMIC SYSTEMS

A study of the forms of economic organization: the economic policy and obligations of capitalism, socialism, communism, and fascism. An analytical comparison of capitalism and the other economic systems. *Prerequisite: ECO 213.*

DEGREE REQUIREMENTS — TRAINING AND DEVELOPMENT

The College, in cooperation with the Valley of the Sun Chapter of the American Society for Training and Development, offers a B.S. degree in Training and Development. Grand Canyon was the first college in the United States to offer an undergraduate degree in this field.

Because hundreds of thousands of employees are now taking training in business and industry, there is a great need for training and development personnel to assist in these programs in business, industry, and government.

COURSE OF STUDY FOR A B.S. DEGREE IN TRAINING AND DEVELOPMENT**Professional Courses****I. Business (36 hours)**

BUS 102 American Business and Free Enterprise	3 hours
CS 133 Introduction to Computer Science	3 hours
ECO 213, 223 Survey and Principles	6 hours
BUS 333 Personnel Administration	3 hours ✓
BUS 373 Principles of Management	3 hours
BUS 453 Organizational Behavior	3 hours ✓
ECO 343 Family Financial Planning	3 hours ✓
BUS 343 Intro to Probability and Statistics	3 hours
Upper Division Business Electives*	9 hours
	<u>36 hours</u>

*Electives recommended:

BUS 323 Business Finance
BUS 393 Principles of Marketing
BUS 353 Business Law I
BUS 363 Business Law II
Advanced computer science courses

II. Training and Development (17 hours)

TD 303, 313 Training & Development Principles I, II	6 hours
TD 404, 414 Training & Development Internship I, II	8 hours
TD 323 Business Conference Leadership	3 hours
	<u>17 hours</u>

III. Education (12 hours)

EDU 363 Audio-Visual Materials & Methods	3 hours
AED 353 Survey of Adult Education	3 hours
AED 363 Principles of Teaching Adults	3 hours
SED 443 Methods/Curriculum	3 hours

IV. Psychology (9 hours)

PSY 213 General Psychology	3 hours
PSY 313 Educational Psychology	3 hours
PSY 343 Fundamentals of Counseling/Guidance	3 hours
*General Education, January Term, and Electives (should include SPC 113 - Fundamentals of Speech)	9 hours
Total Hours:	54 hours

Requirements for a minor in Training and Development

TD 303, 313 Training & Development Principles I, II	6 hours
AED 363 Principles of Teaching Adults	3 hours
PSY 313 Educational Psychology	3 hours
PSY 343 Fundamentals of Counseling & Guidance	3 hours
SED 443 High School Curriculum/Methods OR	
TD 404 or 414 Training & Development	3-4 hours
Internship I, II	
	18-19 hours

TRAINING AND DEVELOPMENT

TD 303**TRAINING AND DEVELOPMENT PRINCIPLES I***Every Fall/3 hours*

Provides initial exposure in some depth to specific areas of specialization, methods and techniques used by training and development professionals in business, industry, government agencies, and institutions of varied size.

TD 313**TRAINING AND DEVELOPMENT PRINCIPLES II***Every Spring/3 hours*

A continuation of **TD 303**. Giving the student a base of knowledge upon which to build a career in Training and Development or to understand the role of training as a tool of management. *Prerequisite:* TD 303.

TD 323**BUSINESS CONFERENCE LEADERSHIP***Fall, 1983 and alternate years/3 hours*

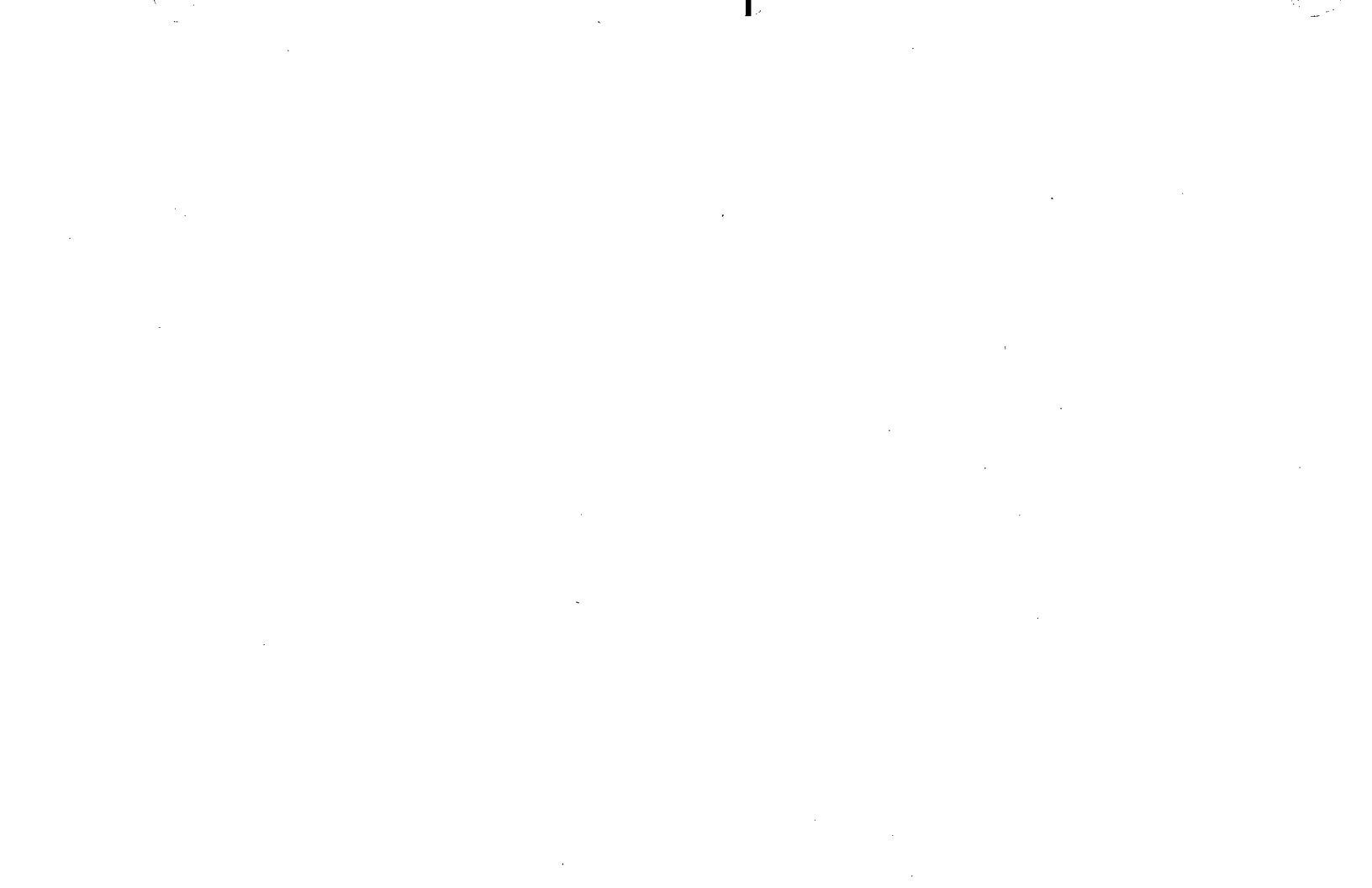
Teaches the competencies of leading a business conference and discussion groups, primarily as a learning device or for problem-solving.

TD 404**TRAINING AND DEVELOPMENT INTERNSHIP I***Every Fall/4 hours*

The student will be given an opportunity to practice the principles learned in TD Principles I and II by spending at least 8 hours a week in a department of training and development. *Prerequisite:* TD 313.

TD 414**TRAINING AND DEVELOPMENT INTERNSHIP II***Every Spring/4 hours*

The student will have further opportunity to work under the supervision of a training and development officer in an industrial company, a business, a hospital, or a government agency, depending upon one's special interest. *Prerequisite:* TD 313.



EDUCATION AND PSYCHOLOGY

Department Description

Teacher Education Curricula

Application Procedures

General Studies for Teacher Education Programs

Degree Requirements—Education

Fifth Year Program

Education

Elementary Education

Special Education

Secondary Education

Adult Education

Degree Requirements—Psychology

Psychology



DEPARTMENT DESCRIPTION

The preparation of teachers for the public/private schools of our nation is a significant responsibility of the Department of Education. The programs are designed in such a manner that the professional and academic competence of the graduate is prevalent in the classroom.

Courses offered in Psychology are designed to acquaint students with a

basic understanding of the complexities of human behavior. Career fields involve social work, church-related vocations, medicine, or business. While a major in psychology may provide a background for entrance into these career fields, the courses may be used as prerequisites for admission to a graduate program in the professional field of psychology.

TEACHER EDUCATION CURRICULA

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

Course work is offered leading to teaching programs in the following areas:

1. Elementary Education.
2. Special Education (Learning Disabilities and Emotional Handicaps).
3. Secondary Education, with certifiable majors in Art Education, Biology, Business, Chemistry, English, History, Mathematics, Music Education, Physical Education, Social Studies, and Theatre/Speech.

4. Endorsements (K-12) for Art, Music, and Physical Education. In order to qualify for an Endorsement, one must also have an Elementary Certificate or a Secondary Certificate. The Endorsement involves at least 40 semester hours in the specific teaching field. The methods of teaching in the specific teaching field at the elementary level and the secondary level must both be included in the 40 hours.

The teacher education program of Grand Canyon College is approved by the State Board of Education and leads to certification in the following manners:

Basic Certificate, Elementary or Secondary A person with a bachelor's degree may normally qualify for a basic certificate for teaching in the elementary or secondary schools of Arizona if he has 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.

Standard Certificate, Elementary or Secondary One who has already earned a bachelor's degree may normally qualify for a standard teaching certificate by completing at least 30 hours in upper division courses during a special Fifth Year Program designed by the chairman of the department in consultation with the student which will include prescribed professional courses. (See page 94.)

APPLICATION PROCEDURES

Eligibility

In order to become a candidate for teacher education, a student must have completed at least 58 semester hours of college work with a minimum grade point average of 2.50 on all work taken as well as a 2.50 in residence at Grand Canyon. In order to be accepted as a candidate for a secondary certificate, one must also have a 2.50 average in the teaching field; and one seeking K-12 subject endorsement must have a 2.50 average in the appropriate teaching field.

All candidates must have passed the English Usage Examination (see page 71).

Application for Teacher Education

After completing 58 semester hours, prospective candidates must make written application to the chairman of the Education Department for admission to the Teacher Education Program.

Applications are not processed until they are submitted in complete form and all supporting reference letters are received by the department. Applicants are responsible for any follow-up necessary for completing their application files. Completed applications are to be on file eight weeks prior to the beginning of the semester or term in which students plan to commence the teacher preparation program.

Students will be notified in writing as to the action taken on their applications by a screening committee representing the Education Department faculty subject to appeal to the Teacher Education Committee.

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 following co-courses: EED 323, 326/8, 363, 403, 433, 443; SED 326/8, 443, 452, 462.

Once accepted into the Teacher Education Program at Grand Canyon College, any subsequent courses the student may wish to transfer for purposes of meeting Departmental requirements for student teaching and/or certification may only be done with prior written permission of the Education Department faculty.

Elementary Education majors must have a total of 28 hours in their major taken in residence at Grand Canyon College. At least 12 of these hours have to be elementary education methods courses.

Secondary Education majors must have a total of 19 hours in Education taken in residence at Grand Canyon College. Either a methods course in their major field or a methods course in high school curriculum must be taken at Grand Canyon College.

Application for Student Teaching

All students who wish to be placed in student teaching must make written application. Appropriate forms are available from the Education Office, Room 116, Faculty Building. A 2.50 grade point average overall, a 2.50 at Grand Canyon College, and a 2.50 in the major area as well as a recommendation from the faculty are prerequisites.

Deadlines for applying for student teaching are as follows:

- To teach during Fall semester—April 15
- To teach during Spring semester—November 15
- To teaching during Summer session—March 15
(Available to Fifth Year students only.)

The appropriate time periods for student teaching are as follows:

1. Nine weeks of student teaching are required for certification in one area of teaching.
2. Twelve weeks of student teaching are required for certification in two areas of teaching.
3. Fifteen weeks of student teaching are required for certification in three areas of teaching.

Student Teaching Semester

The student teaching semester is offered on a "block" basis. The students complete 16 hours of course work in a single semester which is divided into two blocks. The first block lasts 6 weeks, during which time students take 8 hours of course work in professional education. The second block, of nine weeks duration, is reserved for student teaching and carries 8 hours of credit. Exceptions to the second block are made for students who are in the Fifth Year Program (see page 94). These students are given the option of taking 6 hours of student teaching, for a semester total of 14 hours.

Grand Canyon College provides experience in student teaching through an arrangement made with more than 60 school districts throughout the state.

Supervision of the student teacher is performed by the school to which the student is assigned. The evaluation of the student teacher's work is a dual responsibility, borne by the College and by the school in which the student teaching is done.

*ELEM 8
SEC 6*

ELEM - SEC 6

ELEM - LD - EH 5 5

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ELEM 6 LD EH 3 3*

GENERAL STUDIES—TEACHER EDUCATION PROGRAMS

BIB 113, 123 Old and New Testament History	6 hours
EEW 113, 123 Grammar, Composition, and Literature	6 hours
Art and/or Music (includes MUS 252 or AH 112)	4 hours
HIS 213, 223 American History	6 hours

45 hours

Program.

COURSES FOR ELEMENTARY CERTIFICATE (Grades K-8)

**

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

8 hours

2 hours

Elementary Education
Subject matter minor.

3 hours
3 hours
3 hours
3 hours
3 hours
3 hours

✱
✱

3 hours

3 hours

3 hours

3 hours

3 hours

EED 403 Math for Elementary Teachers	3 hours
EED 412 Decoding	3 hours
EED 433 Reading: Elementary School	3 hours
EED 443 Reading Practicum	3 hours
SPE 323 Orientation to Education of Exceptional Child	3 hours
SPE 333 Diagnosis of Learning Problems	3 hours
SPE 353 Survey of Learning Disabilities	3 hours
SPE 363 Methods of Teaching Children with Learning Disabilities	3 hours
Elective in Special Education	3 hours
EDU 313 Educational Psychology	3 hours
EDU 413 Tests and Measurements	3 hours
SPE 408 Student Teaching: Learning Disabilities	8 hours
EDU 320 Orientation to Student Teaching	2 hours
	<u>58 hours</u>

*Education Block—16 hours

**Prerequisite to all other education courses

COURSES FOR EMOTIONALLY HANDICAPPED AND ELEMENTARY CERTIFICATION (Grades K-12)

Requirements for a major in Special Education (B.S. Degree)

** EDU 303 Foundations of Education	3 hours
EDU 363 Audio-Visual Materials and Methods	3 hours
EED 323 Curriculum and Methods: Science	3 hours
EED 343 Communication Arts	3 hours
EED 363 Curriculum and Methods: Social Studies	3 hours
EED 403 Math for Elementary Teachers	3 hours
EED 412 Decoding	3 hours
EED 433 Reading: Elementary School	3 hours
EED 443 Reading Practicum	3 hours
SPE 323 Orientation to Education of Exceptional Child	3 hours
SPE 333 Diagnosis of Learning Problems	3 hours
SPE 383 Survey of Emotional Handicaps	3 hours
SPE 393 Methods of Teaching the Emotionally Handicapped Child	3 hours
Elective in Special Education	3 hours
EDU 313 Educational Psychology	3 hours
EDU 413 Tests and Measurements	3 hours
SPE 418 Student Teaching: Emotionally Handicapped	8 hours
EDU 320 Orientation to Student Teaching	2 hours
	<u>58 hours</u>

*Education Block—16 hours

**Prerequisite to all other education courses

COURSES FOR SECONDARY CERTIFICATE (Grades 7-12)

(Degree depends on Major)

** EDU 303 Foundations of Education	3 hours
EDU 363 Audio-Visual Materials and Methods	3 hours
SED 443 High School Curriculum and Methods	3 hours
Special methods in major teaching field (if available)	2-3 hours
SED 452 Reading in the Secondary School	3 hours
SED 462 Reading Practicum in Secondary School	3 hours

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* EDU 313 Educational Psychology	
EDU 413 Tests and Measurements	3 hours
SED 328 Student Teaching in Secondary School	3 hours
EDU 320 Orientation to Student Teaching	8 hours
	<u>2 hours</u>
	<u>31-34 hours</u>

*Education Block—16 hours

**Prerequisite to all other education courses

The student's major, required for graduation, is his major teaching field. Certifiable majors are listed on page 90.

The minor, also required for graduation, to be available for a secondary school teaching field,

must be 24 semester hours (20 in some cases), rather than the usual 18. A minor is not required for secondary certification for students majoring in art education or music education. 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 standard certification after successful completion of a

fifth-year program of at least 30 semester hours of upper division work in appropriate professional education, academic preparation, and/or supervised student teaching experience. Requirements for admission to the program are the same as those noted for degree candidates.

EDUCATION

EDU 103 READING SKILLS FOR SUCCESS IN COLLEGE

Every semester/3 hours each
Designed to reinforce the reading/learning skills needed for success in college courses. Emphasis is placed on comprehension, vocabulary building, improvement of reading rate, note taking, study skills, organization of time, and test-taking techniques.

EDU 113 READING SKILLS FOR SUCCESS IN COLLEGE

See EDU 103.

EDU 183 EXPLORING EDUCATION AS A CAREER

Every semester/3 hours
By observation and other direct experiences in the classroom, students see for themselves what working with children and young people involves. A minimum of 45 hours will be spent in the public school classroom.

EDU 303 FOUNDATIONS OF EDUCATION

Every semester and every Summer/3 hours
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 and should be taken during the sophomore year.

EDU 313 EDUCATIONAL PSYCHOLOGY

Every semester and every Summer/3 hours
Also **PSY 313**. A thematically arranged study of the theories and principles of psychology which have influenced learning and teaching techniques. Included are such topics as child development, learning, motivation, and evaluation. *Prerequisite: PSY 213.*

EDU 320 ORIENTATION TO STUDENT TEACHING

Every semester/2 hours
Designed for students who are enrolled in student teaching, to help prepare such students for their classroom experiences. Administrators and supervisors from public schools are invited to participate in this orientation as well as other professional personnel. Additional instruction is given by the faculty of the department.

EDU 363 AUDIO-VISUAL MATERIALS AND METHODS

Every semester and every Summer/3 hours
Also **REL 363**. A survey of the role of audio-visual aids projected and non-projected, in learning and communication, with emphasis on the selection, preparation, evaluation, and utilization of such materials and equipment.

EDU 413 TESTS AND MEASUREMENTS

Every semester and every Summer/3 hours
Deals with the philosophy of testing, the construction of tests, and the actual administration and interpretation of tests. Examination of sample tests. Students select either high school or elementary tests for study and engage in test construction in either field. *Prerequisites: EED 343 or SED 443.*

ELEMENTARY EDUCATION

EED 313 EARLY CHILDHOOD EDUCATION

Every Spring on demand/3 hours
Considers philosophy, principles, practices, and problems of curriculum at the nursery-kindergarten level. Approaches to creative teaching and learning through motivation, environmental changes, and experimentation.

EED 323 CURRICULUM AND METHODS: SCIENCE

Every semester and every Summer/3 hours
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. *Prerequisite: EDU 303 and a laboratory science course.*

EED 328 STUDENT TEACHING IN THE ELEMENTARY GRADES

Every semester/8 hours
The student is assigned to an approved school to serve as a teacher for half a semester under the supervision of an experienced teacher. *Prerequisites: 35 hours of required courses for elementary certificate, a 2.5 GPA, and admission to the elementary education program. Credit only. No grade is given.*

EED 343 COMMUNICATION ARTS IN THE ELEMENTARY SCHOOL

Every semester and every Summer/3 hours
Setting conditions for learning to teach listening, speaking and writing skills. Emphasis will be placed on cognitive, creative, and individual learning. Laboratory experiences. *Prerequisite: EDU 303.*

EED 363 CURRICULUM AND METHODS: SOCIAL STUDIES

Every semester and every Summer/3 hours
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. *Prerequisite: EDU 303.*

EED 373 CHILDREN'S LITERATURE AND STORY TELLING

Every Fall/3 hours
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 story telling are also studied.

EED 403 MATHEMATICS FOR ELEMENTARY TEACHERS

Every semester and every Summer/3 hours
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. *Prerequisite: MAT 113.*

EED 412 DECODING

Every semester and every Summer/3 hours
Designed to give teachers and prospective teachers a basic understanding of phonics, context clues, and morphology—with some discussion of sight vocabulary. The practical, rather than theoretical, will be stressed, with examples for classroom practice. *Prerequisite: EDU 303.*

EED 433 READING IN THE ELEMENTARY SCHOOL

Every semester and every Summer/3 hours
Techniques for teaching all aspects of reading with an emphasis on individualized reading, comprehension, thinking, and a life-long love of reading. Must be taken concurrently with EED 443. *Prerequisites: EDU 303, EED 343, EED 412.*

EED 443 READING PRACTICUM IN THE ELEMENTARY SCHOOL

Every semester and every Summer/3 hours
Designed to provide prospective elementary teachers with an intensive teaching experience over the length of one semester. Taken concurrently with EED 433. *Prerequisites: EDU 303, EED 343, EED 412.*

SPECIAL EDUCATION

SPE 323 ORIENTATION TO EDUCATION OF EXCEPTIONAL CHILDREN

Every Fall/3 hours
Introduction to the various categories of exceptionality, with their characteristics.

SPE 333 DIAGNOSIS OF LEARNING PROBLEMS

Every Spring/3 hours
Characteristics and uses of diagnostic instruments which can be used to identify and evaluate problems of students. *Prerequisite: SPE 323.*

SPE 353**SURVEY OF LEARNING DISABILITIES**

Developmental and observable characteristics of the child with learning disabilities, encompassing the many individual theories being applied to education of the special student. *Prerequisite: SPE 323.*

Every Fall/3 hours

SPE 363**METHODS OF TEACHING CHILDREN WITH LEARNING DISABILITIES**

Examines the methods of remediating learning dysfunctions which affect perception, integration, and expression. Emphasizes methods for planning and implementing instructional programs. *Prerequisite: SPE 333.*

Every Summer/3 hours

SPE 383**SURVEY OF EDUCATING CHILDREN WITH EMOTIONAL HANDICAPS**

A general study of characteristics of emotionally handicapped or socially maladjusted individuals and educational programs available for them. *Prerequisite: SPE 323.*

Every Spring/3 hours

SPE 393**METHODS OF TEACHING THE EMOTIONALLY HANDICAPPED CHILD**

Methods and techniques of planning and implementing instructional programs for children with emotional handicaps. *Prerequisite: SPE 323.*

Every Summer/3 hours

SPE 408**STUDENT TEACHING IN SPECIAL EDUCATION: LEARNING DISABILITIES**

A practicum course designed to give the student teacher experience in teaching children with learning disabilities. All-day assignment for nine weeks in an approved school. *Prerequisites: 50 hours of required courses for special education certificate, a 2.5 GPA, and admission to the teacher education program. Credit only. No grade is given.*

Every semester/8 hours

SPE 418**STUDENT TEACHING IN SPECIAL EDUCATION: EMOTIONALLY HANDICAPPED**

A practicum course designed to give the student teacher experience in teaching children with emotional handicaps. All-day assignment for nine weeks in an approved school. *Prerequisites: 50 hours of required courses for special education certificate, a 2.5 GPA, and admission to the teacher education program. Credit only. No grade is given.*

Every semester/8 hours

SECONDARY EDUCATION

SED 328**STUDENT TEACHING IN HIGH SCHOOL**

The student is assigned to an approved school to serve as a teacher for half a semester under the supervision of an experienced teacher. *Prerequisites: 23 hours of required courses for a secondary certificate, completed major, a 2.5 GPA, and admission to the teacher education program. Credit only. No grade is given.*

Every semester/8 hours

SED 443**CURRICULUM AND METHODS OF SECONDARY EDUCATION**

A study of the total environment of the secondary school. Consideration is given to teaching as a profession, planning instructional objectives and strategies, classroom management, and individualized instruction. Each student is given the opportunity to design a model curriculum in his respective field of study and to create a variety of teaching techniques which are appropriate expressions of his model. *Prerequisite: EDJ 303.*

Every semester and every Summer/3 hours

SED 452 READING IN THE SECONDARY SCHOOL

Every semester/3 hours

This course is designed to help secondary teachers become aware of and meet the needs for reading/learning skills or high school students. Taken simultaneously with SED 462. *Prerequisite: EDU 303.*

SED 462 READING PRACTICUM IN THE SECONDARY SCHOOL

Every semester/3 hours

This practicum is a school, centered experience designed to provide prospective junior high and high school teachers with an intensive involvement with students in developmental and remedial reading classes and/or one-to-one tutoring. The practicum is taken simultaneously with SED 452. *Prerequisite: EDU 303.*

ADULT EDUCATION

AED 353 SURVEY OF ADULT EDUCATION

Fall, 1982, and alternate years/3 hours

Historical development, objectives, scope, trends, and significance of adult education. Philosophy and trends of adult education in relation to desirable present and future local business and industry training programs as well as public school programs.

AED 363 PRINCIPLES OF TEACHING ADULTS

Spring, 1983, and alternate years/3 hours

Factors considered in establishing and developing adult education programs in schools, business, and industry.

DEGREE REQUIREMENTS – PSYCHOLOGY

Requirements for a major in Psychology

PSY 213 General Psychology	3 hours
PSY 253 Personality Development	3 hours
PSY 323 History and Systems, or PSY 303 Social Psychology	3 hours
PSY 363 Introduction to Probability and Statistics	3 hours
PSY 313 Educational Psychology	3 hours
PSY 367 Experimental Psychology	4 hours
PSY 403 Physiological Psychology	<u>3.4</u> hours
Upper division courses in Psychology	<u>9</u> hours
	<u>32</u> hours
	3 /

Requirements for a minor in Psychology

PSY 213 General Psychology	3 hours
PSY 253 Personality Development	3 hours
PSY 323 History and Systems, or PSY 303 Social Psychology	3 hours
Electives in Psychology <u>4D</u>	9 hours

See Department of History and Social Sciences for list of requirements for a major in Behavioral Science.

PSYCHOLOGY

PSY 213
GENERAL PSYCHOLOGY

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.

Every semester/3 hours

PSY 250
**HUMAN GROWTH
AND DEVELOPMENT**

A course in developmental psychology with emphasis on the physical, social, cognitive, personality and moral developments within an individual. The course is designed to provide an understanding of the transitions of life from conception to death.

Every semester/3 hours

PSY 253
PERSONALITY DEVELOPMENT

An analysis of personality and its development at different age levels in the personal life of the individual. Attention is further given to the application of theoretical concepts in beneficial interpersonal relationships for the student.

Every semester/3 hours

PSY 303
SOCIAL PSYCHOLOGY

See **SOC 303** on page 115.

PSY 313
EDUCATIONAL PSYCHOLOGY

See **EDU 313** on page 96.

PSY 323
**HISTORY AND SYSTEMS
OF PSYCHOLOGY**

A study of the origins, developments, influences, changes, and current systems of thought and experimentation in psychology. Normally taken by sophomores or juniors but may be taken by permission during the second semester of the freshman year by students who have made at least a "B" in PSY 213 during the first semester of their freshman year. *Prerequisite: PSY 213.*

Spring, 1983, and alternate years/3 hours

PSY 333
PSYCHOLOGY IN RELIGION

See **REL 333** on page 179.

PSY 343
**FUNDAMENTALS OF COUNSELING
AND GUIDANCE**

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 213.*

Every semester and every Summer/3 hours

PSY 353
CHILD PSYCHOLOGY

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. *Prerequisite: PSY 213.*

Every semester and every Summer/3 hours

PSY 363
INTRODUCTION TO PROBABILITY AND STATISTICS

See **MAT 263** on page 147.

PSY 367
**EXPERIMENTAL
PSYCHOLOGY**

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. *Prerequisite: PSY 213 and PSY 363.*

Summer 1983, and alternate years/4 hours

PSY 373
ADOLESCENT PSYCHOLOGY

An examination of the meaning and significance of adolescence; physical, mental, moral, and religious development; adolescent impulses, interests,

Every semester/3 hours

and social tendencies; the hygiene of adolescence; and the guidance and control of adolescent behavior. *Prerequisite:* PSY 213.

