

Grand Canyon College



CATALOG

1962 1963

First Catalog delivered on April 18, 1962

Directory of Correspondence

College mailing address	Grand Canyon College, 3300 W. Camelback Road, P. O. Box 11097, Phoenix 17, Arizona
Academic matters and Admissions	The Registrar
Alumni affairs	Secretary of the Alumni Association
Catalog, publicity materials, and student publications	Director of Public Relations
Counseling	Dean of Students
Expenses, Student Employment, Financial Arrangements	The Business Manager
General policy and program, Faculty	Administrative Vice President and Dean
Gifts and Endowment	
Legal matters	The President
Housing	Dean of Students
Scholarships	Chairman, Faculty Scholarship Committee
Tuition grants for ministerial students	Chairman, Department of Religion
Student Association	Faculty Adviser, Student Association
Teacher training	Director of Teacher Training
Veterans' Affairs	The Dean of Students

INFORMATION FOR VISITORS

The Administration Building faces toward Camelback Road and is the central one of the three block buildings on Administration Avenue.

Office hours are 8 a.m. to 5 p.m. Monday through Friday and 9 a.m. to noon Saturday, except for office holidays: Labor Day, Thanksgiving Day, the afternoon of Christmas Eve, Christmas Day, the afternoon of New Year's Eve Day, and July 4.

Visitors are always welcome on the campus. If one anticipates a visit to the campus when offices are closed, arrangements can be made by writing to the Director of Public Relations. If a visit cannot be anticipated far enough in advance, a telephone call will often find someone at the switchboard to arrange a visit. Telephone: YE 7-4734.

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Academic Calendar

1962-63

Summer, 1962

Pre-session	June 4-8
First Term	June 11-July 14
Second Term	July 16-August 17
Post-session	August 20-24

Fall Semester

Faculty and Staff Retreat at Prescott, Tuesday.....	September 4
Entrance examinations for non-high school graduates and those graduating in lowest quarter of class, Wednesday and Thursday, September 5-6	
Dormitories open to Freshmen, Thursday 1:00 P.M.....	September 6
First meal in cafeteria, Thursday evening.....	September 6
Orientation of Freshmen	September 7, 8, 10, 11
Registration of Freshmen, Monday.....	September 10
Dormitories open to upperclassmen, Monday.....	September 10
Registration of Juniors and Seniors, Tuesday	September 11
Registration of Sophomores and others, Wednesday, September 12	
Classes begin, 7:40 A.M., Thursday (Second week of Semester	September 13
Last day of registration for credit, Friday.....	September 21
Mid-semester examinations	November 1, 2, 5, 6
Mid-semester grades due, Friday.....	November 9
Last day courses may be dropped without penalty, Friday	November 16
Thanksgiving holidays	November 22-25
Classes resumed, Monday	November 26
Christmas holidays	December 21-January 2
Classes resumed, Thursday	January 3
Final examinations for the Fall Semester.....	January 18-23
Grade reports due in the Registrar's Office by noon, Thursday	January 24

1962

JUNE

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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	

JULY

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

AUGUST

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12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
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SEPTEMBER

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23	24	25	26	27	28	29	
30							

OCTOBER

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28	29	30	31				

NOVEMBER

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DECEMBER

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23	24	25	26	27	28	29	
30	31						

Academic Calendar

1962-63

1963

JANUARY

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

FEBRUARY

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

MARCH

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

APRIL

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

MAY

1 2 3 4
5 6 7 8 9 10 11
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19 20 21 22 23 24 25
26 27 28 29 30 31

JUNE

1
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9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30

JULY

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

AUGUST

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

Spring Semester

Entrance examinations for non-high school graduates
and those graduating in lowest quarter of class,
Friday and SaturdayJanuary 25-26

Registration, Monday, Tuesday, and Wednesday
January 28, 29, 30

~~Orientation of new students, Tuesday.....January 29~~

Classes begin, Thursday, (First week of semester).....January 31

Last day of registration for credit, Friday.....February 8

Mid-semester examinationsMarch 12-15

Mid-semester grades due, TuesdayMarch 26

Last day courses may be dropped without penalty,
FridayApril 5

Spring holidaysApril 12-15

Classes resumed, TuesdayApril 16

Baccalaureate service, SundayMay 26

Commencement, MondayMay 27

Final examinations for the Spring Semester.....May 23-29

Grade reports due in the Registrar's Office by noon,
FridayMay 31

Summer, 1963

Pre-sessionJune 3-7

First TermJune 10-July 13

Second TermJuly 15-August 16

Post-sessionAugust 19-23

*See + last
enrollment*

Summer Sessions

In the summer session, the College offers a number of courses in each department. For information, write to the Dean of the College.

APPRENTICE TEACHING DURING THE SUMMER SESSION

Apprentice teaching schedules are to be arranged individually in advance with the Director of Teacher Training.

Students who have degrees or who have 90 or more hours of college work and who have had teaching experience, may enroll for 6 hours of elementary apprentice teaching. Prerequisite: 8 hours of Education, including Elementary Education 343 (Language Arts), and Elementary Education 353 (Elementary Curriculum and Techniques). Students may earn up to 6 hours in this course.

Apprentice teaching, second session, on demand.

ADMISSION TO THE SUMMER SESSION

Previously enrolled students in good standing are admitted as at any other time.

Prospective freshmen should file with the Registrar a complete official transcript of high school record.

Undergraduate students coming from other universities and colleges only for the Summer Session must present to the Registrar evidence that they are in good standing. Those who wish to continue in the fall semester must renew their applications and file complete transcripts of record from each institution previously attended.

Apprentice teachers should file a complete transcript and a health certificate.

HOUSING

For information regarding dormitory reservations, write to the Registrar.

EXPENSES

Tuition for the summer session will be \$12.00 per semester hour. Room rent in the dormitory for each five weeks period will be \$35.00; board, \$55.00.

(These rates are effective for 1962 only. Rates for 1963 will be published in the 1963 Summer Bulletin.)

I. Admission

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GENERAL REQUIREMENTS

METHODS OF ADMISSION

ENTRANCE REQUIREMENTS

TRANSFER STUDENTS

FOREIGN STUDENT ADVISER

APPLICATION FOR ADMISSION

Admission

GENERAL REQUIREMENTS

The College is coeducational, interracial, and open to all students regardless of religious convictions.

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 furnish a certificate of honorable dismissal.

METHODS OF ADMISSION

By Certification: Graduates of accredited high schools, who satisfy other requirements, are admitted to the College upon receipt of an official transcript sent directly by the Principal or Superintendent of the high school. All freshmen in the upper three-fourths of their high school graduating classes will be required to take the ACT test prior to admission.

By Individual Approval and Examination: Veterans over 18 years of age and other students who are above 21 years of age and/or who show evidence of maturity and ability to do college work may be accepted on approval. In order to determine whether such students have the necessary background to do college work, a battery of tests will be given.

Students who have not graduated from high school and students who are in the lowest fourth of their high school graduating classes will be required to take Entrance Tests which will last two days. The California Achievement Test, Adult Edition, and the California Mental Maturity Test are given for the entrance examination. The student's program of studies in Grand Canyon College will be conditioned by the results of the examination. Students who are found to need remedial courses will be expected to take such courses at the first opportunity.

Students should check the catalog for the dates of the entrance examinations.

PRELIMINARY ENTRANCE REQUIREMENTS

High school graduates applying for admission to the College must secure registration forms from the office of the Registrar. A permit to register will be granted when the applicant completes his file of forms in the Registrar's Office.

Before this permit can be granted, the applicant must cause the following to be filed with the Registrar:

1. A transcript of his high school record, including a statement of rank of the applicant in his graduating class.
2. A Health Certificate from his physician, on a form which the student will request from the Registrar's office.
3. A formal application from the student upon a form furnished by the College (page 13).
4. A matriculation fee of \$10.00.

5. A room reservation fee of \$10.00 and application for dormitory residence (dormitory residents only).
6. A recent photograph (snapshots are not acceptable). The date of photograph must be indicated.

A high school graduate who is not eligible for regular admission may enroll in the college, but he will be placed on academic probation during the first semester. Probation may be removed by maintaining a "C" average in all work taken during the first semester, and provided that the student takes a course load of at least 12 hours. Freshmen must remove their probationary status in one year if they are to re-enroll without permission of the Admissions and Academic Regulations Committee.

SCHOLASTIC REQUIREMENTS

For regular admission to the freshman class a student must be a graduate of an accredited high school, and he must rank above the lowest quarter of his graduating class. His units presented must include:

Subjects	Units
English	4 3
Mathematics	1
Social Studies	2 1
Science	1
Electives	9 8

REGULATIONS PERTAINING TO TRANSFER STUDENTS

A student transferring from another college must file all forms required under Preliminary Entrance Requirements (see preceding page), with the exception of his high school transcript.

Before enrolling, a student transferring from another college must have on file in the Registrar's office a transcript of all credits from the institution last attended. A student may not disregard his record at any institution of higher learning in which he has previously been enrolled. Transcripts received through the hands of students are not acceptable as a basis for admission. It is the responsibility of the student to request that his transcripts be mailed to the Registrar.

Before enrolling, a transfer student classified as a senior must also file an Application for Graduation (see page 59).

Transfers who do not present the required high school units from an accredited high school can be admitted only on the basis of excellent work transferred, and on condition that a "C" average be maintained during the first two semesters at Grand Canyon College.

Grand Canyon College will accept credits from other recognized liberal arts colleges and from universities if the work to be transferred is not of a too highly specialized nature.

A Guide to the Evaluation of Educational Experiences in the Armed Services will be used in evaluating work submitted as a result of service in the Armed Forces.

No credit will be given for any course transferred if the grade in that course is lower than a "C" or its equivalent. Quality points are not transferable.

A maximum of twenty-five semester hours of extension work and/or correspondence work will be accepted from other institutions.

Transfers who do not have a "C" average in the college work already completed are admitted under probation and must maintain a "C" average during the first semester in at least 12 semester hours in Grand Canyon College to remove the condition of their acceptance.

A student who has been asked to withdraw from another college because of poor scholarship or any other reason can be accepted only upon the following conditions:

- (a) That an interval of at least one semester must have elapsed from the time of his dismissal before he is admitted.
- (b) That he maintain a "C" average during his first year in residence at Grand Canyon College.
- (c) That in the event he does not average "C" during his first year he shall, upon recommendation of the Academic Regulations Committee, be required to withdraw from college.

FOREIGN STUDENT ADVISER

In cooperation with the National Association of Foreign Student Advisers, Professor Wang has been designated as Foreign Student Adviser at Grand Canyon College. Foreign students interested in enrolling should communicate with Mr. Shih Ming Wang, Grand Canyon College, P. O. Box 11097, Phoenix 17, Arizona.

REQUEST FOR ADMISSION FORMS

To the Prospective Student:

Please place a check mark preceding each of the following forms you would like the College to send to you. They will be forwarded immediately upon receipt of your request.

_____ Application for Admission (Required)

_____ Health Certificate (Required)

_____ Application for Room Reservation (See catalog for dormitory residence regulation, Page 28.)

A limited number of employment opportunities on campus are available. Should you wish to apply, check below:

_____ Student Employment Application

See catalog information on available scholarships, loans, etc. Check below:

_____ Scholarship Application

_____ Loan Application

Signed (Your Name) _____

Address _____

City _____ State _____

This request form requires no postage. Remove it from the catalog and fold it for mailing. The College address is on the reverse side.

(Fold Here)

FIRST CLASS
PERMIT NO. 4165
Phoenix, Arizona

BUSINESS REPLY MAIL

No Postage Stamp Necessary if Mailed in The United States

Postage Will Be Paid By

GRAND CANYON COLLEGE

P. O. Box 11097

3300 West Camelback

Phoenix 17, Arizona

Office of the Registrar

(Fold Here)

II. General Information

15

LOCATION

CONTROL

HISTORICAL SKETCH

GENERAL PURPOSE

SPECIFIC AIMS

ACCREDITATION

THE CAMPUS

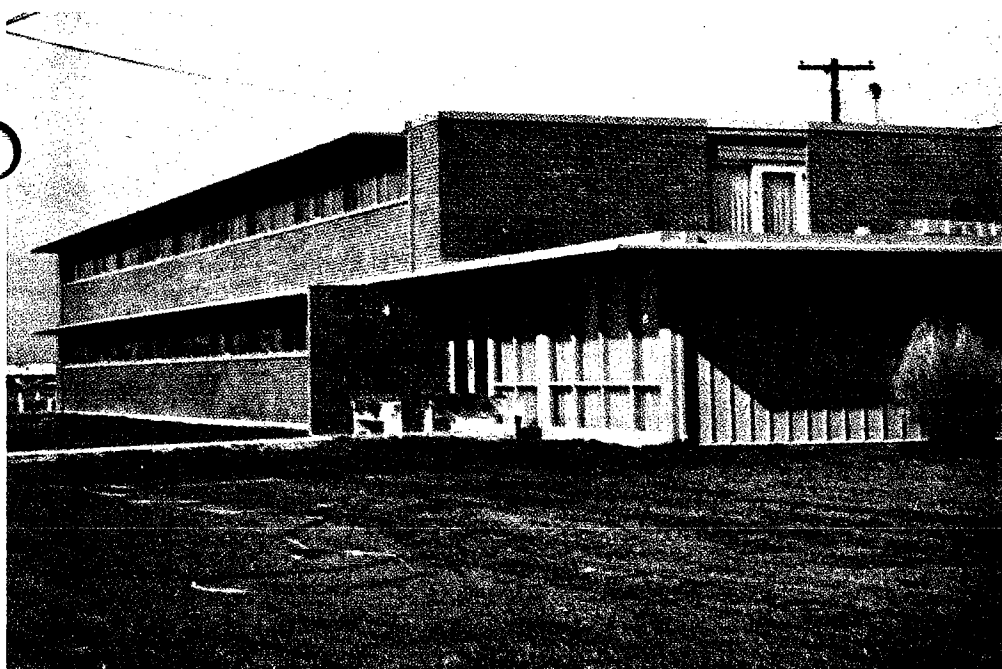
GUIDANCE PROGRAM

COUNSELING PROGRAM

TEACHER TRAINING AND PLACEMENT

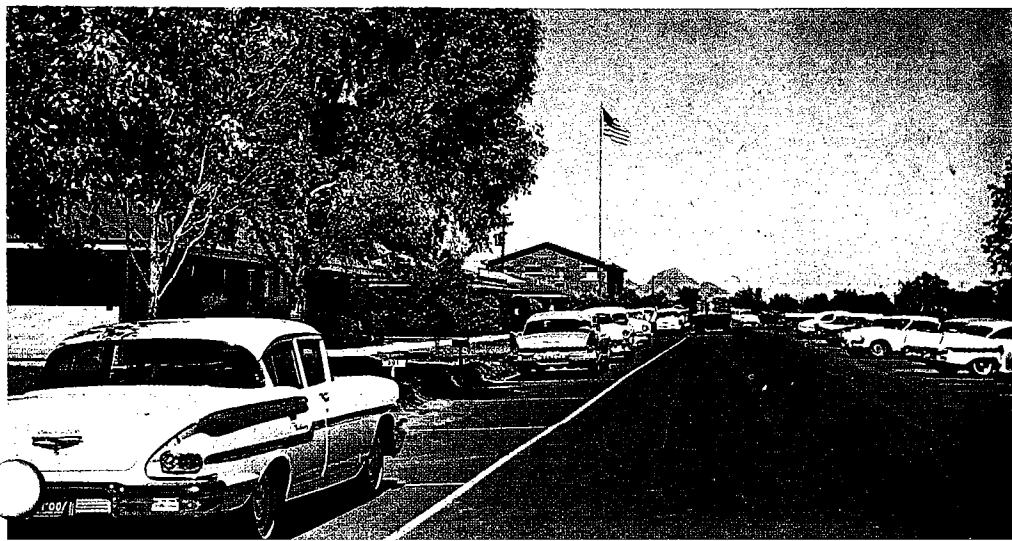
ALUMNI ASSOCIATION

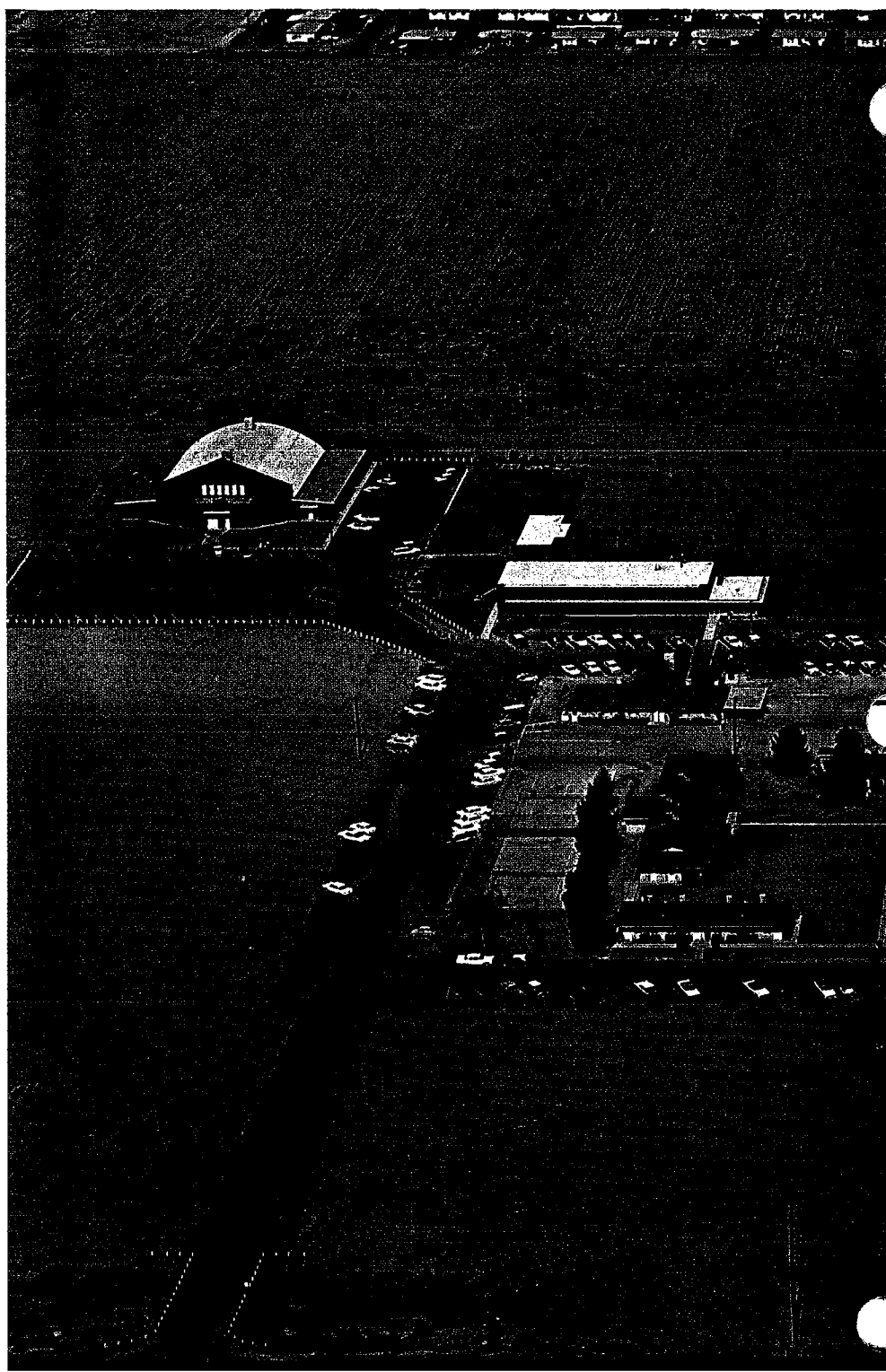
COLLEGE PUBLICATIONS



Bright Angel Hall
New Residence Hall For Women

Administration Drive

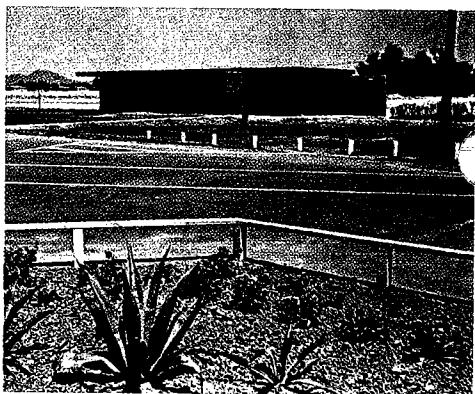




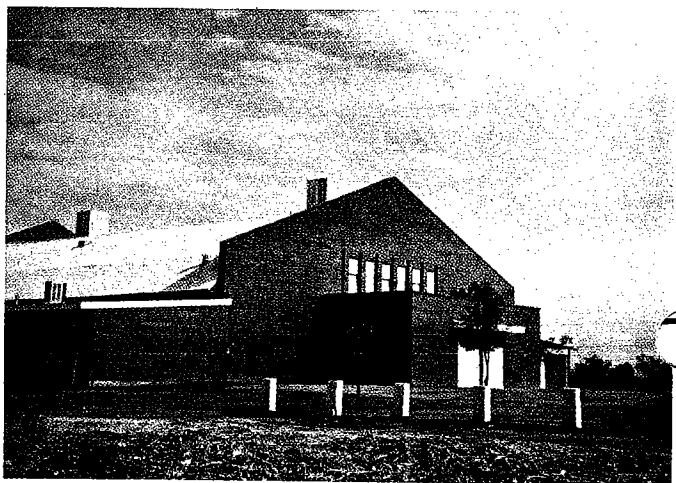




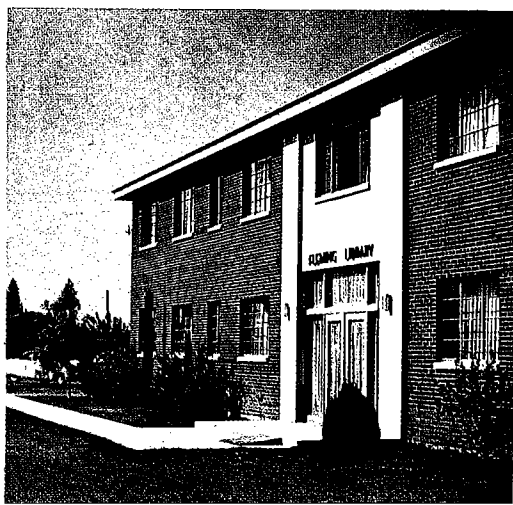
Ad. Building



Charles M. Cooke Health Center



Gym-Auditorium



Fleming Library

General College Information

LOCATION

The College is located in Phoenix, Arizona, the capital city of the state. It is near the geographical center of the state and is a thriving industrial and agricultural city, with a population of more than 475,000 in the metropolitan area. Phoenix can boast of being in the proximity of more scenic and historical places of interest than probably any other city in the nation, most notable of which are the Grand Canyon of the Colorado, the Petrified Forest, Montezuma Castle, Oak Creek and Walnut Canyons, and Superstition Mountain.

Phoenix takes great pride in the enviable reputation she enjoys as one of the notable winter resorts of America. Many thousands of people come to Phoenix to spend the winter months in the Valley of the Sun, "Where Summer Spends the Winter."

Modern, hard-surfaced highways lead to Phoenix. It is easily accessible over transcontinental U. S. Highways 60, 70, 80, 66, and by way of 89A through scenic Oak Creek Canyon.

The Southern Pacific, Santa Fe, and Rock Island Railroads make Phoenix easily accessible by train. The Greyhound and Southern Trailways Bus Lines operate many schedules daily to and from Phoenix.

The American, Apache, Bonanza, Frontier, Trans-World, and Western Airlines make it possible for one to arrive at or leave Phoenix almost any hour of the day.

CONTROL

The College is owned and operated by the Arizona Southern Baptist Convention.

HISTORICAL SKETCH

The first definite steps toward founding Grand Canyon College were taken at the annual session of the Baptist General Convention of Arizona 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; it first opened its doors for instruction with the fall semester, 1949.

The first four presidents of the college, Dr. Willis J. Ray, Mr. Leroy Smith, Dr. B. O. Herring, and Dr. Loyed R. Simmons, worked successfully toward the establishment of the College; its removal to Phoenix in September of 1951 and erection of the first permanent buildings on an 80-acre campus on West Camelback Road; and the securing of additional land, with plans for more buildings to accommodate the steadily increasing student body.

Dr. E. N. Patterson became president of the College on September 1, 1959, to face the challenge inherent in administration of this rapidly growing institution.

GENERAL PURPOSE

It is the general purpose of Grand Canyon College to offer standard four-year college work in an environment that is genuinely Christian. It is the purpose of the Board of Trustees, the administration, and every faculty member of the College to attract capable, ambitious, well-balanced young people who can profit by a college education in a Christian environment and who desire to enter the various fields of human endeavor: the ministry and other full-time Christian work, law, medicine, teaching, business, and other vocations.

SPECIFIC AIMS

To fit into the general purpose as stated above, Grand Canyon College aims to develop well-rounded, properly balanced personalities—physically, mentally, socially, morally, and spiritually.