PSY 403

PHYSIOLOGICAL PSYCHOLOGY

Every Fall/4 hours ³

A laboratory course emphasizing the relationship between brain and behavior. Role of genetic, neural, hormonal, and physiological processes in sensation, perception, motivation, and learning will be discussed within the context of recent research. *Prerequisites:* PSY ~~364~~ and BIO 334, *must*

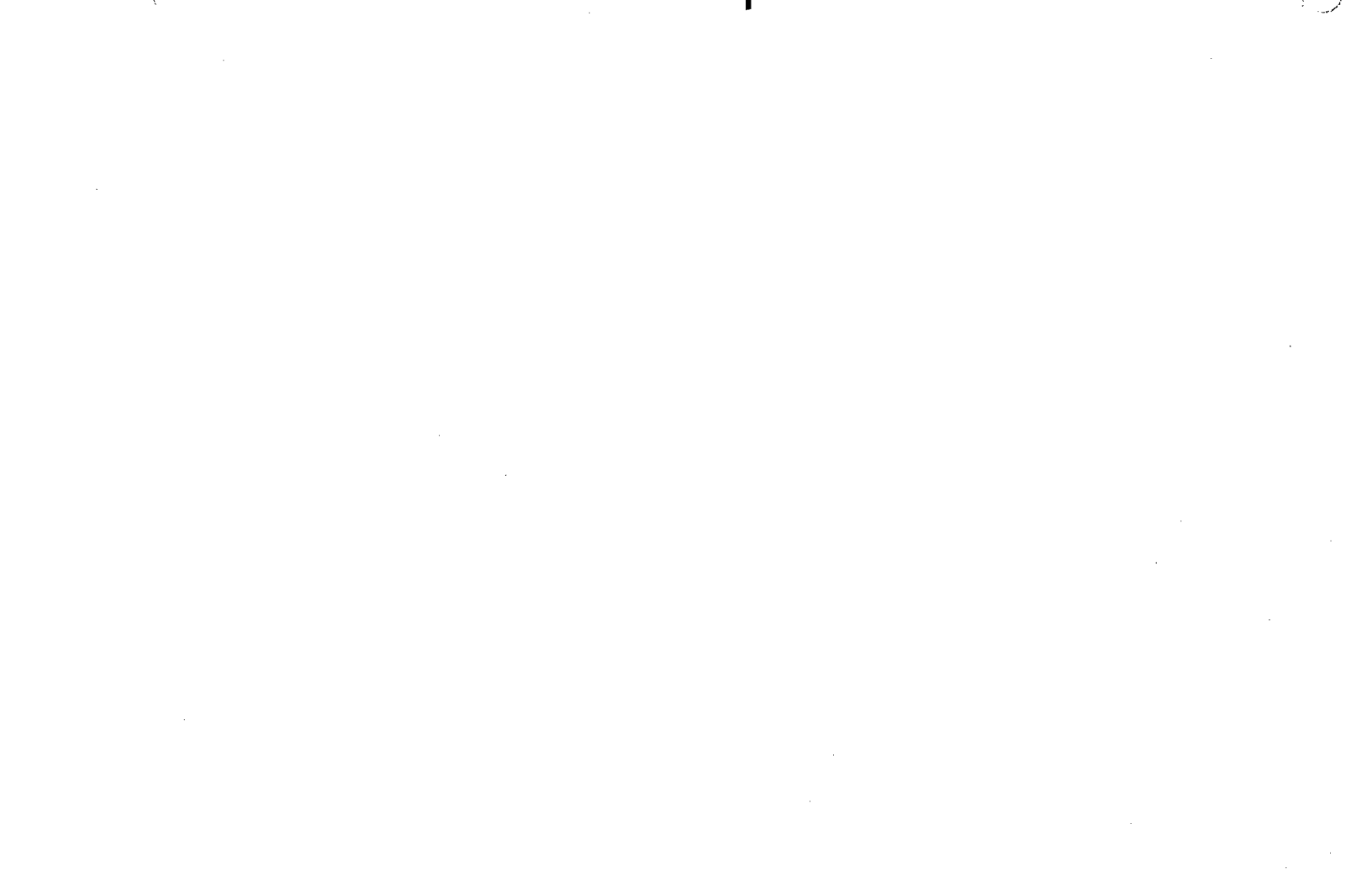
PSY 433

ABNORMAL PSYCHOLOGY

Fall, 1982, and alternate years/3 hours

Designed to help the student 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 213.

1983
To become a 3 HEC
not offered this fall
may take PSY 433
instead
see prev p. 11.



HEALTH AND PHYSICAL EDUCATION

Department Description

Degree Requirements—Health Education

Health Education

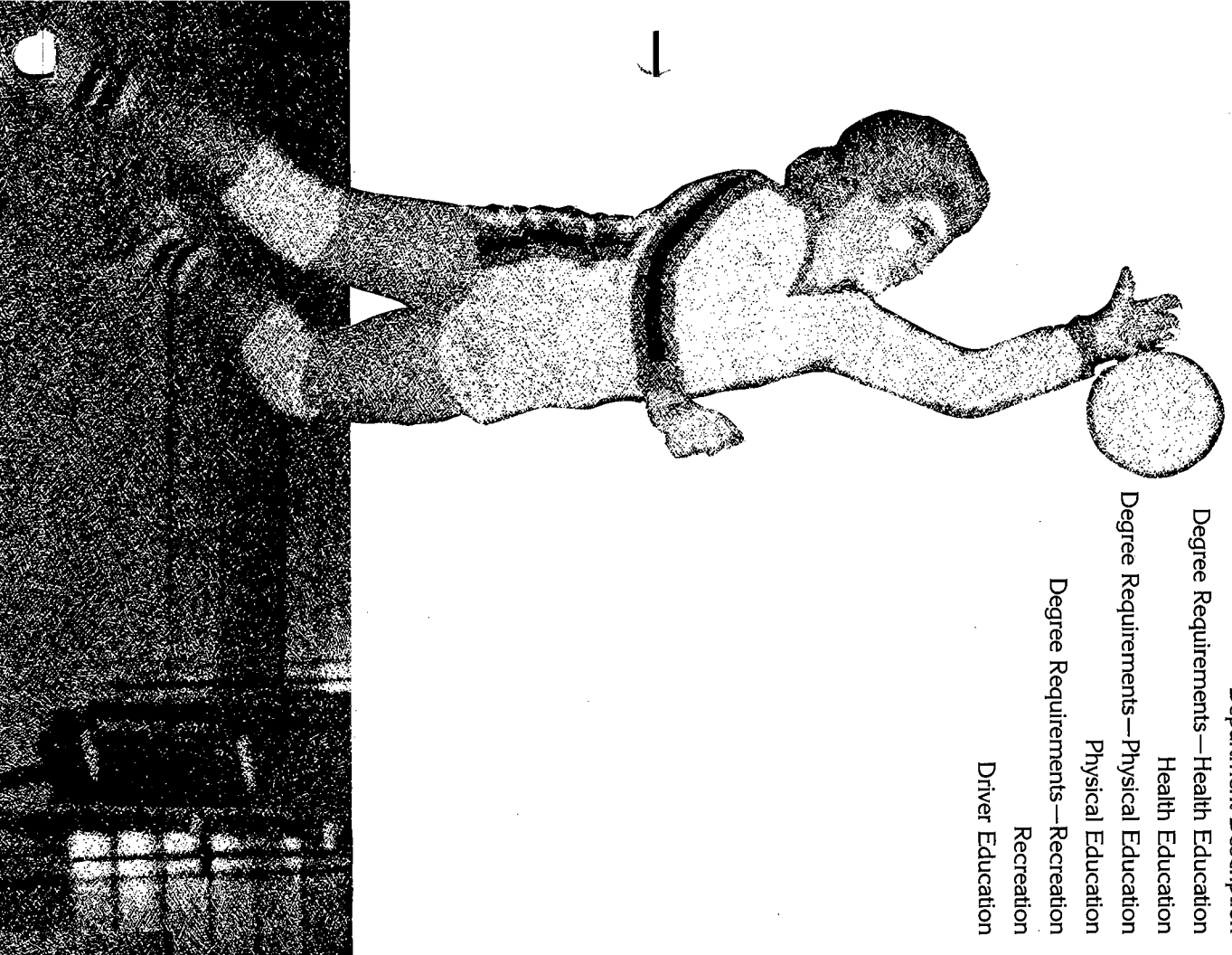
Degree Requirements—Physical Education

Physical Education

Degree Requirements—Recreation

Recreation

Driver Education



DEPARTMENT DESCRIPTION

The purpose of required physical education is to maintain the physical vitality of students and to develop interests and activities that will continue beyond school. The work includes conditioning exercises, individual activities, adult sports, etc.

Courses are provided to achieve the following aims: (1) to offer a varied program of physical activity which will contribute to the well-being of the students and (2) to train men and women as health and physical education teachers and coaches.

Upon written recommendation of a medical doctor and approval of the Department of Physical Education and the Academic Dean, a

three-hour course in physical education or health education may be substituted for the entire requirement in physical activity courses. Normally, one of the following courses suffices: PE 213, HLT 203, HLT 213.

Veterans of the armed services may receive up to four hours credit for physical education activity courses on the basis of military service. In general, one hour's credit for each 90 days of active service is allowed. This credit is not granted automatically to veterans. In order to establish the credit, the student must comply with instructions given by the Registrar's Office.

DEGREE REQUIREMENTS—HEALTH EDUCATION**Requirements for a minor in Health Education**

HLT 203 First Aid & Safety	3 hours
HLT 213 Personal Health	3 hours
HLT 333 School Health Problems	3 hours
HLT 343 Principles of Public Health	3 hours
HLT 353 Anatomy & Physiology	3 hours
HLT 363 Methods of Teaching	3 hours

HEALTH EDUCATION**HLT 203 FIRST AID AND SAFETY**

Designed to develop the ability to administer emergency treatment in accordance with recommendations of American Red Cross. Also a study of safety and its contributions to the health of the nation.

Every Fall/3 hours

HLT 213 PERSONAL HEALTH

A study of personal health concepts with emphasis on the importance of good health in the attainment of life's goals and aspirations.

Every Fall/3 hours

HLT 333 SCHOOL HEALTH PROBLEMS

An investigation of the health problems encountered in the school environment and the role of the school personnel in meeting these needs.

Every Spring/3 hours

HLT 343 PRINCIPLES OF PUBLIC HEALTH

Also **EVS 343**. 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.

Every Fall/3 hours

HLT 353

ANATOMY AND PHYSIOLOGY

Every Fall/3 hours

A study of the basic structures, functions, and various systems of the human organism by means of charts, models, and observations of laboratory techniques. *Prerequisite: PE 243.*

HLT 363

**METHODS OF
TEACHING HEALTH**

Every Spring/3 hours

A study of methods and procedures of teaching health. Resources, aids, and agencies are studied in an attempt to determine how they may best assist the teacher.

HLT 383

DRUG ABUSE SEMINAR See **SOC 383** on page 116.

HLT 399

PRACTICUM See page 66.

HLT 499

INDEPENDENT STUDY See page 66.

DEGREE REQUIREMENTS—PHYSICAL EDUCATION

Requirements for a major in Physical Education (B.S. Degree)

PE 101, 111, 121, 131, 201, 231, 241 (choice)	Any 4 hours
PE 243 History and Principles	3 hours
PE 282 Professional Activities	2 hours
PE 292 Professional Activities	2 hours
PE 313 Kinesiology	3 hours
PE 323 or 413 Methods	3 hours
PE 373 Recreation Administration	3 hours
PE 423 Organization and Administration	3 hours
Physical Education Electives	7 hours
HLT 353 Anatomy and Physiology	3 hours

Note: Students who wish to qualify for K-12 certificates must earn 40 hours which includes both PE 413 and 323.

Requirements for a minor in Physical Education

PE 101, 111, 121, 131, 201, 231, 241	Any 4 hours
PE 243 History and Principles	3 hours
PE 282 Professional Activities	2 hours
PE 292 Professional Activities	2 hours
PE 313 Kinesiology	3 hours
PE 323 or 413 Methods	3 hours
PE 423 Organization and Administration	3 hours
HLT 353 Anatomy and Physiology	3 hours

PHYSICAL EDUCATION

Courses taken to fulfill the

Physical Education activity requirement for graduation should be taken during the freshman and sophomore

years. There is no prerequisite and no particular order in which they need to be taken. Each class meets twice a week.

PE 101

SWIMMING

Instruction and practice in the skills of swimming.

Every semester/1 hour

PE 111

TENNIS

Instruction and practice in the fundamentals of tennis.

Every semester/1 hour

- PE 121 WEIGHTLIFTING AND FITNESS** *Every semester/1 hour*
Instruction and practice in the skills of weightlifting and of procedures necessary to maintain an accepted level of physical fitness.
- PE 131 TEAM SPORTS** *Every semester/1 hour*
Instruction and practice in softball, basketball, and volleyball.
- PE 201 BOWLING** *Every semester/1 hour*
Instruction and practice in the fundamentals of bowling.
- PE 213 RECREATIONAL ACTIVITIES** *Every Fall/3 hours*
Also **REC 213**. Games and contests for home, school, and community leisure time.
- PE 231 ARCHERY** *Every semester/1 hour*
Instruction and practice in the fundamentals of archery.
- PE 241 GOLF** *Every semester/1 hour*
Instruction and practice in stance, grip, stroke, teeing of the ball, and use of different clubs.
- PE 243 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION** *Every Fall/3 hours*
A study of the aims and objectives of physical education, of its standards, ideals, principles and policies, and of the place of physical education in modern life. The history of physical education is also studied, emphasizing leaders of the past and present.
- PE 282 PROFESSIONAL ACTIVITIES** *Every Fall/2 hours*
Individual and dual sports. Skills in physical education activities for the physical education major and minor. (Three class periods per week.)
- PE 292 PROFESSIONAL ACTIVITIES** *Every Spring/2 hours*
Team sports. Skills in physical education activities for the physical education major and minor. (Three class periods per week)
- PE 313 KINESIOLOGY** *Every Spring/3 hours*
A study of the location, mechanics, and action of the principal muscles of the body and their relation to the various types of physical skills.
Prerequisites: PE 243 and HLT 353.
- PE 323 PHYSICAL EDUCATION FOR ELEMENTARY GRADES** *Every Spring and every Summer/3 hours*
A study of the development of a program of physical activities adapted to the school situation and to the individual needs of the child.
- PE 333 ATHLETIC COACHING, BASKETBALL** *Every Spring/3 hours*
A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy.
- PE 343 SPORTS OFFICIATING** *Every Fall/3 hours*
A study of the rules and mechanics of officiating football, basketball, and baseball.
- PE 363 PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD** *Every Summer/3 hours*
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.
- PE 373 RECREATION ADMINISTRATION** *Every Spring/3 hours*
A study of the philosophy, scope, and basic values of recreation, its organization, and administration.

PE 383

ATHLETIC COACHING, BASEBALL

Every Fall/3 hours

A study of the fundamentals, drill habits, team organization, offensive and defensive play, and coaching philosophy.

PE 399

PRACTICUM See page 66.

PE 413

PHYSICAL EDUCATION IN SECONDARY SCHOOL

Every Fall/3 hours

Designed for persons who plan to teach physical education at the high school level. Topics include classification of students, organization of classes, choice and selection of appropriate activities and materials, progression, and testing. *Prerequisite: PE 243.*

PE 423

ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION

Every Spring/3 hours

Designed for majors in physical education. Deals with possible administrative problems in departments of physical education in all types of educational institutions. *Prerequisites: PE 243 and 413.*

PE 499

INDEPENDENT STUDY See page 66.

DEGREE REQUIREMENTS—RECREATION

Requirements for a minor in Recreation

REC 203 Introduction to Recreation	3 hours
REC 213 Recreation Activities	3 hours
REC 313 Outdoor Recreation	3 hours
REC 303 Church Recreation	3 hours
REC 373 Recreation Administration	3 hours
REC 403 Internship	3 hours

In addition to the above, the following courses are also required:

PE 282 Professional Activities	2 hours
PE 292 Professional Activities	2 hours
HLT 203 First Aid and Safety	3 hours

RECREATION

REC 203

INTRODUCTION TO RECREATION

Each Spring/3 hours

A course designed to introduce the student to the philosophy and early development of recreation in America. It is also structured to examine the role and status of the varied agencies engaged in recreation programs.

REC 213

RECREATIONAL ACTIVITIES

Each Fall/3 hours

See **PE 213** on page 106.

REC 303

CHURCH RECREATION

Each Fall/3 hours

Also **REL 302**. A course designed to give specific directions in program planning and techniques for setting up and implementing a total church recreation program.

REC 313

OUTDOOR RECREATION

Summer, January term or on demand/3 hours

A course designed to acquaint the student with the knowledge and experience of outdoor living. Camping, backpacking, and desert survival will be explored.

REC 373 RECREATION ADMINISTRATION

See **PE 373** on page 106. *Each Spring/3 hours*

REC 403 INTERNSHIP

Each Spring/3 hours
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. *Prerequisites: REC 203 and REC 273.*

DRIVER EDUCATION

DR 303

DRIVER EDUCATION

Every Spring/3 hours
Preparation of candidates for secondary school instruction in driver education. Classroom and in-car techniques of teaching beginning drivers. Traffic laws, analysis of traffic accidents, and automobile operation. Lecture and lab.

HISTORY AND SOCIAL SCIENCES

Department Description

Degree Requirements—Behavioral Sciences

Degree Requirements—Social Science

Degree Requirements—Government

Geography

Government

Degree Requirements—History

History

Degree Requirements—Sociology

Sociology

Degree Requirements—Criminal Justice

Criminal Justice



DEPARTMENT DESCRIPTION

History and the social sciences are inseparably related. History is largely the record and analysis of the social and political changes and conditions of man. The chief problems before men today, as in all the past, are economic and social. These make up the leading political questions. Geographical factors of spatial relations and economic resources of the earth have always been closely related to the historical development of all peoples and to the interrelationships of various peoples. As the numbers of men increase upon the earth and as struggle for land and

resources intensifies within and among nations, crime increases and the problem of criminal justice becomes more pressing.

Courses offered in this department are designed to equip students with basic knowledge and the sense of responsibility to function as effective citizens in an increasingly complex world, as well as to offer majors in some areas which will enable graduates who major in the department to enter advanced schools of professional preparation for teaching, social work, law, and criminal justice.

DEGREE REQUIREMENTS — BEHAVIORAL SCIENCES

Requirements for a major in Behavioral Sciences** (B.A. or B.S. Degree)

~ SOC 213 Principles of Sociology	3 hours
SOC 313 Cultural Anthropology or SOC 323 History of Social Thought	3 hours
~ PSY 213 General Psychology	3 hours
PHI 213 Introduction to Philosophy	3 hours
Electives in Criminal Justice, or Electives in Psychology, or electives in Sociology	18 hours
Regardless of which of these three areas of concentration is chosen, at least 9 hours must be upper division courses.	

Requirements for a minor in Behavioral Sciences**

SOC 213 Principles of Sociology	3 hours
SOC 313 Cultural Anthropology or SOC 323 History of Social Thought	3 hours
PSY 213 General Psychology	3 hours
PHI 213 Introduction to Philosophy	3 hours
Electives in Psychology or Sociology (upper division)	6 hours

**Not recommended for prospective teachers in secondary education.

DEGREE REQUIREMENTS — SOCIAL SCIENCE

Requirements for a major in Social Science (B.A. Degree)**

HIS 113, 123, and 233 History of Civilization I, II, and III	9 hours
HIS 213 and 223 Early and Recent American History	6 hours
SOC 213 Principles of Sociology and SOC 223 Social Problems	6 hours

GOV 303 Federal and Arizona Government	3 hours
ECO 213 Principles of Economics I	3 hours
Geography	3 hours
Upper division courses in Social Studies	9 hours

^{**}Not recommended for prospective teachers in secondary education.

Requirements for a minor in Social Science

HIS 113 and 123 Civilization I and II, or	
HIS 123 and 233 Civilization I and II, or	
HIS 213 and 223 Early and Recent American History	6 hours
SOC 213 Principles of Sociology	3 hours
GOV 303 Federal and Arizona Government	3 hours
ECO 213 Principles of Economics I	3 hours
Geography	3 hours

DEGREE REQUIREMENTS—GOVERNMENT

Requirements for a minor in Government

GOV 303 Federal and Arizona Government	3 hours
Electives in Government	15 hours

GEOGRAPHY

GEO 313 PHYSICAL GEOGRAPHY

Every Spring/3 hours
A geographic study of climate, topography, drainage, soils, and plant and animal life and their influence on man and on the development of civilization. The course includes laboratory work and field trips.

GEO 233 WORLD GEOGRAPHY

Every Fall/3 hours
A course for teachers. A study of the division of the physical environment and of the relationship of man to each division in the major geographic areas of the world. Curriculum and teaching techniques are stressed.

GOVERNMENT

GOV 303 FEDERAL AND ARIZONA GOVERNMENT

Every semester and every Summer/3 hours
A basic course in American and Arizona Governments. The course is designed to give the student a broad outline of the workings of the governments and to lay the groundwork for further studies. This course meets the teacher certification requirement for American and Arizona government.

GOV 313 COMPARATIVE GOVERNMENT

Spring, 1983, and alternate years/3 hours
A comparative study of the organization and operation of selected governments in the world today, with special attention given to the Soviet Union, England, France, and the United States. *Prerequisite:* 6 hours of history or government.

GOV 323 INTERNATIONAL RELATIONS

Fall, 1982, and alternate years/3 hours
A study of the history of international politics, contemporary world power structure, and international law and organization. *Prerequisites:* 6 hours of history and government.

GOV 325 COMPARATIVE REVOLUTIONS See **HIS 323** on page 113.

GOV 333

EARLY POLITICAL THOUGHT

Fall, 1982, and alternate years/3 hours
A study of the evolution of European and American political doctrines, with special attention given to the men and the forces producing them. A study of the theories and historical emergence of such concepts as absolutism, natural rights, and democracy. From classical origins through the 18th century enlightenment. *Prerequisite: 6 hours of history or government.*

GOV 343

CONTEMPORARY POLITICAL THOUGHT

Spring, 1983, and alternate years/3 hours
A continuation of **GOV 333**. Deals with the men and ideas which have affected government in the 19th and 20th centuries. Special attention is given to American political thought and to the study of socialism, communism, and fascism in the modern world. *Prerequisite: GOV 333 or sufficient work in history or philosophy to provide an adequate background.*

GOV 352

FEDERAL GOVERNMENT

Every semester and every Summer/2 hours
The first half of **GOV 303**, a survey of American Government. This half meets the teacher certification requirement for American Government.

GOV 362

ARIZONA GOVERNMENT

Every semester and every Summer/2 hours
The second half of **GOV 303**, a survey of Arizona History and Government. This half meets the teacher certification requirements for Arizona government.

GOV 393

AMERICAN DIPLOMATIC HISTORY

Spring, 1984, and alternate years/3 hours
Also **HIS 393**. 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: 6 hours of history or government.*

GOV 423

CONSTITUTIONAL HISTORY OF THE UNITED STATES

Spring, 1983, and alternate years/3 hours
Also **HIS 423**. A study of the origin, development, interpretations, and amendments to the United States Constitution. Special emphasis is given to the interpretations of the Constitution by the courts. *Prerequisite: 6 hours of history or government.*

DEGREE REQUIREMENTS — HISTORY

Requirements for a major in History (B.A. Degree)

HIS 113, 123, and 233 History of Civilization I, II, and III 9 hours
HIS 213 and 223 Early and Recent American History 6 hours
*Electives in History (12 hours upper division) 15 hours

*There may be electives of 6 hours from History 473, Government 313, 323, 333, 343.

Requirements for a minor in History

HIS 113, 123, and 233 History of Civilization I, II, and III 9 hours
HIS 213 and 223 Early and Recent American History 6 hours
Upper division courses in History 6 hours

HISTORY

HIS 113

HISTORY OF CIVILIZATION I (TO THE RENAISSANCE)

Every semester/3 hours
Designed to introduce the student to the origin and early development of Western civilization, with attention given to the cultural, political, and socioeconomic factors. Non-Western civilizations are also considered.

HIS 123

HISTORY OF CIVILIZATION II (RENAISSANCE TO 1815)

Every semester/3 hours
A continuation of **HIS 113**. The Renaissance and Reformation are studied and related to the transition from medieval to early modern culture. Attention is given to the rise of the centralized national state, to the rise and decline of absolutism, and to intellectual, political, and industrial revolutions of Europe and their impact upon the world into which Europe expanded.

HIS 233

HISTORY OF CIVILIZATION III (SINCE 1815)

Every semester/3 hours
A continuation of **HIS 113** and **123**. A more detailed study of the swiftly changing tide of events that characterize the revolutionary world of today. Special attention is given to the evolving split between democracy and totalitarianism. Emphasis is placed on the role of the United States in the 20th century.

HIS 213

EARLY AMERICAN HISTORY

Every semester/3 hours
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 223

RECENT AMERICAN HISTORY

Every semester/3 hours
A continuation of **HIS 213**. Deals with the 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 303

BAPTIST AND AMERICAN CHURCH HISTORY

On demand/3 hours
Also **REL 303**. A continuation of **HIS 353**. Follows the progress of the Christian movement from Europe to the American colonies. The major emphasis is on the development of Baptists and Evangelical Christianity in the United States.

HIS 313

HISTORY OF ENGLAND TO 1714

Fall, 1982, and alternate years/3 hours
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: History 113 and 123, or permission of instructor.*

HIS 314

MODERN BRITAIN

Spring, 1983, and alternate years/3 hours
A study of the significant political, economic, and social developments of 18th, 19th, and 20th century Britain, with particular attention given to the factors which contributed to Britain's position as a leading power in the 19th century and its decline from that position in the 20th century.

HIS 323

COMPARATIVE REVOLUTIONS

Fall, 1982, and alternate years/3 hours
Also **GOV 325**. A study of the English, American, French, and Russian revolutions and a comparison of these with recent revolutions. *Prerequisites: HIS 113 and 123.*

HIS 333**THE RENAISSANCE AND REFORMATION**

A study of changing European institutions in the age of the Renaissance: the rise and various manifestations of humanism; the religious and political revolt against Rome; Catholic and Counter Reformations; rise of nationalism and capitalism. *Prerequisite: HIS 113.*

Fall, 1983, and alternate years/3 hours

HIS 353**CHURCH HISTORY**

Also **REL 353**. A survey of the history of the various church groups through which the Christian religion has made its appeal to mankind and the world, with special emphasis upon the fragmentation of organized religion in the 17th century the rise of the major Protestant groups, and the missionary activities of the 19th and 20th centuries.

Every Fall/3 hours

HIS 373**LATIN AMERICAN HISTORY**

A study of the conquest and development of Central and South America by the Spanish and the Portuguese, including colonial systems, institutions, regional differentiation, and the wars of independence. Latin American republics from the era of independence to the present. *Prerequisite: 6 hours of history.*

Spring, 1984, and alternate years/3 hours

HIS 383**ECONOMIC HISTORY OF THE UNITED STATES**

Also **ECO 383**. A study of the economic development of the nation in agriculture, manufacturing, commerce, transportation, money and banking, labor organization, and labor legislation. *Prerequisites: ECO 201 and HIS 213 and 223.*

Fall, 1982, and alternate years/3 hours

HIS 393**AMERICAN DIPLOMATIC HISTORY**

See **GOV 393** on page 112.

HIS 413**RUSSIA AND EASTERN EUROPE**

A study of the Russian peoples and their rulers from the earliest times to the present, including the development of a Russian *volksgeist*, with its autocracy, sadness, violence, and national aspirations. Russian expansion during the Romanov period, the Near East in its relations with Russia, the Bolshevik Revolution, and Soviet Russia. *Prerequisites: HIS 113 and 123.*

Fall, 1983, and alternate years/3 hours

HIS 423**CONSTITUTIONAL HISTORY OF THE UNITED STATES**

See **GOV 423** on page 112.

HIS 443**TWENTIETH CENTURY EUROPE**

A study of World War I and its aftermath in Europe; the peace treaties; interdependence of political and economic factors in the 20 years following, which contributed to the renewal of war; developments of World War II; and the United Nations and contemporary efforts to establish peace. *Prerequisites: HIS 113 and 123.*

Spring, 1983, and alternate years/3 hours

HIS 445**PROBLEMS IN EUROPEAN HISTORY**

A study of eight to ten major problems in European history. Emphasis will be on historiography and analysis. *Prerequisites: HIS 113 and 123.*

Spring, 1984, and alternate years/3 hours

HIS 473**THE TEACHING OF SOCIAL STUDIES**

A methods course designed primarily for persons who are planning to teach history, political science, or related social studies subjects at the secondary level. Attention is given to the obtaining of material for presentation and to the effective methods of presentation. *Prerequisite: Approval of instructor.*

Summer, 1983, and alternate years/3 hours

HIS 493 THE WEST IN AMERICAN HISTORY *Spring, 1983, and alternate years/3 hours*

A study of the westward movement: the advancing frontier and western political, economic, and social development from the colonial period to the 20th century. *Prerequisites: HIS 213 and 223.*

HIS 499 INDEPENDENT STUDY See page 66. *Every semester*

DEGREE REQUIREMENTS—SOCIOLOGY

Requirements for a Major in Sociology (B.S. Degree)

SOC 213 Principles of Sociology and	6 hours
SOC 223 Social Problems	3 hours
SOC 323 History of Social Thought	3 hours
SOC 373 Social Research	18 hours

Requirements for a minor in Sociology

SOC 213 Principles of Sociology and	6 hours
SOC 223 Social Problems	12 hours

SOCIOLOGY

SOC 213 PRINCIPLES OF SOCIOLOGY *Every Fall/3 hours*

A study of persons and their world: the social processes, including cooperation, conflict, accommodation, and assimilation and the means of social integration, including the various institutions such as the family, the school, the church, business, and the state.

SOC 223 SOCIAL PROBLEMS *Every Spring/3 hours*

Also **EVS 223.** A general study of the problems caused by dependents, defectives, and delinquents, and by the existence of intemperance, war, family disorganization, crime, and poverty. *Prerequisite: SOC 213.*

SOC 303 SOCIAL PSYCHOLOGY *Every Spring/3 hours*

Also **PSY 303.** 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 213 or SOC 213.*

SOC 313 CULTURAL ANTHROPOLOGY *Every Fall/3 hours*

Also **EVS 313.** A study of social cultures which have developed in human society. Attention is given to primitive 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.

SOC 323 HISTORY OF SOCIAL THOUGHT *Every Spring/3 hours*

A study of social thought from ancient to modern man. This course investigates the background of modern sociology as it has been influenced by outstanding social thinkers. *Prerequisite: SOC 213.*

SOC 333 MARRIAGE AND THE FAMILY*Every Fall/3 hours*

A sociological analysis of the family, designed to contribute to an understanding of its origin, structure, and functions and to present material of a practical nature which will help young people who are seeking guidance in the choice of a partner and in the adjustments necessary to successful marriage and family life. *Prerequisite:* SOC 213 or junior standing.

SOC 343 JUVENILE DELINQUENCY*Every Spring/3 hours*

A study of the extent and nature of juvenile delinquency; the social and personal factors related to the development of delinquent habits and the techniques for dealing with the delinquent and for redirecting youth behavior into more desirable patterns. *Prerequisite:* SOC 213 or junior standing.

SOC 353 THE MODERN CITY*Every Fall/3 hours*

Also **EVS 353**. An analysis of the evolution of the city, together with the specific problems encountered in the process. An examination of the role of the church in this process will be considered. Urban renewal and projected plans for the city of the future will also be of concern.

SOC 362 INTRODUCTION TO PROBABILITY AND STATISTICSSee **MAT 263** on page 147.**SOC 373 SOCIAL RESEARCH***On demand/3 hours*

Investigation of and involvement in techniques of social research, including hypothesis construction and testing, research design, collection and analysis of data and presentation of research results.

SOC 383 DRUG ABUSE SEMINAR*Every Spring/3 hours*

Also **HLT 383**. Information presented concerns the problems of drug abuse and approaches toward solutions of those problems. Pharmacology and epidemiology of drug use; psychological, legal, social and cultural implications; and principles of program planning.