1. By physical training it aims to include habits of temperance, healthful living, physical strength, and enjoyment of active participation in clean sports.

2. By mental training it strives to help the student use his mind in effective analysis, in accurate constructive thinking, in proper evaluation of evidence in distinction of truth from error—to develop creative scholarship.

3. By social development it aims to instill a proper evaluation of social values as well as to develop ease, enjoyment, and poise in association with people.

4. By moral training it aims to develop habits of clean living, clean speech, temperance, personal decency—to develop a sense of responsibility for doing high-grade, honest work and a proper regard for the rights and feelings of others.

5. By spiritual growth it aims to stress an appreciation of spiritual realities, of God's natural universe and laws, of God's institutions, and of God's plan and purpose in each individual life.

The curriculum of the College is set up to further its purpose to develop Christian leadership and thinking in all phases of man's activities throughout the world. At all times the fact is stressed that a liberal education is offered in a church-related school; and at the same time the student is offered a limited number of vocational subjects such as business, education, speech, music, et cetera.

The instructional staff is selected with these objectives in mind, emphasis being placed upon character, scholarship, personality, and teaching ability. Evidences of character on the part of the staff include dynamic Christian living, regular and faithful church attendance, financial support of local and denominational institutions, active participation in church affairs, as well as maintenance of high standards of work and accomplishment for themselves and for their students equal to that of other leading colleges and universities. Evidences of scholarship include the attainment of higher degrees earned, contributions in their fields of specialization, and

habits of study and research. Teaching ability is largely judged by what the teacher's students know 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, neatness in appearance, and punctuality and dependability in meeting all responsibilities in the College.

The type of student attracted to the campus will largely determine the success in achieving these goals and objectives. The students needed and desired are (1) those with capacity, personality, and background to do ~~standard~~ college work; (2) those moved by lofty ambitions of service to God and to man.

ACCREDITATION

The College is fully accredited by the University of Arizona, and credits are accepted on a basis of complete equality with those earned at other institutions. Graduates who have high academic records find no barriers to entering graduate schools.

The Arizona State Board of Education has given formal approval of the work done at the College for the certification of elementary teachers, for the renewal of certificates, and for the undergraduate training of high school teachers.

The College is approved by the Veterans Administration for education of veterans under Chapters 31, 33, and 35, Title 38, of the United States Code.

By authorization from the Immigration and Naturalization Service of the Department of Justice, non-immigrant alien students may now enter the College by establishing their eligibility in the usual academic way and furnishing evidence of financial ability to support themselves while in college.

The College is listed in the Education Directory for Higher Education of the United States Department of Health, Education, and Welfare.

The College is a member of the Association of Southern Baptist Colleges and of the Council for the Advancement of Small Colleges.

The College has been admitted to candidacy for membership in the North Central Association of Colleges and Secondary Schools.

THE CAMPUS

Located in the northwest suburbs of Phoenix and surrounded on all sides by new homes, the college campus contains 160 acres. The religion building and music building are stuccoed frame. Other buildings of the original campus are of low-roofed cottage style pumice block construction. They include three classroom buildings; an administration building; a faculty office building; a cafeteria; Kaibab Hall for men and Bright Angel Hall for women. A Student Union Building, secured largely through the efforts of the students, also houses the bookstore. Grouped around a quadrangle landscaped with flowers and fast-growing Arizona shrubs and trees, all the buildings afford a view of the familiar and beautiful

mountains surrounding the Valley of the Sun. While modest and unpretentious, the campus is comfortable and provides an attractive setting for the years of college living.

A campus development committee is in process of laying out the next unit of the campus to be developed. In connection with this program of more permanent and larger buildings, a gymnasium-auditorium and the Fleming Library were constructed in 1957. A new women's dormitory and health center were completed and ready for use in September, 1960.

THE LIBRARY

The Fleming Library is a two-story red brick building trimmed in white stone. The completely air-conditioned structure contains a reading room, three seminar rooms, library administration offices and workrooms, the Brantner record collection, and two open stack areas adequate for 80,000 volumes.

The College collection contains approximately 20,000 books and numerous bound and unbound periodicals. Approximately 300 magazines and journals are received currently.

Students and faculty have access to numerous libraries within the City of Phoenix, including the State Capitol Library. The 402,740 volumes in the Capitol Library include 41,322 volumes of *Arizoniana* (the largest collection in existence); the federal government Serials; Patent Gazettes; departmental decisions; reports; bulletins; complete state documents and records; state, county, and municipal records on microfilm; periodicals; and 6,590 bound volumes of newspapers.

During the years, the College has received numerous gifts of books and money from friends, alumni, and faculty members. Some valuable gifts have also been received from other libraries.

MUSIC LIBRARY

The Brantner Library of Recordings, housed in the Fleming Library, is one of the finest to be found in a college of arts and sciences. A listening room was dedicated to the use of those recordings in February, 1956. The records were collected by an Arizona cowboy, Chet Brantner, of Mohave County, over a period of more than 25 years. Soon after the opening of the College, he gave his entire collection, to the end that it might furnish inspiration to the students and bring enrichment and enjoyment to the lives of many people. It is composed of approximately 559 albums which contain a total of 5,665 selections. Some of these are collectors' items and include original recording by great voices of the Golden Age, such as Caruso, Melba, Galli-Curci, and Schumann-Heink. Valued at \$20,000, the collection has representative masterworks of all the traditionally honored composers from Gluck in the eighteenth century to such contemporaries as Villa-Lobos. Other friends of the College are adding albums to this collection.

GYMNASIUM-AUDITORIUM

The red brick gymnasium-auditorium has an especially fine maple playing floor. It provides locker and shower facilities and equipment

rooms for both men and women and contains office space and classrooms. A stage at one end is adequate for musical and dramatic performances. Bleachers will seat 1200; chairs on the playing floor will accommodate an additional 1500.

BRIGHT ANGEL HALL

Bright Angel Hall houses sixty women students. The building is completely air-conditioned. The rooms are large and are well furnished.

CHARLES M. COOKE HEALTH CENTER

The Alumni Association of the College sponsored the raising of funds for this building. It is named in honor of the College Physician, who has served the College through the years without charge. The building contains the doctor's office, two treatment rooms, the nurse's office, and a reception room. It is adequately equipped to care for the most common medical needs of students and faculty.

GUIDANCE PROGRAM

Educational and vocational guidance services, beginning with the freshman year, are provided without special fee to all students. These services include entrance examinations for mature students or veterans who have not completed high school, English placement tests, and psychological examinations. Test results are available to students on request.

A battery of additional educational and vocational tests is available to students who request them, for a fee of \$5.00. This service includes a vocational inventory, special aptitude tests, and general psychological examinations.

THE COUNSELING PROGRAM

The counseling program is not a vocational guidance program but is planned to promote life adjustment and to increase the student's receptivity to the total college experience. This program is under the supervision of the Committee on Counseling, composed of the Director of Counseling, the Academic Dean, the Deans of Men and Women, and the dormitory directors. The program includes all students, and members of both the faculty and staff serve as counselors.

During each semester there are several group conferences, when each counselor meets with his small group of students. Topics suggested for discussion in the group conferences are distributed to both counselors and students for their study prior to the conference dates.

TEACHER TRAINING AND PLACEMENT

The College offers teacher training on the elementary and high school levels. The apprentice teaching program is made possible by contract agreement with various public and private accredited schools in Arizona. All requirements for the elementary certificate may be met by majoring in the Elementary Education curriculum for a B.S. degree. After earning a

B.A. or B.S. degree at this or any other college, candidates for the secondary certificate must secure a master's degree or complete 30 hours of work in a graduate school. The Arizona State Board of Education does, however, issue a pre-secondary certificate while teachers complete requirements for the secondary certificate. This certificate requires 6 hours of graduate work beyond a bachelor's degree.

A placement bureau is maintained without cost to graduates. A complete follow-up program for a period of five years is anticipated in the Teacher Placement Bureau.

ALUMNI ASSOCIATION

The Alumni Association of Grand Canyon College was organized in the spring of 1953 as the first four-year class was graduating. The constitution, adopted at the annual Homecoming meeting in January, 1955, provides for membership of graduates and those ex-students who have completed a minimum of 12 semester hours in residence. Only graduates may hold regular elective offices. The association's official bulletin, *Antelopes About*, appears quarterly during the school year.

COLLEGE PUBLICATIONS

The *Grand Canyon College Catalog* is the official publication authorized by the Board of Trustees, approved by the Administration and Faculty. It sets forth the policies, courses of study, academic requirements, rules, and regulations for the student body.

The *Canyon Highways* is a bimonthly bulletin published by the College for the purpose of presenting the activities of staff and students, improvements and additions to the campus, and other items of interest to schools, churches, libraries, alumni, parents of students, and all other friends of the institution. A request to be placed on the mailing list will assure regular receipt of this publication.

III. Student Life

23

FUNDAMENTAL REGULATIONS

DORMITORY OCCUPANCY

DISCIPLINE

RELIGIOUS LIFE

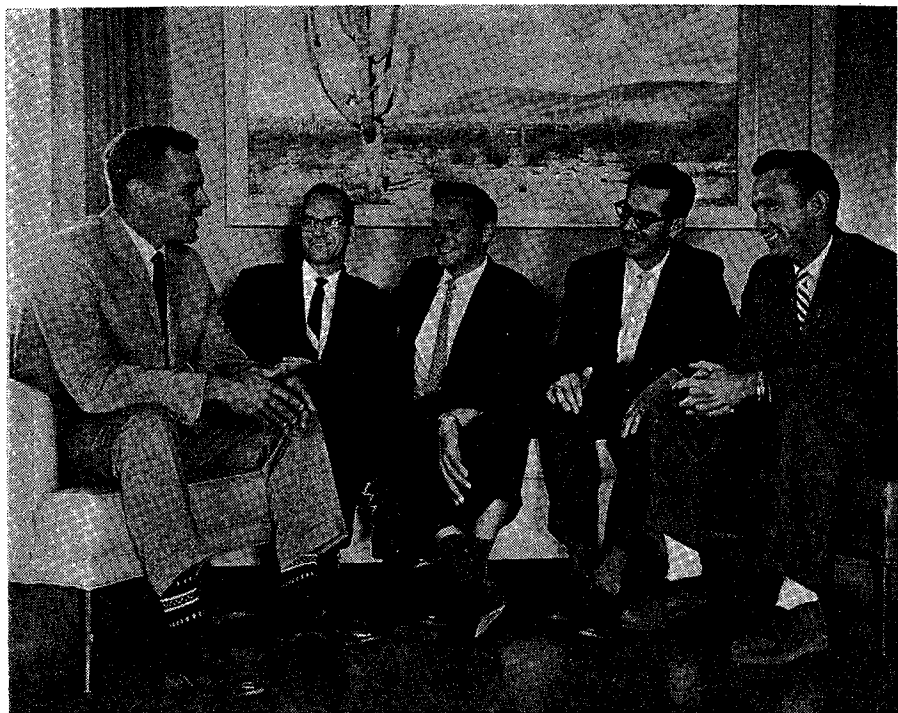
STUDENT ORGANIZATIONS AND
ACTIVITIES

STUDENT PUBLICATIONS

HEALTH SERVICE

TRADITIONAL EVENTS

PHYSICAL EDUCATION AND
INTERCOLLEGIATE SPORTS





Student Life

FUNDAMENTAL REGULATIONS

FIRST: All students registered in Grand Canyon College are expected to conduct themselves as ladies and gentlemen at all times and to obey the rules set up by the school, the laws of the City of Phoenix, of the State of Arizona, and of the United States.

SECOND: Students are not permitted to give entertainment during the college session, either on the campus or in the city, in the name of the school or any department or any organization of it, without the consent of the President, Dean, or Sponsor.

THIRD: Students representing the College in public performances must have a "C" average in approximately two-thirds of their work, eligibility to be determined at the end of each semester. (See rule on Eligibility for Activities, p. 41.)

FOURTH: To be eligible for election to any office the student must meet the following requirements concerning grades; (1) He must not be on academic probation. (2) If, during the preceding semester, he took fifteen semester hours or less, he must have received a grade of "C" in at least nine hours; if he took sixteen semester hours or more, he must have received a grade of "C" in at least ten hours. (3) He may not have a deficiency of more than fifteen quality points. Eligibility is to be determined on the basis of semester grades.

FIFTH: No new club or society may be formed unless the faculty approves the design of such organization, the rules by which it proposes to be governed, and the hours of meeting. The faculty reserves the right to limit or disband any such organization.

SIXTH: Students are expected to be quiet and orderly in the residence halls or buildings, and thoughtful of the rights of others.

SEVENTH: While the administration and faculty cannot assume full responsibility for students boarding off the campus, it reserves the right to make such regulations at any time as may seem advisable. The violation of the regulations on the part of a student may deprive him of the privileges of the College.

EIGHTH: All extracurricular activities which take students away from classes must first be approved by the Dean of Students.

NINTH: All students are expected to attend chapel exercises regularly. (See p. 44, Chapel Attendance rule.)

DORMITORY OCCUPANCY

The date for opening of dormitories for the fall semester is published in each year's calendar.

During Christmas holidays the dormitories and cafeteria will be closed. During other recesses the cafeteria will be closed.

DISCIPLINE

The Discipline Committee is charged with the administration of discipline. This committee has authority to rule in any case of irregular student conduct.

Any student who secretly marries while enrolled in Grand Canyon College will be suspended. Any student under twenty-one years of age who marries while enrolled in Grand Canyon College without the consent of parents or guardian will be suspended. The Discipline Committee of the Faculty will assess appropriate penalty for violation of this regulation.

No property belonging to the school or to other students is to be altered or removed without special permission. Any loss, damage, or breakage of school property will be charged to the student responsible for same.

Gambling, the use of profane language, and the drinking of intoxicating liquors are entirely forbidden on or off the campus.

Smoking will not be permitted on the campus except in living quarters.

NOTE: It sometimes happens that a student's presence in a hall is inimical to the best interests of the hall, and yet specific charges are difficult or embarrassing to make. Sometimes it is an accumulation of minor things which, taken separately, appear trivial. Sometimes the charges may be too serious to be openly preferred. In all such cases, the interests of the hall as a home and sometimes the interests of the individual himself demand that he change his residence. Therefore, the school in assigning rooms hereby explicitly reserves the right to cancel the reservation, either before or while the student occupies the room, without preferring any specific charge whatever. Only in such cases is room rent refunded. Students may petition for a student's removal without stating charges or having their names known to any persons except the President or Dean and the hall director.

All unmarried women students must reside in the dormitories, unless they live with their parents, or unless they have permission from the College to live with immediate relatives. Any exceptions to this rule must be applied for in writing and approved by the College before the student making the request is permitted to register. This same rule applies to all unmarried men students under twenty-one years of age, and all unmarried men twenty-one years of age or older must have permission to live off-campus before they are permitted to register.

All off-campus places of residence, for men or women students, must be approved by the College.

RELIGIOUS LIFE

Emphasis is placed not only upon the training of the body and the mind, but also upon the development of the moral and religious nature. In chapel exercises, in class rooms, and in every relation where the occasion arises, it is in accord with the policy of the College that emphasis be given to the value of Christian living.

There are several religious organizations among the students.

First: The B.S.U. (Baptist Student Union) Council, which has general concern for religious activities of the school.

Second: The Ann Hasseltine Y.W.A. (Young Woman's Auxiliary), which meets every other week.

Third: Life Service Group is open to all students who wish to do personal work on the campus, through our churches, and on the mission field. This group meets twice each month.

Fourth: Ministerial Association. The College seeks to be a congenial home for young men who are preparing themselves for the gospel ministry. The Ministerial Association meets once each month for the purpose of discussing problems pertaining to the work of the ministry.

Fifth: Wives of Christian Workers consists of the wives of students preparing for full-time Christian service. This organization proposes to encourage the members to study God's word, to establish Christian homes, and to prepare for better life service.

The students conduct prayer meetings regularly in their halls. Vesper services are held, and a centrally located prayer room is available for private devotions.

A Spiritual Emphasis Week is conducted each year at some time during the regular session; and other periods of religious emphasis are observed, such as Religious Focus Week. Continuous emphasis upon Christian growth is maintained.

STUDENT MARRIAGES

The College stresses a Christian approach to all areas of life, including marriage and family living. In order that a foundation for this type of marriage can be laid, the College believes that an adequate period of pre-marital preparation is necessary. The College does not encourage students to enter into marriage during the academic year since such marriages tend to create problems which concern both the student and the College. Students contemplating marriage during their college career are requested to counsel with members of the College staff.

STUDENT ORGANIZATIONS AND ACTIVITIES

Intramural Athletic Activities

During the spring months in particular, a program of intramural sports is carried on in such activities as volley ball, tennis, horseshoes, badminton, softball, ping pong, etc., for both men and women.

Student Council

The membership of the Student Council is composed of a man and a woman representative from each of the four classes and four representatives elected by the student body at large—President, Vice President, Secretary, and Treasurer. The purpose of the Council is to provide a means of mediation for any problem that may arise from the student body and to be a nucleus for planning sports, contests, or other events that will help build the morale of the student body. The Council meets once each week.

Clubs

Foreign Language Club—For those interested in the languages and cultural contributions of other racial groups.

International Relations Club—Aims to promote better race relations at home, better international relations, a sense of citizenship responsibility, and to stimulate study of world-wide social, economic, and political problems. Regular membership is open to all interested students. The club has regional, national, and international affiliation.

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

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

Varsity Club—Composed of students who have lettered in sports. Serves as a social club and strives to promote more interest in athletics on the campus.

The **Radio Hobby Club**, open to all campus personnel, operates amateur station W7JJZ to train its members in radio fundamentals that will enable them to qualify for the amateur radio operator's license.

Women's Recreation Association seeks to provide a varied program of physical and social activities for every woman student.

Canyon Commerce Club. The purpose of the club is to inform the business student of the methods, opportunities, and the challenges of business.

The Forensic Club. The purpose of the Forensic Club is to promote and encourage student participation in all types of public speaking on both the intra-mural and the inter-collegiate levels.

Educational Student Tours

An educational tour, which students may take at cost, is arranged for each Fall and each Spring semester.

The Fall tour to the northern part of Arizona includes such points of interest as Prescott with the first state capitol and the old Governor's Mansion (now a museum), the ghost city of Jerome, Oak Creek Canyon, Walnut Canyon Cliff Dwellings, Montezuma Castle, Sunset Crater and ice caves, Ski Bowl on San Francisco Peaks, and the Grand Canyon.

The Spring tour takes the student southward to Casa Grande Ruins, old Tucson, Tumacacori National Monument, Tombstone with its famed Boothill Cemetery and other sites made famous by the rip-roarin' Gold Rush days, Chiricahua Mountains, open pit mines at Bisbee, Sonora Desert museum, and Nogales.

STUDENT PUBLICATIONS

Canyon Trails is the college yearbook, published annually by a student staff. Each holder of activity tickets for the two semesters is entitled to a free copy.

Canyon Echoes, the weekly campus publication, reflects the ambitions, achievements, joys and hardships of student life. It offers a splendid and frequently used vehicle for student expression and training in citizenship.

The Antelope, student handbook published and revised at intervals by the Student Council, makes available to every student detailed information concerning rules and procedures for approved student activities.

Shadows, a literary journal published by students of the advanced composition classes, contains short stories, verse, essays, and criticism contributed by the students.

STUDENT HEALTH SERVICE

Medical and hospitalization insurance is available at a nominal cost of \$9.50 per semester.

The College retains the services of a physician on a part-time basis. He is assisted by a resident graduate nurse employed by the College.

Students will be examined at such times and in such manner as may be deemed necessary by the College.

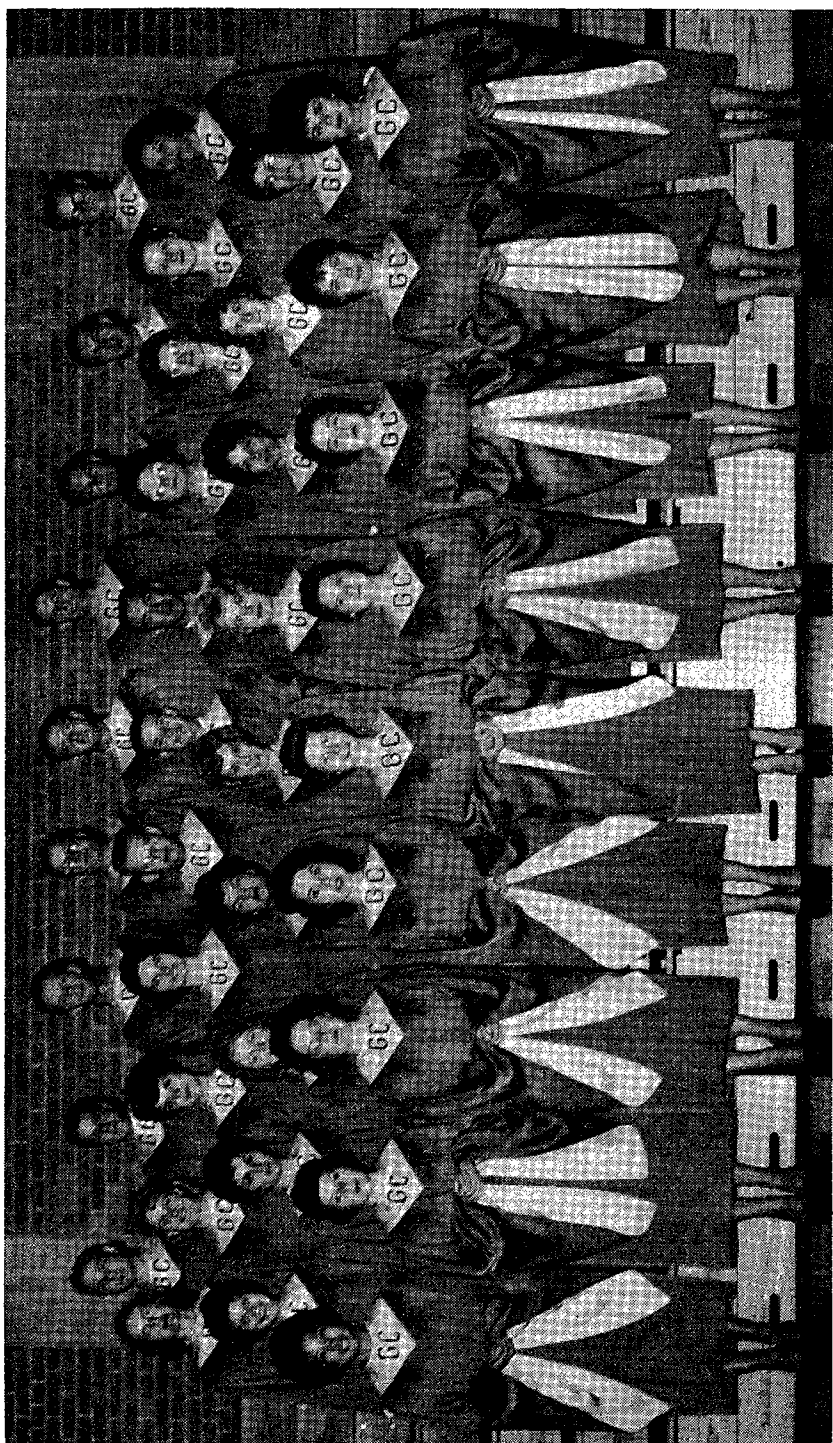
Athletes must be approved by the College physician before being permitted to participate in major sports. Examinations will be repeated periodically during the time of such participation.

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 personally responsible for the expense incurred thereby.

Chronic or congenital illness and illness contracted before entering college are not the responsibility of the college.

Students with acute contagious or childhood illness may not remain on campus. It is their responsibility to find other accommodations.

Students who have had to withdraw from college for medical reasons will be required to furnish a satisfactory health certificate before being permitted to re-enter.



TRADITIONAL EVENTS

Baptist Student Union Pre-school Retreat

All-school Welcome Party

Faculty and President's Reception

All-school Picnic

State B.S.U. Convention

Harvest Festival

Spiritual Emphasis Week

Thanksgiving Breakfast

Dramatic Presentations

Christmas Party

Choralaires' Christmas Concert

Caroling Party

Homecoming

Sweetheart Banquet

Choralaires' Tour

Honors Day

High School Senior Day

Music Recitals

Public Forums sponsored by International Relations Club

Choralaires' Easter Concert

Installation of Student Council

B.S.U. Spring Retreat

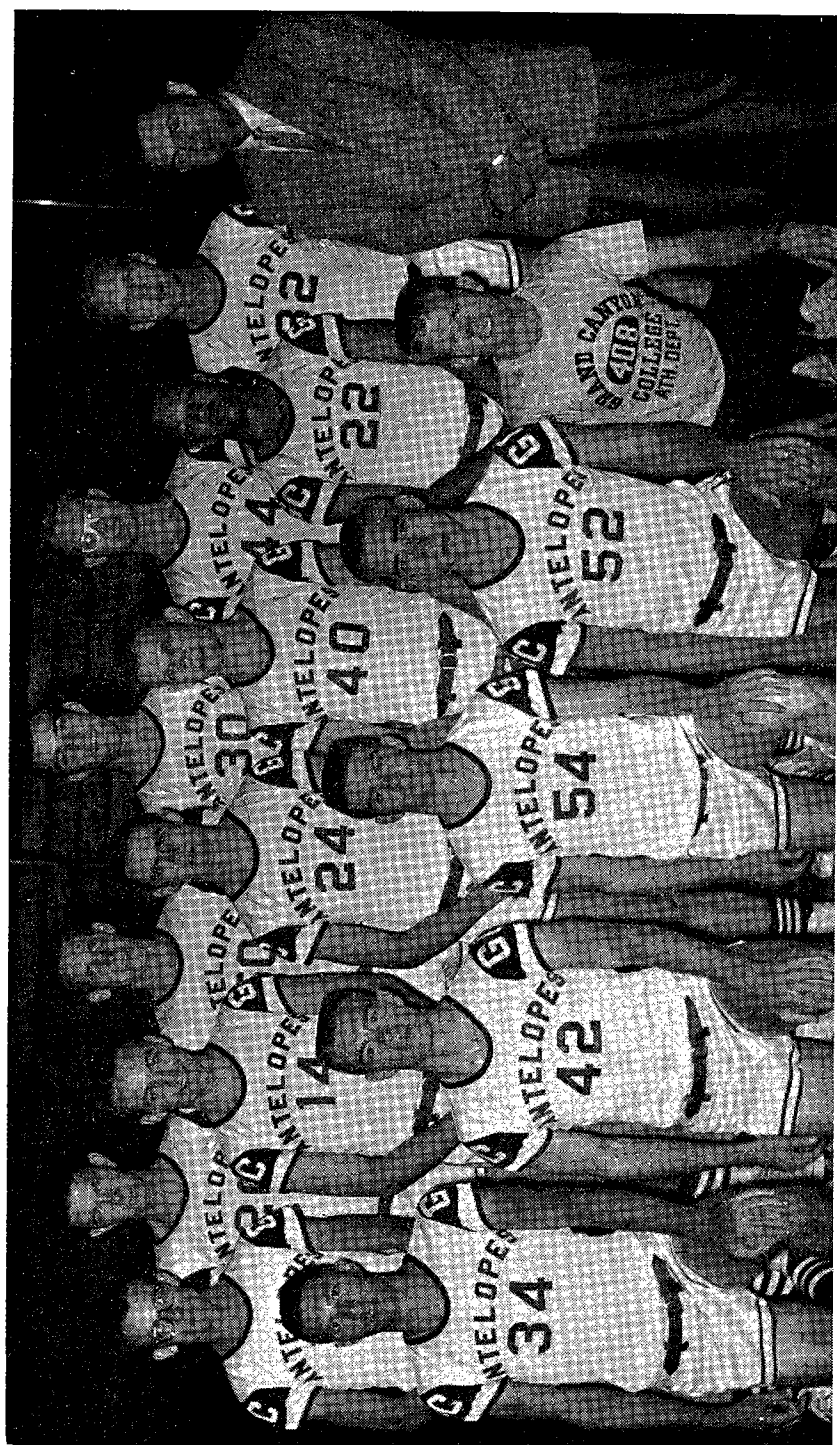
B.S.U. Installation Banquet

Spring Festival

Varsity Dinner

Junior-Senior Banquet

Senior Class Day



PHYSICAL EDUCATION AND INTERCOLLEGIATE ATHLETICS

Physical Education

A physical education program is correlated with the health program of the College. Four semester hours of credit in physical education are required of all students as well as three hours in health content subjects.

The physical education should be taken in the freshman and sophomore years, but for transfer students and others who have postponed this training it must be made up before graduation.

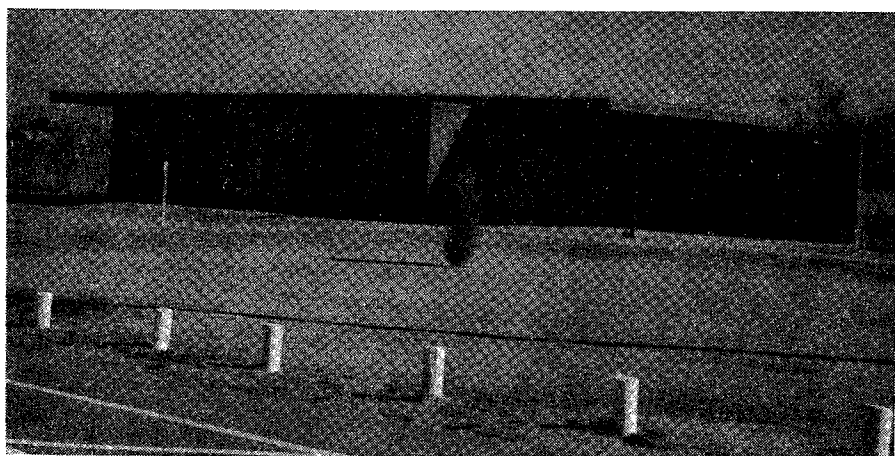
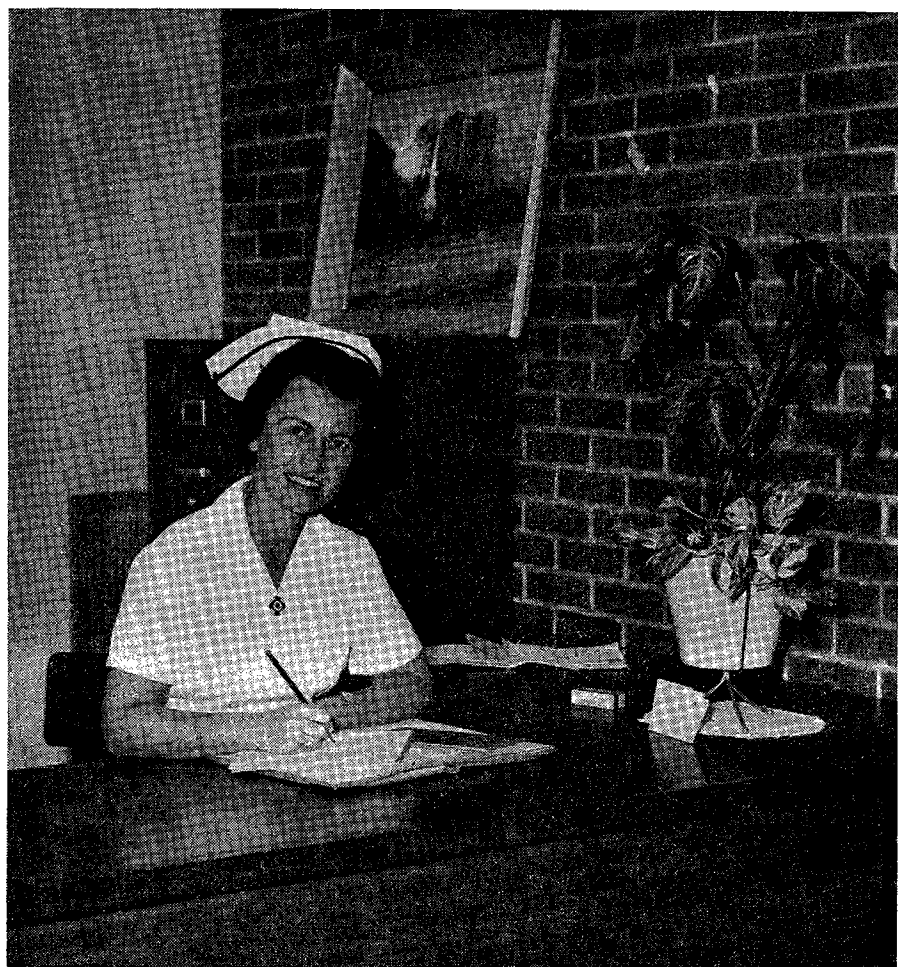
The College employs competent physical education instructors and a coach for major sports.

Intercollegiate Athletics

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 either by practicing in games or by watching the games of others.

In order that our collegiate teams may be a credit to the institution and that it will be a compliment to a student to be a member of the team, the faculty has adopted the following rules:

1. None but bona fide students of this institution shall be allowed to participate in intercollegiate or interscholastic contests. By "bona fide" student is meant any student
 - (a) Who is carrying a regular course of study of not fewer than twelve hours and who was enrolled at or near the first of the term in which he plays; and
 - (b) Who has at least a "C" average in approximately two-thirds of his work, as set forth in the rule on "Eligibility for Activities," Page 41.
2. A member of the faculty shall accompany all teams when away from the College.
3. All funds shall pass through the books of the College office and all checks be signed by the Business Manager. The President shall approve all contracts or orders involving money.



IV. General Regulations

CHANGE OF CLASSES

DROPPING OF CLASSES

GRADING SYSTEM

SCHOLARSHIP SUPERVISION

GRADUATION WITH HONORS

NUMBERING OF COURSES

LOSS OF CREDIT

ABSENCES FROM CAMPUS AND CITY

ELIGIBILITY FOR ACTIVITIES

CLASSIFICATION

SELECTION OF MAJOR AND MINOR SUBJECTS

CORRESPONDENCE AND EXTENSION WORK

EVENING CLASSES

COURSE LOAD

MAXIMUM HOURS IN A SUBJECT

CLASS ATTENDANCE

CHAPEL ATTENDANCE

General Regulations

DORMITORY OCCUPANCY

See academic calendar for dates that dormitories and cafeteria open.

CHANGE OF CLASSES

No change in classes may be made without the written consent of the Professor or Professors concerned and the Dean; and the permit must bear the Business Manager's stamp. Any student who makes a class change without a change card properly filled in and filed with the Registrar at the beginning of the term shall not receive credit for the work of the course in question. Tuition may be remitted when changes are made upon the recommendation of the Dean or President, or if necessitated by any changes made in the program by the Dean. Tuition is remitted only upon the approval of the President or Dean.

A student may not enroll for a new course after the last date to enroll for credit as shown in the academic calendar.

DROPPING OF CLASSES

No student may drop a course after the end of the tenth week, without receiving a grade of F, except in case of extreme illness. Exception to this rule may be made by the Dean. Notice of intent to withdraw should be filed as soon as possible after the student becomes ill.

Any student who officially withdraws from school at any time during a semester, will be given the grade of WP or WF, depending on his standing in each course at the time of his withdrawal.

A student who drops a course at any time without filing a "drop" card will be given a grade of "F" in the course.

GRADING SYSTEM AND QUALITY POINTS

Grade	Meaning	Quality Points per Hour
A	Superior	3
B	Above Average	2
C	Average	1
D	Barely Passing	0
F	Failure or unauthorized withdrawal	-1
P	Postponed	0
WP	Authorized withdrawal, passing	0
WF	Authorized withdrawal, failing	0
Cr	Credit, or requirement completed— no grade given	0

A failure may be removed only by re-enrolling for the course and repeating it in class. P, indicating incomplete work or absence from

examination by excuse, must be removed within the next semester; otherwise the incomplete grade becomes F.

For graduation a student must present a minimum of 124 quality points in addition to the regular 124 hour credits. When more than 124 hour credits are presented, the number of quality points must equal the number of hour credits. It is not enough to have the required number of credits; they must be of a standard quality. Besides an over-all "C" average, a student must have a (1.5) average in his major with no grade below "C" in an upper division course in his major.

In calculating a student's grade point average, work taken elsewhere in his major will be evaluated on the same basis as work taken at Grand Canyon College.

SCHOLARSHIP SUPERVISION AND SUSPENSION

The faculty regulation regarding academic deficiency is designed to provide close supervision of the program of study and progress of students who fall below an average grade of "C," which is required for graduation. Each student whose cumulative average falls below the grade of "C" is informed of his status at the end of the semester and of the consequences of continued academic deficiency, and is given such advice and help as fits his individual case.

Any student, other than a freshman who has completed only one semester, who received a grade below "C" on any work taken the preceding semester may be asked to apply for permission to continue as a student at Grand Canyon College. The application should contain an explanation, if any, for the unsatisfactory or postponed grades, and a statement outlining what the student intends to do to improve his scholarship. This application should be endorsed by two faculty members recommending its approval.

A student whose cumulative academic average drops below "C" will be placed on academic probation, which is continued until the "C" average is regained. If a student on probation fails to earn a "C" average in any semester, he is subject to suspension, and he may re-enroll only upon permission of the Admissions and Academic Regulations Committee. A freshman entering from the lowest quarter of his graduating class in high school enters on probation. A freshman so admitted may take two semesters in which to attain a "C" average. Transfer students with less than a "C" average in work already completed are admitted on probation and must remove their probationary status in one semester if they are to re-enroll without permission of the Admissions and Academic Regulations Committee.

GRADUATION WITH HONORS

Students who have attended Grand Canyon College for at least four semesters (not including summer sessions) as bona fide students and have made an average of 2.40 or above quality points for each hour of credit on work taken at Grand Canyon College graduate as honor students. If the average is 2.40-2.59, graduation will be **with distinction**; if the

average is 2.60-2.79, graduation will be **with high distinction**; if the average is 2.80-3.00, graduation will be **with highest distinction**.

NUMBERING OF COURSES

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

Courses from 100 to 199 are Freshman courses.

Courses from 200 to 299 are Sophomore courses.

Courses from 300 to 399 are Junior courses.

Courses from 400 to 499 are Senior courses.

LOSS OF CREDIT

Any student leaving a required freshman course until the senior year shall receive one hour less credit per course for the delayed work, except for a required course in physical education activity.

A senior taking a freshman level elective course will be required to earn a minimum grade of "B" in order to receive full credit in the course; otherwise the credit will be reduced one hour.

ABSENCES FROM CAMPUS AND CITY

The Dean of Women or the Dean of Students may restrict absences from the campus and city of students whose scholastic standing is in question. Absences of residents in the dormitories are further restricted by policies of the halls concerned.

ELIGIBILITY FOR ACTIVITIES

To be eligible to represent the College in extracurricular public performance a student must meet the following requirements regarding grades: If, during the preceding semester, he took 15 hours or less, he must have a grade of "C" in at least 9 hours; if he is taking 16 hours or more he must have a grade of "C" in at least 10 hours; he may not have a deficiency of more than 15 quality points. Eligibility is to be determined at end of each semester. (See page 35, Intercollegiate Athletics, 1a.)

"Extracurricular public performance" in this regulation is defined as follows: (1) Performances on the campus to which the public is explicitly invited, and (2) All off-campus performances in which the students participate by arrangement made by a member of the faculty or staff of the College.

This rule does not apply to ministerial students in regard to their preaching in churches. They are not considered as representing the College, but the particular denomination to which they belong.

Any freshman or transfer student entering on academic probation is ineligible to hold office in any student organization until his probationary status is removed.

CLASSIFICATION OF STUDENTS

Most students will be **regularly classified**, as follows:

- (1) A student will be classified as a freshman who has no conditions required for entrance and who is carrying at least twelve hours of freshman work.
- (2) A student will be classified as a sophomore who has at least 30 semester hours of college work to his credit and 30 quality credits.
- (3) A student will be classified as a junior who has at least 60 semester hours to his credit and 60 quality credits.
- (4) A student will be classified as a senior who has at least 90 semester hours and one quality credit for each hour and is not notably deficient in spelling, reading, and English grammar. (See p. 59, **English Usage**.)

Unclassified students—those students who have not met the entrance requirements.

Special students—those students who are eligible to do college work but are not working toward a degree.

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

SELECTION OF MAJOR AND MINOR SUBJECTS

Not later than the beginning of his junior year each student must choose the department in which he wishes to major. He must then consult the head of that department regularly thereafter in selecting the courses of study to be pursued. A change of major must be approved by the two major professors concerned, the Dean, and Registrar.

CORRESPONDENCE AND EXTENSION WORK

At the present time, extension courses are offered only in the Department of Religion, in cooperation with the Seminary Extension Department of the Southern Baptist Convention. These courses, on the college level and taught by instructors approved for college teaching, carry equivalent credit to other courses offered in the Department of Religion.

No correspondence work is offered by the College.

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. Any such work done at any time by a student while enrolled in Grand Canyon College must have the express approval of the College, in order for such work to be acceptable.

EVENING CLASSES

Based upon the demand, numerous courses are offered in the evening primarily for the benefit of townspeople who wish to take college courses but are unable to attend classes during the day.

REGULATIONS CONCERNING COURSE LOAD

No boarding students will be allowed to carry fewer than twelve semester hours of work, except upon the advice of the College Physician or by special consent of the Dean.

Freshmen may not register for more than sixteen hours, exclusive of Education 111 (Freshman Orientation), during the first semester. No student may register for more than seventeen hours unless during the preceding semester he made an average of "B" or above. The maximum number of hours for any student is normally eighteen. The maximum number of hours to be allowed during summer school is seven hours for each of the two five-week terms.

Carrying a normal course load in a 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 may not at any time take over sixteen hours.
2. Students working 30 hours per week or doing full time work of any kind who are not making an average of "C" at the end of the first four weeks will be requested to reduce their course load in proportion to their grade deficiency.

MAXIMUM NUMBER OF HOURS IN A SUBJECT

No regular student will be allowed to take more than forty-two semester hours for credit in any one subject.

REGULATIONS CONCERNING CLASS ATTENDANCE

1. Students are expected to be regular and punctual in class attendance. 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 Dean of Students. *th*

2. To secure permission to make up work missed by absence, the student must clear any absence within one week after his return to class in the manner prescribed by his instructor.

3. Regular and punctual attendance will be considered in assigning grades. If a student is absent for any reason, authorized or unauthorized, more than four times the number of times the class meets per week, he will be given a grade of "F" for the course, regardless of the quality of his work in other respects. The instructor will notify the Registrar's Office in writing so that the necessary drop forms may be initiated.

4. Absences on days immediately preceding or immediately following holidays must be authorized by the Dean of Students, all such absences to be recorded as double absences. *th*

5. ~~6.~~ Class attendance records will be effective as of the first day of class meetings in each semester.

5. One absence from an evening class is the

REGULATIONS CONCERNING CHAPEL ATTENDANCE

All students taking nine or more semester hours of daytime work must attend chapel. If absences from chapel exceed four times the number of chapel meetings per week, the student shall be penalized one-half semester hour's credit; he shall be penalized another one-half semester hour's credit for each additional four chapel absences.

V. Financial Information

EXPENSES

STUDENT ORGANIZATION FUNDS

PART-TIME WORK

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LOANS

SCHOLARSHIPS AND TUITION GRANTS

AWARDS

Financial Information

EXPENSES

The regular school year is composed of two semesters. Each semester is eighteen weeks in length. Summer school sessions are called terms.

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 Manager before he can enroll in any class. A student may make a note for a portion of his account, on which interest will be charged at the rate of 6 per cent per annum from date of the note.

STUDENTS HAVING UNPAID BILLS AT THE END OF THE SEMESTER OR TERM WILL NOT BE ADMITTED TO THE FINAL EXAMINATIONS UNTIL SATISFACTORY SETTLEMENTS HAVE BEEN MADE.

The Board of Trustees reserves the right to change all fees and charges from time to time if necessary.

Registration Fees and Tuition

(See below for Evening School charges)

Tuition for 12-17 semester hours, per semester.....	\$300.00
Tuition for less than 12 or more than 17 semester hours, per hour....	25.00
(Students taking required remedial courses will be charged on the same basis as if the course were taken for credit)	
Audit Fee, per hour	7.00
Tuition for private lessons in voice, piano, and organ, per semester (These charges take the place of semester charges listed above):	
Two half-hour lessons per week	\$ 60.00
One half-hour lesson per week	40.00
Practice room one hour per day, Voice or Piano	8.00
Additional hour per day	2.00
Practice room one hour per day, Organ	10.00
Additional hour per day	5.00

Other Fees

Student Services Fee, per semester	25.00
(Paid by all students taking 9 semester hours or more, except those enrolled in evening school only.)	
Late Entrance Examination	5.00
Late Registration	5.00
(Financial record cards turned in to the business office on the third day or later after classes begin will be charged late registration fee.)	
Returned checks, each	2.00
Special examination (Four-week test, mid-term, or final), each.....	2.00
Course change after close of regular registration.....	2.00
Parking fee per semester.....	5.00

Transcript of Credits, except the first	1.00
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Evening School Charges

Tuition per semester hour.....	\$15.00
Parking Fee per semester.....	1.00
Late registration	2.00
Audit Fee, per semester hour	7.00

Evening School students will not be required to pay the Student Services fee. Charges for laboratory courses will be \$7.00 per laboratory course taken. Any student taking a day course will be considered a day student.

Summer School Charges

Tuition per semester hour.....	\$12.00
Room per summer term.....	35.00
Board per summer term.....	55.00
Student Service Fee per summer term.....	2.50
Parking Fee per summer term.....	1.50

Special Charges

Matriculation Fee (Not refundable).....	\$10.00
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This fee must be paid before the registrar's office will set up a file for a student entering Grand Canyon College for the first time. This fee does not apply to students taking evening courses only.

Dormitory room reservation	10.00
(Will be applied toward room rent)	

Should the student decide not to enroll, these deposits may be refunded if the College is so notified by August 15 for fall semester or January 15 for the spring semester.

Breakage deposit	10.00
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This deposit will remain in effect as long as the student plans to continue his studies and will be subject to charge for property loss or damage; breakage or violation of rules in any laboratory, department, or the library; loss of keys; and other miscellaneous charges. Whenever charges exceed fifty percent of the deposit, the student, upon notice from the Business Office, will restore the deposit to the original amount by paying such charges within five days. Upon completion, or termination of the student's course of study, written application may be made for refund.

Board and Room

Room rent will be \$150.00 per semester which will be charged at the time the student registers. Room rent is not refundable after one week from the first day of classes. Linens, towels, blankets, and pillows must be furnished by the student.

Room rent will be charged at the rate of \$1.25 per day for those students staying in the dormitories other than when the school is officially in session. These charges will apply during the Christmas holidays, between

the spring and beginning of the first summer term and between the end of the summer term and the opening of the fall semester.

Meal tickets will be issued in \$10 denominations. The cafeteria plan is used in serving meals and the student's meal ticket will be punched for the cost of food taken by the student. **Each student living in the dormitory will be required to purchase a minimum of 16 meal tickets per semester. The student will be charged for this number of tickets regardless of whether he uses them.** The meal tickets are not transferable. The student may purchase more than 16 meal tickets if the need arises. If the student eats all meals in the cafeteria he may need 20 meal tickets.

Boarding students will be billed for 16 meal tickets at the time they register. They may secure their tickets monthly or as they use them; in either case meal tickets must be paid for in advance.

Individual meals may be purchased for cash at the cafeteria by off-campus students, college staff, and guests at a rate to be determined.

Summary of Minimum Expense for One Semester for Boarding Students

Dormitory room	\$150.00
Meals in Cafeteria (minimum) Students eating all meals in cafeteria may require \$200.....	160.00
Tuition	300.00
Books and Supplies	30.00
Student Services Fee	25.00
Medical and hospitalization insurance policy.....	9.50
Total minimum expense for one semester.....	\$674.50
Breakage Deposit (First Semester Only—Refundable).....	10.00
Total minimum expense for new students.....	\$684.50

Refunds

If a student is forced to withdraw from school because of sickness or other unavoidable causes, approved by the administration, charge will be based on the following scale, beginning with the first day of classes:

Attendance for 2 weeks or less.	10% of the total tuition
Attendance between 2 weeks and 3 weeks,	20% of the total tuition
Attendance between 3 weeks and 4 weeks,	40% of the total tuition
Attendance between 4 weeks and 5 weeks,	60% of the total tuition
Attendance between 5 weeks and 10 weeks,	70% of the total tuition
After 10 weeks	100% (No refund)
Fees are not refundable.	

The minimum charge for any student dropping out will be \$5.00, regardless of whether the student has attended classes or not.

Room rent will be charged on the basis of \$1.25 a day for the portion of a month in which a student withdraws from school, but charges are

not to exceed the regular monthly charge. Meals will be charged on a proportional basis for the portion of a month in which a student withdraws. The day of withdrawal will be counted as one full day.

All refunds due students for any reason whatsoever will be forfeited unless called for on or before June 30 of the College year in which they are due. Should June 30 fall on Sunday or on a day when the Business Office is closed, the refund will be made on the next business day.

ORGANIZATION FUNDS

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

PART-TIME WORK

Every effort will be made to assist students in obtaining part-time employment. Under ordinary circumstances, those who plan to earn their way should have enough money to carry them through the first semester. Money earned while working on campus will be applied toward payment of student's bills. If current payments due the College are up to date, the student may request cash up to \$25 per month. The balance will be applied to his bill until paid in full.

LOANS

The College is eager to assist worthy students. The following loan funds are administered by the College, information concerning which may be obtained from the Business Manager. Applications should be made for any loans through the Business Office.

Student Loan Fund. A small revolving fund made available by members of the Faculty for emergency needs. Open to any approved student for a maximum of \$25.00.

Adair Loan Fund. Made available by Mr. and Mrs. Oliver Adair, Phoenix, Arizona. Restricted to freshmen.

Navajo Fund. For education of worthy Navajo Indian students (or other students when not needed for Navajo students). Made available by Mr. Leo Berndt, Muskogee, Oklahoma.