SOC 384 HUMAN ECOLOGY See **EVS 384** on page 144.**SOC 399 PRACTICUM** See page 66.*Every semester/1-4 hours***SOC 423 AMERICAN MINORITY PEOPLES***Every Fall/3 hours*

A study of the various minority groups in the United States and their sociological significance in our national group and culture. The blacks, Indians, Orientals, Mexicans, Jews, foreign-born, and war refugees are studied. The history and present status of American immigration policy are also considered.

DEGREE REQUIREMENTS—CRIMINAL JUSTICE

Requirements for a major in Criminal Justice (B.S. Degree)

Phase I — Core Courses

CJ 200	Introduction to the Criminal Justice System	3 hours
CJ 201	Issues in Criminal Justice	3 hours
CJ 380	Theory of Criminal Justice	3 hours
CJ 440	Criminal Justice Management	3 hours

Phase II — Fifteen hours should be taken from the following:

CJ 461	Substantive Criminal Law	3 hours
CJ 462	Procedural Criminal Law	3 hours
CJ 463	Discretion in the Criminal Justice Process	3 hours

- CJ 306 Police Function 3 hours
- CJ 308 Adjudication Function 3 hours
- CJ 310 Corrective Function 3 hours
- CJ 360 Law and Social Control 3 hours
- CJ 480 Criminal Justice Education 3 hours

Phase III – Six hours

- CJ 400 Internship in Criminal Justice 3 hours
- CJ 499 Independent Study 3 hours

A minor in one of the following fields is strongly recommended:

- Behavioral Science
- Business
- Education
- Psychology
- Recreation
- Religion
- Sociology

Requirements for a minor in Criminal Justice

- CJ 200 Introduction to the Criminal Justice System 3 hours
- CJ 201 Issues in Criminal Justice 3 hours
- CJ 380 Theory of Criminal Justice 3 hours
- CJ 440 Criminal Justice Management 3 hours
- CJ 400 Internship in Criminal Justice 3 hours

Nine hours from the following:

- CJ 306 Police Function 3 hours
- CJ 308 Adjudication Function 3 hours
- CJ 310 Correction Function 3 hours
- ~~CJ 463~~ Discretion in the Criminal Justice System 3 hours
- CJ 462 Procedural Criminal Law 3 hours
- CJ 461 Substantive Criminal Law 3 hours
- CJ 480 Criminal Justice Education 3 hours
- CJ 360 Law and Social Control 3 hours

BUS 353

CRIMINAL JUSTICE

CJ 200

INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM

Every Fall/3 hours
Overview of the criminal justice system. Roles of law enforcement personnel, the courts, and correctional agencies. Philosophical and theoretical views in historical perspective.

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CJ 201

ISSUES IN CRIMINAL JUSTICE

Every Spring/3 hours
Issues relating to criminal justice policies, perspectives, techniques, roles, institutional arrangements, management, uses of research, innovative patterns. *Prerequisite: CJ 200 or approval of instructor.*

CJ 306**THE POLICE FUNCTION**

Alternative objectives, strategies, programs, institutional arrangements, roles, perspectives, and interagency relationships of the police.
Prerequisites: CJ 200, CJ 201 or approval of instructor. *On demand/3 hours*

CJ 308**THE ADJUDICATION FUNCTION**

Objectives, processes, settings, roles, and perspectives of the courts, prosecution and defense. *Prerequisites:* CJ 200, CJ 201, or approval of instructor. *Spring, 1984, and alternate years/3 hours*

CJ 310**THE CORRECTIONAL FUNCTION**

Alternative correctional objectives, strategies, programs, institutional arrangements, roles, perspectives and interagency relationships. *Prerequisites:* CJ 200, CJ 201, or approval of instructor. *On demand/3 hours*

CJ 360**LAW AND SOCIAL CONTROL**

Resolution of social issues through the application of law as an agent of social control. Nature, sanctions, and limits of law. Categories of law and schools of jurisprudence. *Prerequisites:* CJ 200, CJ 201, or approval of instructor. *On demand/3 hours*

CJ 380**THEORY OF CRIMINAL JUSTICE**

A conceptual examination of the criminal justice system. Integration of contemporary thought into an operational frame of reference. *Prerequisites:* CJ 200, CJ 201, and one upper division criminal justice course or approval of instructor. *On demand/3 hours*

CJ 400**INTERNSHIP IN CRIMINAL JUSTICE**

Assignments in a criminal justice agency designed to further the student's integration of theory with practice. Placements are arranged through consultation with students and agencies. *Prerequisite:* Junior standing and completion of criminal justice required courses; CJ 200, CJ 201, or approval of instructor. *On demand/3 hours*

CJ 440**CRIMINAL JUSTICE MANAGEMENT**

System-wide analysis of organizational structures. Management and administrative policies of criminal justice agencies—law enforcement, courts and corrections. *Prerequisites:* CJ 200, CJ 201, and one upper division criminal justice course or approval of instructor. *On demand/3 hours*

CJ 461**SUBSTANTIVE CRIMINAL LAW**

Criminal liability. Crimes against persons, property, and society. Governmental sanctions of individual conduct as formulated by legislatures and the courts. *Prerequisites:* CJ 360 or approval of instructor. *On demand/3 hours*

CJ 462**PROCEDURAL CRIMINAL LAW**

The criminal process. Constitutional and legal problems associated with criminal procedures. Due process of law. *Prerequisite:* CJ 360 or approval of instructor. *Spring, 1984, and alternate years/3 hours*

CJ 463**DISCRETION IN THE CRIMINAL JUSTICE PROCESS**

Use of discretionary authority throughout all phases of the criminal justice system. Cross-purpose effect of discretionary justice. Constitutional limitations on and judicial review of discretionary authority. *Prerequisite:* CJ 360 or approval of instructor. *Spring, 1984, and alternate years/3 hours*

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CJ 463

CJ 480

CRIMINAL JUSTICE EDUCATION

On demand/3 hours

Development and philosophy of criminal justice education and training. Problems of curriculum development and evaluation. Examination and evaluation of teaching methodologies and instructional aids. *Prerequisite: Approval of instructor.*

CJ 497

SPECIAL TOPICS IN CRIMINAL JUSTICE

On demand/3 hours

Topics chosen from various fields of criminal justice. *Prerequisites: CJ 200, CJ 201, and one upper division criminal justice course or approval of instructor.*

CJ 498

PRO-SEMINAR

On demand/3 hours

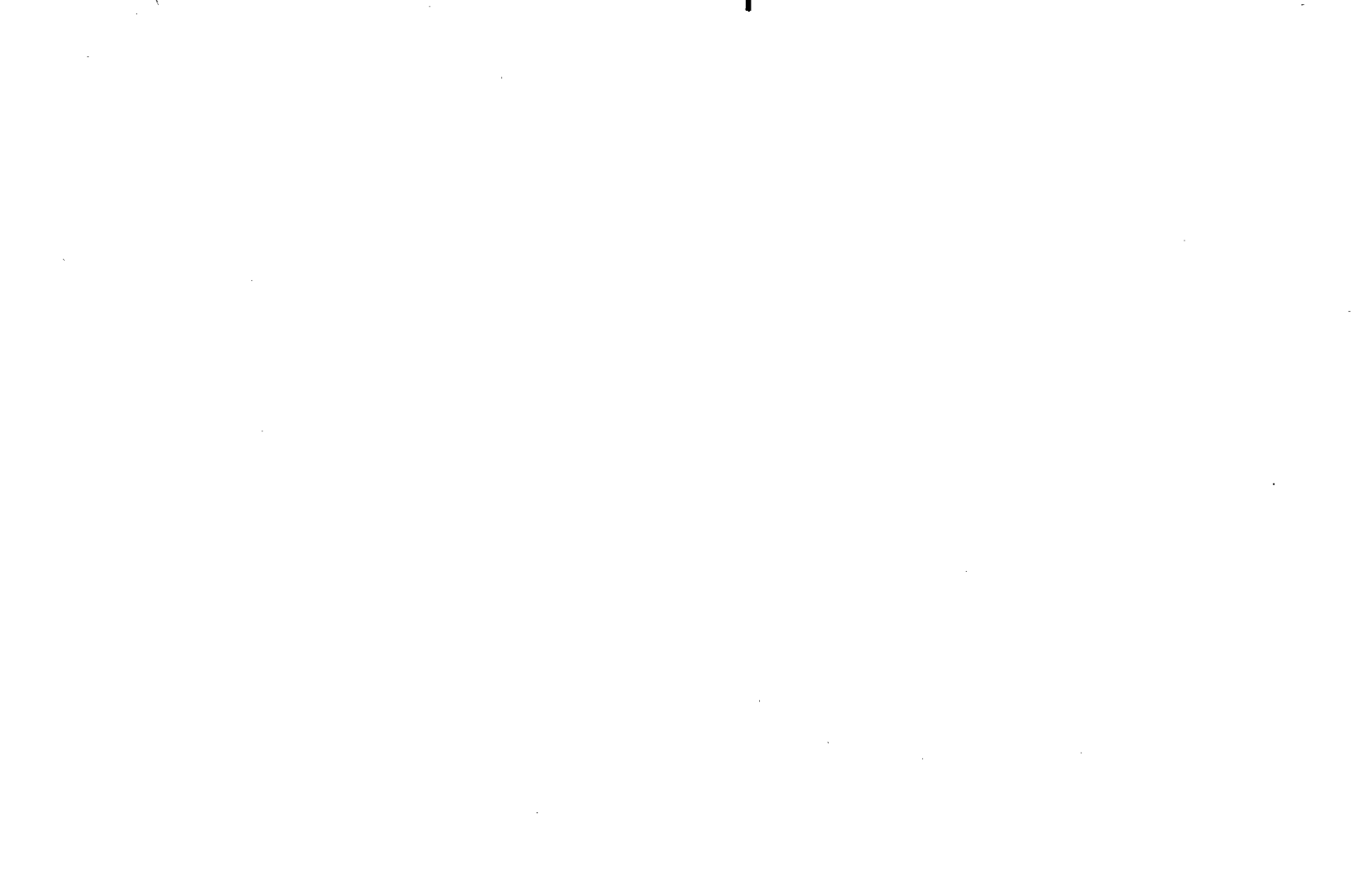
Small group study and research for advanced students. *Prerequisites: CJ 200, CJ 201, and one upper division criminal justice course or approval of instructor.*

CJ 499

INDEPENDENT STUDY

On demand/3 hours

Original study or investigation in the advanced student's field of interest. *Prerequisites: CJ 200, CJ 201, and one upper division criminal justice course or approval of instructor.*



HUMANITIES

Department Description

Degree Requirements—Art

Art History

Studio Art

Design Studio

Art Education

Degree Requirements-English

English Literature

American Literature

English Writing

Language Grammar

Genre Courses

Single Author

English Teaching

Journalism

Degree Requirements-Modern Languages

French

German

Spanish



DEPARTMENT DESCRIPTION

Courses in the humanities aid students in the career of living by acquainting them with the highest expression of man's feelings and thoughts. Active contact with mankind's ideas and accomplishments provides the enrichment of mind necessary to living a full and

satisfactory life. This contact also supplies knowledge vitally needed for survival in a complex and rapidly changing world. For this reason, the department emphasizes direct experience with literature, language, art and writing.

DEGREE REQUIREMENTS-ART

Courses in the art department 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. All lower division courses are open to any student, with no prerequisite.

Requirements for a major in Studio Art (B.A. Degree, no minor required)

AH 333, 343, 353, 363 Art History	12 hours
AH 373 Aesthetics	3 hours
AR 203 Drawing I	3 hours
DGN 243, 253 Two- and Three-Dimensional Design	6 hours
AR 243 Photography I	3 hours
AR 213, 223, 253, 263, 273, 283	6 hours
AR 303, 313, 323, 343, 353, 363, 373, 383	3 hours
AR 393 Art Seminar <i>or</i> # 332	2 hours
AR 481 Studio Problems	9 hours
DGN 481 Design Problems	9 hours
AR 431 Portfolio	4 hours
	<u>60 hours</u>

Entrance into the Studio Art major will require taking courses: Drawing I, 2-D and 3-D Design and 3 hours in selected concentration area. The student must have a "B" average in

the prerequisite courses listed. A faculty review (full time art faculty) will determine whether the student is suited to this type of educational alternative.

Requirements for a general major in Art* (B.A. Degree)

AH 333, 343 Art History I, II	6 hours
AH 353 American Art, or AH 363 Contemporary Art	3 hours
AH 373 Aesthetics	3 hours
AR 203 Drawing I	3 hours
DGN 243, 253 Two- and Three-Dimensional Design	6 hours
AR 213, 223, 253, 263, 273, 283	6 hours
AR 303, 313, 323, 353, 363, 373, 383	3 hours
AR 431 Portfolio Competence	4 hours
AR 481 Studio Problems and Techniques	4 hours
DGN 481 Design Problems and Techniques	4 hours
	<u>42 hours</u>

Requirements for a major in Art with emphasis on Teaching* (B.A. Degree)

A minor is not required for students receiving secondary certification.

AH 333, 343 Art History I, II	6 hours
AR 183 Media and Methods of Art	3 hours
AR 203 Drawing I	3 hours
DCGN 243, 253 Two- and Three-Dimensional Design	6 hours
AR 213, 223, 253, 263, 273, 283	12 hours
AE 303, 423 Art in Elementary and High School	6 hours
AE 443 Art Curriculum and Supervision	3 hours
Upper Division Art elective	<u>3 hours</u>
	42 hours

*Either major requires a minimum of 18 hours upper division courses.

Requirements for a minor in Studio Art /

AR 203 Drawing I	3 hours
DCGN 243 or 253 (depending on concentration area)	3 hours
AH 333, 343, 353, 363	3 hours
AR 213, 223, 243, 253, 263, 273, 283	3 hours
AR 303, 313, 323, 343, 353, 363, 373, 383	3 hours
AR 481 or DGN 481	<u>3 hours</u>
	18 hours

Requirements for a general minor in Art

AR 183 Media and Methods of Art	3 hours
AR 203 Drawing I	3 hours
DCGN 243 Two-Dimensional Design	3 hours
DCGN 253 Three-Dimensional Design	3 hours
AH 333, 343 Art History I, II; AH 353, 363 American Art, Contemporary Art	3 hours
Upper division elective	<u>3 hours</u>
	18 hours

Requirements for a teaching minor in Art

AR 183 Media and Methods of Art	3 hours
AR 203 Drawing I	3 hours
DCGN 243, 253 Two and Three-Dimensional Design	6 hours
AE 303 Art in the Elementary School	3 hours
AE 323 Crafts for the Elementary Teacher or	
AE 423 Art in the High School	3 hours
AH 333, 343, 353, 363	3 hours
Upper division elective	<u>3 hours</u>
	24 hours

ART HISTORY

AH 112 INTRODUCTION TO ART

Every semester/2 hours

A brief introduction to the act of making quality judgements about art objects and situations. Special emphasis on the meaning of art as it relates to other personal interests of each individual. Actual art projects, art history and appreciation will be explored. No credit for art major or minor.

- AH 333 ART HISTORY I**
Fall, 1982, and alternate years/3 hours
 A survey of ancient Near Eastern, Egyptian, Greek, Roman, and Medieval European art to the Renaissance.
- AH 343 ART HISTORY II**
Spring, 1983, and alternate years/3 hours
 A survey of Occidental Art during the Renaissance, Mannerist, Baroque, Rococo, Neo-classic, Romantic, and Modern epochs.
- AH 353 AMERICAN ART**
Fall, 1983, and alternate years/3 hours
 History of art in the United States from European settlement of the New World to today.
- AH 363 CONTEMPORARY ART**
Spring, 1984, and alternate years/3 hours
 Recent and current trends in art with special consideration of new concepts and experimentation with media and modes of presentation.
- AH 373 AESTHETICS I**
Fall, 1982, and alternate years/3 hours
 An introduction to aesthetics from historical, philosophical, and theoretical frames of reference. Provides an overview of major ideas relating to art and criticism from the time of Plato through prespace-age twentieth century.

ART STUDIO

- AR 183 MEDIA AND METHODS OF ART**
Every Fall/3 hours
 This course functions as a survey of various processes and materials of art for the student with limited experience. Consideration is given to the use of simple and inexpensive equipment which could be used in establishing a home art studio.
- AR 203 DRAWING I**
Every Fall/3 hours
 Development of skills in basic techniques of drawing and their application to current systems of pictorial organization.
- AR 213 CRAFTS I**
Fall, 1982, and alternate years/3 hours
 An exploratory approach to traditional and contemporary crafts, such as batik, off-loom weaving, ceramics, and metal casting.
- AR 223 PRINTMAKING I**
Every Spring on demand/3 hours
 An introduction to the basic process of printmaking. Includes serigraphy, relief, and intaglio techniques.
- AR 243 PHOTOGRAPHY I**
Every semester/3 hours
 An introduction to black and white photography exploring basic techniques in camera operation, film and print processing, composition and presentation. Lecture and darkroom laboratory periods.
- AR 253 JEWELRY I**
Every Fall/3 hours
 An introduction to the tools and materials of jewelry making, with an emphasis on the procedures of fabrication, casting and stonemaking. Both traditional and contemporary designs and materials will be explored.
- AR 263 CERAMICS I**
Every semester/3 hours
 An introduction to the nature of clay and glazes, with an emphasis being placed on the forming techniques of handbuilding and the use of the potter's wheel.

HR 335 - BAITIK

AR 273 **SCULPTURE I** *Every semester/3 hours*
An introduction to the sculpting processes of carving, modeling, and fabricating; emphasizing volume, movement, and space.

AR 283 **PAINTING I** *Every Spring/3 hours*
An introduction to the techniques and processes of painting, including composition, color, and technical skills of preparing and using equipment.

AR 303 **DRAWING II** *Every Spring or on demand/3 hours*
Concentration on the development of skill in drawing techniques. Includes introduction to varied drawing materials and drawing in color. *Prerequisite:* AR 203.

AR 313 **CRAFTS II** *Fall, 1982, and alternate years/3 hours*
Continued in-depth exploration of one or more crafts, such as off-loom weaving, batik and metal casting. *Prerequisite:* AR 213.

AR 323 **PRINTMAKING II** *Every Spring on demand/3 hours*
Provides exposure in some depth to the process of printmaking. *Prerequisite:* AR 223.

AR 353 **JEWELRY II** *Every Spring/3 hours*
A continuation of the techniques of jewelry making with advanced problems in fabrication and casting. Enameling, forging, chasing and repousse will be introduced. *Prerequisite:* AR 253.

AR 363 **CERAMICS II** *Every semester/3 hours*
Continued studio problems in the process of forming clay. Emphasis is also placed on glaze application and surface decoration. *Prerequisite:* AR 263.

AR 373 **SCULPTURE II** **Every Fall/3 hours*
Continued exploration of sculpting processes of casting, welding, and plastics. *Prerequisite:* AR 273.

AR 383 **PAINTING II** **Spring, 1983, and alternate years/3 hours*
Provides exposure in some depth to specific areas of the techniques and processes of painting. *Prerequisite:* AR 283.

AR 393 **ART SEMINAR** *Every Fall/3 hours*
A discussion oriented class introducing the concept of the professional artist and his dealings with galleries and museums, graduate school, resume and portfolio requirements.

AR 403 **LIFE DRAWING** *On demand/3 hours*
Development of skill in drawing the basic form, construction, and gesture, from the human figure; emphasizes anatomical structure. *Prerequisites:* DGN 243 and AR 303 or approval of instructor.

AR 431 **PORTFOLIO COMPETENCE** *By arrangement/1-4 hours*
The student will prepare and present a showing of upper division art in area of concentration along with a slide portfolio and resume. This course will also include inquiry into promotional, legal, and contractual arrangements for the artist.

AR 481 **STUDIO PROBLEMS AND TECHNIQUES** *By arrangement/1, 2, 3, 4 hours*
Advanced studio problems in the medium of the student's choice. *Prerequisite:* Approval of instructor only.

DESIGN STUDIO

- DGN 243 TWO-DIMENSIONAL DESIGN** *Every Fall/3 hours*
Basic principles of the structural aspects of graphic arts are explored in laboratory and lecture. Also explores the communicative value of visual images.
- DGN 253 THREE-DIMENSIONAL DESIGN** *Every Spring/3 hours*
Explores basic principles of the structural aspects of plastic arts, with emphasis on the analysis of volume and space relationships.
- DGN 481 DESIGN PROBLEMS AND TECHNIQUES** *By arrangement/1, 2, 3, 4 hours*
Advanced design problems in the medium of the student's choice. By approval of instructor only.

ART EDUCATION

- AE 303 ART IN THE ELEMENTARY SCHOOL** *Every Spring/3 hours*
Emphasis on self-understanding through the use of art, concurrent with the study of the art work of children of all ages from early childhood to mid-adolescence.
- AE 323 CRAFTS FOR THE ELEMENTARY TEACHER** *Every Summer/3 hours*
Practical laboratory experiences stressing inexpensive and salvage materials that children can use. Combinations of materials and specific knowledge of papier-mache, collage, block printing, clay modeling, plaster carving, etc.
- AE 353 ART FOR THE SPECIAL CHILD** *On demand/3 hours*
Emphasis on situations and materials designed to give special education students motor and visual perception experiences which are appropriate for the student's special learning problems.
- AE 423 ART IN THE HIGH SCHOOL** *Fall, 1983, and alternate years/3 hours*
Exploration of materials, theory, and organization for presenting art activities and development in the arts for students on the secondary school level.
- AE 443 ART CURRICULUM AND SUPERVISION** *Fall, 1982, and alternate years/3 hours*
Exploration of theory, materials, organization, methods, and curriculum for the art educator or consultant. The art educator's responsibility in human relations and communications.

DEGREE REQUIREMENTS--ENGLISH

The instruction given in English has three objectives — two of them for every student who attends Grand Canyon College and the third specifically for those students who possess or develop a major interest in language and literature. The first objective is that the student may acquire a command of clear and effective English, spoken and written,

that will prepare one to assume a responsible position in the American community. The second objective is the development of the ability to read good literature with appreciation and enjoyment and with an awareness of the values presented. The third objective, for the major in English, is a more specific study of the skills and knowledge involved in the first two

objectives. The student who has majored in English should be equipped to write effectively and imaginatively and should have a

knowledge of the authors whose works illustrate the development of English and American language and literature.

Requirements for a major in English (B.A. Degree)

Students who major in English have a choice of three areas of emphasis: literature, writing, and teaching.

English major with emphasis on Literature

The English literature major shall consist of EEL 213 and EEL 223 plus 24 additional hours, of which 15 must be upper division. The department urges English majors to include a foreign language in their programs. Most graduate schools prefer French or German. The upper division work must include one course from each of the following groups:

I. American Literature:

EAL 313, 323 American Literature

II. Genre Courses:

ETL 333 The Short Story

ETL 413 The Novel

ETL 403 20th Century Literature and the Christian Faith

III. Period Courses:

EEL 373 English Literature of the 18th Century

EEL 383 Romantic Period in English Literature

EEL 463 Poetry of the Victorian Period

IV. Writing and Language:

EEW 343 Advanced Composition

EEW 483 Seminar in Writing

EEW 323 Writing for Publication

EEW 453 Creative Writing

ELG 363 Advanced Grammar

V. Single Author:

EMA 423 Shakespeare

EMA 443 Major Author Seminar

EMA 463 Selected Writings of C.S. Lewis

English major with emphasis on Writing

The English writing major shall consist of EEW 113 and EEW 123, and 24 hours chosen from the following courses:

EEW 313 Business and Technical Writing

EEW 343 Advanced Composition

EEW 483 Seminar in Writing (may be repeated for a

maximum of 6 hours)

EEW 323 Writing for Publication (may be repeated for a

maximum of 6 hours)

EEW 453 Creative Writing (may be repeated for a maximum of 6 hours)

ETL 333 The Short Story

ETL 413 The Novel

JRN 213, 313 Small Newspaper

3 hrs 213

Recommended electives for this major include:

January Term Photography
 DRA 198 Acting I
 CS 113 Introduction to Computer Science
 AR 203 Drawing I
 DGN 243 1 Dimensional Design

English major with emphasis on Teaching

The English teaching major shall consist of the following courses:

EEL 213, 223 English Literature	6 hours
EAL 313, 323 American Literature	6 hours
EMA 423 Shakespeare	3 hours
ELG 363 Advanced Grammar	3 hours
EEW 343 Advanced Composition, EEW 483 Seminar in Writing, EEW 323 Writing for Publication, EEW 453 Creative Writing	3 hours
EEL 373 English Literature of 18th Century, EEL 383 Romantic Period of English Literature, EEL 463 Poetry of Victorian Period, ETL 333 The Short Story, ETL 413 The Novel, EMA 443 Major Author Seminar	9 hours
	30 hours

Requirements for a teaching minor in English

(24 hours meet the North Central requirements for secondary school teachers)

EEW 113 Grammar & Composition, EEW 123 Composition and Literature	6 hours
EEL 213, 223 English Literature I, II	6 hours
EAL 313, 323 American Literature I, II Upper division electives in English	6 hours 24 hours

Requirements for a minor in English

EEW 113 Grammar & Composition, EEW 123 Composition and Literature	6 hours
EEL 213, 223 English Literature I, II Upper division electives in English	6 hours 18 hours

Requirements for a minor in Communications

Group I: English Writing	
EEW 313 Business and Technical Writing	6-12 hours
EEW 343 Advanced Composition	
EEW 453 Creative Writing	
EEW 483 Seminar in Writing	
Group II: Speech (From Performing Arts Dept.)	
SPC 318 Voice and Diction	6-12 hours
SPC 398 Communications and the Media	
SPC 311 Advanced Public Speaking	
SPC 378 Oral Interpretation of Literature	18 hours

ENGLISH LITERATURE

EEL 213

ENGLISH LITERATURE

Every Fall/3 hours

A study of English literature from the Old English period through the Neoclassic period with consideration given to its social and biographical context.

EEL 223

ENGLISH LITERATURE

Every Spring/3 hours

A continuation of EEL 213. Covers the period from the Romantic period to modern era.

EEL 373

ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY

Fall, 1982, and alternate years/3 hours

A study of selections from the writers of the Restoration period through the 18th century. The most important prose and poetry of the period are examined.

EEL 383

THE ROMANTIC PERIOD IN ENGLISH LITERATURE

Fall, 1983, and alternate years/3 hours

A study of much of the poetry and prose produced in England between 1798 and 1832.

EEL 463

POETRY OF THE VICTORIAN PERIOD

Spring, 1984, and alternate years/3 hours

A comparative study of the significant poets and poetry of the Victorian period. The course attempts to interpret the temper and spirit of the age as well as the individuality and merit of each author.

AMERICAN LITERATURE

EAL 313

AMERICAN LITERATURE

Fall, 1983, and alternate years/3 hours

A study of the background and national development of American literature. Emphasizes the outstanding authors of each period and their representative works for the colonial age and the period of the Republic through the middle of the 19th century.

EAL 323

AMERICAN LITERATURE

Spring, 1984, and alternate years/3 hours

A continuation of EAL 313, emphasizing the prose and poetry since the middle of the 19th century.

ENGLISH WRITING

EEW 113

GRAMMAR AND COMPOSITION

Every semester and every Summer/3 hours

A course in the writing of clear and effective prose, emphasizing fluency, structure, and correctness.

EEW 123

COMPOSITION AND LITERATURE

Every semester and every Summer/3 hours

The work involves a variety of expository techniques based on the students' readings and a research paper. *Prerequisite: EEW 113.*

EEW 313

BUSINESS AND TECHNICAL WRITING

Fall, 1983, and alternate years/3 hours

A course designed to present the best practices in writing business communications and technical reports.

EEW 323 WRITING FOR PUBLICATION *Every semester, on demand/3 hours*
 A course designed for persons who want to translate the urge to write into a finished manuscript. The emphasis will be on non-fiction writing. May be repeated for a maximum of 6 hours.

EEW 343 ADVANCED COMPOSITION *Spring, 1983, and alternate years/3 hours*
 A course for students interested in writing who wish to develop their skills in critical and non-fiction writing.

EEW 453 CREATIVE WRITING *Fall, 1982, and alternate years/3 hours*
 A course for students who are particularly interested in writing fiction or poetry. May be repeated for a maximum of 6 hours.

EEW 483 SEMINAR IN WRITING *Spring, 1984, and alternate years/3 hours*
 A course planned for students who have shown exceptional ability in writing and who are interested in independent research or creative writing. May be repeated for a maximum of 6 hours.

LANGUAGE GRAMMAR

ELG 363 ADVANCED GRAMMAR *Spring, 1983, and alternate years/3 hours*
 A study of syntax, form, and mechanics of English grammar in the light of its historical background.

GENRE COURSES

ETL 333 THE SHORT STORY *Spring, 1983, and alternate years/3 hours*
 A study of the short story, its development, the different types and an analysis of technique.

ETL 343 TWENTIETH CENTURY LITERATURE AND THE CHRISTIAN FAITH *Fall, 1982, and alternate years/3 hours*
 Also **REL 343**. A study of selected works that represent important developments in 20th century literature and their relation to Christianity.

ETL 413 THE NOVEL *Spring, 1984, and alternate years/3 hours*
 A study of the development of the novel in British and American literature.

SINGLE AUTHOR

EMA 423 SHAKESPEARE *Fall, 1983, and alternate years/3 hours*
 A study of the major Shakespearean comedies and tragedies as well as Shakespeare's development as a dramatist.

EMA 443. MAJOR AUTHOR SEMINAR *Spring, 1983, and alternate years/3 hours*
 A study of the life and works of a significant literary figure, selected according to the instructor's areas of specialization.

EMA 463 SELECTED WRITINGS OF C. S. LEWIS *Fall, 1982, and alternate years/3 hours*
 A study of Lewis' best-known writings with emphasis on his religious non-fiction and fiction.

ENGLISH TEACHING

EET 473 THE TEACHING OF ENGLISH

On demand, by reading and conference/3 hours
A methods course designed primarily for persons who are planning to teach English at the secondary level. Attention is given to content, but especially to the organization of material for effective presentation.

JOURNALISM

JRN 213 SMALL NEWSPAPER

only 3 hrs L.D.A. On demand/3 hours
A course that presents the principles of journalism as they apply to the small newspaper. Laboratory experience provided by the college paper.

JRN 313 SMALL NEWSPAPER

A continuation of JRN 213.