Lt. Stephen A. Beck Student Loan Fund. For upper classmen. Made available by Dr. and Mrs. Roland L. Beck.

Bessie Fleming Student Loan Fund. Made available by Dr. and Mrs. William Fleming of Fort Worth, Texas.

Peter H. Ethington Memorial Student Loan Fund. Made available by members of the Ethington family.

The Katherine Brooks Loan Fund. This fund was established by Mr. and Mrs. Troy E. Brooks to assist worthy young ladies who are in the Junior and Senior classes and who need help financially to enable them to complete their college work.

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 prospective students of Grand Canyon College in need thereof for their entrance into, and their maintenance while attending Grand Canyon College.

The J. W. Caperton Foundation Student Loan Fund. This loan fund was made available by Mr. J. W. Caperton of Tunica, Mississippi, for ministerial students. This is a revolving loan fund for students preparing for the ministry, who need access to loan funds from time to time.

Anonymous Loan Fund. An anonymous contributor established this fund for loans to be made to ministerial students in need.

National Defense Student Loan Fund. Established in 1958 by the Federal Government. These funds are available for needy students in any field of study although the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to (a) students with a superior academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering or a modern foreign language."

Scholarships and Tuition Grants

General Regulations:

1. No student may receive a combination of scholarships or tuition grants administered by the College that will total more than 70% of the cost of tuition, except for the publications tuition grants which are work scholarships.
2. Ministerial tuition grants are available during the regular fall, spring, and summer terms.
3. Grade average requirements for all scholarships are regulated by the Scholarship Committee.

Ministerial Tuition Grants

Tuition grants up to four years are available to ministerial students, wives of ministers, and children of ministers. Ministerial students, ministers' wives, and ministers' children may, when approved, be granted a maximum of the following amounts of tuition per school year depending on the number of semester hours taken:

Those affiliated with the Southern Baptist Convention:

Ministers	\$240.00
Ministers' wives	120.00
Ministers' children	96.00

Requirements:

1. The student must meet the College entrance requirements.
2. The tuition grant does not apply to courses that are audited.
3. The student must not use tobacco or alcoholic beverages and must be deserving.

4. A minister must be licensed or ordained before the beginning of a semester for which the grant is made.
5. A minister must take a first minor in Bible or Religion. (He should enroll in one such course each semester until the first minor is completed.)
6. The student must attend monthly meetings of the Ministerial Association unless excused by the Head of the Department of Religion.
7. No college graduate is eligible.
8. Korean veterans may qualify.
9. Male ministers affiliated with the Southern Baptist Conventions are included.
10. Divorced ministers are considered individually.

For further information regarding these grants, write to the Registrar.

Departmental Scholarships

A Departmental Scholarship will be offered in each department that offers a major, in the amount of \$96 per semester.

Requirements:

1. A minimum residence at the College of one semester (12 hours or more).
2. Junior or Senior standing, and declaration of major in the department.
3. An overall average of "B" on all work taken in the College and an average of "B" in the department offering the scholarship.

Laura A. Wadsworth Scholarships in Education

Students will be recommended by the Education Department to Mr. and Mrs. Acord of Houston, Texas. Upon their approval, the scholarships will be awarded to Sophomores, Juniors, or Seniors who have demonstrated their academic as well as their activity abilities at Grand Canyon College. Two scholarships will be awarded each year.

Honors Scholarships

A limited number of honors scholarships for 70% of tuition (\$420.00) per year are available to freshmen, during the year following high school graduation, who ranked in the upper 5 per cent of their class in high schools with fewer than 1,000 students and in the upper 10 per cent in larger high schools. These scholarships are renewable for the full four years of college, provided a "B" average is maintained, and provided, further, that the student's progress in other respects is acceptable. Applicants should write to the Registrar for the necessary forms.

Publications Tuition Grants

Five tuition grants for work on publications are awarded up to the following amounts per year:

- (1) Editor of *Canyon Trails*, all of tuition.
- (2) Business manager of *Canyon Trails*, all of tuition.
- (3) Editor of *Echoes*, all tuition.

(4) Business manager of *Echoes*, all of tuition.

(5) School photographer, all of tuition.

Write to the Registrar for the necessary application forms.

Opdyke Scholarships

Three Opdyke Scholarships in the amount of \$150 (\$75 each semester) will be awarded. The Opdyke Fund is designated for "the education of mountain people" and is awarded to worthy students who qualify. Write to the Registrar for the necessary application forms.

Special Abilities Scholarships

Athletic:

A limited number of basketball and baseball and/or tennis scholarships for 70% of tuition (\$420.00 per year) will be offered. Write to the Registrar for the necessary application forms.

Music:

Six special music Scholarships in the amount of \$360.00 will be awarded per school year. Recipients must meet the entrance requirements of the College, must be available for service at the direction of the College, and must maintain a "C" average.

Ten general music scholarships will be available, at least 3 of them in piano, in the amount of \$80 per semester. The Scholarship Committee regulates conditions of awarding these scholarships. Write to the Registrar for the necessary application forms.

Woman's Missionary Union Scholarships

Four scholarships of \$300 per year, or equivalent, will be awarded to Southern Baptist women students who are mission volunteers or are engaged in full time Christian service, who are members of churches affiliated with the Arizona Southern Baptist Convention. For information write to Woman's Missionary Union, 316 West McDowell Road, Phoenix, Arizona.

Oestreich-Eaton Scholarship for Ministerial Students

An annual scholarship of \$100 will be granted to a ministerial student who has maintained at least a "B" average. This scholarship is being granted by Mr. Kermit Oestreich and Mr. Jerry Ray Eaton.

AWARDS

Baptist Book Store Award

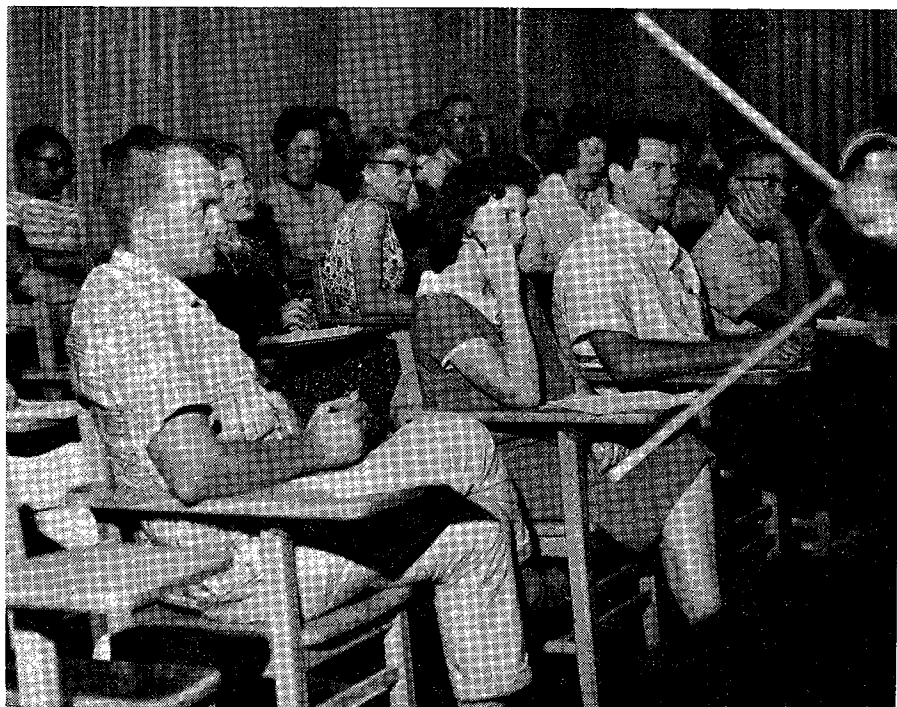
The Baptist Book Store awards annually ten dollars worth of books to the ministerial student in the senior class who makes the highest average in his grades and who is recommended by the faculty for the award.

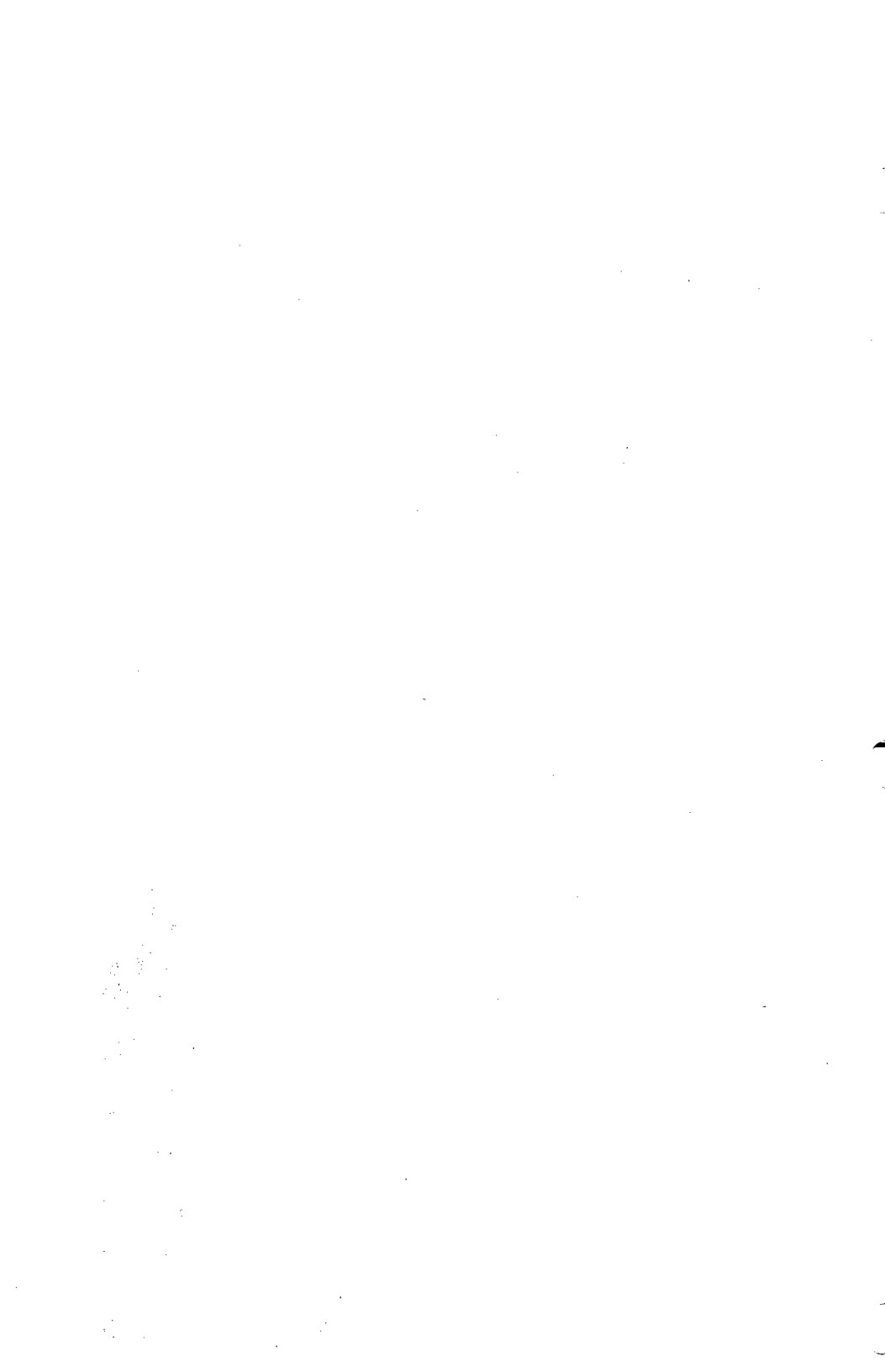
Puckett Award

Dr. J. Niles Puckett will give annually a Thayers Greek Lexicon to the student who makes the highest average in first year Greek and who is recommended by the faculty for the award.

The Pierian Award

The Pierian Club will award, each Spring Semester, an appropriate gift to the English major, Junior or Senior, who has the highest scholastic average for the year. A minimum of a "B" average must be attained by the recipient.





VI. Academic Programs

DEGREES OFFERED

GRADUATION REQUIREMENTS

57

PRE-PROFESSIONAL TRAINING

SUGGESTED PROGRAMS

Graduation Requirements

DEGREES OFFERED

The College offers curricula leading to the Degree of Bachelor of Arts and to the Degree of Bachelor of Science.

GENERAL REQUIREMENTS

Number of Hours. The total number of semester hours required for graduation is 124 with a minimum grade average of "C."

English Usage. Every student classified as a Junior by the Registrar's office will take a test provided by the English Department. In case of failure, the student will retake the test in the following semester. In case of a second failure, the student will be required to enroll in English 110 and successfully complete the course. This requirement includes transfer students and must be met before a student is permitted to graduate.

Transfer students who are upperclassmen must take this qualifying examination at the time of their enrollment and, in case of failure, enroll in English 110.

Upon recommendation of two of his professors, a student may be required at any time to enroll in English 110.

Minimum Residence. A minimum of six semesters of residence in an approved college is required for graduation. Of this, two semesters, consisting of at least 23 semester hours of work, must be done in residence at Grand Canyon College. All work of the semester preceding graduation must be done in Grand Canyon College. Transfer students are required to take in residence at Grand Canyon College at least six upper division semester hours in their major subject and three upper division semester hours in their first minor.

Correspondence and Extension Work. 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. Any such work done at any time by a student while enrolled in Grand Canyon College must have the express approval of the College, in order for such work to be acceptable.

Minimum Amount of Language Allowed. No credit for graduation will be given for less than a year of language taken in college, unless the student has as much as two high school credits in the same language.

Application for Graduation. By the end of their junior year candidates for graduation must file application for candidacy for a degree. No student may register as a senior until he has filed this application. Transfer students who enter as seniors must file the application before completing enrollment. Application forms may be obtained at the Office of the Registrar and completed applications must be returned to the Registrar.

Attendance At Commencement Exercises. Graduates are expected to attend public commencement exercises. In extreme cases students may be excused, but only upon written request, which will be presented to the faculty for vote.

GRADUATION UNDER A PARTICULAR CATALOG

Ordinarily a candidate for a degree will meet the requirements as stated in the catalog in force at the time of his matriculation. He may elect to meet the requirements of the catalog for the year of his graduation but in such case he must conform to that catalog only.

CURRICULAR REQUIREMENTS

The completion of the required 124 semester hours usually requires four years of 30 semester hours each besides Physical Education. Of these the freshman and sophomore years are spent in general or introductory work, comprising courses in widely separated subjects. During the remaining two years, the student may confine his work to comparatively narrow limits. The work for the entire four year course consists of (1) Electives, (2) Prescribed courses, (3) Major and minor subjects.

Electives

A certain number of electives may be taken from the regular college courses offered in each department, in addition to those which may be required in that particular group.

Prescribed Courses for Graduation with a Bachelor of Arts Degree

Bible 113, 123	6 semester hours
Bible 333, 343, 353, 373, 423, 433, 443.....	3 semester hours
Economics 213	3 semester hours
English 113, 123, 213, 223.....	12 semester hours
*Foreign Language, two years.....	12-14 semester hours
**Health	3 semester hours
Mathematics and/or Natural Science.....	8 semester hours
Music 252 (except Music majors)	2 semester hours
**Physical Education 111, 121, 231, 241.....	4 semester hours
#Social Studies: History, Sociology, Government, General Psychology	12 semester hours

— The Bachelor of Arts degree will be granted to majors in English, Bible, Religion, Music, History, Sociology, and Social Studies.

Prescribed Courses for Graduation with a Bachelor of Science Degree

Bible 113, 123	6 semester hours
Bible 333, 343, 353, 373, 423, 433, 443.....	3 semester hours
Economics 213 (Except B. Ad. majors)	3 semester hours
English 113, 123, 213, 223.....	12 semester hours
*Foreign Language (Mathematics and Science majors only), two years.....	12-14 semester hours
**Health	3 semester hours
Mathematics (Except Bus. Adm. Majors).....	4 semester hours
Music 252 (except Music Ed. majors)	2 semester hours
Natural Science (4 hrs. only, Music Ed Major).....	8 semester hours
**Physical Education 111, 121, 231, 241.....	4 semester hours
#Social Studies: History, Sociology, Government, General Psychology	12 semester hours

— The Bachelor of Science degree will be granted to majors in Biology,

Business Administration, Elementary Education, Mathematics, Music Education, and Physical Education.

*One language only; to be taken consecutively.

**Credit may be allowed on the basis of active service with the Armed Forces. (See page 93.)

#Must include 6 hours of History 113, 123, 213, 223.

Majors and Minors

By the beginning of his junior year, each student is required to select one subject to be known as his major in which he shall present at least 30 semester hours. Of these, 12 hours must be of junior-senior rank. The student must have an over-all average of 1.5 in his major courses. No upper division (junior-senior level) course will be acceptable for the major with a grade below "C." Candidates for secondary certificates must have a "B" average in their major.

The student must also choose two minors in subjects other than his major. His first minor must consist of not fewer than 18 semester hours. Of these, 6 hours must be from courses of junior-senior rank. His second minor must consist of not fewer than 12 semester hours.

PRE-PROFESSIONAL TRAINING

Students who desire to prepare for a career in law or in some other profession requiring a legal education may take their undergraduate pre-law work at Grand Canyon College.

The requirements for admission to law schools vary from a minimum of three years of pre-legal college work to a college degree. Whenever possible, the pre-law student should select in advance the law school he plans to attend and arrange his course of study to fit particular suggestions and requirements of that school. In any case, a thorough grounding in English, Social Studies, and Economics is recommended; and pre-law students are strongly urged to complete a course in Elementary Accounting.

The legal profession is exacting in its standards of intellectual effort, honesty, and maturity. Basic objectives of pre-legal education should be comprehension and expression in words, critical understanding of human institutions, and creative power in thinking.

Suggested Program for Pre-Medical, Pre-Dental, and Pre-Optometry Students

Most medical colleges require three years of undergraduate work for admission, including as a minimum one year of inorganic chemistry, half year of organic chemistry, one year of general physics, half year of college mathematics, one year of zoology, half year of biology and half year of anatomy, plus foreign language and humanities and social studies as electives. All these courses are offered and a proper choice of them in two years will meet a substantial part of the requirement.

THE ARTS AND SCIENCES CURRICULA

Suggested Program for the Liberal Arts Majors

Bible, Religion, English, History, Social Studies, Sociology
(B.A. Degree)

It is assumed that many of the students who plan to major in one of these subjects will not decide until his junior year what his major and first minor will actually be. The suggestion that the first and second years be devoted almost exclusively to core curriculum requirements is to encourage the student to study in the widest possible variety of fields, in order that he may determine wherein his greatest interest lies. The following suggested program is intended primarily to serve as a guide or check sheet for the student, rather than to limit him in the first two years to the specific courses listed. Every specific course listed is, however, a required course; and the student is warned that he will lose an hour of credit for any required freshman course delayed until the senior year.

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
English 113, 123.....	3	3	English 213, 223.....	3	3
Bible 113, 123.....	3	3	German or Spanish 213, 223.....	3	3
P. E. 111, 121.....	1	1	Math or Science.....	4	4
*German or Spanish 113, 123....	3	3	P. E. 231, 241.....	1	1
Social studies	3	3	**Major, minor, or elective.....	3	3
Education 111 (Orientation).....	1		Music 252		2
Elective	2	2-3	Economics 213	3	
	16	15-16		17	16
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Social studies	3	3	Bible (required upper division)	3	
Major, minor, or elective.....	12-13	9-10	Major, minor or elective	12-14	15-16
Health Education		3		15-17	15-16
	15-16	15-16			

*Bible majors or other students who elect Greek for the foreign language requirement should take Math or Science in the freshman year and begin Greek in the sophomore year.

**Bible majors will normally take Bible 273-283 in the sophomore year.

Suggested Program for Biology Major (B.S. Degree)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223	3	3
English 113, 123.....	3	3	German or Spanish 213, 223.....	3	3
P.E. 111, 121.....	1	1	P.E. 231, 241	1	1
German or Spanish 113, 123	3	3	Biology 124a, b.....	4	4
Biology 114a, b.....	4	4	Social Studies.....	3	3
Elective	1	1	Minor or Elective	1-2	
Ed. 111 Freshman Orientation....	1		Music 252		2
	<u>16</u>	<u>15</u>		<u>15-16</u>	<u>16</u>
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Social studies.....	3	3	Bible (required upper division)		3
Biology 314, 324.....	4	4	Biology 214 or 334.....	4	
Mathematics 114	4		Biology 323.....		3
Chemistry 114, 124	4	4	Minor, Electives	11-12	9
Health Ed. 333.....		3		<u>15-16</u>	<u>15</u>
Economics 213		3			
	<u>15</u>	<u>17</u>			

Suggested Program for General Business Major (B.S. Degree)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Ed. 111 (Orientation).....	1		English 213, 223.....	3	3
Bible 113, 123.....	3	3	Science	4	4
English 113, 123.....	3	3	Bus. Ad. 214, 223.....	4	3
P.E. 111, 121.....	1	1	P.E. 231, 241.....	1	1
Bus. Ad. 133.....	3		Bus. Ad. or Econ. elective.....	3	3
Bus. Ad. 143.....		3	Music 252	2	
Economics 213, 223.....	3	3	Economics (elective)		3
History 113, 123 or 213, 223.....	3	3	Electives		2
	<u>17</u>	<u>16</u>		<u>17</u>	<u>16</u>
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Bus. Ad. 353, 363.....	3	3	Bible (required upper division)	3	
B.A. 213		3	Major, minor, or electives.....	12	15
Bus. Ad. 383.....	3			<u>15</u>	<u>15</u>
Bus. Ad. or Econ. elective.....					
Health Ed.	3				
Electives	3	6			
	<u>15</u>	<u>15</u>			

Suggested Program for Math Education Major (B.S.) B.S. Degree)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123	3	3	English 213, 223	3	3
English 113, 123	3	3	**Science	4	4
*P. E. 111, 121	1	1	*P. E. 231	1	
**Science	4	4	Math 243		3
Math 133, 143	3	3	Math 233, 253	3	3
Education 112	2		History (113, 123, 213, 213)	3	3
Ed. 111 (Freshman Orientation)			Psy. 213	3	
Math. 213	1	3	Math 211		1
	<u>17</u>	<u>17</u>		<u>17</u>	<u>17</u>
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Math. 323, 333	3	3	Education 313	3	
Math. 383, 313	3	3	Education 321	1	
*Science	4		Education 413	3	
Econ. 213		3	Education 422	2	
H. S. Ed. 443	3		High School Education 328	8	
H. S. Ed. 323		3	Bible (required upper division)		3
Psychology 382	2		Math. 363		3
Music 252		2	Government 303		3
*P. E. 241	1		Health Ed. 333		3
	<u>16</u>	<u>14</u>	Math. 423		3
				<u>17</u>	<u>15</u>

*All four required P.E. activity courses are offered each semester and may be taken in any order.

**Required of General Science minors.

Suggested Program for Mathematics Major (B.S. Degree)

In order to complete a major in mathematics in four years of college work, it is essential that the student begin the program in his freshman year. A student who plans to major in this subject will pay close attention to the prescribed courses for the B.S. degree and will keep in contact with the chairman of the department, in order to assure himself of completing in the necessary sequence the courses required for the major.

Suggested Program for Applied* Music Major (B.A. Degree)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	*English 213, 223	3	3
English 113, 123.....	3	3	German or Spanish 213, 223.....	3	3
Ed. 111 (Freshman Orientation)..	1		**P.E. 121, 231.....	1	1
**P.E. 111		1	Social Studies	3	3
German or Spanish 113, 123.....	3	3	Music 214, 224.....	4	4
Music 114, 124.....	4	4	Applied Music.....	2	2
Applied Music.....	2	2		<u>16</u>	<u>16</u>
	<u>16</u>	<u>16</u>			

Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
**P.E. 241.....	1		Applied Music.....	2	2
Math or Science.....	4	4	Social Studies.....	3	
Economics 213.....	3		#Electives (Music or First		
#Health Education, Electives.....	3	7	Minor).....	8	11
Music 333, 343.....	3	3	Bible (required upper division)		3
Applied Music.....	2	2		13	16
	16	16			

*This basic program may be adjusted to the Music Theory Major (outline on page 97).

**All four required P.E. activity courses are offered each semester and may be taken in any order.

#For piano majors, these electives must include Piano 301a-b, Piano Ensemble (two semesters).

THE TEACHER-TRAINING CURRICULA

Suggested Program for Elementary Education Major (B.S. Degree)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223.....	3	3
English 113, 123.....	3	3	*P. E. 231, 241.....	1	1
*P. E. 111, 121.....	1	1	Second Year language		
Ed. 111 (Freshman Orientation)..	1		or elective.....	3	1 or 2
German or Spanish 113, 123			*Science or Math.....	4	
(if elected).....	(3)	(3)	*Science or Math (if language		
*Math or Science,			was elected), or Elective.....		(3-4)
if no language.....	4	4	Economics 213.....	3	
Mus. 252.....	2	2	*Psychology 213.....	3	3
*Education 112.....			Psychology 382.....		2
Electives.....	3	3	History (from 113, 123, 213, 223)	3	3
				17	16-17

Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Sociology 213.....	3		Health Education.....	3	
**Elementary Education 353.....	3		Elementary Ed. 362.....	2	
*Math or Science (if needed).....	4		Government 303.....	3	
*Elem. Education 343.....	3		Psychology 382.....	2	
Elective.....	3		Minors or elective.....	6	
		16		16	
†Education 313.....		3			
†Education 321.....		1			
†Education 413.....		3	Bible (required upper division)		3
†Education 422.....		2	Minors or electives.....		13
†Elementary Education 328.....		8			16
		17			

*Offered and may be taken either semester.

**Required before apprentice teaching.

†The apprentice teaching block may be taken the first semester of Senior year.

† Suggested Program for Secondary Education

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223.....	3	3
English 113, 123.....	3	3	*P.E. 231, 241.....	1	1
*P.E. 111, 121.....	1	1	Psychology 213.....	3	
Education 111.....	1		German or Spanish	3	3
Education 112.....		2	Economics 213.....	3	
Math or Science.....	4	4	Mus. 252.....		2
History (from 113, 123, 213, 223) 3	3	3	Major, minor (teaching fields)....	3	6-7
Electives	1	1		16	15-16
	16	17			
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
German or Spanish.....	3	3	Ed. 313	3	
Psychology 382.....	2		Ed. 321	1	
Government 303.....		3	Ed. 413	3	
Health Ed. 333		3	Ed. 422	2	
**H.S. Ed. 323.....	3		H.S. Ed. 328.....	8	
**H.S. Ed. 443.....	3		Bible (required)		3
Major, Minor (teaching fields)....	5-6	6	Major, Minor (teaching fields)....		13
	16-17	15	Total of Fall Semester Block.....	17	16

*Offered and may be taken either semester.

**Required before apprentice teaching

† This program may be followed by students majoring in English, History, Social Studies, or Sociology. Students who major in mathematics are referred to pages 64 and 108; those who major in biology, to page 63 and 107.

NOTE: Candidates for positions in secondary schools are expected to complete a major of 30 hours and a minor of 18 hours respectively in two teaching fields, in addition to the education courses outlined above. A student should therefore select his teaching fields in the freshman year and plan his college program in cooperation with the heads of departments concerned.

Students in this program should take as many hours in their major (teaching field) as possible before taking the apprentice teaching block. They must complete their general requirements for graduation and the English Qualifying Examination before taking the teaching block.

Suggested Program for Biology Major (B.S. Degree) (With Secondary Certificate Requirements)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223	3	3
English 113, 123	3	3	*P.E. 231, 241	1	1
*P.E. 111, 121	1	1	German or Spanish 213, 223	3	3
German or Spanish 113, 123	3	3	Biology 124a, b	4	4
Biology 114a, b	4	4	History (from 113, 123, 213, 223) 3		3
Ed. 111 (Freshman Orientation) 1	1		*Psychology 213	3	
Education 112	2		Biology 323		3
Music 252		2		17	17
	17	16			

Junior Year			Senior Year			
	Fall	Spring		Fall	Spring	
**H.S. Education 323	3		{ Education 313	3		
**H.S. Education 443	3			Education 321	1	
Biology 314, 324	4	4		Education 413	3	
Health Education 333		3		Education 422	2	
Government 303		3		H.S. Education 328	8	
Mathematics 114		4				
*Economics 213	3		Total of Fall Semester Block.....	17		
Minor, or elective	3	3	Biology 334		4	
	16	17	Psychology 382		2	
			Bible (required upper division)		3	
			Minor or elective		7-8	
					16-17	

*Offered and may be taken either semester.

**Required before apprentice teaching.

Suggested Program for Business Major (B.S. Degree)
(With Secondary Certificate Requirements)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Ed. 111 (Freshman Orientation)	1		English 213, 223	3	3
Bible 113, 123		3	Science	4	4
English 113, 123	3	3	Bus. Ad. 214, 223	4	3
*P.E. 111, 121	1	1	*P.E. 231, 241	1	1
Bus. Ad. 133, 143	3	3	Psychology 213		3
Economics 213, 223		3	Education 112	2	
**Secretarial Science 123, 213 ..	3	3	History (from 113, 123, 213, 223)	3	3
	17	16		17	17

Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
B.A. 213	3		{ Education 313	3	
Bus. Ad. or Econ. Elective.....		3	{ Education 321	1	
Bus. Ad. 353, 363	3	3	{ Education 413	3	
†H.S. Education 443	3		{ Education 422	2	
Government 303		3	{ H.S. Education 328.....	8	
*Health Education 333	3				
Psychology 382		2	Total of Fall Semester Block..17		
**Secretarial Science 143, 223....	3	3	Bus. Ad. 383		3
†H.S. Education 323		3	B.A. Elective		3
Music 252	2		Secretarial Science 313		3
	17	17	Bible (required upper division)		3
			Minor, or Electives		3
					15

*Offered and may be taken either semester.

**Students who have had no shorthand or typewriting previously must take Secretarial Science 113 before taking Secretarial Science 123 and must take Secretarial Science 133 before taking Secretarial Science 143.

†Required before apprentice teaching.

Suggested Program for Applied* Music Major

(B.A. Degree)

(With Elementary Certificate Requirements)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223.....	3	3
English 113, 123.....	3	3	German or Spanish 213, 223.....	3	3
Ed. 111 (Freshman Orientation).....	1		**P.E. 121, 231	1	
German or Spanish 113, 123	3	3	Music 214, 224.....	4	4
**P.E. 111		1	Applied Music	2	2
Music 114, 124.....	4	4	Education 112.....		2
Applied Music	2	2	Psychology 213.....	3	
	—	—	Economics 213		3
	16	16		16	17
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Music 333, 343.....	3	3	Ed. 313	3	
Applied Music	2	2	Ed. 321	1	
**P.E. 241.....	1		Ed. 413	3	
Math or Science	4	4	Ed. 422	2	
History (from 113, 123, 213, 223).....	3	3	Elem. Ed. 328	8	
Elem. Ed. 343, 353.....	3	3	Applied Music		4
Psychology 382		2	Music Ed. 333		3
Music 301a		1	Music 301b		1
	—	—	Government 303		3
	17	17	Health Education 333.....		3
			#Electives in First Minor.....		4.6
				17	18

*This basic program may be adjusted to the music theory major (outline on page 97) as well as to Secondary Certificate program (outline on page 66).

**All four required P.E. activity courses are offered each semester and may be taken in any order.

#The only subjects in which students in this program can complete first minors at the present time are English and Spanish. The student is warned to observe the course load regulation on page 43. Attendance in at least one term of summer school will greatly facilitate completion of this program within four years.

Suggested Program for Music Education Major†

(B.S. Degree)

(With Secondary Certificate Requirements)

Certification for Music in Grades 1-12

6 hours graduate work required for secondary teachers

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123	3	3	English 213, 223	3	3
English 113, 123	3	3	History 113, 123 or 213, 223	3	3
Ed. 111 (Freshman or.)	1		*P.E. 121, 231	1	1
*P.E. 111	1		Applied Music	1	1
Music 114, 124	4	4	Music 214, 224	4	4
Education 112	2		Psychology 213		3
Applied Music	2	2	Music Ed. 202	2	
Mathematics		4	Science	4	
Choir	1	1	Choir		1
	17	17		18	18

Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
Applied Music	2	2	Education 313	3	
Music 301a	1		Education 321	1	
Music 333, 343	3	3	Education 413	3	
*P.E. 241	1		Education 422	2	
Music 323		3	HS Ed. 328	8	
Music 373	3		Applied Music		2
HS Ed. 323	3		Music 301b		1
HS Ed. 443		3	Music Education 413		3
Psychology 382		2	Govt.		3
Economics 213		3	Bible (required upper division)		3
Music Ed. 333		3	Health Ed. 333		3
Choir	1		Choir		
	17	16		17	15

Since a minor teaching field of at least eighteen hours is required of prospective secondary school teachers, it is recommended that students in this program select an English or Social Studies minor.

*All four required P.E. activity courses are offered each semester and may be taken in any order.

† This program is worked out for elementary teachers. The basic program as suggested can be adapted to secondary teaching.

Suggested Program for Physical Education Major (B.S. Degree)

(With Secondary Certificate Requirements)

Freshman Year			Sophomore Year		
	Fall	Spring		Fall	Spring
Bible 113, 123.....	3	3	English 213, 223.....	3	3
English 113, 123.....	3	3	History (from 113, 123, 213, 223)	3	3
*P. E. 111, 121.....	1	1	Economics 213		3
#Science	4	4	Math 114	4	
Ed. 111 (Freshman Orientation)	1		*Physical Education 231, 241.....	1	1
*Education 112	2		Physical Education 213, 243.....	3	3
*Psychology 213		3	Physical Education 273.....	3	
Health Education 212.....	2		Health Education 333.....		3
Physical Education 222.....		2		17	16
	16	16			
Junior Year			Senior Year		
	Fall	Spring		Fall	Spring
†High School Education 323	3		Physical Education elective.....	3	
†High School Education 443	3		Electives in Minor.....	10-12	
Psychology 382 (or Elective)	2		Psychology 382 (if not previously taken)	2	
Physical Education 413.....	3		Physical Education 423.....		3
Sociology 213	3		Government 303		3
Speech 113	3		Music 252		2
	17		Bible (required upper division)		3
			Minor, or Elective.....		6
{ Education 313		3 }		15	17
{ Education 321		1 }			
{ Education 413		3 }			
{ Education 422		2 }			
{ High School Education 328		8 }			
		17 }			
Total of Spring semester Block					

*Offered and may be taken either semester.

†Required before apprentice teaching.

#NOTE: Since a minor teaching field of at least 18 hours is needed by prospective secondary school teachers, students in this program should select such minor teaching field in the freshman year if possible, in order that prerequisites may be met. If biology is selected, students will take Biology 114a-b or Biology 124a-b instead of Biology 134.

VII. Departments of Instruction

BUSINESS ADMINISTRATION AND ECONOMICS

EDUCATION AND PSYCHOLOGY

ENGLISH

FOREIGN LANGUAGES

HEALTH AND PHYSICAL EDUCATION

MUSIC

RELIGION

SCIENCE

SOCIAL STUDIES



Department of Business Administration and Economics

MR. KENT, MR. BURGESS, MR. PROCK

The Business Department wishes to explore the student's aptitude for further study and research in the field of business as a career and to offer a limited number of vocational and personal use courses in business. It is our aim to give some general understanding of our economy to all graduates of the college. It is the desire of the Department of Business Administration and Economics to inspire every student to practice Christian principles, personal integrity, and high ethical standards in all aspects of his business life.

Requirements for a B.S. Degree in Business Administration (General Business Major)

Business Administration 133.....	3 semester hours
†Economics 213, 223	6 semester hours
Business Administration 143 (To count as math require- ment)	3 semester hours
†Business Administration 214, 223	7 semester hours
Business Administration 353, 363.....	6 semester hours
Business Administration 213.....	3 semester hours
Business Administration and †Economics not listed above.....	any 6 semester hours

Requirements for a minor in Business Administration

Business Administration 214, 223.....	7 semester hours
Economics 213, 223.....	6 semester hours
Electives in Business Administration	6 semester hours

Requirements for a minor in Secretarial Science

*Secretarial Science 123, and 213.....	6 semester hours
**Secretarial Science 143, and 233.....	6 semester hours
Electives in Secretarial Science †(B.A. 383 counted as elective)—upper division courses.....	6 semester hours

Requirements for a minor in Economics

†Economics 213, 223	6 semester hours
Economics 333	3 semester hours
Electives in Economics.....	9 semester hours

Requirements for a minor in Accounting

†Business Administration 214, 223.....	7 semester hours
Business Administration 313, 323.....	6 semester hours
Electives in Accounting.....	6 semester hours

* A maximum of 6 hours credit in Typewriting will be allowed.

** A maximum of 6 hours credit in Shorthand will be allowed.

† Duplicate credit will not be allowed for a student's major and minor, but when used for a minor these courses will not be required in the General Business Major.

Summary of Program for Business Majors Planning to Teach

Bible 113, 123.....	6 semester hours
Bible 333, 343, 353, 373, 423, 433, 443.....	3 semester hours
English 113, 123, 213, 223.....	12 semester hours
Health Education 333.....	3 semester hours
Music 252	2 semester hours
Natural Science	8 semester hours
Physical Education	4 semester hours
History (Social Studies).....	6 semester hours
National & State Constitutions (Social Studies)	3 semester hours
General Business courses required for a B.S. Degree in	
Business Administration as listed above.....	37 semester hours
General Psychology (Social Studies).....	3 semester hours
Education (See below for required courses).....	22 semester hours
Minor and Electives (Teachers should minor in	
Secretarial Science	15 semester hours

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The 21 hours listed below for education are required at Grand Canyon College and may be taken in a block during one semester, with the exception of Education 112 and H.S.Ed. 323, which must be taken before the education block is taken. The General Psychology course listed above must also be taken before the education block is taken.

Educ. 112 Introduction to Education.....	2 semester hours
H.S. Ed. 323 High School Methods and Procedures	3 semester hours

Education Block

(Taken latter part of junior year or first part of senior year)

Educ. 313 Educational Psychology	3 semester hours
Educ. 321 Orientation to Apprentice Teaching.....	1 semester hour
Educ. 413 Tests and Measurements	3 semester hours
Educ. 422 History of Education	2 semester hours
H.S. Ed. 328 Apprentice Teaching in High School	8 semester hours

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The Education Department also recommends Psychology 382 and High School Education 443.

BUSINESS ADMINISTRATION

B.A. 133. Introduction to Business Principles and Management. Emphasis is placed upon function, organization, and services of business including such specific problems as location, finance, personnel, and marketing. (Fall)

3 semester hours.

B.A. 143. Business Mathematics. (To count as math requirement) A basic course in the principles of mathematics as related to business including fundamental mathematical operations as interest and discount, annuities, depreciation, ratio and proportion, and use of graphs with mathematical computations. (Spring)

3 semester hours.

B.A. 213. **Business Statistics.** This course provides a thorough general survey of methods and interpretation. The student is taught to become proficient in the use of formulas, and to understand the specialized meaning of the measures he has computed. This course will give a complete coverage of the basic techniques of statistical analysis. Prerequisite: B.A. 143 3 semester hours

B.A. 214. **Principles of Accounting.** An introduction to the fundamental principles and practices of accounting; the construction and interpretation of balance sheets and of profit and loss statements; the theory of debits and credits as applied to business transactions. (Each fall)

4 semester hours.

B.A. 223. **Principles of Accounting.** A continuation of 214. An application of accounting principles to certain specialized problems under the various forms of business organization. Manufacturing accounts and manufacturing cost and controls; accounting for fire losses, bonds and sinking funds. (Each spring)

3 semester hours.

B.A. 313. **Intermediate Accounting.** Theory and practice relating to the theory of the various balance-sheet accounts. Basic accounting theories are applied to the problems incident to partnership and corporation formation, operation, and liquidation. Theories determining valuation of current assets and their position on financial statements are stressed. (Fall, 1963)

3 semester hours.

B.A. 323. **Intermediate Accounting.** A continuation of 313. Emphasis on the valuation of fixed assets and liability accounts with proprietorship reserves. Application of the theories of valuation to normal financial statements and interpretation of these statements. (Spring, 1964)

3 semester hours.

B.A. 333. **Corporation Finance.** (Formerly Industrial Organization and Combination) This course includes an examination of the principles and policies of corporate practice; types of securities and their limitations; promotion, syndicating and selling; operating and maintenance policies; combinations, failure and problems of social control. Prerequisite: B.A. 214, 223; Economics 213.

3 semester hours.

B.A. 353. **Business Law.** This course includes laws of persons, tort, contract, agency, private property, sales, negotiable instruments, and insurance. Prerequisite: Economics 213. (Fall)

3 semester hours.

B.A. 363. **Business Law.** A continuation of 353. Laws as related to the forms of modern business; individual proprietorships, partnerships, corporations. Prerequisite: B.A. 353. (Spring)

3 semester hours.

B.A. 383. **Business Writing.** Practice in the writing of effective business letters and reports; includes the mechanics and format of business correspondence and training in the organization and writing of business reports. Prerequisites: English 113, 123; ability to use the typewriter.

3 semester hours.

B.A. 393. Principles of Marketing. This course includes an examination of our present marketing structure, commodities, institutions, and social and economic trends. Prerequisite: Economics 213. 3 semester hours

B.A. 433. Cost Accounting. Principles of factory and distributive cost accounting. Prerequisite: B.A. 223. (Fall, 1962) 3 semester hours.

B.A. 443. Income Tax Accounting. An interpretation of federal income tax laws with practice material requiring an application of provisions to the returns of individuals. Prerequisite: B.A. 223. (Spring, 1963) 3 semester hours.

ECONOMICS

Economics 213. Survey of Economics. A brief survey of basic economic concepts, principles, and business practices. Includes a study of such topics as the various economic systems, corporations, specialization in production, the monetary system, distribution of income, government spending, taxes, public debt, the price system, monopoly, and labor problems. A general requirement for all students. Offered each semester. 3 semester hours.

Economics 223. Principles of Economics. A continuation of Economics 213, with special emphasis on a more intensive study and application of advanced economic analyses related to present-day problems. Required of all business administration majors and minors and economics minors. Prerequisite: Economics 213 or equivalent. (Spring) 3 semester hours

Economics 233. Economic Geography (formerly Economics 323). A study of the products of agriculture, commerce, and industry, and the conditions which affect their production, exchange, and consumption. Prerequisite: Economics 213. 3 semester hours.

Economics 243. Consumer Economics. This course will make a study of standards of living; consumer income and expenses; retailing and distribution of consumer goods, consumer credit; laws which affect consumers; and survey of budgeting, investments, and taxes. It is a survey of the modern trends with which the consumer should be familiar. Prerequisite: Economics 213. 3 semester hours.

Economics 333. Economic History of the United States. (Same as History 353) The progress of the nation in agriculture, manufacturing, commerce, transportation, money and banking, labor organization, and labor legislation. Prerequisite: Economics 213. 3 semester hours.

Economics 353. 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: Economics 213. 3 semester hours.

Economics 363. **Money, Banking, and Credit** (formerly Money & Banking) A general survey of the subject; 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; foreign exchange. Prerequisite: Economics 213. 3 semester hours.

SECRETARIAL SCIENCE

Secretarial Science 113. **Typewriting.** This course is for students who cannot type thirty words per minute or students just beginning typewriting. It covers a general knowledge of the care and operation of the typewriter, mastery of keyboard, and copying plain copy. 3 hours class periods weekly, 2 hours lab periods. 3 semester hours.

Secretarial Science 123. **Typewriting.** Intermediate work in typing, to be taken when a speed of at least thirty words per minute has been attained. Practice in letter writing, tabulation, business forms, rough drafts and special emphasis on speed. 3 hours class periods weekly, 2 hours lab periods. 3 semester hours.

Secretarial Science 213. **Typewriting.** Emphasis on building speed as it applies to office production techniques, including transcription, reports, tabulation forms, and duplicating processes. Prerequisite: Secretarial Science 123. 3 hours class periods. 3 semester hours.

Secretarial Science 133. **Shorthand.** This course aims to master the principles of Gregg Shorthand, with drills in the correct formation of word outlines and phrase forms, the study of brief forms, and daily reading from shorthand plates. Students who have had shorthand previously may qualify for Sec. Sci. 143 by meeting the standards for that course. 3 hours class periods, 2 hours lab periods. 3 semester hours.

Secretarial Science 143. **Shorthand.** A continuation of 133. Additional study in phrasing and practice in reading shorthand and taking dictation. Speed attainment in dictation of 80 words per minute. 3 hours class periods. 3 semester hours.

Secretarial Science 223. **Dictation and Transcription.** Speed dictation and transcription with emphasis on accuracy and good form in preparing mailable letters. Prerequisite: Sec. Sci. 143. 3 hours class periods. 3 semester hours.

Secretarial Science 313. **Office Practice.** A practical course in the techniques of office methods; secretarial duties and procedures; filing; organization and arrangements of the office; office equipment and supplies. Prerequisite: Secretarial Science 123 or equivalent. 3 semester hours.

Department of Education and Psychology

DR. BECK, DR. HAGAN, MR. PATTON, MR. WEATHERHEAD

While the Department of Education and Psychology functions primarily to train public school teachers, courses in the Department are regular college courses and students majoring in other areas may elect to take certain courses upon approval of the Department of Education.

TEACHER TRAINING CURRICULA

The courses in education and psychology are planned and organized to meet the following requirements: (1) Major in Elementary Education; (2) a curriculum for elementary teachers; (3) a curriculum for high school teachers; (4) courses to meet Arizona certificate requirements and renewals.

In order to become a candidate for teacher training, a student must have completed 58 semester hours of college work with an average grade of "C." Students who complete 75 hours before they maintain a "C" average should get a degree before they apply for admission to the Teacher Training Program.

Majors in subject matter fields preparing to teach in high school should have a "C+" average in all subjects before graduation and must have a "B" average in the major field. To qualify for apprentice teaching, students must have passed the English Qualifying Examination (see p. 59).

Grand Canyon College work is approved by the Arizona State Board of Education.

Elementary Certificate (Grades 1 to 9)

(Bachelor's degree and 18 semester hours minimum requirements in Education.)

Requirements of State Board:

A. Ed. 313 Educational Psychology	3 semester hours
B. El. Ed. 343 Elementary School Curriculum and Techniques (Language Arts)	3 semester hours
C. El. Ed. 353 Elementary School Curriculum and Techniques (Social studies, science, arithmetic)	3 semester hours
D. Ed. 413 Tests and Measurements (Evaluation of Learning)	3 semester hours
E. El. Ed. 328 Apprentice Teaching in the Elementary Grades	8 semester hours
	<hr/> 20

Requirements of Grand Canyon College:

F. Psy. 213 General Psychology	3 semester hours
G. Ed. 112 Introduction to Education	2 semester hours
H. Ed. 321 Orientation to Apprentice Training	1 semester hour
I. Psy. 382 Child and Adolescent Psychology	2 semester hours

J. Ed. 422 History of Education	2 semester hours
K. Elective in Education	1 semester hour
	<u>31</u>

Also required for certification:

K. He.Ed. 333 School and Community Health	3 semester hours
L. Govt. 303 National and Arizona Constitutions	3 semester hours

Summary:

Total Education and Psychology	31 hours
Health Education	3 hours
Government	3 hours

✓ (37)

Pre-Secondary Certificate (Grades 7-12)

(Bachelor's degree and 6 hours of graduate work—a major of 24 hours, and a minor of not less than 15 hours; 18 semester hours in Education.)

Secondary Certificate (Grades 7-12)

(Master's degree or 30 graduate semester hours, 18 semester hours in Education, 6 graduate hours in Education, Major 24 semester hours, Minor 15 semester hours.)

Requirements of State Board:

A. Ed. 313 Educational Psychology	3 semester hours
B. Ed. 413 Tests and Measurements (Evaluation of Learning)	3 semester hours
C. H.S. Ed. 323 High School Methods and Procedures	3 semester hours
D. H.S. Ed. 443 Curriculum and Principles of Secondary Education	3 semester hours
E. H.S. Ed. 328 Apprentice Teaching in High School (Grades 7 to 12)	8 semester hours
	<u>20</u>

Requirements of Grand Canyon College:

F. Ed. 112 Introduction to Education	2 semester hours
G. Psy. 213 General Psychology	3 semester hours
H. Ed. 321 Orientation to Apprentice Training	1 semester hour
I. Psy. 382 Child and Adolescent Psychology	2 semester hours
J. Ed. 422 History of Education	2 semester hours
	<u>30</u>

Also required for certification:

J. He. Ed. 333 School and Community Health	3 semester hours
K. Govt. 303 National and Arizona Constitutions	3 semester hours

Summary:

Total Education and Psychology	30 hours
Health Education	3 hours
Government	3 hours

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TEACHER TRAINING STAFF

Roland L. Beck Head, Department of Education and Psychology

B.A., Oklahoma Baptist University;

M.A., Ph.D., University of Oklahoma

Maxine Wakefield Hagan

Professor of Education; Director of Teacher Placement

B.A., Arizona State University

M.A., Arizona State University

Ed.D., University of Arizona

Additional Graduate Study, University of California

Dale W. Patton

Associate Professor of Education; Director of Teacher Training

B.Ed., Teachers College, St. Cloud, Minnesota

B.Mus.Ed., Northwestern University

M.Ed., Syracuse University

Doctoral Candidate, Arizona State University

Sidney W. Weatherhead

Associate Professor of Education

B.S., Western Michigan College

M.A., Michigan State University

Additional Graduate Study, Arizona State University; Wayne State University

SCHOOLS COOPERATING IN THE APPRENTICE TEACHING PROGRAM

The listing of these schools in the Teacher Training Program does not imply that the teachers are employed by Grand Canyon College, or that the schools are under the supervision of the College. The supervision of apprentice teachers has been delegated to the school to which the apprentice teacher is assigned, but the evaluation of the apprentice teacher's work is a dual responsibility. These evaluations are made independently.