DEGREE REQUIREMENTS—MODERN LANGUAGE

The study of modern languages enlarges the students' awareness and appreciation of other cultures by helping them to develop tools of language which will enable them to pursue new interests. The materials and methods of presentation employed by the department are grounded in the belief that there is a high degree of correlation between one's appreciation of other cultures and one's ability to use their languages.

May count to HES in MAJOR AS JR YEAR ENGL 499
upon the completion of the second semester's work.

In evaluating high school work in a language, the individual instructor determines the level at which students should begin their college languages.

Fourteen hours of one language (or equivalent) are recommended for B.A. degree programs.

Language courses should be taken consecutively.

Edmund
The College grants credit for the first semester of language only

Requirements for a minor in Spanish

SPA 114, 124 Elementary Spanish
SPA 213, 223 Intermediate Spanish
SPA 343, 413

8 hours
6 hours
6 hours

Students who wish to expand the Spanish minor into a major may complete such a major by transferring approved upper division courses from a regionally accredited college

or university and/or through independent study. All such programs must be approved, in advance, by the major professor the department chairperson and the Academic Dean.

Minors in French and German

By special arrangement with the appropriate professor and with the approval of the department chairman, a student may obtain a minor in French or German. Such a minor would require a minimum of eighteen

semester hours, at least six being upper division obtained through independent study or transferred from another accredited college or university.

FRENCH

- FR 114 ELEMENTARY FRENCH**
A study stressing conversation and the fundamentals of grammar, pronunciation, and composition, together with graded reading.
Fall, on demand/4 hours
- FR 124 ELEMENTARY FRENCH**
A continuation of **FR 114**. *Prerequisite: FR 114 or equivalent.*
Spring, on demand/4 hours
- FR 213 INTERMEDIATE FRENCH**
Review, composition, conversation, and extensive reading. *Prerequisite: FR 124.**
Fall, on demand/3 hours
- FR 223 INTERMEDIATE FRENCH**
A continuation of **FR 213**.
Spring, on demand/3 hours

GERMAN

- GER 114 ELEMENTARY GERMAN**
A program of individualized study using a text-workbook, practice tapes, films, computer practice, and classroom experience to develop the fundamentals of hearing, speaking, reading, and writing.
Fall, on demand/4 hours
- GER 124 ELEMENTARY GERMAN**
A continuation of **GER 114**. *Prerequisite: GER 114 or equivalent.*
Spring, on demand/4 hours
- GER 213 INTERMEDIATE GERMAN**
Reading of appropriate German texts, study-review of grammar, and practice in conversation to increase fluency in the basic skills. *Prerequisite: GER 124.**
Fall, on demand/3 hours
- GER 223 INTERMEDIATE GERMAN**
A continuation of **GER 213**.
Spring, on demand/3 hours

SPANISH

- SPA 114 ELEMENTARY SPANISH**
A study stressing conversation and the fundamentals of grammar, pronunciation, and composition, together with cultural and historical readings and lessons.
Every Fall/4 hours
- SPA 124 ELEMENTARY SPANISH**
A continuation of **SPA 114**. *Prerequisite: SPA 114 or equivalent.*
Every Spring/4 hours
- SPA 213 INTERMEDIATE SPANISH**
Grammar review, conversation, composition, and the reading of suitable texts. *Prerequisite: SPA 124.**
Every Fall/3 hours

SPA 223 INTERMEDIATE SPANISH

A continuation of SPA 213.*

Every Spring/3 hours

SPA 343 SPANISH COMPOSITION THROUGH LITERATURE

A course designed to give the student practice in writing in Spanish about

Every Fall/3 hours

Spanish literature and current issues.

SPA 413 SPANISH LITERATURE

Designed to expand the students' knowledge of Spanish literature and civilization and to advance their reading competence. Emphasis on oral self-expression.

Every Spring/3 hours

*Upon recommendation of the instructor, a student may enroll in intermediate language courses as 4/hour courses, in which case special projects will be required.

BA.

MAJOR 30 HRS 24 HRS UPPER DIV.

SPA 213, 223 (6)

SPA 343 (3)

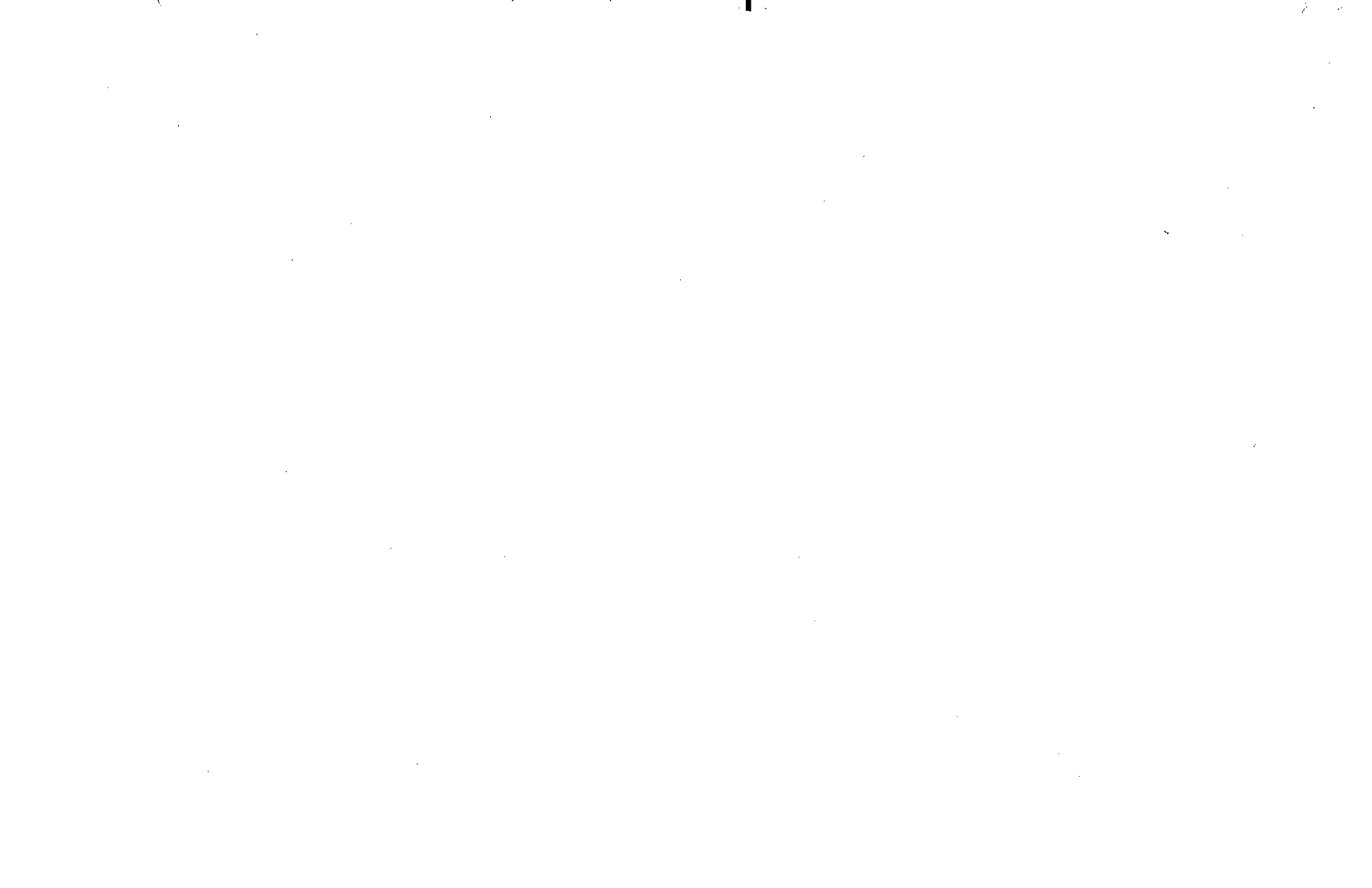
SPA 325 (INTRO TO SPA LIT.) (3)

SPA 4 ADV. COM & LIT (3)

SPA 4 ADV. SPA GRAM (3)

SPA 4 MASTERPIECES OF SPA LIT (3)

REMAINING MUST BE USED BY STUDENTS BEFORE.



NATURAL SCIENCES AND MATHEMATICS

Department Description

Program Schedules

Requirements—Pre-Medical

General Studies

Math Sciences

Degree Requirements—Biology

Biology

Degree Requirements—Chemistry

Chemistry

Degree Requirements—Environmental Science

Environmental Science

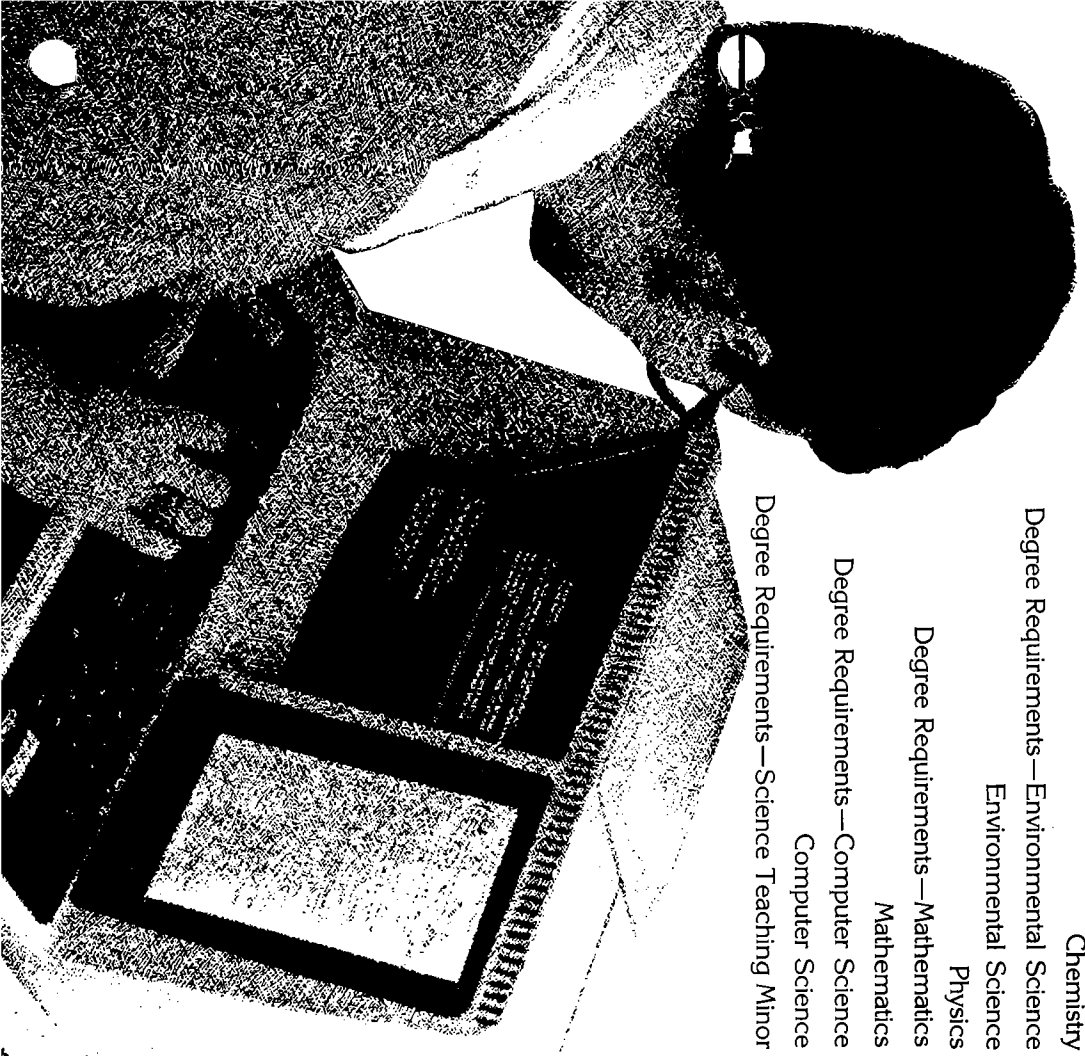
Degree Requirements—Mathematics

Mathematics

Degree Requirements—Computer Science

Computer Science

Degree Requirements—Science Teaching Minor



Fall Semester**Spring Semester****ENVIRONMENTAL SCIENCE MAJOR****Freshman**

BIB 113
EEW 113
PE Activity 1
BIO 101*

BIB 123
EEW 123
PE Activity 1
BIO 214*

Sophomore

History Elective 3
PE Activity 1
EVS 264
EVS 234
CHE 114*

History Elective 3
PE Activity 1
EVS 384
CHE 124*

Junior

Art or Music 2
EVS 364
CHE 314*
Math Elective 3*

EB3 374
EVS Elective 4
Math Elective 3*

Senior

EVS 464

EVS Elective 4

MATHEMATICS MAJOR**Freshman**

BIB 113
EEW 113
PE Activity 1
MAT 153

BIB 123
EEW 123
PE Activity 1
MAT 163

Sophomore

History Elective 3
PE Activity 1
MAT 223
MAT 213*
Computer Sci. 3
PHY 114

History Elective 3
PE Activity 1
MAT 233
PHY 124

Junior

Art or Music 2
MAT 333 or 433
MAT 373*

MAT 343 or 413
MAT 363

Senior

MAT 333 or 433

MAT 343 or 413

COMPUTER SCIENCE MAJOR**Freshman**

BIB 113
EEW 113
CS 113
CS 203
PE Elective

BIB 123
EEW 123
CS 213
PE Elective

Sophomore

History Elective
PE Elective
CS 301

History Elective
PE Elective
CS 403 or 413

Junior

Art or Music
CS 310 or 332
CS 403 or 430

Speech Elective
CS 403 or 420
Math Elective

	Fall Semester	Spring Semester
Senior	CS 310 or 332 CS 420 or 430 Math Elective	CS 420 CS 480 CS Elective

REQUIREMENTS—PRE-MEDICAL

Requirements for Pre-Medicine, Pre-Dentistry, Pre-Veterinary Medicine, or Pharmacy

Students who plan to apply for admission to medical, dental, veterinary medicine, or pharmacy schools may major in any field but should complete the following courses:

BIO 214 Zoology	4 hours
CHE 114, 125 General Chemistry	8 hours
CHE 324, 325 Organic Chemistry	8 hours
PSY 114, 115 General Physics	8 hours
MAT 153, 163 Calculus	6 hours

Since other courses may be required by particular schools, students are encouraged to determine these requirements early in their undergraduate careers. The department recommends electives from the following list: BIO 324, 334, 344, 444; CHE 314, 354, 424, 434; PSY 213; SOC 213.

GENERAL STUDIES

The purpose of the Scientific Foundations of Life in General Studies (see pages 73 and 74) is to provide each student with the opportunity to study the basic concepts of science and mathematics as they apply to everyday life, and to study in some depth at least one area of science through the completion of a laboratory experience. A student may accomplish these goals through the successful completion of any mathematics course and any laboratory science course including SCI 114.

MATH-SCIENCE

SCI 114 SCIENCE FOR LIBERAL ARTS

Every semester and every Summer/4 hours
A study of the historical and philosophical foundations of mathematics and science. Emphasis on concepts of science and their application to modern life. The laboratory requirement is met by participation in a 3-day field trip to northern Arizona.

SCI 100 DEPARTMENTAL SEMINAR

Every Fall and Spring/No credit
Registration and attendance are required for the departmental seminars held every Wednesday afternoon at 3:40 pm. All Science majors should register for this course during each of their last four semesters. This is a non-credit course, those presenting a senior seminar should register for **BIO 401** on page 141, **CHE 401** on page 143 or **EVS 401** on page 144.

DEGREE REQUIREMENTS—BIOLOGY

Requirements for a major in Biology

BIO 101 Principles of Biology	4 hours
BIO 114 Botany	4 hours
BIO 214 Zoology	4 hours
BIO 324 Genetics	4 hours
BIO 344 Microbiology	4 hours
BIO 401 Senior Seminar	1 hour
Electives in Biology	12 hours
CHE 101, 102 or 114, 115 Chemistry	8 hours
Elective in Physics	4 hours

Requirements for a minor in Biology*

BIO 101 Principles of Biology	4 hours
BIO 114 Botany	4 hours
BIO 214 Zoology	4 hours
Upper Division Electives in Biology	8 hours

*Students desiring certification in these areas must take at least 24 hours in the area.

BIOLOGY

The biology course offerings provide opportunity to study one or more areas of life science in depth as electives or as partial fulfillment of the general studies requirements. The student who completes a biology major will be prepared for a career in general biology, for graduate study in biology, or for teaching at the

secondary school level. With additional work in chemistry and mathematics, the biology major is prepared for professional schools of medicine or health sciences, for careers as medical assistants, laboratory technicians, or other health science vocations.

BIO 101 PRINCIPLES OF BIOLOGY

Every Fall/4 hours

The basic concepts of Life systems will be presented in a lecture, demonstration, laboratory format. Morphology, Physiology, Ecology, Systematics, Taxonomy and Reproduction. 3 hrs lecture, 3 hrs lab.

BIO 114

GENERAL BOTANY

Every Spring/4 hours

An introduction to the basic principles of living matter through a study of the function of plants. Laboratory work includes use of the microscope, experiments in plant phenomena, and the study of selected plant life cycles. 3 hrs lecture, 3 hrs. lab. *Prerequisite: BIO 101 or permission of instructor.*

BIO 214

GENERAL ZOOLOGY

Every Fall/4 hours

A systematic survey of the animal kingdom from protozoa through chordata. Principles of evolution and ecology (natural history) are emphasized. Laboratory emphasis on microscopic work and on dissection techniques. 3 hrs lecture, 3 hrs. lab. *Prerequisite: BIO 101 or permission of instructor.*

BIO 251 HUMAN ANATOMY AND PHYSIOLOGY I

Every Fall/4 hours

A study of the structure and function of the following human systems: nervous, endocrine, reproductive, and digestive. 3 hrs lecture, 3 hrs lab. *Prerequisite: BIO 214 or permission of instructor.*

BIO 252 HUMAN ANATOMY AND PHYSIOLOGY II

Every Spring/4 hours

A study of the structure and function of the following human systems: skeletal, muscular, cardiovascular, respiratory and urinary. 3 hrs lecture, 3 hrs lab. *Prerequisite: BIO 214 or BIO 251 or permission of instructor.*

BIO 264 ECOLOGY AND CONSERVATION See **EVS 264** on page 144.

BIO 324 GENETICS

Every Spring/3 hours

Also **EVS 324**. A study of the principles of heredity including molecular aspects, basic Mendelian genetics, and population genetics. 3 hrs lecture. *Prerequisites: BIO 114, 214 or permission of instructor.*

BIO 325 GENETICS LABORATORY

Every Spring/1 hour

Also **EVS 325**. Laboratory experiments in genetics utilizing bacteria, fungi, and *Drosophila melanogaster*. Current matriculation in **BIO 324**. 3 hrs lab.

BIO 344 MICROBIOLOGY

Every Fall/4 hours

Also **EVS 344**. An introduction to the principles and applications of microbiology, with a study of the general characteristics of micro-organisms and their relationship to man. Laboratory exercises include techniques of identification and handling of micro-organisms. 3 hrs lecture and 3 hrs lab. *Prerequisite: BIO 214 or permission of instructor.*

BIO 354 BIOCHEMISTRY See **CHE 351** on page 143.

BIO 374 AQUATIC ECOLOGY See **EVS 374** on page 144.

BIO 384 HUMAN ECOLOGY See **EVS 384** on page 144.

BIO 399 PRACTICUM See page 66.

BIO 401 SENIOR SEMINAR

Every semester/1 hour

All graduates are required to prepare and present a scholarly seminar before the science faculty and students. Students should register for this course during the semester in which they plan to give their senior seminar.

BIO 444 COMPARATIVE ANATOMY

Spring, 1983, and alternate years/4 hours

Principles of chordate anatomy with emphasis on the comparison of vertebrate structures. Laboratory emphasis on dissection of representative vertebrates. 3 hrs lecture, 3 hrs lab. *Prerequisite: BIO 214.*

BIO 473 ADVANCED TOPICS IN BIOLOGY

Every Fall/1-4 hours

Topics offered include: Herpetology, systematic botany, cell biology, Microtechniques, Radiation Biology or others as needed. May be repeated for credit. Depending on the time requirements, topics may carry from one to four credits. *Prerequisites: Junior or Senior standing and permission of the instructor.*

BIO 499

INDEPENDENT STUDY

Every semester/1-4 hours

See page 66. May be repeated for credit.

DEGREE REQUIREMENTS—CHEMISTRY

Requirements for a major in Chemistry (B.S. degree)

CHE 114, 115 General Chemistry I, II	8 hours
CHE 324, 325 Organic Chemistry I, II	8 hours
CHE 314 Analytical Chemistry	5 hours
CHE 351 Biochemistry	4 hours
CHE 401 Senior Seminar	1 hour
CHE 424, 425 Physical Chemistry	8 hours
MAT 153, 163 Calculus I, II	6 hours
PHY 114, 115 Physics I, II	8 hours

Requirements for a minor in Chemistry*

CHE 114, 115 General Chemistry I, II	8 hours
CHE 324, 325 Organic Chemistry I, II	8 hours
Elective in Chemistry	4 hours

*Students desiring certification in these areas must take at least 24 hours in the area.

CHEMISTRY

CHE 101

INTRODUCTION TO CHEMISTRY

An introduction to the principles of chemistry designed for students without a strong background in chemistry. 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. 3 hrs lecture, 3 hrs lab.

Every Fall/4 hours

CHE 102

INTRODUCTION TO ORGANIC AND BIOCHEMISTRY

Continuation of CHE 101. Survey of the properties and reactions of organic compounds, with emphasis on the chemical nature of biological processes. Topics covered include identification and reactions of organic compounds, protein structure and function, carbohydrates and lipids, and nucleic acids, and the biological production and use of energy. 3 hrs lecture, 3 hrs lab. *Prerequisite: CHE 101.*

Every Spring/4 hours

CHE 114

GENERAL CHEMISTRY I

An exploration of the principles of modern chemistry. Topics covered include the chemical and physical properties of elements and compounds, reaction stoichiometry, equilibria, and energetics, atomic and molecular structure. 3 hrs lecture, 3 hrs lab. *Prerequisite: high school algebra.*

Every Fall/4 hours

CHE 115

GENERAL CHEMISTRY II

Continuation of CHE 114. Topics include thermodynamics, descriptive chemistry of the elements, electrochemistry, nuclear chemistry, and kinetics. 3 hrs lecture, 3 hrs lab. *Prerequisite: CHE 114.*

Every Spring/4 hours

CHE 314

ANALYTICAL CHEMISTRY

Principles of quantitative and instrumental analysis. Topics include titrametric, gravimetric, and analytical separation methods; and optical, magnetic, and electroanalytical methods of analysis. 3 hrs lecture, 6 hrs lab. *Prerequisite: CHE 115.*

Every Fall/5 hours

CHE 324 ORGANIC CHEMISTRY

Every Fall/4 hours
Systematic study of the chemistry of carbon compounds. Structure, synthesis, reactions, and analysis of aliphatic and aromatic compounds are covered. 3 hrs lecture, 3 hrs lab. *Prerequisite:* CHE 115.

CHE 325 ORGANIC CHEMISTRY II

Every Spring/4 hours
Continuation of CHE 324. Analysis and reactions of organic functional groups, and the relationship of structure to reaction mechanisms are covered. 3 hrs lecture, 3 hrs lab. *Prerequisite:* CHE 324.

CHE 351 BIOCHEMISTRY

Every Spring/4 hours
Also BIO 354. Study of the chemical basis of biological processes. Topics covered include protein structure and function, carbohydrate and lipid chemistry, nucleic acids and genetic function, biological energy production, and photosynthesis. 3 hrs lecture, 4 hrs lab. *Prerequisite:* CHE 324.

CHE 399 PRACTICUM

Every semester/1-4 hours
See page 66. May be repeated for credit.

CHE 401 SENIOR SEMINAR

Every semester/1 hour
All graduates in Chemistry are required to prepare and present a scholarly seminar before the science faculty and students. Students should register for this course during the semester in which they plan to give their senior seminar.

CHE 424 PHYSICAL CHEMISTRY I

Every Fall/4 hours
A study of the physical and chemical behavior of gasses, liquids, solids, and solutions. Treatment includes thermodynamics, electrochemistry, and the kinetic molecular theory of ideal and non-ideal cases. 3 hrs lecture, 3 hrs lab. *Prerequisite:* CHE 125 and MAT 163.

CHE 425 PHYSICAL CHEMISTRY II

Every Spring/4 hours
Continuation of CHE 424. The development of modern atomic theory is studied, with emphasis on quantum theory, ligand fields, and molecular spectroscopy. 3 hrs lecture, 3 hrs lab. *Prerequisite:* CHE 424.

CHE 499 INDEPENDENT STUDY

Every semester/1-4 hours
See page 66. May be repeated for credit.

DEGREE REQUIREMENTS—ENVIRONMENTAL SCIENCE

Requirements for a major in Environmental Science (B.S. Degree)

EV/S 264 Ecology and Conservation	4 hours
EV/S 364 Atmospheric Science	4 hours
EV/S 374 Aquatic Ecology	4 hours
EV/S 384 Human Ecology	4 hours
Electives in Environmental Science	14 hours

Requirements for a minor in Environmental Science*

EV/S 264 Ecology and Conservation	4 hours
EV/S 384 Human Ecology	4 hours
Electives in Environmental Science	10 hours

*Students desiring certification in these areas must take at least 24 hours in the area.

ENVIRONMENTAL SCIENCE

The study of environmental science is highly interdisciplinary in nature, therefore, many of the courses in environmental science are offered through other departments of the College. The four courses listed in Requirements for a major in Environmental Science (page 143) constitute the foundation of the

environmental science major. Electives may be selected from several other disciplines, numbers of which are only listed here. Environmental science majors should develop strengths in one or more related disciplines such as biology, chemistry, mathematics, social or health sciences.

EVS 104 ASTRONOMY

A study of the principles and history of astronomy, the cosmos, the solar system, and celestial phenomena. Appropriate as an elective for the non-scientific student, designed to develop an appreciation and understanding of the natural laws of the universe. Field experiences are included.

Every Fall/4 hours

EVS 114

GENERAL GEOLOGY

An introduction to physical and historical geology with an emphasis on the geology of Arizona. The relation of geology to man's cultural and economic development. Field and laboratory experiences.

Every Spring/4 hours

EVS 264

ECOLOGY AND CONSERVATION

Also **BIO 264**. The introductory course in environmental science. The basic concepts of ecology are covered, with emphasis on terrestrial communities. Principles and concepts of resource and energy conservation. Laboratory and field experiences illustrate conservation and demonstrate environmental survey techniques.

Every Fall/4 hours

EVS 364

ATMOSPHERIC SCIENCE

A study of the earth's atmosphere, including composition, movement, weather and other meteorologic phenomena. The study of air pollution, the impact of pollution on the environment, and methods of pollution control.

Every Fall/4 hours

EVS 374

AQUATIC ECOLOGY

Also **BIO 374**. An ecological study of the plants and animals which live in and around water. The effect of man on aquatic ecosystems, and the water needs of man. Laboratory investigation in water analysis and aquatic ecosystems survey techniques. *Prerequisite: BIO 214.*

Every Spring/4 hours

EVS 384

HUMAN ECOLOGY

Also **BIO 384** and **SOC 384**. A study of the principles of population and the relationship of population change to the environment. The processes of fertility, mortality, migration, growth, distribution and density. Emphasis upon the impact of man on the environment. Laboratory and field experiences.

Every Spring/4 hours

EVS 399

PRACTICUM

See page 66.

EVS 401

SENIOR SEMINAR

All graduates in Environmental Science are required to prepare and present a scholarly seminar before the science faculty and students. Students should register for this course during the semester in which they plan to give their seminar.

Every semester/1 hour

EVS 473 ADVANCED TOPICS IN ENVIRONMENTAL SCIENCE

Every semester/3 hours

Each semester a different advanced topic will be offered: water quality control, air quality control, environmental law, energy systems planning, and other appropriate subjects.

EVS 499 INDEPENDENT STUDY See page 66. *Every semester/1-4 hours*

For descriptions of the following listings and descriptions under the courses which may be taken as departments offering the course: Environmental Science electives, see

EVS 223 SOCIAL PROBLEMS See **SOC 223** on page 115.

EVS 313 CULTURAL ANTHROPOLOGY See **SOC 313** on page 115.

EVS 324 GENETICS See **BIO 324** on page 141.

EVS 325 GENETICS LABORATORY See **BIO 365** on page 141.

EVS 343 PRINCIPLES OF PUBLIC HEALTH See **HLT 343** on page 104.

EVS 344 MICROBIOLOGY See **BIO 344** on page 141.

EVS 353 THE MODERN CITY See **SOC 353** on page 116.

EVS 363 INTRODUCTION TO PROBABILITY AND STATISTICS

See **MAT 263** on page 147.

PHYSICS

PHY 104 PHYSICS FOR THE LIBERAL ARTS

Every Spring/4 hours

A survey of physics with emphasis on applications to everyday life in the modern world. The basic laws and phenomena of classical physics are studied, using elementary mathematics. 3 hrs lecture, 3 hrs lab.

PHY 111 INTERMEDIATE PHYSICS I

Fall, 1983 and alternate years/4 hours

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. 3 hrs lecture, 3 hrs lab. *Prerequisite: MAT 120 or equivalent.*

PHY 112 INTERMEDIATE PHYSICS II

Spring, 1984 and alternate years/4 hours

Continuation of **PHY 111**. Topics covered include wave motion, electrostatics, optics, and magnetism. 3 hrs lecture, 3 hrs lab. *Prerequisite: PHY 111.*

PHY 114

GENERAL PHYSICS I

Fall, 1982, and alternate years/4 hours

Rigorous treatment of physical principles and concepts using mathematical descriptions based on calculus. Topics covered include mechanics, thermodynamics, and wave motion. 3 hrs lecture, 3 hrs lab. *Prerequisite: MAT 163.*

PHY 115

GENERAL PHYSICS II

Spring, 1983, and alternate years/4 hours

Continuation of **PHY 114**. Topics covered include electromagnetism, optics, and quantum theory. 3 hrs lecture, 3 hrs lab. *Prerequisite: PHY 114.*

DEGREE REQUIREMENTS—MATHEMATICS

Requirements for a major in Mathematics (B.S. Degree)

MAT 153, 163, 223, 233; Calculus I, II, III, IV	12 hours
Mathematics electives from 263 and upper division	18 hours
Computer Science (upper division)	3 hours
PHY 114, 115 General Physics	8 hours

Requirements for a minor in Mathematics*

MAT 153, 163 Calculus I, II	6 hours
Electives from MAT 213, 223, 233, or Computer Science (3 hours)	6 hours
Upper Division Electives in Mathematics	6 hours

*Students desiring certification in these areas must take at least 24 hours in the area.

MATHEMATICS

Students who have completed advanced or accelerated courses in regard to certain mathematics in high school may courses.

MAT 113 LIBERAL ARTS MATHEMATICS

An introduction to various mathematical concepts, with emphasis on the methods and processes of mathematics. Topics from sets, logic, functions, and mathematical systems are included. Recommended for majors in elementary education.

Every semester/3 hours

Mathematics Laboratory

The pre-calculus curriculum consists of three modular self-paced courses: Intermediate Algebra, College Algebra, and Trigonometry. Remedial work in elementary algebra will be offered as needed on an independent study basis.

Each course in the mathematics laboratory is partitioned into a sequence of modules, and students proceed at their own pace. A continuous enrollment policy allows a student to enroll in a math lab course at any time during the semester.

MAT 120 INTERMEDIATE ALGEBRA

Prerequisite: Placement counseling and one year of high school algebra.

Every semester/3 hours

MAT 121 COLLEGE ALGEBRA

Prerequisite: Placement counseling and two years of high school algebra, or MAT 120.

Every semester/3 hours

MAT 122 TRIGONOMETRY

Prerequisite: Placement counseling and two years of high school algebra, or MAT 120.

Every semester/2 hours

MAT 153

ANALYTIC GEOMETRY AND CALCULUS I

A study of concepts of limits, differentiation and integration of algebraic functions and applications. *Prerequisite: 3 years or more of high school mathematics.*

Every Fall/3 hours

MAT 163

ANALYTIC GEOMETRY AND CALCULUS II

A study of definite integrals, transcendental functions, methods of integration, linear equations. *Prerequisite: MAT 153.*

Every Spring/3 hours

27
27
27

MAT 213 COLLEGE GEOMETRY

Spring, 1983, and alternate years/3 hours
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 223 ANALYTIC GEOMETRY AND CALCULUS III

Every Fall/3 hours
A study of vectors and parametric equations, and of solid analytic geometry.
Prerequisite: MAT 163.

MAT 233 ANALYTIC GEOMETRY AND CALCULUS IV

Every Spring/3 hours
A study of partial differentiation, multiple integrals, infinite series, complex numbers, and functions. *Prerequisite: MAT 223.*

MAT 263 INTRODUCTION TO PROBABILITY AND STATISTICS

Every Spring/3 hours
Also **BDS 343, EVS 363, PSY 363, and SOC 363.** A study of elementary theories of probability, distribution, and testing of statistical hypotheses. Practical experience is provided in the application of statistical methods.
Prerequisite: MAT 113 or equivalent.

MAT 313 SET THEORY AND SYMBOLIC LOGIC

Every semester/3 hours
A supervised, self-paced course in set theory and symbolic logic. Topics include: sets, logic, deductive reasoning, relations and functions, groups, and rings and fields. Credit/non-credit.

MAT 333 INTRODUCTION TO REAL ANALYSIS

Fall, 1984, and alternate years/3 hours
The real numbers, sequences and series, the derivative, the Riemann integral, sequences and series of functions. *Prerequisite: MAT 233.*

MAT 343 TOPOLOGY

Spring, 1983, and alternate years/3 hours
A first course in general topology, with emphasis on the topology of the real numbers. Topics include topology space, continuity, connectedness, compactness, separation axioms, and metric spaces. *Prerequisite: MAT 233.*

MAT 373 DIFFERENTIAL EQUATIONS

Fall, 1984, and alternate years/3 hours
A study of the methods of solution of ordinary differential equations and their application to geometry, mechanics, and physics. *Prerequisite: MAT 233.*

MAT 413 LINEAR ALGEBRA

Spring, 1984, and alternate years/3 hours
An introductory study of finite dimensional vector spaces, linear transformations, and matrices associated with them. *Prerequisite: MAT 233 or approval of instructor.*

MAT 423 ABSTRACT ALGEBRA

Fall, 1983, and alternate years/3 hours
An introduction to algebraic structures with particular emphasis on group theory. *Prerequisite: MAT 233 or approval of instructor.*

MAT 473 ADVANCED TOPICS IN MATHEMATICS

Spring, 1983, and alternate years/3 hours
Upper division topics in mathematics will be offered according to student needs. Topics may include, statistics for scientists and engineers, Numerical analysis, Topology, and Combinatorics. May be repeated for credit. *Prerequisite: Junior or Senior standing and permission of the instructor.*

MAT 499

INDEPENDENT STUDY See page 66.

Every semester/1-4 hours

DEGREE REQUIREMENTS—COMPUTER SCIENCE**Requirements for a major in Computer Science**

CS 133, 203, 213, 301, 310, 403, 413, 420, 430	27 hours
Computer Science Electives (6 hours Upper Division)	9 hours
MAT 153, 163 Calculus I and II 270 - 271	6 hours
MAT 313 Symbolic Logic	3 hours
MAT 263 Probability and Statistics	3 hours
CS 480 Readings from the Literature	3 hours
Elective in Public Speaking	3 hours

Requirements for a minor in Computer Science*

CS 203 Beginning Structured Programming	3 hours
CS 213 Intermediate Structured Programming	3 hours
Electives in Computer Science, (6 hours Upper Div.)	12 hours

*Students desiring certification in these areas must take at least 24 hours in the area.

COMPUTER SCIENCE**CS 133**

INTRODUCTION TO COMPUTER SCIENCE Every semester/3 hours
A basic study of applications of electronic data processing: basic concepts of flowcharting, problem solution, and programming.

CS 201

CMI BASIC

Self paced instruction on the use of the computer. Cannot be applied toward a computer science major or minor. Credit/non-credit.

CS 203

BEGINNING STRUCTURED PROGRAMMING

An introductory study of structured programming using the language FORTRAN. Topics include: computer organization, problem solving, algorithm design, and flowcharting.

CS 213

INTERMEDIATE STRUCTURED PROGRAMMING

A continued study of structured programming, using the language pascal. Topics include: debugging and testing, string processing, internal searching and sorting, data structures, and recursion. Prerequisite: CS 203.

CS 223

COBOL

Programming techniques and algorithm translation in the language COBOL. Emphasis on business applications.

CS 301

MICROPROCESSOR WORKSHOP

A supervised independent study of the structure and language of a microprocessor. Topics include: basic logic design, coding, hexadecimal arithmetic, and peripheral interfacing. Prerequisite: CS 213.

CS 310

SURVEY OF LANGUAGES

A look at the structure of several high-level languages. Topics include: the definition of a language, language structure and design, data types and structures, interpretive languages, and lexical analysis and parsing. Prerequisite: CS 213.

CS 332 TOPICS IN COMPUTER SCIENCE

Every semester, beginning Fall, 1983/3 hours
An in-depth study of one particular topic each semester. May be repeated for credit. *Prerequisite:* CS 213, and permission of instructor.

CS 399

PRACTICUM

See page 66. May be repeated for credit.

Every semester/1-4 hours

CS 403

ASSEMBLY LANGUAGE PROGRAMMING

Spring, 1983, and alternate years/3 hours
A study of the techniques needed to program a computer in its own assembly language. Topics include: addressing techniques, macros, file I/O, program segmentation and linkage, and assembler construction. *Prerequisite:* CS 213.

CS 413

INTRODUCTION TO DATA STRUCTURES

Fall, 1983, and alternate years/3 hours
A study of the implementation of different data structures, including trees, lists, stacks, and queues. Also included will be a brief look at large data base management. *Prerequisite:* CS 213.

CS 420

OPERATING SYSTEMS

Spring, 1984, and alternate years/3 hours
A study of several different operating systems, and operating system structure in general. Topics include: dynamic procedure activation, system structure, memory and process management, and the evaluation of operating systems. *Prerequisites:* CS 301, CS 403.

CS 430

SOFTWARE ENGINEERING

Fall, 1982, and alternate years/3 hours
A study of the problems involved in producing large pieces of software. Topics include: Algorithm analysis and design, organization and management, resource estimation, and project control. *Prerequisite:* CS 413.

CS 480

READINGS IN CURRENT LITERATURE

Every semester/3 hours
A supervised self-paced course involving an appropriate amount of reading in current computer science topics, including the preparation and presentation of a paper at a senior seminar. *Prerequisite:* Senior standing.

CS 499

INDEPENDENT STUDY

See page 66. May be repeated for credit.

Every semester/1-4 hours

DEGREE REQUIREMENTS—SCIENCE TEACHING MINOR

Requirements for a Teaching Minor in Science

The Teaching 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.

BIO 101 Principles of Biology	4 hours
CHE 101 Introduction to Chemistry	4 hours
BIO 114 or 214 Biology	4 hours
PHY 104 Physics for Liberal Arts	4 hours
Electives in environmental science, biology, chemistry, or physics	8 hours

PERFORMING ARTS

Department Description

Music Degrees

Recitals

Music Theory

Private Lessons

Teacher Changes

Jury Examinations

Piano Proficiency

Placement of Transfer Students

Student Teaching

Music Scholarships

Degree Programs

Degree Requirements—Music
Programs for Music Minors

Applied Music

Church Music

Music Education

Music Ensembles

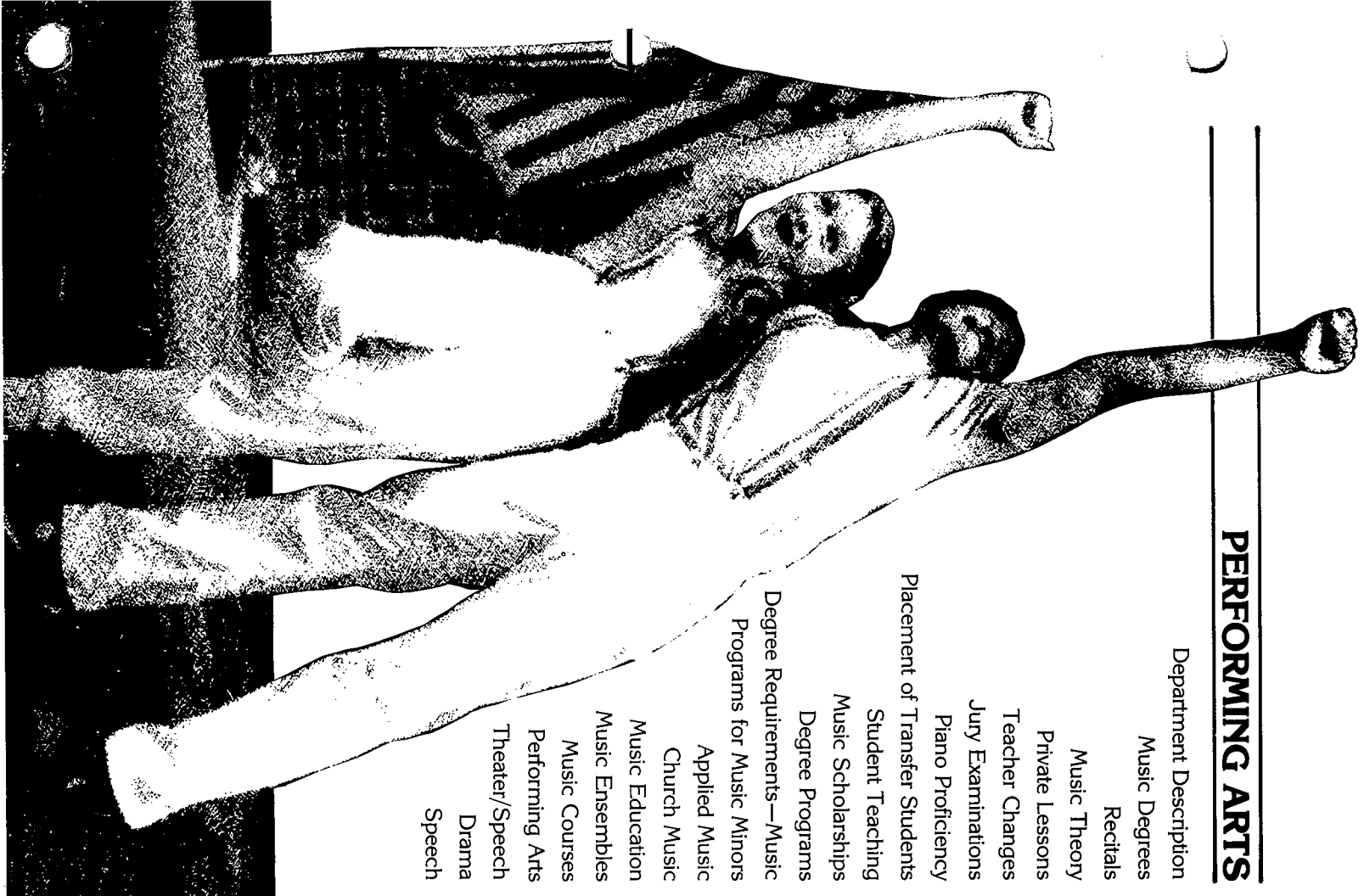
Music Courses

Performing Arts

Theater/Speech

Drama

Speech



DEPARTMENT DESCRIPTION

A student in the Performing Arts Department may obtain a B.A. or B.S. degree in six major areas (B.A.: Applied and Church Music, Performing Arts and Theatre/ Speech; B.S.: Music Education and Church Music) with a choice of 26 possible major emphases. Depending upon proficiency and background, some courses are open to non-majors and minors; admission

may be determined by audition or conference with instructors. Many of the skill courses, such as applied music, are very demanding, and students who major or minor in the Performing Arts, or who elect to take courses in applied music should be aware at the time of enrollment of the necessary demands upon their time for practice and performance.

MUSIC DEGREES

Students majoring in music may take a Bachelor of Arts degree in applied music, church music, or theory, or a Bachelor of Science

degree in music education or church music. Minors are available in church music, music education and a non-teaching music emphasis.

Music

Regulations

Specific requirements are listed in the Music Student Handbook, available in the Departmental Office. Majors and minors are responsible for meeting these requirements.

Church Music Ministries Programs

Realizing that some students may desire a non-seminary track degree in church music, two degree plans are offered those preparing for the church ministry.

The Bachelor of Arts degree is a seminary-oriented church music degree designed for the serious student who plans to attend seminary and work in a large, multi-faceted church music program. No minor is required for this degree.

The Bachelor of Science degree is designed for the student who does not plan to attend seminary, but who desires an overall degree plan which will prepare him or her to guide smaller church programs. A minor is required.

Participation In Group Performance

Seven satisfactory semesters of participation for music majors and three semesters for music minors must be discussed in the Music Student Handbook.

stage band, or choral ensemble. These performance courses carry 1 hour credit per semester.

Non-majors and non-minors may audition for these groups and if chosen, will also receive 1 hour elective credit per semester. Successful candidates, including majors and minors, will receive elective credit for smaller ensembles, such as Jazz Ensemble.

RECITALS

Junior Recital

As prerequisite to senior level work, a formal junior (1/2) recital is required of all BA majors: applied music, theory, church music and performing arts. It is recommended that

two students combine to present a full recital. Theory majors will present a 30-minute composition in lieu of a recital.

Permission for a junior or senior recital must be granted by the music faculty of that medium (voice, instrumental, keyboard) at the preceding semester's jury exam (see Applied Music Jury Exam on page 154). Unusual cases are discussed in the Music Student Handbook.

A formal, full-length, senior recital, presented no later than two weeks before commencement, is required of all B.A. majors: applied music, church music, theory and performing arts. Theory majors will present an extended composition for performance either in recital or with a major organization. B.S. majors (church music and music education) will present half a recital with another junior or senior recitalist. A senior is one who is following the prescribed senior course, who has completed all senior prerequisites, and who gives evidence of being able to complete his study within the year.

After receiving approval from the faculty for a recital presentation, enrollment for this recital must be made during the semester in which the recital is to be given. A recital fee must also be paid (see page 24). If for an approved reason the recital is cancelled, a grade of "I" (incomplete) will be given; completion is required the following semester (see rule on the removal of incomplete grades in General Academic Regulations, page 59).

Application for Junior or Senior Recital

MUSIC THEORY

The study of music theory is designed for music majors and minors, and should be begun in the first semester of the freshman year unless otherwise approved. A basic fundamentals of music class is offered each spring and summer for students needing remedial work prior to enrollment in Theory I; no degree

credit is given majors or minors, but non-majors and non-minors may receive elective credit for this course. All four semesters of music theory must be passed with a minimum grade of "C." Each semester may be repeated once in order to obtain this required grade.

PRIVATE LESSONS

Length of lesson time and required practice are determined by the number of credit hours to be received:

Length
of Lessons
and Practice

Credit

Lesson Length

Practice Expected

1

30 minutes

1 hour daily

2

1 hour

1½ hours daily

3

1½ hours

2 hours daily

Absence From Private Lessons

Lessons missed because of the student's negligence will not be rescheduled. Excused absences, with notification at least 12 hours before the scheduled lesson, and lessons missed because of instructor absence will be made up at a time suitable to both persons; lessons missed during tours, trips or holidays will not.

CHANGE OF TEACHER OR CONCENTRATION

A student who desires to change applied music teachers or concentration must make a written request to the Chairman of the Department and schedule a conference with the music faculty.

APPLIED MUSIC JURY EXAMINATION

All music and performing arts majors and minors are required to perform before a jury of music faculty members as a portion of the final semester grade. Quality of performance and evidence of growth should be exhibited in accordance with jury repertoire requirements listed in the Music Student Handbook.

PIANO PROFICIENCY EXAMINATION

A minimum keyboard proficiency level exam is required of all music majors who do not elect to take a keyboard concentration. Primary emphasis is placed on basic technique, sight-reading, harmonization, and appropriate literature. The exam is divided into three parts, which may be taken separately. This proficiency may be attained by taking up to two semesters of class piano for MUS 127 and applied piano.

Students with a keyboard background may test out of any or all sections of this exam. A statement of requirements is listed in the Music Student Handbook. It is highly recommended that the student complete the proficiency requirements within the first two years of college study. Upon completion of the examination, the student's transcript will indicate successful completion of this requirement.

PLACEMENT OF TRANSFER STUDENTS

For students who plan to major or minor in any form of music, credit in applied music or theory, which is transferred from another institution, must be validated by an examination administered by the Grand Canyon

College music faculty. All prerequisite requirements must be met. Satisfactory recital attendance is required during all semesters in which a transfer student is enrolled at Grand Canyon.

STUDENT TEACHING

The following music requirements must be completed prior to admission to student teaching in music.

1. Completion of the following tests:

- a. Sight Singing Test
- b. Conducting Tests (choral/instrumental)
- c. Piano Proficiency Examination (for all except keyboard concentrations)

d. Instrumental Proficiency Examinations (brass, woodwinds, strings, and percussion)

e. Vocal Proficiency Examination (for instrumental concentrations only)

2. Completion of the following laboratory requirements:

a. Seven semesters of major ensemble.

b. For keyboard concentrations, a minimum of two semesters of Studio Accompanying.

c. MED 381 Music in the Elementary Grades or MED 382 Music in the Junior and Senior High School.

d. Seven semesters of satisfactory recital attendance.

MUSIC SCHOLARSHIPS

(Unless otherwise informed in writing by the Department Chairman, students on voice scholarships are required to participate in Choralaires; instrumentalists, in Wind Ensemble; and keyboardists, in Studio Accompanying (at least five students per semester). All students who receive music scholarships are referred to page 32, Special Abilities Scholar-

ships. Application for scholarships and their renewals must be made no later than the jury prior to the semester in which the scholarship is sought. The maintenance of a satisfactory GPA is necessary for renewal of scholarships; probation may be granted during one semester within a student's degree plan.

DEGREE PROGRAMS

The Department of Performing Arts offers two degrees in music:

Applied Music:

Instrumental

Organ

Piano

Voice

Classical Guitar

Studio Guitar

Theory

53 hours

57 hours

56 hours

56 hours

53 hours

55 hours

51 hours

**Bachelor
of Arts**

Church Music:
(no minor)

Voice

Keyboard

Instrumental

Theory

77 hours

74 hours

75 hours

74 hours

Music Education:
(no minor)

(+ Education hours &
practice teaching)

Instrumental

Keyboard

Theory

Voice

Guitar

59 hours

59 hours

58 hours

62 hours

61 hours

**Bachelor
of Science**

Church Music:

Voice

Keyboard

Instrumental

Theory

62 hours

61 hours

62 hours

59 hours

DEGREE REQUIREMENTS—MUSIC

Required hours for a major in Music

Core Hours (all majors)

114, 124, 134, 144, 154, 164, 174, 184, 194, 204, 214, 224, 234, 244, 254, 264, 274, 284, 294, 304, 314, 324, 334, 344, 354, 364, 374, 384, 394, 404, 414, 424, 434, 444, 454, 464, 474, 484, 494, 504, 514, 524, 534, 544, 554, 564, 574, 584, 594, 604, 614, 624, 634, 644, 654, 664, 674, 684, 694, 704, 714, 724, 734, 744, 754, 764, 774, 784, 794, 804, 814, 824, 834, 844, 854, 864, 874, 884, 894, 904, 914, 924, 934, 944, 954, 964, 974, 984, 994	16 hours
MAP Major-Applied Instrument or Voice	8 hours
MAP Applied Keyboard (Voice: Keyboard majors)	(theory emphasis: 4 hours)
MUS 120 Piano Proficiency	3 hours
Major Ensemble (7 semesters, according to major emph)	0 hours
333, 343, 353, 363, 373, 383, 393, 403, 413, 423, 433, 443, 453, 463, 473, 483, 493, 503, 513, 523, 533, 543, 553, 563, 573, 583, 593, 603, 613, 623, 633, 643, 653, 663, 673, 683, 693, 703, 713, 723, 733, 743, 753, 763, 773, 783, 793, 803, 813, 823, 833, 843, 853, 863, 873, 883, 893, 903, 913, 923, 933, 943, 953, 963, 973, 983, 993	4+3 audit
333, 343, 353, 363, 373, 383, 393, 403, 413, 423, 433, 443, 453, 463, 473, 483, 493, 503, 513, 523, 533, 543, 553, 563, 573, 583, 593, 603, 613, 623, 633, 643, 653, 663, 673, 683, 693, 703, 713, 723, 733, 743, 753, 763, 773, 783, 793, 803, 813, 823, 833, 843, 853, 863, 873, 883, 893, 903, 913, 923, 933, 943, 953, 963, 973, 983, 993	6 hours
333, 343, 353, 363, 373, 383, 393, 403, 413, 423, 433, 443, 453, 463, 473, 483, 493, 503, 513, 523, 533, 543, 553, 563, 573, 583, 593, 603, 613, 623, 633, 643, 653, 663, 673, 683, 693, 703, 713, 723, 733, 743, 753, 763, 773, 783, 793, 803, 813, 823, 833, 843, 853, 863, 873, 883, 893, 903, 913, 923, 933, 943, 953, 963, 973, 983, 993	3 hours
422, 432, 442, 452, 462, 472, 482, 492, 502, 512, 522, 532, 542, 552, 562, 572, 582, 592, 602, 612, 622, 632, 642, 652, 662, 672, 682, 692, 702, 712, 722, 732, 742, 752, 762, 772, 782, 792, 802, 812, 822, 832, 842, 852, 862, 872, 882, 892, 902, 912, 922, 932, 942, 952, 962, 972, 982, 992	2 hours
422, 432, 442, 452, 462, 472, 482, 492, 502, 512, 522, 532, 542, 552, 562, 572, 582, 592, 602, 612, 622, 632, 642, 652, 662, 672, 682, 692, 702, 712, 722, 732, 742, 752, 762, 772, 782, 792, 802, 812, 822, 832, 842, 852, 862, 872, 882, 892, 902, 912, 922, 932, 942, 952, 962, 972, 982, 992	2 hours
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422, 432, 442, 452, 462, 472, 482, 492, 502, 512, 522, 532, 542, 552, 562, 572, 582, 592, 602, 612, 622, 632, 642, 652, 662, 672, 682, 692, 702, 712, 722, 732, 742, 752, 762, 772, 782, 792, 802, 812, 822, 832, 842, 852, 862, 872, 882, 892, 902, 912, 922, 932, 942, 952, 962, 972, 982, 992	(theory emphasis: 40 hours)

Additional Required Hours

Bachelor of Arts degree:

Option 1: Applied Music

MAP Major Applied Instrument or Voice*
 MAP 390 Junior Recital
 MAP 490 Senior Recital
 *does not apply to theory emphasis.

Emphasis 1: instrumental

✓ Additional Keyboard

1 hour
 9 hours

Emphasis 2: organ

MUS 391 Counterpoint
 MUS 429 Studio Accompanying
 MUS 421 Organ Lit and Accompanying

2 hours
 2 hours
 1 hour
 13 hours

Emphasis 3: piano

MUS 391 Counterpoint
 MUS 429 Studio Accompanying

2 hours
 2 hours
 12 hours

Emphasis 4: voice*

MUS 111, 112, 211 Diction I, II, III
 Additional Keyboard

3 hours
 1 hour
 12 hours

*recommended that MUS 481 Vocal Pedagogy also be taken.

Emphasis 5: classical guitar*

Additional Keyboard

1 hour
 9 hours

*of the 16 hours of applied guitar taken
 14 are to be of classical guitar, and 2 of studio guitar.

Emphasis 6: studio guitar*

MEED 351 Instru Music Organizations
MUS 320 Jazz Improvisations

*of the 16 hours of applied guitar taken
12 are to be of studio guitar, and 4 of classical guitar.

2 hours
1 hour
11 hours

Emphasis 7: theory

MUS 391 Counterpoint
MUS 492 Modern Harmony
MUS 399 Composition Practicum
Additional Keyboard

2 hours
2 hours
6 hours
1 hour
11 hours

**Option II: Church Music (seminary/graduate school track)
(no minor required)**

CM 436³ MCH 371 Literature and Worship 3 hours
CM 439³ MCH 372 Hymnology 3 hours
CM 433, 343 MCH 382 Church Music History 3 hours
CM 433 MCH 382 Church Music Seminar/Practicum 3 hours
CM 433 MED 241, 251, 232, or 262 Instr Classes (choice of 2) 2 hours
CM 433 MED 381 Music in Elementary Grades 3 hours
CM 433 MED 382 Conducting II 1 hour
CM 433 MED 382 Junior Recital 2 hours
CM 433 MED 391 Counterpoint* 0 hours
CM 433 MED 490 Senior Recital 0 hours

*Voice emphasis may substitute extra hours in Studio Accompanying and Voice.

Emphasis 1: instrumental

MAP Additional Major Applied 6 hours
MAP 119, 219, or MUS 117 Voice 3 hours

31 hours

Emphasis 2: keyboard

MAP Additional Major Applied 6 hours
MUS 429 Studio Accompanying 2 hours

30 hours

Emphasis 3: theory

Additional Applied (in overall applied hours,
4 must be voice) 4 hours
MUS 492 Modern Harmony 2 hours
MUS 399 Composition Practicum 6 hours

34 hours

Emphasis 4: voice

MAP Additional Major Applied 6 hours
MUS 111, 112, 211 Diction I, II, III 3 hours
MUS 481 Vocal Pedagogy 2 hours

33 hours

Bachelor of Science Degree**Option I: Church Music (non-semester/graduate school track)**

MCH 371 Literature and Worship	3 hours
MCH 372 Hymnology	3 hours
MCH 378 Church Music History	3 hours
MCH 382 Church Music Seminar/Practicum	3 hours
MJS 167 Class Guitar	1 hour
MJS 382 Conducting II	2 hours
MAP 400 Senior Recital	0 hours

Emphasis 1: instrumental

MAP 119, 219, or MJS 117 Voice

3 hours
18 hours

Emphasis 2: keyboard

MJS 429 Studio Accompanying

2 hours
17 hours

Emphasis 3: theory *

MJS 391 Counterpoint

2 hours

MJS 492 Modern Harmony

2 hours

19 hours

Emphasis 4: voice

MJS 111 Diction I

1 hour

MJS 481 Vocal Pedagogy

2 hours

18 hours

*of the total 4 hours Applied Music required, at least 2 must be voice.

Option II: Music Education (No minor required)
(For persons planning to teach public school music)

One who desires to work toward certification for teaching music in elementary or high school works toward the Bachelor of Science, following the General Education Program for Teacher Education as outlined on page 90. For the major in music education, one meets all basic requirements listed below plus the special requirements listed in the fields of concentration. The student also meets the requirements for

Elementary or Secondary Certificate (see pages 93-95) which, together with the requirements for the major in music education, will entitle the graduate to a K-12 Endorsement to teach music in public schools. Before being admitted to student teaching in music, one must also meet the Music Department prerequisites to student teaching (see page 154).

A minor is not required for students receiving secondary certification.

231 211 241 221	
MED 232, 241, 251, 262 Instrument Classes	4 hours
333 MED 381 Music in the Elementary Grades	3 hours
413 MED 382 Music in the Jr/Sr High School	3 hours
611 MJS 167 Class Guitar	1 hour
MED 382 MJS 382 Conducting II	2 hours
MUS 400 MAP 400 Senior Recital	0 hours

Plus Education hours required for certification

Emphasis 1: instrumental

MED 351 Instru Music Organizations

2 hours
15 hours**Emphasis 2: keyboard***

MUS 391 Counterpoint

2 hours
15 hours

*MUS 429 Studio Accompanying may be substituted for ensemble hours.