PUBLIC SCHOOLS COOPERATING IN THE APPRENTICE TEACHING PROGRAM

Alhambra Elementary School District

Bisbee Public Schools

Cartwright Elementary School District

Chandler Public Schools

Copper Belt School District

Cottonwood-Oak Creek Public Schools

Creighton Elementary School District

Duncan Schools

Dysart Elementary Schools

Gibert Public Schools

Glendale Elementary School District

Glendale Union High School District

Holbrook Public Schools

Isaac Elementary School District

Liberty Elementary School District

Litchfield Park Elementary School District

Madison Elementary School District

Mayer Public Schools

Mingus Jr.-Sr. High School & Verde, Dir. #3

Murphy Elementary School District

McNary Public Schools

Osborn Elementary School District

Palo Verde Elementary School District

Paradise Valley School District

Peoria Public Schools

Phoenix Elementary School District

Phoenix Union High School and

Phoenix College System

Prescott Public Schools

Riverside Elementary School District

Roosevelt Elementary Schools

Safford Public Schools

Scottsdale Public Schools

Stanfield Public Schools

Tempe Elementary School District

Tolleson Grammar School

Tolleson Union High School District

Washington Elementary School District

Wickenburg Public Schools

Wilson Elementary School District

Yuma Elementary School District

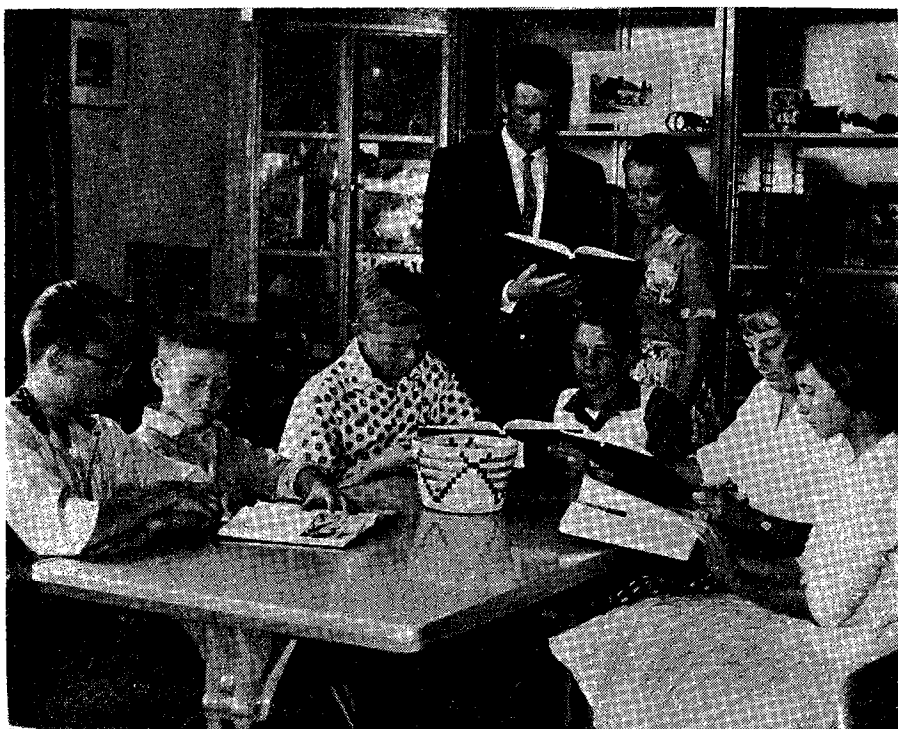
Yuma Union High School District

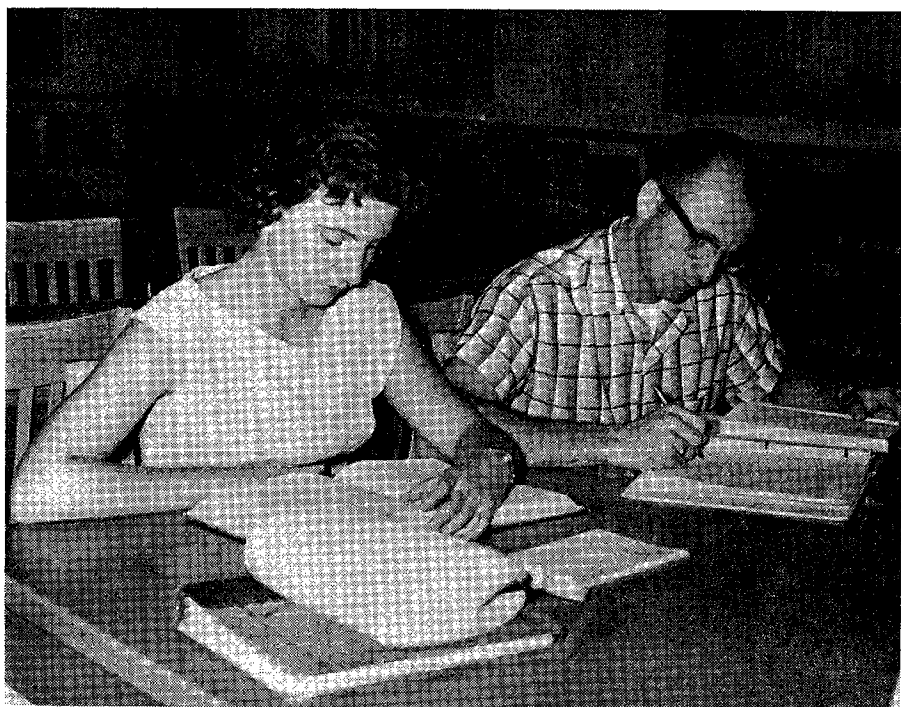
PRIVATE SCHOOLS COOPERATING WITH GRAND CANYON COLLEGE IN THE APPRENTICE TEACHING PROGRAM

Phoenix Christian High School

GOVERNMENT SCHOOLS COOPERATING WITH GRAND CANYON COLLEGE IN THE APPRENTICE TEACHING PROGRAM

Phoenix Indian School





EDUCATION

Education 110. **Remedial Education.** Emphasis is given on the mechanics of reading involving eye-span, reading rate, attention and comprehension, reading vocabulary, word meaning, sentence meaning, paragraph meaning, and story value. The student is taught to read aloud with the eye-span in advance of oral reading. Tests are given for vision, depth perception, color vision, eye movements, reading rate, and reading comprehension. Frequent use of the dictionary is emphasized and individual remedial instruction is given each student. (Fall) No credit.

Education 111. **Freshman Orientation.** A course required in the college program of all freshmen; consideration of academic, social, vocational, and other basic problems common to first-year college students. (Fall) 1 semester hour.

Education 112. **Introduction to Education.** This orientation course is designed to give the student a view of the whole field of education with emphasis upon its opportunities and requirements as a profession. (Fall and Spring) 2 semester hours.

Education 313. **Educational Psychology.** This course takes up the general problems of learning, such as native and acquired characteristics, individual differences, motivation as well as the different theories of learning, and their application to the classroom situation. (Fall and Spring) 3 semester hours.

Education 321. **Orientation to Apprentice Teaching.** The purpose of this course is to acquaint the apprentice teachers with apprentice teaching requirements. Area school administrators and supervisors will be invited to participate in this orientation. Additional instruction from the education faculty will be included. Classes will meet two periods per week during the first nine weeks of the education block. (Fall and Spring) 1 semester hour

Education 363. **Audio-Visual Aids.** A survey of the field of projected and non-projected aids, with discussions, demonstrations, and laboratory work. (Spring) 3 semester hours.

Education 413. **Tests and Measurements (Evaluation of Learning).** This course deals with the philosophy of testing, the construction of tests, the actual administration and interpretation of tests. There will be opportunity for examination of sample tests. Students will select either high school or elementary tests for study and do test construction in either field. Prerequisites: Education 112 and Methods. (Fall and Spring) 3 semester hours.

Education 422. **History of Education.** This is a survey course in the general development of education from ancient times down to the present. The course intends to be more extensive than intensive, and attempts to establish an educational background for students majoring in the field of education. Prerequisite: Education 112. (Fall and Spring) 2 semester hours.

ELEMENTARY EDUCATION

Elementary Education 328. **Apprentice Teaching in the Elementary Grades.** Prerequisites: Education 112, Elementary Education 343, and Elementary Education 353. (Fall and Spring). 8 semester hours.

Elementary Education 343. **Elementary School Curriculum and Techniques** (Language Arts). Special emphasis is given to methods and materials of instruction in reading, language, composition, spelling, and writing in all the elementary grades. Prerequisite: Education 112. (Fall and Spring) 3 semester hours.

Elementary Education 353. **Elementary School Curriculum and Techniques** (Social studies, science, and arithmetic). This course serves to acquaint the elementary teacher with curriculum methods, literature, and approved techniques for teaching arithmetic, social studies, and natural sciences, and with the recent research in these fields. Prerequisite: Education 112. (Spring and Fall) 3 semester hours.

Elementary Education 362. **Construction and Play Materials.** The construction and use of play materials are made more practical by actual experience. The use of charts, counting devices, games, and dramatic materials is stressed. (Spring) 2 semester hours.

Elementary Education 373. **Children's Literature and Story Telling.** The best selections of all types of child literature from outstanding authors are studied. Volumes of literature for children's libraries are considered. A handbook and anthology of children's literature are used as texts supplemented by library reading. Story-telling is emphasized. Prerequisites: English 213 and 223. (Fall) 3 semester hours.

SECONDARY EDUCATION

High School Education 323. **High School Methods and Procedures.** A study of methods and procedures in high school instruction. All methods used are included, as well as a combination of the best in all methods, or the eclectic method. Procedures usually applied in high schools are emphasized. Prerequisite: Education 112. (Fall and Spring) 3 semester hours.

High School Education 328. **Apprentice Teaching in High School.** Prerequisite: Education 112, High School Education 323, and High School Education 443. (Fall and Spring) 8 semester hours.

High School Education 443. **Curriculum and Principles of Secondary Education.** This course will deal with the fundamental principles of curriculum development and construction, and the fundamental facts underlying the aims and principles of secondary education. Professional ideals of teaching are stressed throughout the course. Prerequisite: Education 112. (Fall and Spring) 3 semester hours.

PSYCHOLOGY

Students may minor in psychology by completing 18 hours in psychology. The following courses offered at Grand Canyon College will be accepted for minor credit in psychology:

Requirements for a minor in Psychology

Education 111 (Freshman Orientation).....	1 semester hour
Psychology 213 (General Psychology).....	3 semester hours
Psychology 382 (Child and Adolescent Psychology).....	2 semester hours
Education 313 (Educational Psychology)	3 semester hours
Education 413 (Tests and Measurements—Evaluation of Learning)	3 semester hours
Religious Education 333 (Psychology of Religion).....	3 semester hours
Sociology 303 (Social Psychology)	3 semester hours

Psychology courses transferred may be substituted for any of those listed above except Psychology 213, General Psychology.

Psychology 213. General Psychology. A foundation course in the science of behavior. The study will include origin and development of behavior patterns, motivation, emotional behavior, sensory functions, perception, intelligent behavior, and adjustment. Simple experiments will constitute a basic part of the work. (Fall and Spring)

3 semester hours.

Psychology 382. Child and Adolescent Psychology. An analysis of infant behavior; the motor and emotional development of children; motivation, thinking, work and play in child life; the synthesis and integration of personality. The meaning and significance of adolescence; physical, mental, moral and religious development; adolescent impulses, interests, social tendencies; the hygiene of adolescence; the guidance and control of adolescent behavior. Prerequisite: Psychology 213. (Fall and Spring)

2 semester hours.

Department of English

MRS. BECK, MR. BRYAN, MR. SUTHERLAND

The English Department of Grand Canyon College aligns its objectives with the Baptist and Protestant tradition of the harmony of Christian faith and reason. Believing that a wholesome spiritual development is inconsistent with a cultivation of "blind spots," we propose that a thinking Christian should read widely and write with comprehension of the background of his culture.

The instruction given in English has three objectives — two of them for every student who shall graduate from 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 a command of clear and effective English, spoken and written, in order that the student may assume a position of intelligent leadership in the American community. The second objective is the development of the habit of reading good literature with appreciation and enjoyment so that the student may have the power of thought which comes from a knowledge of the riches accumulated in the literature associated with his own language. The third objective, for the major in English, is a more specific study of skills, habits, and knowledge involved in the first two objectives and the pursuit of these studies to the point of at least a beginning mastery. The student majoring in English should be equipped to write effectively and imaginatively and should have a knowledge of the authors whose works illustrate the development of both the English and American language and literature.

Requirements for a major in English

English 113, 123, 213, 223.....	12 semester hours
English 313, 323, 333, 353, 363, 423, 433, 443, 453.....	9 semester hours
Other English electives, which may include 3 hours in Speech or Drama.....	9 semester hours

Requirements for a major in English

(with emphasis upon writing and the teaching of writing)

English 113, 123	6 semester hours
English 343, 363, 483.....	9 semester hours
English 213, 223; literature electives, 9 hours.....	15 semester hours

Requirements for a minor in English

English 113, 123, 213, 223.....	12 semester hours
Electives in English.....	6 semester hours

Requirements for a Minor in Speech

Speech 113	3 semester hours
Speech 123	3 semester hours
Speech 223	3 semester hours
Speech 323	3 semester hours
Speech 353	3 semester hours
Drama 213, 223, 233.....	3 semester hours

ENGLISH

English 110. **Remedial English.** This course is designed for students who have deficiencies in grammar, punctuation, and spelling, Grammar is emphasized. Short themes may be required. (Each semester)

No credit.

English 113. **Grammar and Composition.** The purpose of this course is to train students in writing and speaking clearly and effectively. The work includes exposition, argumentation, vocabulary, weekly themes, and the study of essays. One term paper is required. (Each semester)

3 semester hours.

English 123. **Composition and Literature.** This course, a continuation of 113, includes the study of description and narration. The short story and novel will be studied. One complete novel and many short stories are read. Themes and special reports are required. Prerequisite: English 113. (Each semester)

3 semester hours

English 213. **Survey Course in English Literature.** This survey gives the student a background for advanced work in English literature. The course includes the important works from the Anglo-Saxon period to the Romantic period. Prerequisites: 113 and 123. (Each Fall and first Summer term)

3 semester hours

English 223. **Survey Course in English Literature.** This course, a continuation of 213, includes the literary trends and movements and the representative works of English writers from the Romantic period through the nineteenth century. Reports and themes are required. Prerequisites: English 113 and 123. (Each Spring and second Summer term)

3 semester hours.

English 313. **American Literature.** A study is made of the background and national development of American literature. Emphasis is on the outstanding authors of each period and intense study of their representative works. The Colonial Age and period of the Republic through Poe and Longfellow are studied. Papers and reports are required. Prerequisites: English 113 and 123. (Fall, 1963)

3 semester hours)

English 323. **American Literature.** In this course the emphasis is on Whitman, Emily Dickinson, the novel and short story, and the essay through the nineteenth century. Prerequisites: English 113 and 123. (Spring, 1964)

3 semester hours.

English 333. **The Short Story.** This course includes the study of the development of the short story, the different types, the analysis of technique, the reading of many short stories, and experience in writing. Prerequisites: English 113, 123, and Junior standing. (Fall, 1962 and 1964)

3 semester hours.

English 343. **Advanced Composition.** This course includes daily practice in writing, extensive reading, and the analysis of selected library works. Prerequisites: English 113, 123, and Junior standing. (Spring, 1963)

3 semester hours

English 353. **Contemporary British and American Poetry.** The representative poets of the twentieth century are studied. The trends and influences are carefully considered. Emphasis is on such poets as Frost, Sandburg, T. S. Eliot, and the younger group of poets. Extensive reading and some writing are required. Prerequisites: English 213, 223. (Fall, 1962 and 1964)

3 semester hours

English 363. **Advanced Grammar.** This is a course for advanced students. The historical approach to English grammar will provide the background for the study, but the emphasis will be on syntax, form, and mechanics. Prerequisites: English 113, 123, Junior standing. (Fall, 1962)

3 semester hours

English 373. **English Literature of the Eighteenth Century.** This course will include selections by Defoe, Swift, Addison, Steele, Pope, Johnson, Thomson, Collins, Gray, Goldsmith, Burke, Paine, and others. The most important prose and poetry of the century will be examined. Prerequisites: English 213 and 223. (Spring, 1963)

3 semester hours.

English 383. **The Romantic Period in English Literature.** This course involves the study of much of the poetry and prose produced in England between 1798 and 1832. An attempt is made to arrive at a definition and understanding of romanticism. Prerequisites: English 213 and 223. Fall, 1963)

3 semester hours.

English 423. **The British Novel.** A study is made of the development of the British Novel. Representative novels are read and discussed. Prerequisites: English 213 and 223. (Spring, 1963)

3 semester hours.

English 433. **Shakespeare.** This course includes the study of important early plays with consideration of the types, sources, and Shakespeare's development as a dramatist. Prerequisites: English 213, 223, and Junior standing. (Fall, 1962 and 1964)

3 semester hours.

English 443. **Shakespeare.** This course, a continuation of 433, is an intensive study of the great tragedies and later comedies. Prerequisites: English 213, 223, and Junior standing. (Spring, 1963)

3 semester hours.

English 453. **Milton.** Consideration is given to Milton's prose work and to his short poems and a careful study of *Paradise Lost*. Influences and trends of the seventeenth century are emphasized. Term papers and required. Prerequisites: English 213, 223, and Junior standing. (Fall, 1962 and 1964)

3 semester hours.

English 463. **Poetry of the Victorian Period (Formerly Browning).** This course presents a comparative study of the significant poets and poetry of the period. Through reports, discussions, and special projects an attempt is made to interpret the temper and spirit of the age as well as the individuality and special merit of each author. Prerequisites: English 213, 223, and Junior standing. (Spring, 1962 and 1964)

3 semester hours.

English 483. **Seminar in Writing.** This course is planned for exceptional students who have shown ability in writing and are capable of doing independent research and composition. Prerequisites: English 113, 123, Junior standing and permission of the department. (Spring, 1962 and 1964)
3 semester hours.

SPEECH AND DRAMA

Speech 113. **Fundamentals of Speech.** This is a basic course and is the prerequisite of all courses in speech, drama, and radio. It emphasizes voice and diction, phonetics, and basic speech principles. (Each Fall)
3 semester hours.

Speech 123. **Introductory Public Speaking and Discussion.** The technique and practice of public discussion are stressed in this course as well as practice in various types of public speeches. Prerequisite: Speech 113. (Each Spring)
3 semester hours.

Speech 223. **Persuasive Speaking and Argumentation.** A study and practice in the recognition and use of various forms of persuasive speaking for informal and formal speeches with emphasis on argument, using proper issues, evidence, and other techniques. Prerequisite: Speech 113. (Fall, 1963 and 1964)
3 semester hours.

Speech 323. **Voice and Diction.** This course will include phonetics, principles of voice production, vocabulary building, and correction of weaknesses in voice production and enunciation. Prerequisite: Speech 113. (Spring 1963)
3 semester hours.

Speech 353. **Oral Interpretation of Literature.** This course provides for a study of the methods and techniques of interpretative oral reading of varied types of literature. Prerequisite: Speech 113. (Spring 1962)
3 semester hours

Drama 213. **Introduction to Drama.** This course presents the historical background and types of drama with reference to their theatric representation. Actual dramatic experience will be provided. Prerequisite: Speech 113. (Spring, 1963)
3 semester hours.

Drama 223. **Production and Performance.** A study of techniques and styles of acting and of organizational procedure and management of plays. Attention is given to character portrayal and play production. Laboratory work includes the presentation of a play. (Each Fall)
3 semester hours.

Drama 233. **Stagecraft.** This course is designed for instruction and practice in set construction, lighting, makeup, costuming, properties, and other specific duties of back stage production. (Each Spring)
3 semester hours.

The English Department suggests that a first minor in speech would be a desirable minor for students planning careers in the ministry, religious education, secondary education, law and social work.

LIBRARY SCIENCE

Library Science 233. **School Library Administration.** A basic course for elementary and secondary school librarians designed to enable students to deal with principles, attitudes, institutions, administrative and financial backgrounds, and fundamentals of methods of library organization and administration.

3 semester hours.

Library Science 243. **Cataloging and Classification.** The fundamentals and principles of descriptive and subject cataloging and the theory and practice of classification. Laboratory assignments emphasize the use of cataloging and classification tools, the use of subject headings, and the principles of alphabetizing and filing.

3 semester hours.

Library Science 253. **Reference Materials.** A study of basic reference books in general and special subject fields. Emphasis is placed on source materials needed to answer questions in secondary schools. The purpose of this course is the interpretation of the library's collection, the use of the bibliographic form, and an introduction to Government Publications.

3 semester hours.

Library Science 263. **Book Selection.** The art of selecting books as applied to elementary and secondary schools. Laboratory practices in study of standards, use of standard selection aids, writing annotations, preparing bibliographies, and extensive examination and reading of books.

3 semester hours.

Library Science 373. **Children's Literature and Story Telling.** The best selections of all types of child literature from outstanding authors are studied. Volumes of literature for children's libraries are considered. A handbook and anthology of children's literature are used as texts supplemented by library reading. Story-telling is emphasized. Prerequisites: English 213 and 223. (Fall)

Department of Foreign Languages

MR. GAVITT

It is the purpose of the Department of Foreign Languages to enlarge the student's horizons and to give him the language tools to actively develop new interests. It is the practice of the department to provide course material and methods of presentation oriented toward the principle that, ideally, there is no cleavage between the appreciation of other cultures and the ability to use reasonably well their spoken and written languages.

Credit for the first semester of a language is granted to students only upon the completion of the second semester's work.

In evaluating high school work in a language, two years may count as the equivalent of three semester hours. The head of the department may determine in which course students should begin their college language. If the student is ready for the first semester of second-year language, he will be required to take enough upper division courses to make a minimum of six hours. In either case, nine hours of college language are required.

Requirements for a minor in German

German 113, 123	6 semester hours
German 213, 223	6 semester hours

Requirements for a first minor in Spanish

Spanish 113, 123	6 semester hours
Spanish 213, 223	6 semester hours
Electives in Spanish	6 semester hours

GERMAN

German 113. **Elementary German.** Fundamentals of grammar and pronunciation, conversation and composition, and graded reading. (Fall).
3 semester hours.

German 123. **Elementary German.** A continuation of 113. Prerequisite: German 113. (Spring).
3 semester hours.

German 213. **Intermediate German.** Grammar review, conversation and composition, and reading of suitable texts. Prerequisite: German 123. (Fall).
3 semester hours.

German 223. **Intermediate German.** A continuation of 213. (Spring).
3 semester hours.

SPANISH

Spanish 113. **Elementary Spanish.** Fundamentals of grammar and pronunciation, conversation and composition, and graded reading. (Fall).
3 semester hours.

Spanish 123. **Elementary Spanish.** A continuation of Spanish 113. Prerequisite: Spanish 113 or two years of high school Spanish. (Spring).

3 semester hours.

Spanish 213. **Intermediate Spanish.** Grammar review, conversation and composition, and reading of suitable texts. Prerequisite: Spanish 123. (Fall).

3 semester hours.

Spanish 223. **Intermediate Spanish.** A continuation of Spanish 213. (Spring)

3 semester hours.

Spanish 313. **Survey of Spanish Literature.** Lectures, readings, and reports on authors and works dating from the beginning of Spanish literature through the 19th century. Prerequisite: Spanish 223. (Fall, 1963 and alternate years).

3 semester hours.

Spanish 323. **Survey of Hispanic-American Literature.** Lectures, readings from colonial times through the 19th century. Emphasis on national period. Spanish 313 is not a prerequisite. (Spring, 1964 and alternate years).

3 semester hours.

Spanish 333. **Spanish Conversation and Composition.** Ample use of every-day spoken Spanish and drill on idiomatic constructions. Material and **realia** related to Latin America and the Spanish peninsula. One session a week devoted to a variety of written forms, i.e., the business letter, the friendly letter, and translation into Spanish of contemporary quality writing. This course should follow immediately upon other course work in the language. Prerequisite: Spanish 223, or two years of college Spanish, or permission of the instructor. (Fall, 1962, and alternate years).

3 semester hours.

Spanish 343. **Spanish Conversation and Composition.** A continuation of Spanish 333. Prerequisite: Spanish 333 or permission of the instructor. (Spring, 1963, and alternate years).

3 semester hours.

Department of Health and Physical Education

MR. BRAZELL, MRS. BRAZELL

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 planned with the following aims: (1) to meet the state requirements of all elementary and high school teachers in this field; (2) to offer a varied program of physical activity which will contribute to the well-being of the students; and (3) to train men and women as physical education directors and coaches.

Upon written recommendation of a medical doctor and approval of the Dean and the Department of Physical Education, equivalent hours in physical education or health education may be substituted for required physical education activity courses. Normally, one of the following three hour courses would satisfy the requirement: Physical Education 213, 323, or 413; or Health Education 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 full ninety days of active service will be allowed. This credit is not granted automatically to veterans; they must comply with instructions of the Registrar's office to establish the credit.