Emphasis 3: theory

MUS 391 Counterpoint

MUS 492 Modern Harmony

Additional Applied

2 hours
2 hours
1 hour
18 hours**Emphasis 4: voice**

MUS 111, 112, 211 Diction I, II, III

MUS 481 Vocal Pedagogy

3 hours
2 hours
1 hour
18 hours**Emphasis 5: guitar**Additional Studio Guitar (7 hrs total studio guitar,
2 hrs classical guitar: 9)

MED 351 Instru Music Organizations

MUS 320 Jazz Improvisation

1 hour
2 hours
1 hour
17 hours

PROGRAMS OFFERED FOR MUSIC MINORS

Requirements for a Music Education minor

MAP Major applied voice or instrument

MAP secondary applied in keyboard or voice

MED 241, 262, 232, 251 Instrument classes

MED 381 Music in the Elem Grades or MED 382 Music

MED 383 Music in the Jr and Sr High School

MEN 119, 139, 149, 169, MUS 429 (Ensemble)

MUS 009 Recital Attendance (4 semesters)

MUS 111, 112, 211 lt. Fr, Ger Diction (voice emphasis only)(3 hours)

MUS 191 Elementary Theory I

MUS 381 Conducting I

3 hours
3 hours
0 hours
4 hours
2 hours
19 (22) hours**Requirements for a Church Music minor**

MAP major applied voice or instrument

MAP secondary applied in keyboard or voice

MCH 371 Literature and Worship

MCH 372 Hymnology

MCH 378 History of Church Music and its Forms

MCH 382 Church Music Seminar—Practicum

MEN 119, 139 or 169 Ensemble

3 hours
2 hours
3 hours
3 hours
3 hours
3 hours
3 hours

MUS 009 Recital Attendance—4 semesters	0 hours
MUS 191 Elementary Theory I	4 hours
MUS 381 Conducting I	2 hours
	26 hours

Requirements for a non-teaching minor in Music

MAP major applied instrument or voice	4 hours
MAP secondary applied in keyboard or voice	3 hours
MEN 119, 129, 139, 149, 169, MUS 429	3 hours
MUS 009 Recital Attendance—4 semesters	0 hours
MUS 111, 112, 211 It, Fr, Ger Diction (voice emphasis only) (3 hours)	4 hours
MUS 191 Elementary Theory I	3 hours
MUS 371 or MUS 372 Music History I, or II	2 hours
MUS 381 Conducting I	
	19 (22) hours

It is recommended that all Music Education minors take, as electives, MUS 471 Music Literature and the two instrument classes which are not

required; also, that voice emphasis students in all the music minors elect to take MUS 481 Vocal Pedagogy.

MUSIC

APPLIED MUSIC

All applied music courses are required practice (see page 153). designed to be repeated once. Consent of instructor is necessary for Amount of credit given is based upon all enrollments.

MAP 109 BASIC PIANO

Private instruction for the non-music major with no previous piano training. *Every semester/1 hour*
A jury examination is not required. May be repeated to a maximum of four hours, but does not count toward a music major or minor.

MAP 119 APPLIED VOICE

Every semester/1-2 hours
A study of vocal technique, including fundamentals of voice production, principles of breathing, study of vowels, and essentials of tone production. Instruction includes vocalizes, phrasing, tone color, diction, style and interpretation of standard vocal repertoire.

MAP 219 APPLIED VOICE

Every semester/1-2 hours
Continuation of **MAP 119**. Prerequisite: **MAP 119**.

MAP 319 APPLIED VOICE

Every semester/1-2 hours
Continuation of **MAP 219**. Designed to prepare for a Junior Recital. Prerequisite: **MAP 219**, Junior standing, completion of Diction requirements, successful passing of a Voice Upper Level Proficiency Jury.

MAP 419 APPLIED VOICE

Every semester/1-2 hours
Continuation of **MAP 319**. Designed to prepare for a Senior Recital. Prerequisite: **MAP 319** and Senior standing.

MAP 129 APPLIED KEYBOARD/ORGAN

Every semester/1-2 hours
Private instruction in the study of organ technique, including hymn and service playing. Repertoire includes the beginning of a progressive study of the works of Bach, Mendelssohn, Dupre, Franck, Brahms, Reubke, Vierne

and modern composers. Attention is also given to accompaniment for solos, choral works and recital playing.

MAP 229 APPLIED KEYBOARD/ORGAN *Every semester/1-2 hours*
Continuation of **MAP 129**. *Prerequisite:* **MAP 129**.

MAP 329 APPLIED KEYBOARD/ORGAN *Every semester/1-2 hours*
Continuation of **MAP 229**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 229** and Junior standing.

MAP 429 APPLIED KEYBOARD/ORGAN *Every semester/1-2 hours*
Continuation of **MAP 329**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 329** and Senior standing.

MAP 129 APPLIED KEYBOARD/PIANO *Every semester/1-2 hours*
Private instruction in the study of piano technique, including major and minor scales in octaves, scales in thirds, sixths and tenths, broken chord exercises and arpeggios in sevenths. Literature to be studied over a progression of semesters includes works by J.S. Bach, Mozart, Beethoven, Chopin, Liszt, Debussy, Prokofiev and other outstanding composers.

MAP 229 APPLIED KEYBOARD/PIANO *Every semester/1-2 hours*
Continuation of **MAP 129**. *Prerequisite:* **MAP 129**.

MAP 329 APPLIED KEYBOARD/PIANO *Every semester/1-2 hours*
Continuation of **MAP 229**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 229** and Junior standing.

MAP 429 APPLIED KEYBOARD/PIANO *Every semester/1-2 hours*
Continuation of **MAP 329**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 329** and Senior standing.

MAP 139 APPLIED WOODWINDS *Every semester/1-2 hours*
Private instruction in a woodwind instrument, study of fundamentals of tone production, scales and technique for playing the instrument of the student's choice. Solo selections are studied from recognized composers.

MAP 239 APPLIED WOODWINDS *Every semester/1-2 hours*
Continuation of **MAP 139**. *Prerequisite:* **MAP 139**.

MAP 339 APPLIED WOODWINDS *Every semester/1-2 hours*
Continuation of **MAP 239**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 239** and Junior standing.

MAP 439 APPLIED WOODWINDS *Every semester/1-2 hours*
Continuation of **MAP 339**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 339** and Senior standing.

MAP 149 APPLIED BRASS *Every semester/1-2 hours*
Private instruction in a brass instrument of the student's choice. Same format as **MAP 139** on page 161.

MAP 249 APPLIED BRASS *Every semester/1-2 hours*
Continuation of **MAP 149**. *Prerequisite:* **MAP 149**.

MAP 349 APPLIED BRASS *Every semester/1-2 hours*
Continuation of **MAP 249**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 249** and Junior standing.

MAP 449 APPLIED BRASS *Every semester/1-2 hours*
Continuation of **MAP 349**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 349** and Senior standing.

MAP 159 APPLIED PERCUSSION *Every semester/1-2 hours*
Private instruction in a percussion instrument of the student's choice. Same format as **MAP 139** on page 161.

MAP 259 APPLIED PERCUSSION *Every semester/1-2 hours*
Continuation of **MAP 159**. *Prerequisite:* **MAP 159**.

MAP 359 APPLIED PERCUSSION *Every semester/1-2 hours*
Continuation of **MAP 259**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 259** and *Junior standing*.

MAP 459 APPLIED PERCUSSION *Every semester/1-2 hours*
Continuation of **MAP 359**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 359** and *Senior standing*.

MAP 169 APPLIED STRINGS/ ORCHESTRAL INSTRUMENTS *Upon demand/1-2 hours*
Violin, Viola, Cello, String Bass private instruction. Same format as **MAP 139** on page 161.

MAP 269 APPLIED STRINGS/ORCHESTRAL INSTRUMENTS
Continuation of **MAP 169**. *Prerequisite:* **MAP 169**.

MAP 369 APPLIED STRINGS/ORCHESTRAL INSTRUMENTS
Continuation of **MAP 269**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 269** and *Junior standing*.

MAP 469 APPLIED STRINGS/ORCHESTRAL INSTRUMENTS
Continuation of **MAP 369**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 369** and *Senior standing*.

MAP 169 APPLIED STRINGS/CLASSICAL OR STUDIO GUITAR *Every semester/1-2 hours*
The student is given a choice for the study of either Classical or Studio Guitar. Classical Guitar provides private study in technique and scales along with various styles and composers; the goal is classical performance. Studio Guitar provides a series of private instruction designed to prepare the student for professional studio performance through a concentration on varied styles and improvisation.

MAP 269 APPLIED STRINGS/CLASSICAL OR STUDIO GUITAR *Every semester/1-2 hours*
A continuation of **MAP 169**. *Prerequisite:* **MAP 169**.

MAP 369 APPLIED STRINGS/CLASSICAL OR STUDIO GUITAR *Every semester/1-2 hours*
A continuation of **MAP 269**. Designed to prepare for a Junior Recital. *Prerequisite:* **MAP 269** and *Junior standing*.

MAP 469 APPLIED STRINGS/CLASSICAL OR STUDIO GUITAR *Every semester/1-2 hours*
A continuation of **MAP 369**. Designed to prepare for a Senior Recital. *Prerequisite:* **MAP 369** and *Senior standing*.

MAP 390 JUNIOR RECITAL *Every semester/No credit*
Also **PAR 390**. Public Recital approximately 30 minutes in length in accordance with requirements of B.A. degree in music and the performing arts. Applied and Church Music majors will perform as designated in the Music Student handbook; theory majors will present a 30 minute composition.

MAP 400 SENIOR RECITAL (B.S. degree) *Every semester/No credit.*
Same format as **MAP 390**. Only recital requirement for B.S. degree in Music Education and Church Music.

MAP 490 SENIOR RECITAL (B.A. degree) *Every semester/No credit.*
Also **PAR 490**. Same format as **MAP 390** only one hour in length. Theory majors may choose presentation of original composition with a Major ensemble.

CLASS INSTRUCTION IN APPLIED MUSIC

Class instruction is offered for those needing basic knowledge in the applied music area. These courses are designed to be repeated once for credit if needed, but serious students are urged to enroll for private instruction after completing an introductory class. *Prerequisite: Consent of instructor.*

MDS 117 CLASS VOICE *Fall, Spring/1 hour*
Class instruction in the fundamentals of correct breathing, tone production and diction. A laboratory course, designed for students with little or no previous voice training, to aid in developing vocal ability. Repertoire includes elementary songs. Open to non-majors.

MDS 217 CLASS VOICE *On demand/1 hour*
Third semester continuation of **MDS 117**.

MDS 120 PIANO PROFICIENCY *Every semester/No credit*
All music majors are automatically enrolled for this course number by their instructor during the semester in which they complete the piano proficiency requirements so that a record can be made on their transcript.

MDS 126 BASIC CLASS PIANO *Fall, Spring/1 hour*
Class instruction for the non-music major and non-minor with no previous piano training. Primary emphasis is placed on the reading of music and the basic techniques of beginning piano skills.

MDS 127 CLASS PIANO *Fall, Spring/1 hour*
Class instruction in elementary piano playing for music majors and minors with no previous piano training. Primary emphasis is placed on basic technique, sight-reading, harmonization and appropriate literature. This class is designed to help students meet the requirements for the piano proficiency examination.

MDS 227 CLASS PIANO *On demand/1 hour*
Third semester continuation of **MDS 127**.

MDS 129 CLASS ORGAN *Fall, Spring/1 hour*
Class instruction in basic organ playing for students with no previous organ training. Open to non-majors and minors with some piano background.

MDS 229 CLASS ORGAN *On demand/1 hour*
Third semester continuation of **MDS 129**.

MDS 167 CLASS GUITAR *Fall, Spring/1 hour*
Class instruction for beginners in playing the acoustic guitar. Open to non-music majors and minors.

CHURCH MUSIC COURSES

MCH 371 LITERATURE AND WORSHIP

Fall, 1982, Spring 1984/3 hours
A survey of choral literature for the church, i.e., anthems, solos, cantatas, oratorios, and the relation of these to the elements of worship.

MCH 372 HYMNOLOGY

Fall, 1983, and alternate years/3 hours
Also **REL 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 hymnody. No musical background is required. Recommended for theology and religious education students.

MCH 378 HISTORY OF CHURCH MUSIC AND ITS FORMS

Fall, 1982, and alternate years/3 hours
A historical survey of church music in the ancient world to the present day with reference to liturgies, Jewish forms, American and British hymnody, and the development of current day sacred music forms and its influences on church music in general.

MCH 382 CHURCH MUSIC

SEMINAR-PRACTICUM

On demand/2 hours
A study of theory and practice of the music ministry in the local church with emphasis on philosophy, administration, graded choir methods, organ orientation, musical drama, and basic electronic media skills. Lectures by outstanding guest authorities. The student will spend an internship of eight weeks in a local church with an eligible minister of music, and will observe and put into practice graded choir techniques. *Prerequisites: MCH 371, 372, 378, MUS 381, or consent of instructor.*

MUSIC EDUCATION COURSES

MED 232

WOODWIND INSTRUMENT CLASS

Spring/1 hour
A practical study of the high and low woodwind instruments. The student learns to play, care for and teach each instrument. *Prerequisite: Sophomore standing.*

MED 241

BRASS INSTRUMENT CLASS

Fall/1 hour
A practical study of the high and low brass instruments. The student learns to play, care for, and teach each instrument. *Prerequisite: Sophomore standing.*

MED 251

PERCUSSION INSTRUMENT CLASS

Fall/1 hour
Same format as **MED 241**, except pertaining to percussion instruments. *Prerequisites: Sophomore standing.*

MED 262

STRING INSTRUMENT CLASS

Spring/1 hour
A practical study of the high and low string instruments. The student learns to play, care for, and teach each instrument. *Prerequisite: Sophomore standing.*

MED 351

INSTRUMENTAL MUSIC ORGANIZATIONS

Fall/2 hours
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. *Prerequisites:* *MLUS 292, MED 241, 262, 232, 251.*

MED 381

MUSIC IN THE ELEMENTARY GRADES

Fall/3 hours

A study and demonstration of methods and materials for the first six grades. A study is made of problems encountered with each grade level. Lesson plans are prepared. Visits are made to observe actual teaching situations. *Prerequisite:* *MLUS 292 or consent of instructor.*

MED 382

MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL

Spring/3 hours

A study of methods for developing and conducting the music program in junior and senior high schools, including the organization of choruses and glee clubs, the classification of voices, the development of music appreciation, the selection of music literature, etc. *Prerequisites:* *MLUS 292, 381, or consent of instructor.*

MUSIC ENSEMBLES

MEN 109

JUBILATION

Fall, January, Spring/No credit

Small ensemble of singers and instrumentalists; open by audition to entire student body. Work among churches, schools and clubs as a public relations and witness performance group.

MEN 119

CHORAL ENSEMBLE

Fall, Spring/1 hour

Membership is open to all students. Successive semesters of choral music is made possible by repetition for credit. An oratorio or extended work is presented during the semester. Students who sing in Oratorio may audition for Chorales, a smaller, touring group which has additional rehearsal periods each week.

MEN 129

SMALL JAZZ ENSEMBLE

Fall, Spring/1 hour

A performing Ensemble designed to give the student experience performing Jazz material in a small ensemble setting.

MEN 139

WIND ENSEMBLE

Fall, Spring/1 hour

Provides experience in the performance of music written for wind and percussion instruments. *Prerequisite:* *consent of instructor.*

MEN 149

STAGE BAND

Fall, Spring/1 hour

Performance of Jazz oriented material written or arranged for the Stage Band.

MEN 159

BASKETBALL BAND

Fall, Spring/No credit

Organized specifically for Basketball season. Membership is determined by audition and is open to any student with instrumental experience. Must enroll Fall and Spring. Rehearsals are on a T.B.A. basis.

MEN 169

ORCHESTRA

On demand/1 hour

Study and performance of orchestral literature and styles. Also, utilized on demand for accompaniment of yearly opera workshop and musical theater productions.

MUSIC COURSES

MUS 009 RECITAL ATTENDANCE

Thursday afternoon studio, area, and departmental recitals required of all music and performing arts majors and minors. Details listed in Music Student Handbook.

Fall, Spring/No credit

MUS 105 FUNDAMENTALS OF MUSIC

Designed for every individual interested in acquiring skill as well as a theoretical grasp of the basic elements involved in the reading, writing, performance and understanding of music. No credit toward degree for music majors. No prerequisite.

Spring, Summer/2 hours

MUS 111 ITALIAN DICTION I

A laboratory devoted to phonetic sounds of Italian as used by a singer. Prerequisite course to upper level Applied Voice.

Spring, 1983 (every 3rd semester)/1 hour

MUS 112 FRENCH DICTION II

A laboratory devoted to phonetic sounds of French as used by a singer. Prerequisite course to upper level Applied Voice. Student having 2 years high school French or 1 year college French may test out of this course.

Fall, 1983 (every 3rd semester)/1 hour

MUS 211 GERMAN

DICTION III,

A laboratory devoted to phonetic sounds of German as used by a singer. Prerequisite course to upper level Applied Voice. Student having 2 years high school German or 1 year college German may test out of this course.

Fall, 1982, Spring, 1984 (every 3rd semester)/1 hour

MUS 191

ELEMENTARY THEORY OF MUSIC I

Designed for Music Majors and Minors, this is an integrated course in musicianship, including ear training, sight-singing, dictation, written and keyboard harmony. Study is devoted to the structure of music for the purpose of developing skill in creative expression as well as skill in analyzing and understanding music being studied or performed. Three hours of class work and two hours of laboratory. Grade of "C" or above necessary for advancement. *Prerequisite: MUS 105 or a satisfactory score on the Freshman Theory Placement Examination administered during enrollment week and on demand during summer sessions.*

Fall/4 hours

MUS 192

ELEMENTARY THEORY OF MUSIC II

Continuation of **MUS 191**. Grade of "C" or above necessary for advancement. *Prerequisite: MUS 191, or equivalent.*

Spring/4 hours

MUS 219

OPERA WORKSHOP

Also **PAR 219**. Participation and production of a full-length opera, two one-act operas or opera scenes. Provides activities in all phases of opera production (set design, costuming, make-up, staging, publicity). May be repeated for credit. *Prerequisites: Audition and consent of instructor.*

Fall/3 hours

MUS 252

MUSIC APPRECIATION

Designed specifically for non-Music majors and minors, this course contributes to the intellectual, emotional and aesthetic understanding of music as expression, as science, and as an art closely kin 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 that may develop a discriminating, intelligent appreciation of the best in music.

Every semester/2 hours

MUS 291

ADVANCED THEORY OF MUSIC I

Fall/4 hours

Advanced study in partwriting, including chromatic and other non-harmonic tones; further study in sight-singing and dictation; keyboard application of theoretical materials. Original composition is emphasized utilizing traditional triadic harmonies as well as modality, 12 tone, secunda, quartal and added note techniques. Grade of "C" or above necessary for advancement. *Prerequisite:* MUS 192, or equivalent.

MUS 292

ADVANCED THEORY OF MUSIC II

Spring/4 hours

Continuation of **MUS 291**. Grade of "C" or above necessary for advancement. *Prerequisite:* MUS 291, or equivalent.

MUS 319

OPERA WORKSHOP

Also **PAR 319**. See **MUS 219** on page 166.

MUS 320

JAZZ IMPROVISATION

Fall, Spring/1 hour

A course designed to introduce the student to improvising, with emphasis on scales, modes and arpeggios. *Prerequisite:* MUS 105, 191, or consent of instructor.

MUS 371

MUSIC HISTORY I

Fall/3 hours

A survey of music from primitive times to the early 19th century; presents the growth of music through the contrapuntal schools culminating in the work of J.S. Bach; the development of opera and oratorio; and the rise of homophonic music through the Classical Period of Hayden, Mozart and Beethoven. Designed for Music majors and minors. No prerequisite.

MUS 372

MUSIC HISTORY II

Spring/3 hours

A survey of music from the early 19th century A.D. to modern times. Study is devoted to the art song, the nationalistic schools, the principal composers of the Romantic and Contemporary Periods and their masterpieces. Designed for Music majors and minors. No prerequisite.

MUS 381

CONDUCTING I

Fall/2 hours

A study of the fundamentals and techniques of conducting hymns, anthems, and other music with special emphasis on the problems of directing vocal groups. *Prerequisite:* Junior standing and completion of *Music Theory and Music History degree requirements*. Consent of instructor.

MUS 382

CONDUCTING II

Spring/2 hours

Continuation of **MUS 381** with greater attention being given to instrumental music. Includes study of choral and instrumental literature. Emphasis is placed upon score reading, artistic interpretation and the conducting of marches, overtures, symphonies, and larger works. First hand experience with performing group may be provided. *Prerequisite:* MUS 381.

MUS 391

COUNTERPOINT

Fall, 1982, and alternate years/2 hours

A practical study of 18th century counterpoint and its various species of two to four part writing. Background reference is made to early polyphonic music. Students write inventions and fugues in manner of J.S. Bach. *Prerequisite:* MUS 292.

MUS 392

FORM AND ANALYSIS

Spring/3 hours

A study of the various structure forms 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 421 ORGAN LITERATURE**AND ACCOMPANIMENT**

Designed for organ majors. The major organ works written in every historical period are heard and studied by means of records. Pipe organ stops are studied. Some assignment for accompanying a choir is given. *Prerequisite: two years of Applied Organ, MAP 129 and 229.*

On demand/1 hour

MUS 429 STUDIO ACCOMPANYING

A study and application of accompanying techniques in vocal and instrumental music. Students are assigned a vocalist and instrumentalist with whom to work for the semester. *Prerequisite: consent of instructor.*

Spring/1 hour

MUS 471 MUSIC LITERATURE

A survey of music literature including masterworks of chamber music, symphony, concerto, choral music, and opera with emphasis on style, aesthetics, and musical terminology. *Prerequisites: MUS 292, 371, 372.*

Fall/2 hours

**MUS 481 VOCAL METHODS
AND PEDAGOGY**

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. Open to persons of all disciplines who are interested in the teaching of voice. *Prerequisite: MAP 219, or consent of instructor.*

Fall, 1983, and alternate years/2 hours

MUS 492 MODERN HARMONY

An introduction to contemporary compositional devices, providing opportunities for practical understanding through experiences in composing. *Prerequisite: MUS 292 or equivalent.*

Fall, 1983, and alternate years/2 hours

DEGREE REQUIREMENTS—PERFORMING ARTS

Students interested in the Performing Arts may major in one or more of five emphases: church music drama, the American musical, children's musicals, operetta, or opera. No minor is required of the operetta or opera emphases.

A Performing Arts minor is available and is especially recommended for music, theatre/speech, and religious education majors, as well as others interested in a performance-oriented minor in the general field of the Arts.

Requirements governing recital attendance, ensemble participation and jury exams are the same as for a music major. Semesters required are listed in the degree requirements.

P. ARTS, a small ensemble of singing actors, is open by audition each year and serves as a performance group from the class, PAR 289/389.

A major full-length musical is produced yearly.

Requirements for a major in the Performing Arts (B.A. Degree)**Required Core Hours**

PAR 219, 319 Opera Workshop	3 hours
PAR 289, 389 Musical Theatre	3 hours
PAR 297, 397 Stagecraft	3 hours
PAR 378 History and Literature of the Lyric Stage	3 hours

PAR 390 Junior Recital	0 hours
PAR 398 Theories and Practices of Performing Arts Movement	3 hours
PAR 399 Practicum in Music Drama	6 hours
PAR 480 Coaching/Directing of the Performing Arts	3 hours
PAR 498 Stage and Lighting Design	3 hours
PAR 490 Senior Recital	0 hours
PAR 499 Independent Study in Music Drama	3 hours
	30 hours

Additional Required Hours

DRA 198 Acting I	3 hours
<i>needed 12 hrs added</i> DRA 298 Christian Drama	3 hours
MAP 119, 219, 319, 419 Applied Voice or MJS 117	6 hours
MAP 129, 229 Keyboard or MJS 127	3 hours
MCH 378 History of Church Music and its Forms	3 hours
MEN 119 Choral Ensemble (2 semesters)	2 hours
MJS 009 Recital Attendance (4 semesters)	0 hours
MJS 191 Elementary Theory I	4 hours
MJS 381, 382 Conducting I, II	4 hours
MJS 429 Studio Accompanying	1 hour
Languages*	

*It is recommended that in the hours open to those who do not elect Option II or III, a student should choose to study extra hours in Applied Music, PAR 389, SPC 318, and should audition for a major school play.

Option I: Church Music Drama, the American Musical, or Children's Musicals Emphasis

MJS 111, 112, 211 Italian, French, German Diction	3 hours
	32 hours

Option II: (no minor required) Opera or Operetta Emphasis

This option allows a student to take one complete language and two dictions for a total of 10 hours of language. Choose between a year of French (FR 114, 124) or a year of German (GER 114, 124). Diction (MJS 112, or 211) must be taken instead of the language not chosen.

MJS 111 Italian Diction	9 hours
	1 hour
	39 hours

Option III: (no minor required) Opera or Operetta Emphasis

GER 114, 124 Elementary German	8 hours
FR 114, 124 Elementary French	8 hours
MJS 111 Italian Diction	1 hour
	46 hours

Requirements for a minor in the Performing Arts

DRA 198 Acting I	3 hours
MAP 119, 219 Applied Voice or MJS 117 <i>voice</i>	3 hours

- MAP 129 Keyboard or MUS 127 2 hours
 MUS 009 Recital Attendance (3 semesters) 0 hours
 PAR 289, 389 Musical Theatre 3 hours
 - PAR 378 History and Literature of the Lyric Stage 3 hours
 PAR 398 Theories and Practices of Performing Arts Movement 3 hours
 PAR 399 Practicum in Music Drama 3 hours
 PAR 480 Coaching/Directing the Performing Arts 3 hours
 23 hours

PERFORMING ARTS

- PAR 219 OPERA WORKSHOP See **MUS 219** on page 166. Fall/3 hours
- PAR 289 MUSICAL THEATRE *Fall, January, Spring/3 hours*
 Also **PAR 389**. Small ensemble (P.A.R.T.S.) of singing actors; scenes from lyric theatre, including church music drama, children's theatre, Broadway musical, opera and operetta, are developed and staged for public viewing. January term course produces a full-length musical with costuming, lighting, set decoration, design and practicum, orchestra, business and house management, and public relations effectiveness. Open to non-majors and minors by audition. May be repeated for credit. *Prerequisite: consent of instructor.*
- PAR 297 STAGECRAFT See **DRA 297** on page 172.
- PAR 319 OPERA WORKSHOP See **MUS 219** on page 166.
- PAR 378 HISTORY AND LITERATURE OF THE LYRIC STAGE *Spring, 1984, and alternate years/3 hours*
 In depth study of the lyric stage; divided into 3 categories: sacred music drama, from the Medieval musical plays to contemporary church musicals; general music drama, from opera to Broadway musical; children's musical theatre, both for children and with children. Open to non-majors. No prerequisite.
- PAR 389 MUSICAL THEATRE See **PAR 289** (above).
- PAR 390 JUNIOR RECITAL *Every semester/No credit*
 See **MAP 390** on page 162. Performing Arts majors may elect to stage a 30-minute lyric theatre scene in conjunction with a major field of emphasis.
- PAR 397 STAGECRAFT See **DRA 297** on page 172.
- PAR 398 THEORIES AND PRACTICES OF PERFORMING ARTS MOVEMENT *Spring, 1983, and alternate years/3 hours*
 Theories and technical practices of styles and schools of performing arts movement. Study of audition techniques, working with groups and individually, direction techniques, the basic theories of Delsarte, Dalcroze, Alexander and application to movement with singing acting—movement appropriate and utilized in all forms of sacred music drama (as applies to church situations, general music drama and that appropriate for and with children). Open to non-majors and minors. *Prerequisite: PAR 378 or consent of instructor.*

PAR 480 COACHING AND DIRECTING OF THE PERFORMING ARTS

On demand/3 hours

Senior level course designed to utilize all technical skills acquired from prerequisite courses. Major assignments include the assistant directorship of a major musical, coaching of ensembles and soloists for local productions, coaching of children's musicals, work in liaison with local churches and in connection with senior recital requirement. *Prerequisites: PAR 289 (or 389), PAR 378, 398, and lower level music and theatre courses required for the performing arts major, or their equivalents. Consent of instructor.*

PAR 490

SENIOR RECITAL

See **MAP 490** on page 163.

Every semester/No credit

PAR 498

STAGE AND LIGHTING DESIGN

See **DRA 498** on page 173.

Fall, 1984, and alternate years/3 hours

DEGREE REQUIREMENTS—THEATRE/SPEECH

The Department of Performing Arts suggests that a major or minor in Theatre/Speech would be desirable for a student planning a career, not only in Theatre/Speech, but also in the ministry, religious education, secondary education, law, social work, or public relations. Scholarships are available by audition for the Second City Acting Company, a small select ensemble which tours to churches, clubs and schools each

semester. A major play is presented each semester; audition is open to the student body. A speech team competes in contests each year and performs publicly on campus.

The Theatre/Speech major shall consist of 33 hours, 12 of which must be upper division. Course work should be chosen from the following groups:

Requirements for a major in Theatre/Speech (B.A. Degree)

Group I:

SPC 113 Fundamentals of Speech
SPC 292 Group Discussion
 SPC 311 Advanced Public Speaking
 3-9 hours

Group II:

DRA 198 Acting I
 DRA 198 Acting I
 DRA 219, 319 Repertory Acting Company
 3-9 hours

Group III:

DRA 278 Introduction to Drama
 DRA 278 Introduction to Drama
 DRA 378 History of the Theatre
 3-6 hours

Group IV:

SPC 318 Voice and Diction
 SPC 318 Voice and Diction
 SPC 378 Oral Interpretation
 6 hours

Group V:

DRA 297, 397 Stagecraft
 DRA 297, 397 Stagecraft
 DRA 498 Stage and Lighting Design
 3 hours

Group VI:

253 DRA 298 Christian Drama
 SPC 104533 SPC /DRA 398 Communications and the Media
 413 DRA 488 Directing

3-6 hours

33 hours

Requirements for a minor in Speech

SPC 113 Fundamentals of Speech
 SPC 311 Advanced Public Speaking
 SPC 318 Voice and Diction
 SPC 378 Oral Interpretation of Literature
 SPC 292 Group Discussion
 Performing Drama

3 hours

3 hours

3 hours

3 hours

3 hours

3 hours

18 hours

Requirements for a minor in Theatre

DRA 198 Acting I
 DRA 297, 397 Stagecraft
 DRA 498 Stage and Lighting Design
 SPC 113 Fundamentals of Speech
 SPC 292 Group Discussion
 SPC 311 Advanced Public Speaking
 DRA 278 Introduction to Drama
 DRA 378 History of Theatre
 DRA 298 Christian Drama

3 hours

3 hours

3 hours

3-9 hours

3-9 hours

18 hours

DRAMA**DRA 198 ACTING I**

018 113
 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 coordination, grace, physical presence and facility in the actor, vocalist, teacher, athlete, and other persons involved in public performance. Two hours per week in studio work, and participation in productions.

*Fall, 1982, Spring, 1984 /3 hours***DRA 219****REPERTORY ACTING COMPANY**

243
 An advanced acting course that emphasizes the techniques of performing, staging, and the professionalism of the theatre. The company will tour various churches, schools, conventions, etc., in and out of state. Restricted to Theatre-Speech majors, this course may be repeated for credit not to exceed nine semester hours. *Prerequisite: consent of instructor.*

*Fall, Spring/3 hours***DRA 278****INTRODUCTION TO DRAMA**

213
 The study of dramatic structure, dramatic literature, period styles and various types of drama.

*Fall, 1983 (alternate years)/3 hours***DRA 297****STAGECRAFT**

23
 Also **PAR 297/397**. The study of set construction, lighting, costuming, properties, and make-up. Practical application of the above to be gained through college practicums. May be repeated for credit once.

*Fall, Spring/3 hours***DRA 298****CHRISTIAN DRAMA**

253
 Also **REL 253**. A creative Christian dramatics lab with opportunities to

Fall, 1983 (alternate years)/3 hours

perform for churches and other groups. Emphasis is on directing, selecting and editing, as well as performing religious drama. The student may choose to write original 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.

DRA 319 REPERTORY ACTING COMPANY See **DRA 219** on page 172.

DRA 378 HISTORY OF THE THEATRE Spring, 1983 (alternate years)/3 hours

Traces the major developments in theatre production from its known beginnings to modern times. *OR A 373- THEAT WORKSHOP - may be repeated once for credit*
DRA 397 STAGECRAFT See **DRA 297** on page 172.

DRA 398 COMMUNICATIONS AND THE MEDIA Spring, 1983 (alternate years)/3 hours

See **SPC 398** (below).

DRA 488 DIRECTING Spring, 1984 (alternate years)/3 hours

A study of theories and techniques of interpreting and directing plays through lectures and demonstrations. Laboratory projects in directing one-acts or scenes from full-length plays for public performance.

DRA 498 STAGE AND LIGHTING DESIGN Fall, 1984 (alternate years)/3 hours

Also **PAR 498**. The art of designing scenery and lighting for the theatre. Students will actively participate in designing college productions and classroom projects.

SPEECH

SPC 113 FUNDAMENTALS OF SPEECH Every semester/3 hours

A basic course which emphasizes voice, diction, and basic principles of oral communication. It is normally prerequisite to all other courses in speech and drama. Required, or equivalent, for education majors.

SPC 292 GROUP DISCUSSION Spring on demand/3 hours

The study of the communicative process as it relates to the theory and techniques of group discussion. Participation in discussion groups. *Prerequisite: SPC 113 or consent of instructor.*

SPC 311 ADVANCED PUBLIC SPEAKING Fall on demand/3 hours

An intense study of the techniques and practice of public speaking with emphasis on forensics. Provision is made for participation in tournament speaking. *Prerequisite: SPC 113 or consent of instructor.*

SPC 318 VOICE AND DICTION Fall, 1982 (alternate years)/3 hours

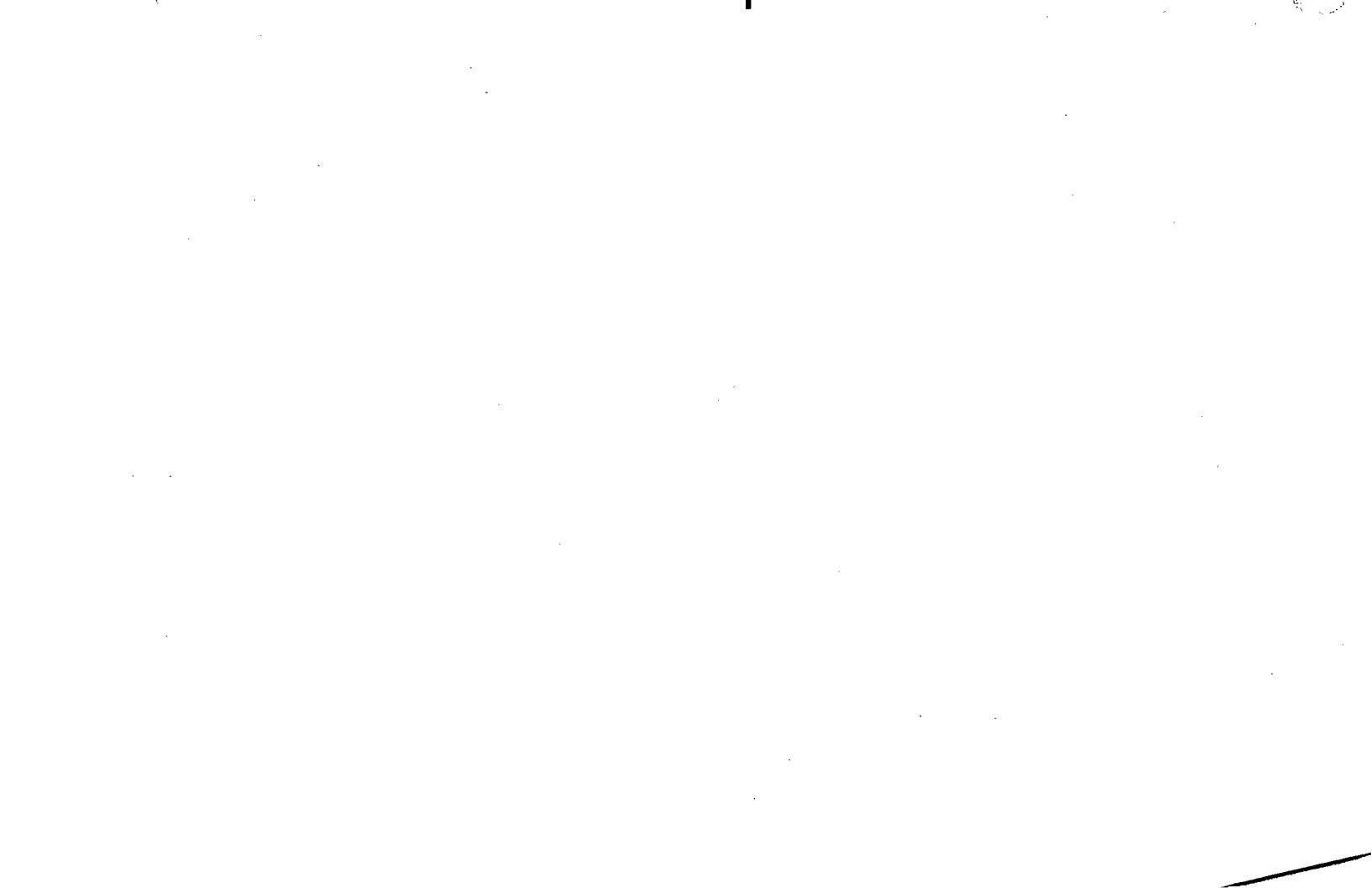
A basic study of phonetics, principles of voice production, vocabulary building, and the correction of weaknesses in voice production and enunciation.

SPC 378 ORAL INTERPRETATION OF LITERATURE Spring, 1983 (alternate years)/3 hours

A study of the methods and techniques of interpretative oral reading of varied types of literature.

SPC 398 COMMUNICATIONS AND THE MEDIA Spring, 1983 (alternate years)/3 hours

Also **DRA 398**. A study of communication techniques for mass media, with emphasis on oral communications. Advertising, news reporting, programming, and children's television will be explored.



RELIGION

Department Description

Degree Requirements—Bible

Bible

New Testament Greek

Degree Requirements—Religion

Degree Requirements—Religious Education

Religion

Philosophy

Center for Biblical Studies



DEPARTMENT DESCRIPTION

Courses in the Department of Religion are intended to give students an understanding and appreciation of the Bible, to arouse in them a desire for Christian usefulness, and to equip them for leadership in various church related activities.

Many courses in this department are designed to be beneficial to all college students. Some are courses which ministerial students should take, whether or not they expect to continue their studies in seminary.

Suggested Course of Study for Ministerial Students

The ministerial student should plan his course of study to give him the best possible general preparation for his life work. He should enroll in a wide variety of courses, according to his interests, that will provide background for his association with people in all fields of endeavor. Suggested areas include sociology,

psychology, history, science, business, and government. For improvement of his ability in communication, the ministerial student should become proficient in speech, English, and possibly journalism. He should take courses in physical education which will help him develop a lifelong program of health improvement and care.

In preparation for seminary and for spiritual growth, the ministerial student should take at least a minor in Bible or Religion. One who does not plan to go to seminary should major in one of these fields. Seminary courses are usually more technical and of broader scope than college courses. Usually, any Religion or Bible course offered in college will be only preparatory and will not result in repetition at seminary. Students planning to enter religious or church related work are strongly encouraged to pursue seminary studies following graduating from college.

DEGREE REQUIREMENTS—BIBLE

Requirements for a major in Bible (B.A. Degree)

BIB 113 and 123 Old and New Testament History	6 hours
BIB 373 Christian Doctrines	3 hours
Electives in Bible (may include 6 hours Religion)	21 hours

Requirements for a minor in Bible

BIB 113 and 123 Old and New Testament History	6 hours
BIB 373 Christian Doctrines	3 hours
Electives in Bible (3 hours upper division)	9 hours

BIBLE

BIB 113

OLD TESTAMENT HISTORY *Every semester and every Summer/3 hours*
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

NEW TESTAMENT HISTORY *Every semester and every Summer/3 hours*
A general historical survey of the New Testament, beginning with the inter-Biblical period, with the main emphasis given to the Gospels and Acts.

BIB 323

EVANGELISM

Spring, 1983, and alternate years/3 hours
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 123.

BIB 333

OLD TESTAMENT PROPHETS

Spring, 1984, and alternate years/3 hours
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 123.*

BIB 343

THE PENTATEUCH

(GENESIS—DEUTERONOMY)

Fall, 1982, and alternate years/3 hours
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 123.

BIB 353

OLD TESTAMENT POETRY

Fall, 1983, and alternate years/3 hours
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 123.

BIB 373

CHRISTIAN DOCTRINES

Every Fall/3 hours
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 123.*

BIB 423

GENERAL EPISTLES AND REVELATION

Spring, 1983, and alternate years/3 hours
A study of the historical background, authorship, and expository analysis of the General Epistles (Hebrews; James; I and II Peter; I, II, and III John; and Jude) and Revelation. *Prerequisites: BIB 113 and 123.*

BIB 433

LIFE AND TEACHINGS OF CHRIST

Fall, 1982, and alternate years/3 hours
A study of the life of Jesus, with special attention given to his person, teachings, and work. *Prerequisites: BIB 113 and 123.*

BIB 443

LIFE AND LETTERS OF PAUL

Every Spring/3 hours
A study of the life and times of the apostle Paul, with an interpretation of his epistles' historical setting. *Prerequisites: BIB 113 and 123.*

BIB 463

BIBLICAL BACKGROUNDS

Spring 1984, and alternate years/3 hours
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 123.

NEW TESTAMENT GREEK

The courses listed on the next page are designed to enable the student to acquire an early mastery of the essentials of inflection and syntax, to resolve the principal difficulties of grammatical analysis, and to develop in the student a vigorous and independent interest in the Greek

New Testament. Fourteen hours of Greek (two years) are recommended for the Bachelor of Arts degree. Students who plan to enter the Masters of Divinity program in seminary should take at least one year of Greek in college.

GRK 274 BEGINNER'S GREEK

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. Sophomore standing or special permission is required.

Every Fall/4 hours

GRK 284 BEGINNER'S GREEK

A continuation of **GRK 274**. A study of Davis' Grammar is completed, with simple exercises for reading and translation. Special attention is given to the meaning of cases, prepositions, and tenses. *Prerequisite: GRK 274 or equivalent.*

Every Spring/4 hours

GRK 373 ADVANCED GREEK GRAMMAR

For second year students of the Greek New Testament. Forms, syntax, and prose composition are reviewed. The student is required to translate I Thessalonians and is given, with each lesson, a demonstration of the significance of Greek forms as vital to accurate translation. *Prerequisite: GRK 284.*

Every Fall/3 hours

GRK 383**ADVANCED GREEK GRAMMAR**

A 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.*

Every Spring/3 hours

DEGREE REQUIREMENTS—RELIGION

Requirements for a major in Religion (B.A. degree)

BIB 113 and 123 Old and New Testament History

BIB 373 Christian Doctrines

REL 303, 333, 353, or 463

Electives in Bible or Religion

6 hours

3 hours

3 hours

18 hours

Requirements for a minor in Religion

BIB 113 and 123 Old and New Testament History

BIB 373 Christian Doctrines

Electives in Bible or Religion (3 hours upper division)

6 hours

3 hours

9 hours

DEGREE REQUIREMENTS—RELIGIOUS EDUCATION

Requirements for a minor in Religious Education

REL 213 A Survey of Religious Education

REL 243 Church Administration

REL 333 Psychology In Religion

EDJ 303 Foundations of Education or EED 343

Communication Arts in the Elementary School

3 hours

3 hours

3 hours

3 hours

Two of the following:

BIB 323 Evangelism

REL 253 Christian Drama: Directing and Performing

REL 302 Church Recreation

REL 363 Audio Visual Material and Methods

REL 393 Hymnology

6 hours

These hours do not include BIB 113 and BIB 123.

A student may receive a minor in Bible but not with a major in Religious Education with a major in Religion.

RELIGION

REL 113

CHURCH GROWTH AND DEVELOPMENT

Every Fall/3 hours

This course is designed to acquaint the student planning to enter religious work with practical matters in the growth and development of a local Southern Baptist church. Guest lecturers, including outstanding Southern Baptist Convention personalities, participate during the semester by invitation: persons who have expertise in the fields of Bible teaching, outreach, evangelism, stewardship, missions, and church leadership training. The organization of the Southern Baptist Convention is emphasized, particularly the working relationship among its boards and agencies. This 3-hour course is required of students receiving the ASBC loan/grant.

REL 213

A SURVEY OF RELIGIOUS EDUCATION

Fall, 1982, and alternate years/3 hours

An introductory and survey study of religious education, with emphasis on history, philosophy, objectives, educational techniques, and the related functions of the major program organizations of the local church. Attention also is given to the means of organized cooperation between churches.

REL 243

CHURCH ADMINISTRATION

Fall, 1982, and alternate years/3 hours

A study of the administration of the entire program of a church, including staff relationships, leadership development, teaching and training, worship, church music, stewardship, evangelism, counseling, and missionary outreach.

REL 302

CHURCH RECREATION See **REC 303** on page 107.

REL 303

BAPTIST AND AMERICAN CHURCH HISTORY

See **HIS 303** on page 114.

REL 253

CHRISTIAN DRAMA: DIRECTING AND PERFORMING

See **DRA 298** on page 172.

REL 323

CHRISTIAN MISSIONS

On demand/3 hours

A survey of Christian missions throughout the world, with special emphasis upon the missionary activities and techniques of Southern Baptists.

REL 333

PSYCHOLOGY OF RELIGION

Spring 1984, and alternate years/3 hours

Also **PSY 333**. Designed to help the student understand and relate to the mental processes involved in individual religious experience and in group dynamics, with particular reference to religious motivation, integration of personality, guilt feelings, conversion, prayer, worship, and principles of leadership.

REL 353

CHURCH HISTORY See **HIS 353** on page 115.

REL 363

AUDIO-VISUAL MATERIALS AND METHODS

See **EDU 363** on page 98.

REL 373

PASTORAL MINISTRY

Fall, 1983, and alternate years/3 hours

A study of the philosophy and practice of pastoral work, including a study of the pastor's call, his leadership role in the church, his personal character, health and preparation, pastoral care, preaching, counseling, leadership in worship, and administration of church affairs.

REL 383 HOMILETICS

Fall, 1982, and alternate years/3 hours
A study of principles and practice of preaching, types of sermons, principles and procedure of sermon preparation. Students will prepare several sermons during the semester. *Prerequisite: BIB 113 and 123.*

REL 393 HYMNOLOGY See **MCH 372** on page 164.

REL 463 WORLD RELIGIONS

On demand/3 hours
Also **PHI 463**. A study of the major religions of the world, both ancient and contemporary, with emphasis upon primitive religions. Hinduism, Buddhism, Taoism, Confucianism, Shintoism, Zoroastrianism, Islam, and Judaism.

PHILOSOPHY

PHI 213 INTRODUCTION TO PHILOSOPHY

Every Spring/3 hours
A survey of the types of philosophy, the basic problems which man has faced, and the philosophic attempts to solve these problems.

PHI 463 WORLD RELIGIONS See **REL 463** (above).

CENTER FOR BIBLICAL STUDIES

The Department of Religion has established a Center for Biblical Studies to enlist more students in the study of Bible and religion and to render a service to the community.

Under this program a person not enrolled in any other college may take up to seven hours of college work per semester, all of which must be in Bible, Greek, or Religion. These courses may be audited or taken for credit. Any of the courses listed in the Department of Religion, except

Philosophy, may be taken under the program, only during a regular Fall or Spring semester.

A certificate will be awarded upon completion of 18 hours and an advanced certificate for 30 hours.

There is a special tuition fee of \$35 per semester hour. See page 22 for specific financial information pertaining to those enrolled in the Center for Biblical Studies.

SAMARITAN COLLEGE OF NURSING

Department Description
Degree Requirements
Curriculum Plan
Nursing



DEPARTMENT DESCRIPTION

Samaritan College of Nursing is an integral part of Grand Canyon College, working closely with the liberal arts and natural sciences departments. The nursing program provides a curriculum which leads to the degree of Bachelor of Science in Nursing. Courses are designed to assist the student to assess individual and community health problems, formulate and plan nursing interventions and to function as a professional within the health team. Emphasis is on both a strong academic foundation and nursing practice. The student will have supervised clinical experiences in health care agencies within the metropolitan area. The student is responsible for personal transportation and uniform expenses necessary for the nursing major. Students are also expected to reflect the purpose of Grand Canyon College while representing the nursing program in the various clinical areas.

During the initial course in nursing, NUR 201, Personal Professional Goals in Health Care, the student applies to the nursing major. Approval of acceptance into the Samaritan College of Nursing will be determined by the Nursing Admissions Committee. The application procedure requires a completed application form, three personal references, successful completion of Math and English qualifying exams, satisfactory completion of Nursing prerequisites including NUR 201, and space availability. Priority for acceptance is given to students who have completed their first three semesters in residence at Grand Canyon College. Applications and deadlines are made available at the beginning of the NUR 201 course during both Fall and Spring semesters. Provisional approval for the nursing program has been granted by the Arizona State Board of Nursing. Full accreditation is anticipated upon graduation of the first class.

DEGREE REQUIREMENTS

Prerequisites for Nursing

EEW 113, 123 Grammar/Composition
 CHE 101, 102 Chemistry *3C 231 (122)*
 PSY 213 General Psychology
 PSY 250 Growth & Development
 BIO 251, 252 Anatomy & Physiology
 SOC 213 Principles of Sociology
 BIO 344 Microbiology
 *MAT 120 Intermediate Algebra *(only recommended)*

6 hours
 8 hours
 3 hours
 3 hours *PSY 353*
 8 hours
 3 hours
 4 hours
 3 hours
 Total 38 hours

Requirements for Graduation

BIB 113 Old Testament History
 BIB 123 New Testament History
 HIS 113, 123 History/Civ. I, II
 HIS 123, 233 Civ. II, III or
 HIS 213, 223 U.S. His.
 AH 112 Art or MUS 252 Music Appr.
 Activity P.E.

3 hours
 3 hours
 6 hours
 2 hours
 4 hours

231
@ # 2101 - @ NE 10 2
BIO 344 & CHE 102
MAT 363 Statistics
Free Elective

3 hours *NUR*
6 hours
Total 27 hours

Nursing

NUR 201 Personal & Professional Goals

in Health Care

2 hours

NUR 202 Fundamentals of Nursing - (R.V. *with*)

5 hours

NUR 301 Maternity Nursing

6 hours

NUR 302 Pediatric Nursing

6 hours

NUR 303 Concepts of Med/Surg Nursing

6 hours

NUR 304 Mental Health Nursing

6 hours

NUR 401 Community Health Nursing

6 hours

NUR 402 Advanced Med/Surg Nursing

6 hours

NUR 403 Nursing/Leadership and Management

6 hours

NUR 404 Research, Trends and Issues

3 hours

NUR 498 Senior Nursing Practicum

3 hours

Total 55 hours

9 hours

January Term

Grand Total 129 hours

CURRICULUM PLAN

The following suggested program outlines the courses required for the degree. The schedule may need to be adjusted due to individual needs.

Tentative Curriculum Plan

Freshman

Fall

EEW 113 Grammar/Composition

3 hours

BIO 251 Anatomy & Physiology**

4 hours

CHE 101 Chemistry

4 hours

MAT 120 Intermediate Algebra***

3 hours

Physical Education*

1 hour

15 hours

Spring

EEW 123 Grammar/Composition

3 hours

BIO 252 Anatomy & Physiology

4 hours

CHE 102 Chemistry

4 hours

PSY 213 General Psychology

3 hours

Physical Education*

1 hour

15 hours

Sophomore

Fall

NUR 201 Goals in Health Care

2 hours

BIO 344 Microbiology

4 hours

PSY 250 Growth & Development

3 hours

Bible or History*

3 hours

SOC 213 Principles of Sociology

3 hours

Physical Education*

1 hour

16 hours

Spring

NUR 202 Fundamentals of Nursing
 MAT 363 Statistics
 Bible*
 History*
 Physical Education*

5 hours
 3 hours
 3 hours
 3 hours
 1 hour

 15 hours

3 hours

January Term

Junior**Fall**

NUR 301 Maternity Nursing
 NUR 302 Pediatric Nursing
 Bible or History*

6 hours
 6 hours
 3 hours

 15 hours
Spring

NUR 303 Concepts of Med/Surg Nursing
 NUR 304 Mental Health Nursing
 Free Elective

6 hours
 6 hours
 3 hours

 15 hours

3 hours

January Term

Senior**Fall**

NUR 401 Community Health Nursing
 NUR 402 Advanced Med/Surg Nursing
 Free Elective

6 hours
 6 hours
 3 hours

 15 hours
Spring

NUR 403 Nursing Leadership/Mgmt.
 NUR 404 Research, Trends & Issues
 NUR 498 Senior Nursing Practicum
 Art or Music Appreciation*

6 hours
 3 hours
 3 hours
 2 hours

 14 hours

3 hours

January Term

*Required for graduation not prerequisite to nursing major.

**BIO 214 Zoology is a prerequisite if no high school biology.

***Self-paced math lab required of students without high school algebra

NURSING

NUR 201

PERSONAL AND PROFESSIONAL GOALS IN HEALTH CARE

Every semester/2 hours

Introduces the relationships of nursing and related helping professions involved in health care from a basis of communication theory. The evolution of nursing practice education and professional organizations is discussed with emphasis on a personal decision for nursing. Students considering nursing or other helping professions are encouraged to explore unique opportunities for growth. *Prerequisite: 30 hours or approval of instructor.*

NUR 202

FUNDAMENTALS OF NURSING

Every semester/5 hours

Presents basic nursing care of the person with an acute illness requiring hospitalization. An application of the physical and social sciences,

pharmacology, nutrition, medical and surgical intervention are integrated. The individual's cultural, spiritual and developmental needs are considered in teaching and planning toward optimal wellness. *Prerequisite: NUR 201.*

NUR 301

MATERNITY NURSING

Every semester/6 hours

Family-centered nursing for the childbearing phase of life is emphasized. Content includes the normal phenomena and complications of pregnancy, birth and the post natal period. In patient and out patient settings are utilized to provide care for patients and families. *Prerequisite: NUR 202.*

NUR 302

PEDIATRIC NURSING

Every semester/6 hours

An integration of nursing theories, concepts of care, clinical skills, and developmental principles involved with the promotion of health and well-being in infants, children and adolescents. Focus is on the physical/developmental/environmental assessment and the clinical application of nursing care to young persons who are well or experiencing acute, episodic or chronic illnesses and to their families. *Prerequisite: NUR 202.*

NUR 303

CONCEPTS OF MEDICAL-SURGICAL NURSING

Every semester/6 hours

Presents Medical-Surgical nursing common to the adult within the hospital setting. Content includes care of patients with acute, chronic and terminal illness, common medical and surgical problems, care of the unconscious adult, and musculo-skeletal interferences. Assessment, pharmacology and patho-physiology is presented. *Prerequisite: NUR 301, 302.*

NUR 304

MENTAL HEALTH NURSING

Every semester/6 hours

Presents human behavioral dysfunction as part of the mental health wellness-illness continuum. Content includes adaptive/maladaptive behavior as influenced by individual, family, cultural and other environmental aspects. Emphasis is on therapeutic communication and interpersonal relationship skills. *Prerequisite: NUR 301, 302.*

NUR 323

WOMEN'S HEALTH

Every Fall/3 hours

The course is designed to explore the spectrum of healthy women in our society. The social, biological, psychological and spiritual characteristics of the healthy women are identified as documented in current literature and are critically analyzed by the student. Scheduled field experiences highlight options for women in the health care settings. This course is open to the non-nursing major. *Prerequisite: PSY 213.*

NUR 401

COMMUNITY HEALTH NURSING

Every Semester/6 hours

Identifies the nursing role in the provision of primary care, focusing specifically on the prevention of illness and the promotion of health of families/population groups. Client responsibility to manage self-care is emphasized. The student is prepared for beginning practice in community health nursing. *Prerequisite: NUR 304.*

NUR 402

ADVANCED MEDICAL-SURGICAL NURSING

Every semester/6 hours

This course presents the complex nursing care of the Medical-Surgical adult in the intensive care area. Patho-physiology and related nursing care of life threatening disruptions involving cardiac, respiratory, neurological, renal, gastrointestinal, other organ dysfunctions and malignant interferences are covered in theory and clinical situations. *Prerequisite: NUR 304.*

NUR 403**NURSING LEADERSHIP AND
MANAGEMENT***Every semester/6 hours*

Presents purposes and methods of leadership styles and method within the clinical setting. Emphasis is on the management of groups of patients, consumers and professional staff. Content includes: planning and evaluating nursing care, supervising personnel, managerial interpersonal relations, education skills, budget and finance within organizations and common problems encountered in the professional role. *Prerequisites: NUR 401, 402.*

NUR 404**RESEARCH, TRENDS AND
ISSUES IN NURSING***Every semester/3 hours*

The research process is presented as a framework for analysis of clinical practice, delivery systems, legislation, nursing trends, publications and change. Content includes: applications or research in nursing factors affecting health care, ethics, nursing manpower, professional writing and expanded roles for nurses. *Prerequisites: NUR 401, 402.*

NUR 498**SENIOR NURSING PRACTICUM***Every semester/3 hours*

Provides a student directed choice to expand knowledge and skill in selected nursing specialties of interest. Faculty members assist students in planning, implementing and evaluating the learning experience. The practicum may include settings in nursing practice, nursing education or nursing administration. *Prerequisites: NUR 401, 402.*

RESERVE OFFICERS TRAINING CORPS

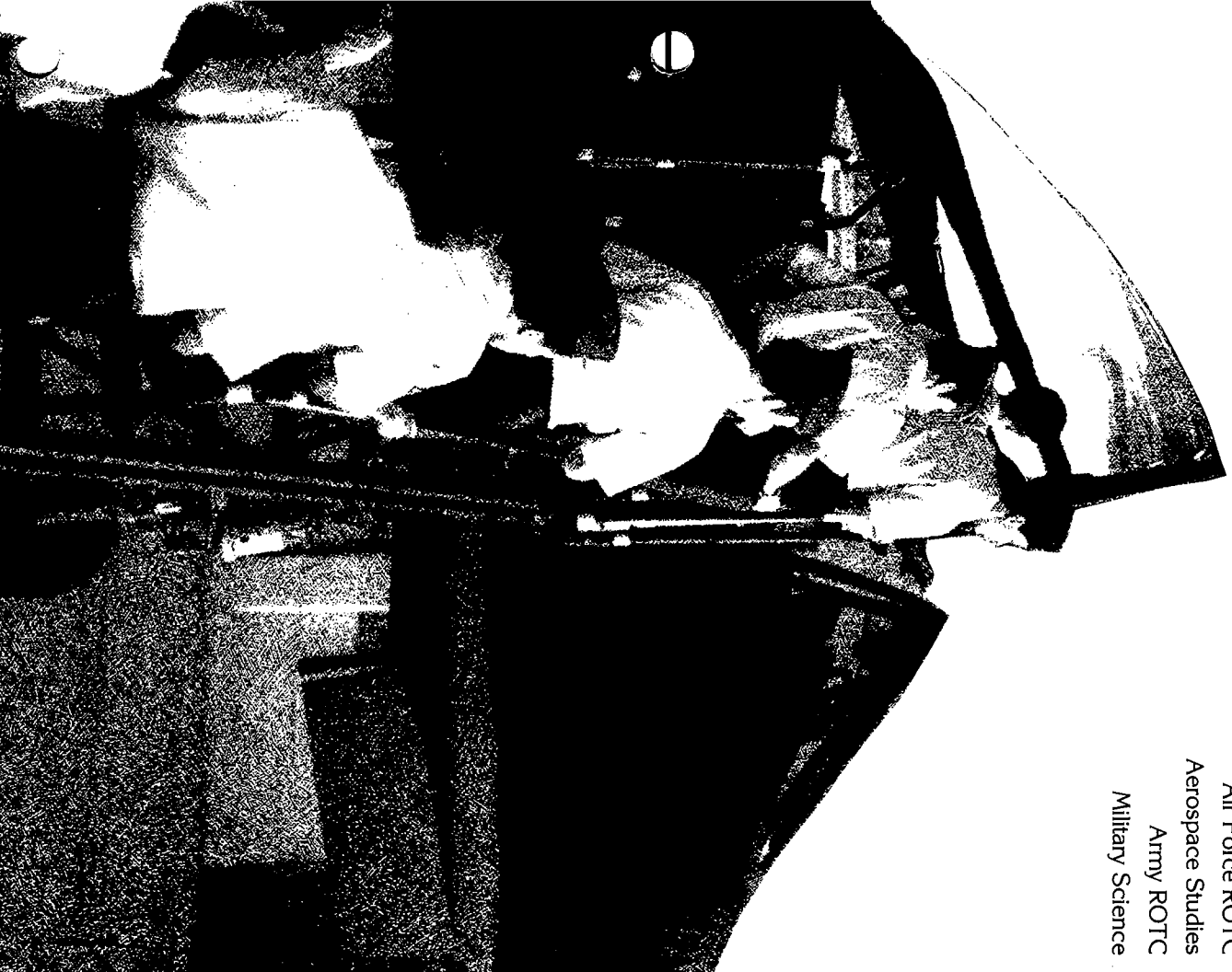
Department Description

Air Force ROTC

Aerospace Studies

Army ROTC

Military Science



DEPARTMENT DESCRIPTION

Through an agreement with Arizona State University, Grand Canyon College offers a four-year program of Air Force and Army ROTC. Students register for the classes at Grand Canyon College and take the courses at Arizona State University. Army ROTC students may also take any of the first two years of

classes at one of the community college campuses.