No student who has received credit in physical education for military training will be allowed to receive credit for PE 101, 201, 131, 111, 231, or 241 unless he has a major or a minor in physical education.

Veterans may also receive credit, on the basis of military service, for the health education course required for graduation. This credit will be determined, on request of the student, by evaluation in the Dean's office of service or USAFI records in the same way that any transcript would be evaluated.

Requirements for a major in Physical Education

Physical Education 101, 111, 131,.....	} Any 4 semester hours
Physical Education 201, 231, 241.....	
Physical Education 222.....	2 semester hours
Physical Education 243.....	3 semester hours
Physical Education 213.....	3 semester hours
Physical Education 273.....	3 semester hours
Physical Education 413 or 323.....	3 semester hours
Physical Education 423.....	3 semester hours
Health Education 212	2 semester hours
Health Education 333.....	3 semester hours
Electives in Physical Education or Health Education.....	4 semester hours

Requirements for a minor in Physical Education

Physical Education 101, 111, 131.....	} Any 4 semester hours
Physical Education 201, 231, 241.....	
Physical Education 243.....	3 semester hours
Physical Education 273.....	3 semester hours
Physical Education 323 or 413.....	3 semester hours
Physical Education 423.....	3 semester hours
Health Education 212.....	2 semester hours
Health Education 333.....	3 semester hours

HEALTH EDUCATION

Health Ed. 212. **First Aid.** Treatment used for fractures, dislocations, wounds, hemorrhages, poisoning, drowning, bandaging, artificial respiration, etc. Two class meetings a week. (Fall). 2 semester hours.

Health Ed. 213. **Hygiene.** A study of despicable personal health habits with emphasis on the formation of the habits for one's better understanding of his place in our modern society. (Fall, 1963). 3 semester hours.

Health Ed. 333. **School and Community Health.** A practical course in school and community health, dealing with the applications of the findings of science and medicine to the improvement of daily living. Meets certification requirements. (Fall and Spring) 3 semester hours.

Health Ed. 423. **Safety Education.** An extensive survey of those areas where accidents are most prevalent: home, industry, school, highways, etc., with consideration of the causes and the prevention of accidents. Designed for administrators and teachers and set up as a training ground to develop safety consciousness. Prerequisite: Junior standing. (Fall, 1962) 3 semester hours.

PHYSICAL EDUCATION

The following courses are to be taken in the freshman and sophomore years to fulfill the Physical Education activity requirement for graduation. There is no prerequisite nor any particular order in which they need be taken. Separate classes for men and women meet twice weekly.

Physical Ed. 101. **Swimming.** Instruction and practice in the skills of swimming. Offered mostly in summer school at one of the city swimming pools.

Physical Ed. 111. **Tennis.** Instruction and practice in fundamentals of tennis.

Physical Ed. 131. **Team Sports.** Instruction and practice in softball, basketball and volleyball.

Physical Ed. 201. **Bowling.** Instruction and practice in the fundamentals of bowling. Offered each semester at a local bowling alley.

Physical Ed. 231. **Archery.** Instruction and practice in fundamentals of archery.

Physical Ed. 241. **Golf.** Instruction and practice in stance, grip, stroke, teeing of the ball, and use of different clubs.
(Fall and Spring) 1 semester hour each.

Physical Ed. 213. **Recreational Activities.** Games and contests for home, school, and community leisure time. (Fall) 3 semester hours.

Physical Ed. 222. **History of Physical Education.** A thorough foundation in the history of Physical Education, emphasizing leaders of the past and present. (Spring) 2 semester hours.

Physical Ed. 243. **Principles of Physical Education.** A study of the aims and objectives of physical education, the standards, ideals, principles and policies; the place of physical education in modern life. (Spring) 3 semester hours.

Physical Ed. 273. **Playground Administration.** A study of playground activities and their administration. (Fall) 3 semester hours.

Physical Ed. 323. **Physical Education for Elementary Grades.** A program of activities adapted to the school situation and to the individual needs of the child. Prerequisite: P.E. 243, or consent of instructor. (Spring) 3 semester hours.

Physical Ed. 333. **Athletic Coaching, Basketball.** A study of fundamentals, drill habits, team organization, offensive and defensive play, coaching philosophy. (Fall) 3 semester hours.

Physical Ed. 413. **Physical Education in Secondary School.** The purpose of the course is to prepare students who plan to teach Physical Education in high school to carry out the physical education program as required by the state at the high school level. The course includes both games and exercises. Required of all students who expect a certificate in Physical Education. Prerequisite: P.E. 243. (Fall) 3 semester hours.

Physical Ed. 423. **Organization and Administration of Health and Physical Education.** A course designed for majors in physical education. The course deals with the administration problems in a department of physical education in the city school system, rural district, elementary and high school, and colleges. Prerequisite: P.E. 243 and 413. (Spring) 3 semester hours.

Department of Music

DR. BAGG, MRS. PSALMONDS, MISS WELLER

Any student interested in music, even though not wishing to major in this department, may apply for voice, piano, or other subjects offered. Participation in all musical organizations is open to any student enrolled in the College.

Credit for one hour each semester is given for choir, orchestra, or band, but not more than four hours may be counted toward a degree.

Choirs

The Oratorio and Opera Society is an organization formed for the purpose of presenting oratorios and operas each season, rehearsing twice a week. *The Messiah* is presented in December and an opera or Oratorio in the spring. Membership is open to all students who qualify.

The Choralaires is an organization chosen from the Oratorio and Opera Society, which rehearses twice a week in addition and presents concerts throughout the year in high schools, churches, on the radio and television. The highlight of the year is the annual spring tour. The better choral works of both sacred and secular music are performed.

Student Recitals

At regular intervals informal and formal recitals are given. All applied music students are expected to perform in at least two recitals or workshops during each semester. All students who major in music are required to attend all student recitals.

A junior recital is required of every prospective graduate as prerequisite to senior work. Junior recitals are given in groups of two or three after completion of prerequisite technical examinations.

A senior recital, individually rendered, is required of every degree candidate in applied music. It must be completed not later than two weeks before commencement. A senior is one who is following the prescribed senior course having completed his senior prerequisites, and who gives evidence of being able to complete his course within the year. Application for senior recital must be made four months before graduation date.

Concert and Radio Work

Groups and individual performers are sent out upon request for church meetings and banquets. Programs are prepared for radio broadcasting, clubs, and various entertainments. Students shall consult with their applied music instructor before participating in any public performance.

Practice

To receive one hour of credit for piano, voice, or organ, the student is required to take one lesson each week and to practice a minimum of one

hour daily, six days each week. For two hours' credit both lesson time and practice time are doubled.

Voice students may divide the practice hour into two thirty-minute periods if so recommended by the voice instructor.

General Regulations

All applied music students are encouraged to take advantage of the opportunities offered in Phoenix to attend artist concerts and symphony concerts, and each student for credit is required to attend at least one such concert per semester in his chosen field.

Lessons missed because of the student's negligence will not be made up. Those missed because of illness, or because of the absence of the instructor will be made up at a time suitable to both. Students are expected to notify the instructor of planned absences at least four hours before the scheduled lessons.

Requirements for a major in Music, B.A. Degree

To major in music for the B.A. degree a student may choose between three fields of concentration:

1. Piano, with courses distributed as follows:

Piano	16 semester hours
Theory 114, 124, 214, 224.....	16 semester hours
History of Music.....	6 semester hours
Piano Ensemble.....	2 semester hours
Electives	2 semester hours
Total	42 semester hours

2. Voice, with courses distributed as follows:

Voice	16 semester hours
Theory 114, 124, 214, 224.....	16 semester hours
History of Music.....	6 semester hours
Piano (may be waived by passing proficiency test), or electives	4 semester hours
Total.....	42 semester hours

3. Music Theory

Theory 114, 124, 214, 224.....	16 semester hours
History of Music.....	6 semester hours
Applied Music (at least 4 in piano).....	8 semester hours
Advanced courses	6 semester hours
Electives	6 semester hours
Total.....	42 semester hours

Requirements for a major in Music Education

(B.S. Degree)

(With Secondary Certificate Requirements)

Certification for Music in Grades 1-12

(Six Hours Graduate Study Required to Teach in High School)

Applied Music	12 semester hours
(1) Voice Major:	
Voice	8 semester hours
Piano	4 semester hours
(2) Piano Major:	
Piano	8 semester hours
Voice	4 semester hours
Music Ed. (Methods) 333, 413.....	6 semester hours
Survey of Orchestral Instruments 212.....	6 semester hours
Music 114, 124, 214, 224, 323, Theory.....	19 semester hours
Music 333, 343 History of Music.....	5 semester hours
Music 373, Conducting.....	3 semester hours
Choir	4 semester hours
Electives	1 semester hour

Requirements for a minor in Music Education

Applied music (Piano 2, Voice 2).....	4 semester hours
Theory	4 semester hours
Conducting	3 semester hours
Choir	2 semester hours
Music Education	3 semester hours
Music Appreciation	2 semester hours

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Since a minor teaching field of at least eighteen hours is required of prospective secondary school teachers, it is recommended that students in this program select an English or Social Studies minor.

ENSEMBLE MUSIC

- Music 101a-b Bd. **Band.** Open to all qualified students.
 Music 201a-b Bd. **Band.** Open to all qualified students.
 Music 101a-b Or. **Orchestra.** Open to all qualified students.
 Music 201a-b Or. **Orchestra.** Open to all qualified students.

Credit for one hour each semester is given for Choralaires, Oratorio and Opera Society; but not more than four hours may be counted toward a degree.

Music 111, 121, 211, 221 C. M. Choral Music, Oratorio and Opera Society. Choralaires, (selected from above by audition).

THEORY

Music 112. **Fundamentals of Music.** A course designed to give a thorough elementary understanding of notation, general terms, and the

basic elements of music; harmony, melody, and rhythm. For non-music majors. No credit for music majors. No prerequisite.

2 semester hours.

Music 114. **Theory of Music.** An integrated course in musicianship, including ear training, sight-singing, dictation, written and keyboard harmony. Study of the structure of music to develop skill in creative expression, as well as skill in analyzing and understanding music being studied and performed. Designed for music majors and minors. Prerequisite: Knowledge of basic elements of music. Three hours class work, and two hours of lab. (Every Fall).

3 semester hours.

Music 124. **Theory of Music.** A continuation of Music 114. (Every Spring).

4 semester hours.

Music 214. **Theory of Music.** Advanced study in part-writing, including chromatic and other non-harmonic tones, further study in sightsinging, dictation, and keyboard application of theoretical materials. Prerequisite: Music 214, or the equivalent. Three hours of class work and two hours of lab. (Every Fall).

4 semester hours.

Music 224. **Theory of Music.** A continuation of Music 214. (Every Spring).

4 semester hours.

Music 313. **Counterpoint.** A practical study of sixteenth century counterpoint in its various species in two to four part writing. Prerequisite: Music 224. (Fall, 1961 and alternate years).

3 semester hours.

Music 323. **Form and Analysis.** A study of the structure of music; motif and phrase, lied, rondo, variation, sonata, and programmatic forms. Prerequisite: Music 224. (Spring, 1962 and alternate years).

3 semester hours.

PIANO

Music 111P; 121P. **Class Piano.** Class instruction in elementary piano for students with no previous training. Adult preparatory books such as Oxford, and John Thompson, are used. (Fall and Spring).

1 semester hour each.

Music 131P, 132P; 141P, 142P. **Piano—Private Instruction.** Major and minor scales in octaves; broken chord exercises. Czerny, selected studies; or Bertini, Studies, Mozart or Haydn, easier Sonatas, Bach Two Part Inventions.

1 or 2 semester hours each.

Music 231P, 232P; 241P, 242P. **Piano—Private Instruction.** Major and minor scales in faster tempo and in thirds, sixths, and tenths; arpeggios in sevenths. Czerny, School of Velocity, Opus 299. Bach, Three Part Inventions. Mozart, Sonatas; Compositions by Chopin, Debussy, etc. Prerequisite: Music 141P or equivalent.

1 or 2 semester hours each.

Music 311P, 312P; 321P, 322P. **Piano—Private Instruction.** Czerny, Opus 740. Bach Three Part Inventions. Beethoven, Sonatas. Chopin, Nocturnes, Etudes, Scherzos. Classic, romantic, and modern selections. Preparation for junior recital. Prerequisite: Music 241P or equivalent.

1 or 2 semester hours each.

Music 411P, 412P; 421P, 422P. **Piano—Private Instruction.** Clementi, Gradus ad Parnassum. Bach, Well-Tempered Clavichord. Chopin, Etudes. Beethoven sonatas of greater difficulty. Classic, romantic, and modern pieces. Preparation for senior recital. Prerequisite: Music 321P.

1 or 2 semester hours each.

ORGAN

Students must have completed approximately six years of piano study or its equivalent. This includes a knowledge of the major and minor scales, Bach Invention, easier sonatas of Mozart and Beethoven, and compositions by romantic and modern composers. (Exceptions may be made by the instructor.)

Music 111 O; 121 O. **Class Organ.** Class instruction in elementary organ for students with no previous training.

1 semester hour each.

Music 131 O, 132 O; 141 O, 142 O. **Organ—Private Instruction.** The first semester is given to the study of organ methods of Clarence Dickinson, pedal studies, and hymn playing. Suggested repertoire includes Eight Short Preludes and Fugues and other works by Bach, Old Masters of the Organ by Bonnet, and works by Mendelssohn and Dupre.

1 or 2 semester hours each.

Music 231 O, 232 O; 241 O, 242 O. **Organ—Private Instruction.** Advanced pedal studies and service playing including transcription of piano music to organ. Suggested repertoire includes works by Bonnet, and Franck. Bach's Fantasia and Fugue in C Minor, Toccata and Fugue in D Minor, Prelude in E Minor, Prelude and Fugue in C Major.

1 or 2 semester hours each.

Music 311 O, 312 O; 321 O, 322 O. **Organ—Private Instruction.** Continued study of Bach, Preludes and Fugues in A Major, F Minor, A Minor, G Major, D Major, and Choral Preludes. Choral Preludes—Brahms, Fantasie in C Major, Pastoral, Piece Heroique-Franck. Accompaniment of soli, cantatas, etc. A junior recital.

1 or 2 semester hours each.

Music 411 O, 412 O; 421 O, 422 O. **Organ—Private Instruction.** Toccata, Adagio, and Fugue in C, Prelude and Fugue in E Flat, and Passacaglia by Bach. Brahms, Mendelssohn, Reubke, Vierne, and modern composers. A senior recital is required.

1 or 2 semester hours each.

VOICE

Music 111V; 121V. **Class Voice.** Principles of breathing and breath control. A study of vowels and fundamental essentials to tone production. Elementary songs. (Fall and Spring).

1 semester hour each.

Music 131V, 132V; 141V, 142V. **Voice—Private Instruction.** Fundamentals of voice production, principles of breathing, breath control, a study of vowels and essentials of tone production. Simple songs.

1 or 2 semester hours each.

Music 231V, 232V; 241V, 242V. **Voice—Private Instruction.** More advanced technique. Studies in diatonic and chromatic scales, legato, staccato, phrasing and tone color, with emphasis on diction and interpretation. Prerequisite: Music 141V or equivalent.

1 or 2 semester hours each.

Music 311V, 312V; 321V, 322V. **Voice—Private Instruction.** Fundamentals of style and expression, continued emphasis on tone production. Increased study of songs. Preparation for junior recital. Prerequisite: Music 241V or equivalent.

1 or 2 semester hours each.

Music 411V, 412V; 421V, 422V. **Voice—Private Instruction.** Recapitulation of the work of the preceding years together with the study of more difficult songs and modern song literature. Preparation for senior recital. Prerequisite: Music 321V or equivalent.

1 or 2 semester hours each.

HISTORY, APPRECIATION, AND CONDUCTING

Music 252. **Appreciation of Music.** A course designed to contribute to intellectual, emotional, and aesthetic understanding of music as expression, as a science, and as an art closely akin to all other fine arts. Listening to great works of music and developing some insight into music's inner workings are integral phases, that the student may develop a discriminating and intelligent appreciation of the best in music. Required for graduation of all students except music majors. (Each semester).

2 semester hours

Music 333. **History of Music.** This course is a survey of music from primitive times to the middle of the 18th 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. (Fall, 1960)

3 semester hours.

Music 343. **History of Music.** A continuation of Music 333 from the 18th century to modern days. The art song. The nationalist schools. The principal composers of the classical, romantic and modern periods, together with masterpieces of these periods, will be presented and discussed. (Spring, 1961)

3 semester hours.

Music 373. **Choral Conducting.** The fundamentals and techniques of conducting hymns, anthems, and other choral music are studied. Problems of directing vocal groups are discussed. Special emphasis on interpretation. Baton technique is studied. Prerequisite: Junior standing or consent of instructor. (1961 and alternate years).

3 semester hours.

Music 383. **Advanced Conducting.** A continuation of Music 373 with emphasis on choral and instrumental literature. Emphasis on score read-

ing, artistic interpretation, and conducting of marches, overtures, symphonies, etc. Prerequisite: Music 373. (1961 and alternate years).

3 semester hours.

Music 423. **Music Literature.** A survey of music literature including masterworks of chamber music, symphony, concerto, choral, and opera, with emphasis on style and aesthetics. Prerequisites: Music 333, 343. (Spring, 1961 and alternate years)

MUSIC EDUCATION

Music Education 202. **Survey of Orchestral Instruments.** The care and problems of each instrument are studied. (Spring, 1964)

2 semester hours.

Music Education 333. **Music in the Elementary Grades.** 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. (Spring, 1963)

2 semester hours.

Music Education 413. **Music in the Junior and Senior High Schools.** Methods for developing and conducting the music program in junior and senior high school, including the organization of choruses and glee club; classification of voices; music appreciation; selection of music material, etc. Prerequisite: Music 112, or consent of instructor. (Fall, 1962)

3 semester hours.

Department of Religion

DR. PUCKETT, DR. PSALMONDS, DR. McNETT

Most of the courses in this department are basic courses designed for all college students. They are not professional courses for ministerial students to take the place of studies in a theological seminary or a divinity school. If ministerial students are fairly certain that they will continue their studies in a seminary, it is suggested that they major in such areas as English, history, social studies, or sociology. The courses in this division are intended to give the students an understanding and appreciation of the Bible, to arouse in students a desire for Christian usefulness, and to equip them for leadership in the various activities of the churches.

Requirements for a major in Bible*

Bible 113, 123.....	6 semester hours
Bible 273†.....	3 semester hours
Bible 283†.....	3 semester hours
Bible 373.....	3 semester hours
Electives in Bible.....	15 semester hours

* There may be electives of 6 hours in Religious Education.

† Non-ministerial Bible majors may be allowed to substitute other non-required Bible courses or Rel. Ed. 113 and 123 for Bible 273 and Bible 283.

Requirements for a minor in Bible

Bible 113, 123.....	6 semester hours
Electives in Bible.....	12 semester hours

Requirements for a major in Religion

Bible 113, 123.....	6 semester hours
Rel. Ed. 113, 123, 143.....	6 semester hours
Rel. Ed. 463.....	3 semester hours
Bible 373.....	3 semester hours
Electives in Bible and/or Religious Education.....	12 semester hours

Requirements for a minor in Religion

Bible 113, 123.....	6 semester hours
Rel. Ed. 113, 123, 143.....	6 semester hours
Electives in Bible and/or Religious Education.....	6 semester hours

Requirements for a minor in Religious Education

Rel. Ed. 113, 123, 143.....	6 semester hours
Rel. Ed. 223.....	3 semester hours
Electives in Religious Education.....	9 semester hours

BIBLE

Bible 113. Old Testament History. An introduction to the Old Testament and a survey of the historical literature. Attention will be given to the

institutions, religion, and national life of the Hebrew people. Required for graduation. (Each semester) 3 semester hours.

Bible 123. **New Testament History.** A general survey of the New Testament, beginning with the inter-Biblical period, with the main emphasis given to the Gospels and Acts. Required for graduation. (Each semester) 3 semester hours.

Bible 273. **Pastoral Duties.** This will be a study of practical duties and problems of the modern pastor, translating New Testament principles into present day practice. Such matters will be studied as ordination, baptism, Lord's Supper, marriages, and funerals. Prerequisites: Bible 113, 123. (Fall) 3 semester hours.

Bible 283. **Homiletics.** A study in the art of preparing and delivering sermons. There will be some actual practice in the delivery of sermons. Some attention will be given to the building and use of a personal library. Prerequisites: Bible 113, 123. (Spring) 3 semester hours.

Bible 323. **Evangelism.** A study of the principles, message, and methods of evangelism. The principles of the Bible will be applied to all types of evangelism, including personal, church and mass evangelism. Each student is expected to do personal work as a part of this course. Prerequisites: Bible 113, 123. (Spring, 1963). 3 semester hours.

Bible 333. **Old Testament Prophets.** A study of the occasion, content and interpretation of the writing prophets of the Old Testament, with special emphasis on the Messianic element. Prerequisites: Bible 113, 123. (Fall, 1963). 3 semester hours.

Bible 343. **Life and Writings of John.** A study of the life and times of John, the beloved apostle, followed by an analysis of The Fourth Gospel, the Johannine Epistles, and the Revelation; these will be treated as to sources, authorship, date, vocabulary, form and content. Prerequisites: Bible 113, 123. (Spring, 1964). 3 semester hours.

Bible 353. **Old Testament Poetry.** A study of the poetical books of the Old Testament, with reference to their literary style, occasion, and interpretation. Prerequisites: Bible 113, 123. (Fall, 1962). 3 semester hours.

Bible 373. **Christian Doctrines.** A systematic study of the great doctrines of the Bible, with special attention given to the doctrines and practices of Baptists. Prerequisites: Bible 113, 123. (Fall) 3 semester hours.

Bible 423. **General Epistles.** This study will deal with the historical background, authorship, and exegetical analysis of the General Epistles (James; I and II Peter; I, II and III John; Jude; and Hebrews). Prerequisites: Bible 113, 123. (Spring, 1963). 3 semester hours.

Bible 433. **Life and Teachings of Christ.** A careful study of the life of Jesus with special emphasis on His person, teachings, and work. Prerequisites: Bible 113, 123. (Fall) 3 semester hours.

Bible 443. **Life and Letters of Paul.** A study of the life and times of the apostle Paul with an interpretation of his epistles based upon their historical setting. Prerequisites: Bible 113, 123. (Spring, 1963). 3 semester hours

Bible 463. **Biblical Backgrounds.** A geographical and archaeological survey of Palestine and surrounding countries including the important political, social, and religious customs and conditions pertaining to Biblical history. Prerequisites: Bible 113, 123. (Spring, 1964). 3 semester hours.

NEW TESTAMENT GREEK

The courses listed below are designed first, to confer an early mastery of the essentials of inflection and syntax; second, to resolve the principal difficulties of grammatical analysis; and third, to develop in the student a vigorous and independent interest in the Greek New Testament. Fourteen hours of Greek (two years) will meet the language requirement for the Bachelor of Arts or Bachelor of Science degree.

Greek 274. **Beginner's Greek.** This course is designed for those who are taking the study of Greek for the first time and others whose preparation does not fit them for entering an advanced class in Greek. It aims to give the fundamentals necessary to the study of the Greek New Testament. This course meets an hour each day, four days a week. Sophomore standing or individual approval is necessary before enrollment in this course. (Fall) 4 semester hours.

Greek 284. **Beginner's Greek.** This course is a continuation of Greek 274. A study of Davis' Grammar will be completed with simple exercises for reading and translation. Special stress will be laid upon the meaning of the cases, the prepositions, and the tenses. This course will meet an hour each day, four days a week. Prerequisite: Greek 274 or its equivalent. (Spring) 4 semester hours.

Greek 373. **Advanced Greek Grammar.** For second year students of the Greek New Testament. There will be review of forms, syntax, and prose composition. The student is required to translate the First Epistle of John and is given with each lesson demonstration of the significance of verb forms as vital to accurate translation. Prerequisites: Greek 274 and 284, or their equivalent. (Fall) 3 semester hours.

Greek 383. **Advanced Greek Grammar.** A continuation of 373. The second half of the course will include 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: Greek 373. (Spring) 3 semester hours.

RELIGIOUS EDUCATION

Rel. Ed. 113. **A Survey of Religious Education.** An introductory and survey study of religious education, with emphasis upon the history, philosophy, objectives, techniques, and administration of the educational program of the local church. Some consideration is given to the means of organized cooperation between churches. (Fall)

3 semester hours.

Rel. Ed. 123. **Church Activities.** A study of the effective use of non-organizational activities of the church, such as expansion of membership and buildings, finance, recreation, evangelism, worship, teaching aids, and publicity. (Spring, 1964).

3 semester hours.

Rel. Ed. 143. **Church Organizations and Officers.** A study of the organizational structure for religious education within the local church, particularly with reference to the Southern Baptist Convention. The major organizations, officers, and committees are studied from a functional point of view. (Spring, 1963).

3 semester hours.

Rel. Ed. 223. **Christian Leadership.** A study of leadership, including principles, techniques, personal characteristics, problems and pitfalls, enlistment, and training. (Fall, 1963).

3 semester hours.