The goal of this professional education is to provide the foundation of military knowledge and skills needed by the junior officers of the military service. Students may take ROTC credit in Aerospace Studies or Army Military Science.

AIR FORCE ROTC

Purpose

The Aerospace Studies curriculum consists of the General Military Course for freshmen and sophomores and the Professional Officer Course for juniors and seniors. Upon graduation, each student who satisfactorily completes the Professional Officer Course and Baccalaureate degree requirements will receive a commission as a Second Lieutenant in the Air Force Reserve.

A man or woman entering AFROTC must (1) be a citizen of the United States (noncitizens may enroll, but they must obtain citizenship prior to commissioning); (2) be of sound physical condition; (3) be at least 17 years of age for scholarship appointment or admittance to the Professional Officer Course. If designated for flying training, one must be able to complete all commissioning requirements prior to age 26½; in other categories one must be able to complete all commissioning requirements prior to age 30 (without a waiver).

Four-Year Program

A formal application is not required for students entering the Four-Year Program. A student may register for the program at the same time and in the same manner as other courses. During their first two years, students enroll in the General Military Course (GMC) normally taking one Aerospace Studies course each semester. They may then compete for entry into the Professional Officer Course (POC), which is normally taken during the last two years of college. GMC students not on AFROTC scholarship incur *no military obligation*. They receive 2.0 semester hours of credit for each AES 100 and 200 class completed. The classes consist of one hour of academic instruction and one hour of Leadership Laboratory a week. Selection for the POC is based on a system that uses several factors to determine a student's officer potential. This includes an Air Force aptitude test, a physical examination, and an interview board. Those students accepted into the POC attend a four-week summer field training encampment normally between their sophomore and junior years. Students enrolled in the POC (AES 300 and 400 classes)

receive 3.0 semester hours of credit for each course. Upon successful completion of the POC and the college requirements for a baccalaureate degree, the student is commissioned in the U.S. Air Force Reserve as a Second Lieutenant.

Students who have not taken the first two years of AFROTC may still compete for entry into the Professional Officer Course. Applicants must have at least two academic years of college work remaining, either at the undergraduate or graduate level. The selection process for the POC is the same as described for the Four-Year Program; however, these students must also successfully complete a six-week field training course at an Air Force base prior to enrollment. Upon completion of the POC and the college requirements for a baccalaureate degree, the student is commissioned.

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

1. For the four-year student, successfully complete the General Military Course, or for the two-year applicant, complete a six-week field training course.
2. Complete the Air Force Officer Qualifying Test (AFOQT).
3. Pass the Air Force physical examination.
4. Maintain a minimum grade point average of 2.0 ("C").

POC members in their junior and senior years receive \$100 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. Students in the POC may also travel free on military aircraft on a space-available basis. Pilot candidates in the Flight Instruction Program receive up to 25 hours of free flight training while in school.

Air Force ROTC 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 books, laboratory and incidental fees, plus a monthly tax-free allowance of \$100. Scholarships are available on a four-, three-, and two-year basis. To qualify for the four-year scholarship, the student must be a U.S. citizen pursuing one of the several selected academic majors and submit an application prior to December 15th of his/her senior year in high school or first year of college if enrolled in a 5-year curriculum. Interested students should consult their high school counselors or an

Two-Year Program

Qualifications For POC

Pay and Allowances

Scholarships

AFROTC detachment. Male and female students enrolled in AFROTC at Grand Canyon College are eligible for three- and two-year scholarships. 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.

AEROSPACE STUDIES

AES 101

AEROSPACE STUDIES

Introduction to U.S. Air Force organization, mission, doctrine, offensive and defensive forces. One lecture, 1 hour Leadership Practical Application Lab. *2 hours*

AES 102

AEROSPACE STUDIES

Background on strategic missile defense forces, general purpose and aerospace support forces in national defense. One lecture, 1 hour Leadership Practical Application Lab. *2 hours*

AES 201

AEROSPACE STUDIES

Historical survey of events, trends, and policies leading to the emergence of air power through WW II. One lecture, 1 hour Leadership Practical Application Lab. *2 hours*

AES 202

AEROSPACE STUDIES

Development of aerospace power from WW II to the present emphasizing the impact of limited war and technology on roles and missions. One lecture, 1 hour Leadership Practical Application Lab. *2 hours*

AES 301

AEROSPACE STUDIES

An integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivational and behavioral processes, leadership, communication, and group dynamics are covered to provide a foundation for the development of the junior officer's professional skills as an Air Force officer. Three lectures, 1 hour Leadership Practical Application Lab. *3 hours*

AES 302

AEROSPACE STUDIES

Integrated management course emphasizing the individual as a manager in an Air Force milieu. Organizational and personal values, management of forces in change, organizational power, politics, managerial strategy and tactics. Military justice and administrative processes are discussed within the context of the military organization. Three lectures, 1 hour Leadership Practical Application Lab. *3 hours*

AES 401

AEROSPACE STUDIES

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, the political, economic, and social constraints on the national defense structure. Three lectures, 1 hour Leadership Practical Application Lab. *3 hours*

AES 402

AEROSPACE STUDIES

Formulation and implementation of U.S. defense policies; impact of technological and international developments on strategic preparedness in the overall defense policy-making processes. Three lectures, 1 hour Leadership Practical Application Lab. *3 hours*

AES 403 FLIGHT INSTRUCTION

Non-credit. Limited to senior cadets who are selected as pilot candidates.

ARMY ROTC**Purpose**

The goal of this professional education is to prepare selected students with leadership potential to be commissioned as Army officers in the active Army, Army National Guard, and U.S. Army Reserve. Specific objectives include providing students an understanding of nature and operations of the U.S. Army; developing the leadership and managerial potential of the students; developing students' abilities to think creatively, to speak and write effectively; and to provide the student with an appreciation of the requirements for national security. Upon graduating from the College each student who has successfully completed the Advanced Course will receive a commission in the United States Army Reserve.

Appointments as Second Lieutenants in the Regular Army are available to outstanding students who desire a career in the military service.

A male or female student entering Army ROTC must (1) be a citizen of the United States (noncitizens may enroll but must obtain citizenship prior to commissioning); (2) be of sound physical condition; (3) be at least 17 years of age for entrance into the Advanced Course and be able to complete all commissioning requirements prior to age 32. Students with prior active military service or previous high school ROTC may be given credit for all or a part of the first two years of the program.

**General
Qualifications**

Qualifications for admittance to the Advanced Course are:

1. Successful completion of the first two years of the program, or equivalent credit (prior military service, high school ROTC, etc.)
2. Passing of the ROTC Qualifying Examination.
3. Passing the Army physical examination.
4. Attainment of a minimum cumulative grade point average of 2.0 ("C") for the first two years of college work and maintenance of that minimum during the period while enrolled in the Advanced Course.

**Qualifications
for Advanced
Course****Four-Year
Program**

Students normally enroll in Army ROTC during their freshman year. They take the Basic Course during the first two years, receiving a total of 8 semester hours credit for the four semesters of study. Upon satisfying the requirements stated above, they enter the Advanced Course where they will earn 10 semester hours of credit for the four semesters of study. In addition, students will attend a five-week

advanced summer camp at an Army post between their third and fourth years. Upon successful completion of the Advanced Course and requirements for a degree, they are commissioned as Second Lieutenants in the United States Army Reserve.

Two-Year Program

Students must have two academic years of college remaining, either at the undergraduate or graduate level, or a combination of the two. Students seeking enrollment in the two-year program should make application during the spring semester of the year in which they desire to enter the program. They must pass the ROTC Qualifying Examination, the Army physical examination, and must be selected by an interview board of Army officers. After successfully completing a five-week basic summer camp at an Army post (normally conducted during June and July), students may enroll in the Advanced Course. They then follow the same program and meet the same requirements as stated for Advanced Course students in the four-year program. Veterans and others with the equivalence of the first two years of ROTC may enter the two-year program without attending basic camp.

Financial Assistance Programs

Subsistence Allowance. All contracted Advance Course students receive \$100 per month during the academic year plus approximately \$500 for Advanced Camp completion.

Scholarships. Grand Canyon students are eligible to apply for three-, two-, and one-year Army ROTC scholarships. All ROTC scholarships pay all tuition, fees, books, academic supplies and \$100 per month during the academic year.

Three-Year and Two-Year Scholarships. Available to qualified college students. Previous military or ROTC experience is not necessary.

One-Year Scholarships. Available to qualified senior ROTC cadets.

Simultaneous Memberships Program. A newly authorized program which allows membership in the Army Reserve or National Guard at the same time a student is in ROTC. This new program pays over \$1000 each semester the student attends college.

Pay and Allowances

Advanced Course students in their junior and senior years receive \$100 per month for the 20 months of enrollment in the Advanced Course. The students also receive one-half the pay for a second lieutenant during their attendance at the five-week advanced camp. Uniforms, housing and meals are provided at camp without cost to the students, and they are reimbursed for travel to and from the camp. Students who enter the two-year program will receive

the pay of an Army recruit during attendance at the basic summer camp as well as reimbursement for travel to and from the camp.

Active Duty Requirements

Graduates of Army ROTC may spend from three months to three years of active duty depending on U.S. Army Reserve options. Scholarship students and those students who desire an Army career and receive a Regular Army commission have additional amounts of time added to their basic three-year commitment. A delay from call to active duty for up to four years is available to outstanding students who desire to earn a graduate degree.

MILITARY SCIENCE

MIS 101 INTRODUCTION TO MILITARY SCIENCE

2 hours

Organization and mission of the Army; the military and American society; introduction to military/leadership theory; situational/contingency approach to basic problems in small unit leadership. Two lecture-conferences.

MIS 102

METHODS OF INSTRUCTION

2 hours

Learning theories and principles of instruction; development of instructor knowledge, skills, and attitudes; instructional aids; student presentations. Two lecture-conferences.

MIS 201

LEADERSHIP AND MANAGEMENT DEVELOPMENT

2 hours

Evolution of warfare and theories of conflict; organization and role of the U.S. Department of Defense in national security; interdisciplinary approach to leadership and management; resource management in small unit operations; effective techniques for decision-making studies. One lecture-conference, 1 hour Leadership Practical Application.

MIS 202.

LAND NAVIGATION

2 hours

Military geography; use of maps and aerial photographs; orienteering and land navigation, fundamentals and problems. One lecture-conference, 1 hour Leadership Practical Application.

MIS 301

ADVANCED MILITARY SCIENCE

3 hours

Theory, organization, and dynamics of military forces in combat operations; small unit offensive and defensive tactics. *Prerequisites:* MIS 201 and 202, or equivalent. *Three lectures-conferences, 1 hour Leadership Practical Application.*

MIS 302

ADVANCED MILITARY SCIENCE

3 hours

Roles of the branches of the Army; organization of the special and general staff; preparation for applied leadership; command and staff relationships. *Prerequisites:* MIS 301. *Three lectures-conferences, 1 hour Leadership Practical Application, 3-day field training exercise.*

MIS 401

ADVANCED MILITARY SCIENCE

2 hours

The military legal system; evolution of the U.S. Army; selected campaigns and leaders through the Spanish-American War; opposing strategies; objectives, attitudes, relationships to changing social, economic, political and military institutions. *Prerequisites:* MIS 303A and 303B. *Two lectures-conferences, 1 hour Leadership Practical Application.*

MIS 402

ADVANCED MILITARY SCIENCE

2 hours

Selected campaigns and leaders from 1917 to the present; U.S. position in the contemporary world and its impact on military command and management; career planning and personal affairs. *Prerequisites: MIS 401. Two lectures, 1 hour Leadership Practical Application.*

VIII. PERSONNEL*

Trustees

Administration

Staff

Faculty

Adjunct Faculty

*As of April 1, 1982



BOARD OF TRUSTEES 1982-83

Three Year Term expiring 1984:	One Year Term expiring 1982:
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Rev. Steve Dale	Rev. Dennis Daniel
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Mr. Tom Holland	Dr. Wayne North
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Dr. Johan Parks	Mr. Vernon Walker
Mr. Maurice Pewitt	Mr. Robert R. Whiteaker
Mr. Doug Powell	

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 Dr. Oran Jack Brown
 Mrs. Maude Dabney
 Rev. John Davis
 Mrs. Verlyne Meck
 Mr. Henry Ong
 Mrs. Rae Spitler
 Mr. Burton Tingle
 Mr. Lloyd Vaughn
 Mr. Terry Wong

Ex-Officio

Dr. Jack Johnson, Executive
 Director-Treasurer, ASBC
 Rev. Charles Pollard, President
 ASBC

ADMINISTRATION**President**

Bill R. Williams, B.S., M.A. in Ed., M.A., Ed.D. (1965)
 B.S., Grand Canyon College/M.A. in Ed., Arizona State University/
 M. A., University of Illinois/Ed.D., Arizona State University/Additional
 Graduate Study: Arizona State University and Utah University

Executive

Dillard Whitis, B.A., M.R.E., Ph.D. (1968)

B.A., Baylor University/M.R.E., Southwestern Baptist Theological
 Seminary/Ph.D., Arizona State University

Vice President**Senior VP for****Institutional****Advancement****Academic Dean**

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B.S., Baylor University/Ph.D., University of Pennsylvania/Postdoctoral
 Research Fellow, University of Illinois/Visiting Research Professor,
 University of Houston and Rice University

Vice President**for Development**

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B.A., Iowa State University/M.A., University of Iowa/Ed.D., University of
 Oregon

Dean of Nursing

Tina Olson, B.S.N., M.S.N.

B.S.N., M.S.N., University of Pennsylvania/ Doctoral Candidate, Baylor
 College of Medicine/University of Houston

Dean of**Students/****Director of****Placement**

Treva K. Gibson, B.A., M.Ed.

B.A., Southern Illinois University/M.Ed., University of Missouri/Doctoral
 Studies, Arizona State University

Athletic Director	Bill Estes, B.S., M.S., E.D.D. B.S., M.S., North Texas State University/ E.D.D., George Peabody College
Registrar	Barry Thompson, B.S. B.S., Grand Canyon College
Business Manager	Ron Brown, B.S. B.S., Olivet Nazarene College
Head Basketball Coach	Jay Arnote, B.A., M.A. B.A., Arizona State University/ M.A., Northern Arizona University
Head Baseball Coach	Gil Stafford, B.S., M.Ed B.S., Southern Illinois University/ M.Ed., University of Missouri
Librarian	David Rhew, Jr., B.A., M.L.S., M.Div. B.A., University of Corpus Christi/ M.L.S., North Texas State University/ M.Div., Southwestern Baptist Theological Seminary
Director of Admissions	Dori Wilson, B.S., M.Ed. B.S., Grand Canyon College/ M.Ed., Northern Arizona University
Director of Financial Aid	John Medley, B.S. B.S., Grand Canyon College
Director of Student Development	Carole Stensrud, B.A., M.A. B.A., M.A., Arizona State University
Director of Annual Funds	Joyce Parker, D.P.S. Honorary Doctorate in Public Service, Grand Canyon College
Director of Physical Plant	Terry Miller

STAFF

Mrs. Dorothy Bickers.....	Secretary to the Registrar
Mr. David Billet.....	Groundsman
Mrs. Betty Blaedorn.....	Accounting Clerk
Mrs. Betty Jean Bonds, B.A.	Executive Assistant to the President
B.A., Grand Canyon College	
Mrs. Betty Brown.....	Executive Secretary to the Executive Vice President
Mrs. Toby Carlson.....	Mail Clerk
Mrs. Mary Carroll, B.A.....	Assistant in the Library
B.A., Grand Canyon College	
Mrs. Laura Rawley Cheroske	Financial Aid Analyst
Miss B. Dianne Childers	Business Office Manager
Mrs. Danell Conway, B.S.....	Cashier
B.S., Grand Canyon College	
Ms. Donna K. Dean.....	Director of Public Relations
Mrs. Sheree Deardoff, B.S.....	Data Entry Supervisor
B.S., Grand Canyon College	
Mr. Gary Edge.....	Computer Programmer
Mrs. Sherry Elsey.....	Secretary to the Librarian
Mrs. Nita Freeman.....	Secretary to the Business Manager
Mrs. Merlie Friesen	Cook
Mr. Paul Fulmer.....	Groundsman

Mrs. Clara Gilmore, B.S.	Nurse
B.S., Grand Canyon College	
Mrs. Carol Greenwalt	Credit and Collections Coordinator
Mr. Gary Gregory	Journeyman Carpenter
Mrs. Ann Grimm, B.S., M.A.	Assistant Librarian
B.S., Grand Canyon College/M.A., Arizona State University	
Mr. Ben F. Harris	Custodian
Mr. Joe Harris, B.B.A., M.B.A.	Assistant Financial Aid Director
B.B.A., Baylor University/M.B.A., Texas Christian University/Additional	
Graduate Study: University of Oklahoma, University of Tulsa, Arizona State	
University, Southwest Baptist Theological Seminary	
Mrs. Caron Hatch	Secretary in Development
Mr. Loyd Hester	Purchasing Agent
Mr. Joe Hevener	Cook
Mrs. Pamela Hill, B.A.	Secretary to the Academic Dean
B.A., Grand Canyon College	
Mrs. Jo Hodges	Head Periodicals
Mr. Mike Holder, B.S.	Admissions Counselor
B.S., Grand Canyon College	
Mrs. Dianne Houghton, C.P.A., B.S.	Comptroller
B.S., Arizona State University	
Mrs. Mary Johnson	Associate Registrar
Mrs. Fan Meredith, B.A.	Alumni Secretary
B.A., Grand Canyon College	
Mr. Kendrick Miller	Head Groundsman
Mr. Ted Miller	Apprentice Carpenter
Mr. Burke Moser	Custodian
Miss Michal O'Brien, B.F.A.	Budget Control Clerk
B.F.A., West Texas University	
Mrs. Gloria Powers	Secretary in the Athletic Department
Miss Cathy Pugh	Director of Resident Life
Mr. Kim Reeves	Electrician
Miss Julie Roberts	Cafeteria Server
Mr. George Rogers	Antelope Press Director
Mrs. Joan Rolfe, B.S.	Academic Counselor
B.S., Grand Canyon College	
Mrs. Carrie Sattler	Secretary/Typesetter
Mr. David Shade	Assistant Manager of Cafeteria
Mrs. Gail Skeens	Secretary to the Dean of Nursing
Mr. Carl Snider	Head Custodian
Mrs. Nancy Snider	Director of Women's Dorm
Mrs. Linda Swalley	Bookstore Manager
Mr. Ralph Swalley	Food Service Director
Mrs. Marti Toon	Executive Secretary to the Senior Vice President
Miss Jana Turley	Secretary/Receptionist in Student Development
Mrs. Sybil Utterback	Chief Accountant
Mrs. Sharon Zimmerman	Secretary in Admissions

FACULTY

The list of faculty is in alphabetical order by the faculty member's name.

Cary Neil Adkins, B.A., M.A., M.F.A., Assoc. Professor of Art
B.A., Berea College/M.A., M.F.A., East Tennessee State University

Majorie Vanderlinden Albert, B.S.N., M.S.N.

..... Assoc. Professor of Nursing
B.S.N., Arizona State University/M.S.N., Texas Women's University

Mike Baird, B.A., M.Div., Asst. Professor of Religion

B.A., Grand Canyon College/M.Div., Southwestern Baptist Theological
Seminary/Doctoral Candidate, Southwestern Baptist Theological
Seminary

Euel Belcher, B.M., M.M., D.Music, Professor of Music
B.M., Texas Wesleyan College/M.M., D. Music, Indiana University

David Brazell, B.S., M.S., Ed.D.

..... Professor of Health and Physical Education
(also **Chairman of Department of Health and Physical Education**)
B.S., University of Central Arkansas/M.S., University of Arkansas/Ed.D.,
Arizona State University

Mildred Brazell, B.A., M.A., Ed.D.

..... Professor of Health and Physical Education
B.A., University of Central Arkansas/M.A., Ed. D., Arizona State University

Ralph Bryan, B.S., M.A., Ph.D., Professor of English
(also **Chairman of Department of Humanities**)

B.S., M.A., Arizona State University/Ph.D., University of Colorado

Richard Carter, B.A., M.Div., Ph.D., Assoc. Professor of Psychology

B.A., California State University, Fresno/M.Div., Fuller Theological
Seminary/Ph.D., Graduate School of Psychiatry, Fuller Theological
Seminary

David Claxton, B.S., M.S., Assoc. Professor of Physical Education
(also **Tennis Coach**)

B.S., M.S., Arizona State University

Maye K. Davis, B.A., M.A., Assoc. Professor of Education

B.A., Pacific University/M.A., Arizona State University/Reading Specialist,
Arizona State University/Additional Graduate Study: Portland State
University, Eastern Oregon University, University of Arizona

Elizabeth Gilbert, B.S.N., M.S.N., Asst. Professor of Nursing
B.S.N., Union College/M.S.N., Loma Linda University

Pamela Goslar, B.A., M.S., C.P.A., Asst. Professor of Accounting
B.A., Cameron University/M.S., DePaul University

Judith Hanover, B.S.N., M.S.N., Ph.D., Asst. Professor of Nursing
B.S.N., M.S.N., University of California, San Francisco/Ph.D., University of
California, Berkeley

Barbara Hoffman, B.S., M.A., Ph.D., Assoc. Professor of History
(also **Chairman of Department of History and Social Sciences**)

B.S., M.A., Central Missouri State University/Ph.D., University of Colorado

Patty J. Horn, B.S., M.A., Ed.D.

..... Assoc. Professor of Education/Director of Teacher Training
(also **Chairman of Department of Education and Psychology**)
B.S., University of Oklahoma/M.A., Northern Arizona University/Ph.D.,
Arizona State University

John Howerton, B.A., M.D., M.Div. Assoc. Professor of History
B.A., Grand Canyon College/M.A., Arizona State University/M.Div.,
Midwestern Baptist Theological Seminary/Additional Graduate Study:
Arizona State University, University of Arkansas

Clayton Hurd, B.A., M.Div., M.R.E., Ed.D. .. Assoc. Professor of Education
B.A., Oklahoma Baptist University/M.Div., M.R.E., Southwestern Baptist
Theological Seminary/Ed.D., North Texas State University

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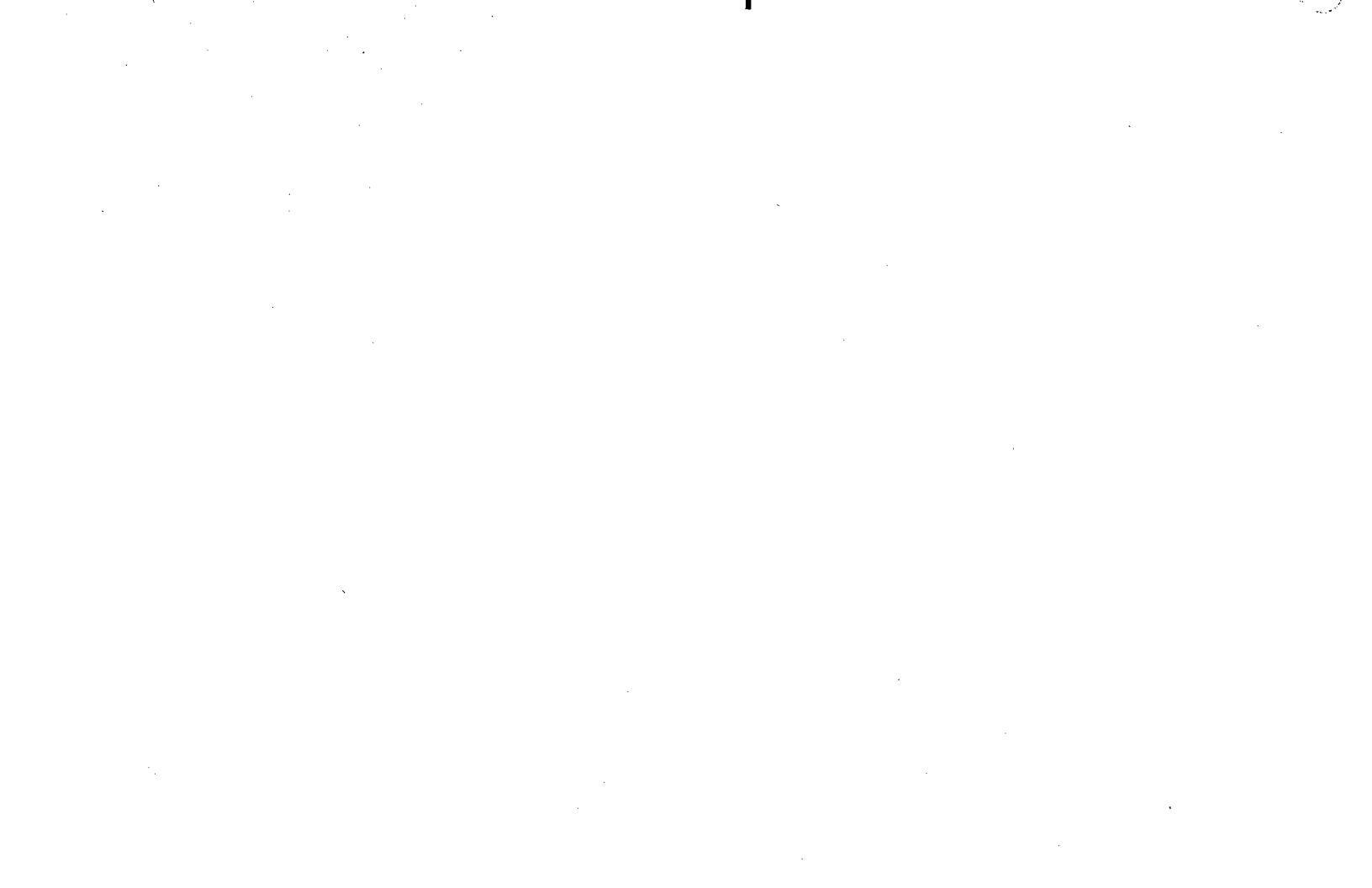
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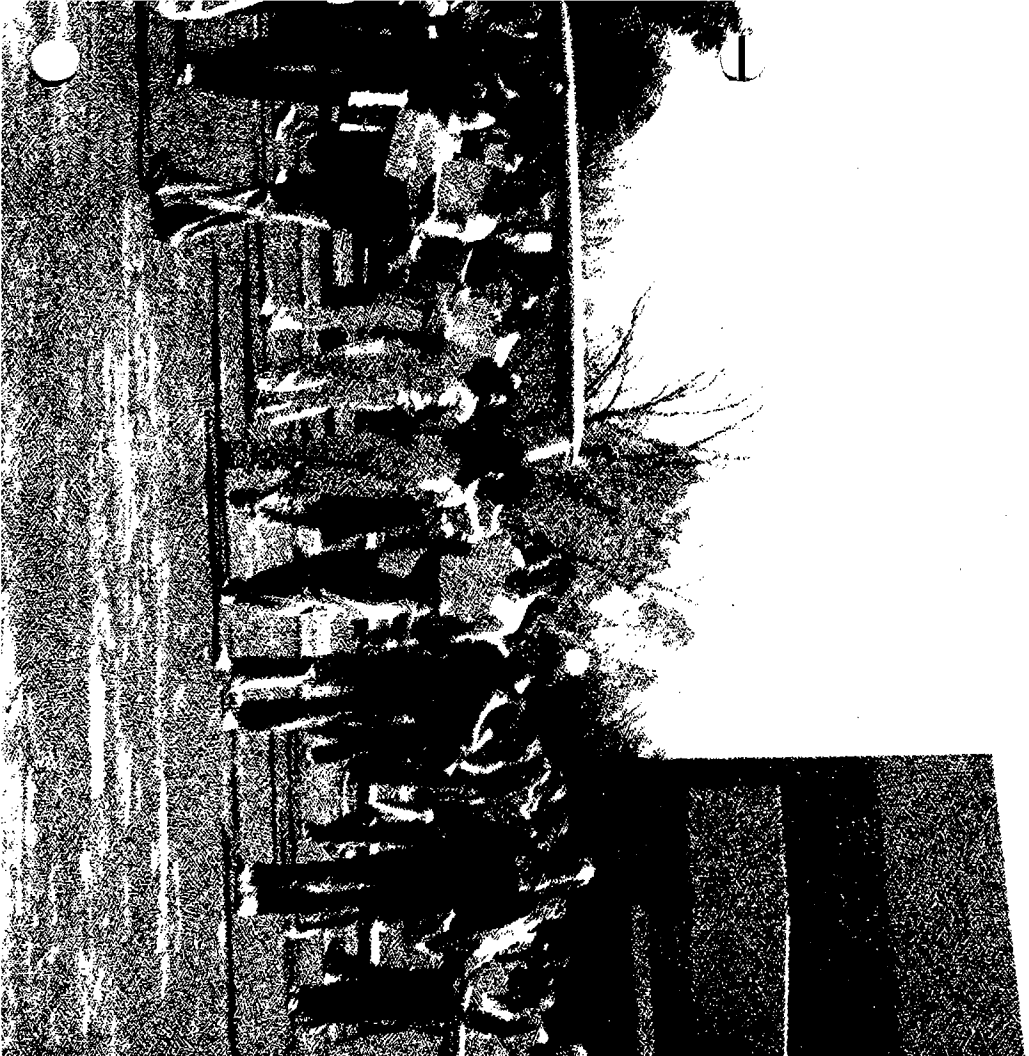
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