Rel. Ed. 253. **Christian History.** A survey of the growth of Christianity from the New Testament period to the present. An effort is made to understand modern Christianity in the light of its historical development. (Fall, 1963).

3 semester hours.

Rel. Ed. 313. **Baptist History.** A study of the history of Baptists up to the present. An outline of Baptist principles, based on the Bible, is studied; and a history of persons holding these principles is traced to our present day. (Fall, 1962).

3 semester hours.

Rel. Ed. 333. **Psychology of Religion.** A study of the psychology of religious experience, with special attention given to conversion, integration of personality, moral guilt, behavior, worship, prayer, and healing. Prerequisite: Psychology 213. (Fall, 1962).

3 semester hours.

Rel. Ed. 363. **Audio-Visual Aids.** See Education 363 in Department of Education. Credit may be taken in either department. (Spring)

3 semester hours.

Rel. Ed. 463. **Comparative Religions.** A study of the great representative religions of the world, both ancient and contemporary; and a study of the various religious sects in America. (Spring, 1964).

3 semester hours.

Department of Science

MR. WANG, MR. MANN, MR. YOUNGS

BIOLOGY

The courses in biology are offered for the purpose of general culture as well as to lay proper foundations for those desiring to specialize in scientific work, in medicine, or agriculture.

Requirements for a major in Biology

Biology 114a and b.....	8 semester hours
Biology 124a and b.....	8 semester hours
Electives in Biology.....	14 semester hours

Requirement for a minor in Biology

Biology 114a and b, or Biology 124a and b.....	8 semester hours
Electives in Biology.....	10 semester hours

Biology 114a-114b. **General Botany.** The student is introduced to the basic principles of the science of living matter through a study of the functions of common plants. The laboratory work includes the use of the microscope, preparation of slides, and experiments illustrating plant phenomena. Life cycles of representative species are studied.

4 semester hours each

Biology 124a-124b. **General Zoology.** Basic principles of living matter are emphasized through study of the animal kingdom. Dissections are made of representative specimens.

4 semester hours each

Biology 134. **General Biology.** A study of plants and animals for the understanding of living things, the relationship to one another and importance to man. (Every year)

4 semester hours.

Biology 314. **Entomology.** Study of life histories, taxonomic work, methods of study, collecting and preserving insects. Students are required to prepare a representative collection. Prerequisite: Biology 124a. (Fall)

4 semester hours.

Biology 323. **Genetics and Eugenics.** Principles and facts of heredity developed from plants and animals. Principles of race improvement. Prerequisite: Biology 114a and b or 124a and b. (Spring)

3 semester hours.

Biology 324. **Systematic Botany.** The principles of taxonomy are studied with reference to local flora. Specimens are keyed and added to the Department Herbarium. Prerequisite: Biology 114a and b. (Spring)

4 semester hours.

Biology 334. **Microbiology.** (Formerly **Bacteriology.**) Introduction to the principles and applications of Microbiology with a study of general char-

acteristics of microorganisms and their relation to man. Prerequisites: Biology 114b and 124a. (Spring)

4 semester hours.

Biology 344. **Introduction to Embryology.** An elementary course based on the embryology of the chick, but with some work on a few other animal stages. Prerequisite: Biology 124a, 124b. (Fall)

4 semester hours.

CHEMISTRY

Chemistry 114, 124. **General Chemistry.** Fundamental principles of chemistry and its application to daily life. Designed for both students of general education and students preparing for professions of agriculture, medicine, science teaching, engineering, nursing, home economics, and others. Prerequisite: High School Algebra.

4 semester hours each.

Chemistry 324. **Organic Chemistry, Short Course.** This course does not treat the subject of organic chemistry in a systematic way as a year's course in General Organic Chemistry does, but is a simple presentation of its practical application. Basic principles will be stressed, so that the course will not only equip students with some general concepts of Organic Chemistry; but it will also meet the requirements for pre-agricultural, pre-nursing, lab technician, home economics, and industrial arts courses. Prerequisite: Chemistry 124. (Each year)

4 semester hours.

MATHEMATICS

Students who do not have $1\frac{1}{2}$ credits in high school algebra should take Mathematics 114. Students who have $1\frac{1}{2}$ credits in high school algebra and $\frac{1}{2}$ credit in high school trigonometry should take Mathematics 133 and Mathematics 213. Students who have $1\frac{1}{2}$ credits in high school algebra but none in trigonometry should take Mathematics 133 and Mathematics 143. This applies to majors and minors in the department as well as students taking mathematics to fulfill the general requirements for a degree.

Requirements for a major in Mathematics

Mathematics 114*	4 semester hours
Mathematics 133	3 semester hours
Mathematics 143†	3 semester hours
Mathematics 213	3 semester hours
Mathematics 233	3 semester hours
Mathematics 243	3 semester hours
Upper division courses	12 or 15 semester hours

Requirements for a minor in Mathematics

Mathematics 114*	4 semester hours
Mathematics 133	3 semester hours
Mathematics 143†	3 semester hours

Mathematics 213.....	3 semester hours
Mathematics 233.....	3 semester hours
Mathematics 243.....	3 semester hours
Upper division courses.....	6 semester hours

* Not to be taken if $1\frac{1}{2}$ credits in high school algebra are offered for entrance.

† Not to be repeated if taken for credit in high school.

Mathematics 110. **Remedial Mathematics.** For those students who have inadequate high school mathematical background. (Every Spring)

No credit.

Mathematics 114. **Introduction to College Mathematics.** This course will be concerned with the development of mathematical ideas and processes of college mathematics. The functional aspects of most of the branches of mathematics will be covered. (Each semester)

4 semester hours.

Mathematics 133. **College Algebra.** A study is made of binomials, complex numbers, and theory of equations. (Every year)

3 semester hours.

Mathematics 143. **Plane Trigonometry.** This course includes the construction and measurement of angles, definition of trigonometric functions, inverse functions, and the solution of triangles. (Every year)

3 semester hours.

Mathematics 211. **Slide Rule.** The use of slide rule in solving more complicated numerical problems. (Every year)

1 semester hour.

Mathematics 213. **Analytic Geometry.** This is an introductory course which presents a study of graphs, curves, straight lines, conic sections, and equations of the second degree. Prerequisite: Mathematics 133. (Every year)

3 semester hours.

Mathematics 233. **Differential Calculus.** This study covers the method of differentiation. Parallel or Prerequisite: Mathematics 213. (Every year)

3 semester hours.

Mathematics 243. **Integral Calculus.** This study covers methods of integration, definite integrals, multiple integrals, and the applications. Prerequisite: Mathematics 233. (Every year)

3 semester hours.

Mathematics 253. **College Geometry.** A course in the technique of construction and procedure of proofs of common geometric figures, particularly adapted to the needs of future high school mathematics teachers.

3 semester hours.

Mathematics 313. **Theory of Equations.** This course includes the solutions of the cubic and quartic equations, the solution of numerical equations, use of determinants, and a study of symmetric functions. Prerequisite: Mathematics 213. (Fall)

3 semester hours.

Mathematics 323. Differential Equations. This study includes the methods of solution of ordinary differential equations and their application to geometry, mechanics, and physics. Prerequisite: Mathematics 243. (Fall)

3 semester hours.

Mathematics 333. Analytic Geometry of Space. This course includes a study of planes and lines, transformation of coordinates, types of surfaces, the sphere, and quadric surfaces. Prerequisite: Mathematics 243. (Spring)

3 semester hours.

Mathematics 363. Introduction to Probability and Statistics. Elementary theories of probability, distribution, and testing of statistical hypotheses. Prerequisite: Mathematics 133.

3 semester hours.

Mathematics 383: Mathematics for Teachers. A study of selected phases of mathematics for secondary schools and of the various techniques and methods employed in teaching courses in mathematics. Prerequisite: Mathematics 243.

3 semester hours

Mathematics 423: Introduction to Modern Algebra. This course is designed to acquaint students with the fundamental concepts of logical reasoning and logical structure as employed in mathematics rather than its formal techniques. Some elementary theories of sets, fields, vector spaces, matrices and probability will be introduced. It would be beneficial to all liberal arts students as well as to prospective teachers of mathematics. Prerequisite: Mathematics 213.

3 semester hours

PHYSICS

Physics 134. Introduction to the Physical Sciences. A survey of the fundamentals of physics, geology, chemistry, and astronomy and their applications to everyday life. (Each semester)

4 semester hours.

Physics 203. Introduction to Astronomy. A general introductory non-technical course in Astronomy. A study of the history of astronomy, the solar system, stars, constellations, and galaxies for the appreciation and understanding of the natural laws of the universe. Prerequisite: Physics 134 or equivalent.

3 semester hours.

Physics 214. General Physics. This course treats the basic principles of general physics including a study of mechanics, heat, and sound. Prerequisites: Mathematics 133, 143, or consent of instructor. (Each Fall)

4 semester hours.

Physics 224. General Physics. This is a continuation of Physics 214 and includes a study of magnetism, electricity, and light. Prerequisite: Physics 214. (Each Spring)

4 semester hours.

Department of Social Studies

MISS McINTOSH, MISS MABEN

History, Political Science, and Sociology are inseparably connected. History is largely the record of the social and political changes and conditions of man. The chief problems before man today, as in all the past, are economic and social. These make up the leading political questions. Therefore every citizen, to vote, talk, or act intelligently, must know something of the great underlying principles of these subjects. This is the purpose of all the courses in this department.

Requirements for a major in History

History 113, 123.....	6 semester hours
History 213, 223.....	6 semester hours
History 403	3 semester hours
Electives in History.....	15 semester hours

Requirements for a minor in History

History 113, 123.....	6 semester hours
History 213, 223.....	6 semester hours
Electives in History.....	6 semester hours

Requirements for a major in Sociology

Sociology 213, 223	6 semester hours
Sociology 303.....	3 semester hours
Sociology 333, 343	6 semester hours
Sociology 353	3 semester hours
Sociology 403	3 semester hours
Sociology 423, 433	6 semester hours
Electives: Economics 213, 223; Government 333, 343; Psychology 382; Religious Education 333.....	3 semester hours

Requirements for a minor in Sociology

Sociology 213, 223.....	6 semester hours
Electives in Sociology.....	12 semester hours

Requirements for a major in Social Studies

History 113, 123, or History 213, 223.....	6 semester hours
Sociology 213, 223.....	6 semester hours
Government 213, 223.....	6 semester hours
Economics 213	3 semester hours
Govt., History, or Sociology 403.....	3 semester hours
Electives in Social Studies.....	9 semester hours

Requirements for a minor in Social Studies

History 113, 123, or History 213, 223.....	6 semester hours
Sociology 213	3 semester hours

*Government 213, 223.....	6 semester hours
Electives in Social Studies.....	6 semester hours
*Students in teacher-training programs may substitute Govt. 303.	

Requirement for a minor in Government

Government 213, 223.....	6 semester hours
Electives in Government.....	12 semester hours

GOVERNMENT

Government 213. **Federal Government.** An intensive study of the Federal Government of the United States. The purpose of this course is to furnish a guide to American citizenship, as well as to furnish a manual for the various phases of the constitutional system of the United States. Prerequisite: Sophomore standing. (Fall)

3 semester hours.

Government 223. **State Government.** The purpose of this course is to give an intensive study of the state and local government of all 50 states, but emphasis will be placed on all important phases of state and local government as it applies to Arizona. Prerequisite: Sophomore standing. (Spring)

3 semester hours.

Government 303 a-b. **National and Arizona Constitutions.** This course meets the requirement for teacher certification and either half may be taken for 1½ semester hours of credit. This course will not fulfill the requirement for majors or minors in the Department of Social Studies except for students in the teacher-training program who minor in Social Studies.

3 semester hours.

Government 313. **Comparative Government.** A comparative study of the organization and operation of selected governments in the world today, with special emphasis on the Soviet Union, England, France, and the United States. Prerequisite: 6 hours of History or Government. (Fall, 1963, and alternate years).

3 semester hours.

Government 323. **International Relations.** History of international politics, contemporary world power structure, international law and organization. Prerequisite: 6 hours of History or Government. Credit may be applied toward majors and minors in either History or Social Studies. (Fall, 1963, and alternate years).

3 semester hours.

Government 333. **Political Thought.** Evolution of European and American political doctrines, with emphasis upon 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. Credit may be applied to majors and minors in any division of the Social Studies Department. (Fall).

3 semester hours.

Government 343. **Contemporary Political Thought.** A continuation of Government 333, dealing with the men and ideas which have affected government in the 19th and 20th centuries. Special attention is given to American political thought and the study of socialism, communism and facism in the modern world. Prerequisite: Government 333, or sufficient work in history or philosophy to provide an adequate background. Credit may be applied to majors and minors in any division of the Social Studies Department. (Spring)

3 semester hours.

Government 403. **Research Methods in Government.** Location and use of research materials; techniques of organization, analysis, and interpretation; and the writing of a scholarly paper. Prerequisite: 12 hours of Government. (Spring).

3 semester hours.

HISTORY

History 113. **European Civilization.** The course includes the period from the fall of the Roman Empire until 1660. (Fall).

3 semester hours.

History 123. **European Civilization.** Includes the period from the age of Louis XIV to the present. (Spring).

3 semester hours.

History 213. **American History, the Colonial and Early National Period.** European expansion in America, the English colonies, colonial institutions, the American Revolution and Constitution, launching the new government, nationalism and sectionalism, westward expansion, slavery, and the Civil War. (Fall)

3 semester hours.

History 223 **American History, the Recent Period.** A continuation of History 213 dealing with the problems in the wake of the Civil War, post-war expansion, the Industrial Revolution in America, transition to a world power, domestic and foreign issues of the twentieth century. (Spring)

3 semester hours.

History 313. **History of England to 1702.** A study of the origin and the development of the English people; their political, social, economic, and cultural institutions. Prerequisite: History 113 and 123. (Fall)

3 semester hours.

History 323. **British Empire and Commonwealth.** A continuation of History 313, with special emphasis upon Great Britain as an empire and commonwealth. Prerequisite: History 113 and 123 (Spring)

3 semester hours.

History 333. **The Renaissance and Reformation.** A study of European intellectual, economic, and religious developments marking the beginning of the modern era; humanism and the rediscovery of classical civilization; the rise of literature and art; Martin Luther and the revolt from Rome; Zwingli, Calvin, Knox, and others; Papacy and Empire; the Counter-Reformation. Prerequisite: History 113. (Fall, 1963, and alternate years)

3 semester hours.

History 343. **The French Revolution.** A study of the Old Regime, the influence of the Philosophers, the Estates General, the National Constituent Assembly, the attempts of France to establish a stable government during the 1790's, the Reign of Terror, Robespierre and other leaders; the rise of Napoleon Bonaparte, the foreign wars, the Empire and the reorganization of Europe; and the Congress of Vienna. Prerequisites: History 113 and 123. (Spring, 1964, and alternate years).

3 semester hours.

History 353. **Economic History of the United States.** The progress of the nation in agriculture, manufacturing, commerce, transportation, money and banking, labor organization, and labor legislation. Prerequisite: Economics 213, History 213, 223.

3 semester hours.

History 373. **History of Latin America.** A study of the conquest and development of Central and South America by the Spanish and 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, 1964, and alternate years).

3 semester hours.

History 403. **Research Methods in History.** Location and use of research materials; techniques of organization, analysis, and interpretation; and the writing of a scholarly paper. Prerequisite: 12 hours of history. (Spring).

3 semester hours.

History 412. **Readings in American History.** A study of some of the outstanding works in American historical literature, intended to acquaint students with the leading American historians and their contributions, and to stimulate interest in the finest traditions of historical scholarship. Prerequisite: History 213 and 233. (Fall, 1962, and alternate years).

2 semester hours.

History 413. **Russia and the Near East.** Story of the Russian peoples and their rulers from the earliest times to the present; 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. Prerequisite: History 113, 123. (Fall, 1963, and alternate years).

3 semester hours.

History 432. **Reading in European History.** A study of some of the outstanding works in European historical literature to acquaint students with those historians and their words which have shaped and interpreted men's knowledge of the past. Prerequisite: History 113 and 123. (Spring, 1963, and alternate years).

2 semester hours.

History 433. **Nineteenth Century Europe.** From the legacy of the French Revolution to World War I. The new technology, its impetus to the class struggle within nations, and to international tensions between nations as

imperialism is extended; revolutionary labor movements; the impact of western civilization on the "backward" nations. Prerequisites: History 113 and 123. (Fall, 1962, and alternate years).

3 semester hours.

History 443. **Twentieth Century Europe.** This course treats World War I and its aftermath in Europe; the peace treaties; interdependence of political and economic factors in the twenty years following, which contributed to the renewal of war; developments of World War II; the United Nations and contemporary efforts to establish peace. Prerequisites: History 113 and 123. (Spring, 1963, and alternate years).

3 semester hours.

History 452. **American Biography.** A study of the outstanding persons in American history, their times, their character and personalities, their achievements, their failures, and the impact they have had upon the America of their day and ours. Prerequisites: History 213 and 223. (Spring, 1964, and alternate years).

2 semester hours.

History 483. **The West in American History.** A study of the westward movement; the advancing frontier; and western political, economic, and social development from the colonial period to the twentieth century. Prerequisites: History 213 and 223.

3 semester hours.

SOCIOLOGY

Sociology 213. **Principles of Sociology.** A study of the person and his world, the social processes, including cooperation, conflict, accommodation, and assimilation; also means of social integration including the various institutions such as the family, the school, the church, business, and the state. (Fall).

3 semester hours.

Sociology 223. **Social Problems.** A general study is made of the problems created by dependents, defectives, and delinquents; intemperance; and problems created by the existence of war, family disorganization, crime, and poverty. Prerequisite: Sociology 213. (Spring)

3 semester hours.

Sociology 303. **Social Psychology.** A psychological study of the individual in the social situation. Emphasis is upon the development of attitudes, group thinking, sources of conflict, effects of competition and cooperation, analysis and evaluation of propaganda techniques and other forces which affect individuals in groups. This course may be taken for credit for majors or minors in either sociology or psychology. Prerequisites: Psychology 213 or Sociology 213. (Fall, 1962, and alternate years).

3 semester hours.

Sociology 333. **Marriage and the Family.** This course attempts to make a sociological analysis of the family which will 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 necessary adjustments of marriage and family life. Prerequisite: Sociology 213 or Junior standing. (Fall).

3 semester hours.

Sociology 343. **Juvenile Delinquency.** An intensive study of the extent and nature of juvenile delinquency; social and personal factors related to the development of delinquent habits; techniques for dealing with the delinquent and redirecting youth behavior in more constructive ways. Prerequisite: Sociology 213 or Junior standing. (Spring).

3 semester hours.

Sociology 353. **The American Community.** A comparative and inter-related study of rural-urban life considering the physical, institutional, social, cultural, and economic factors of modern living. Prerequisite: Junior standing. (Spring, 1964).

3 semester hours.

Sociology 403. **Research Methods in Sociology.** Location and use of research materials; techniques of organization, analysis, and interpretation; and the writing of a scholarly paper. Prerequisite: 12 hours of sociology. (Spring).

3 semester hours.

Sociology 423. **American Minority Peoples.** A study of the various minority groups in the United States and their sociological significance in our national group and culture. The Negroes, Indians, Orientals, Mexicans, Jews, foreign-born, and war refugees are studied. Immigration—its history, the present situation, and our post-war policy. Prerequisite: Junior standing. (Spring, 1963, and alternate years).

3 semester hours.

Sociology 433. **Principles of Criminology.** A study of the nature and extent of criminal behavior; theories of punishment and correction; administration of penal and reformatory institutions; apprehending, convicting and sentencing of criminals; probation and parole. Prerequisite: Sociology 213. (Fall, 1963, and alternate years).

3 semester hours.

VIII. Personnel

BOARD OF TRUSTEES

OFFICERS OF ADMINISTRATION

ADMINISTRATIVE STAFF

FACULTY OF INSTRUCTION

~~FACULTY COMMITTEES~~

Board of Trustees

~~1962-63~~
as of April 1, 1963

Officers:

~~Term Expiring 1963~~

President - Nix

Board of Trustees

Officers:

President.....	Hollis W. Nix, 5020 E. Weldon, Phoenix
Vice President.....	C. Vaughan Rock, 1202 N. 3rd St., Phoenix
Secretary.....	T. B. Greer, 112 North Central, Phoenix

Executive Committee:

Chairman.....	C. Vaughan Rock
Vice Chairman	Ralph Ferguson
Secretary	T. B. Greer
Member	F. A. Carlton
Member	W. N. Blankenship

Term Expiring 1962

Walter Oman	Pastor
Earl Bell	Pastor
W. A. McLeod	Insurance
Bob Anderson	Farmer
F. A. Carlton	Retired
Robert Ethington	Farmer
H. M. Jennings	Retired
Charles Ashcraft	Pastor

Term Expiring 1963

C. Vaughan Rock	Pastor
Hayden Bone	Airline Agent
James Lafitte	Merchant
Robert Crigler	Merchant
Hollis W. Nix	Pastor
Ralph Ferguson	Retired
W. N. Blankenship	Pastor
T. B. Greer	Civil Engineer

Term Expiring 1964

George Stevens	Banker
Ed. J. Packwood	Real Estate and Investments
Vernon E. Shipp, Sr.	Business Investments
Emmett Douglas	Attorney
Percy Smith	Farmer
J. Dee Cates	Pastor
Jack Richardson	Merchant
Henry Wooten	Pastor
James Bell	Pastor

Officers of Administration

†(As of January 1, 1962)

Eugene N. Patterson, A.B., Th.B., Th.M., Th.D.President (1959)*

A.B., Howard College

Th.B., Th.M., Th.D., New Orleans Baptist Theological Seminary

Additional Graduate Study: Union Theological Seminary; Oxford University; Eastern Baptist Theological Seminary; Temple University. (All work completed for S.T.D. except thesis.)

Glenn Eason, B.A., M.A., LL.D.

Administrative Vice-President and Dean (1952)

B.A., Baylor University

M.A., Sam Houston State College

LL.D., Grand Canyon College

Additional Graduate Study: The University of Houston

Harry D. Kent, B.B.A., M.B.E.Business Manager (1955)

B.B.A., Baylor University

M.B.E. North Texas State University

Additional Graduate Study: Southern Methodist University

*Year following name indicates the date of beginning service with the college.

Administrative Staff

†(As of January 1, 1962)

*Robert S. Sutherland, B.A., M.A.Assistant Dean (1956)

B.A., Union University

M.A., Murray State College

Additional Graduate Study: Northwestern University; University of Mississippi; Arizona State University

James L. McNett, B.A., B.D., Th.M., Th.D. ...Director of Public Relations (1956)

B.A., Friends University

B.D., Th.M., and Th.D. Central Seminary

Additional Graduate Study, University of Kansas

John Max Cox, B.S., M.R.E., M.Ed.Dean of Students (1960)

B.S., Howard Payne College

M.R.E., Southwestern Baptist Theological Seminary

M.Ed., University of Houston

Additional Graduate Study, Arizona State University

Marie McIntosh, B.A., M.R.E., M.A.,Dean of Women (1950)

B.A., Carson-Newman College

M.R.E., Carver School of Missions and Social Work

M.A., George Peabody College for Teachers

Additional Graduate Study, Arizona State University

* On Leave, 1961-62.

	.....	Librarian
Mrs. Leola Brown	.....	Assistant Registrar (1952)
Mrs. Myrtle Eason	.....	Manager of the College Book Store (1953)
Charles M. Cooke, M.D.	.....	College Physician (1952)
University of Utah		
Mrs. Clara J. Gilmore, R.N.	.....	College Nurse (1961)
St. Joseph's Hospital, Alton, Illinois		
✓ Mrs. Irene Dixon	.....	Director of Women's Dormitories; Director of the Student Center (1961)
✓ Mr. and Mrs. R. D. Cook	.....	Directors of Men's Dormitories (1960)
✓ Mrs. Clara Burghout	.....	Manager of the College Cafeteria (1951)
Iven R. Cooper	.....	Superintendent of Maintenance (1957)

SECRETARIAL AND CLERICAL PERSONNEL

~~(As of January 1, 1962)~~

✓ Mrs. Joan Gaines	.....	Secretary to the President
✓ Mrs. Norma Ledbetter	.....	Secretary to the Vice-President and Dean
	.....	Secretary, Department of Public Relations
✓ Mrs. Mary Carroll	.....	Assistant in the Registrar's Office
✓ Mrs. Virginia Trow	.....	Bookkeeper in the Business Office
✓ Mrs. Mary Ann Hale	.....	Bookkeeper in the Business Office
✓ Mrs. Della May	.....	Assistant in the Library
✓ Mrs. Alma Muns	.....	Assistant in the Library

STUDENT CENTER PERSONNEL

~~(As of January 1, 1962)~~

Mrs. Louise A. Robinson	.....	Manager
Mrs. Grace Rye	.....	Night Manager

Faculty of Instruction

(As of January 1, 1962)

- Chester S. Bagg, B.Mus., M.Mus., Mus.D. Associate Professor of Music;
Acting Head of Department (1955)
B.Mus., De Paul University
M.Mus., Northwestern University
Mus.D., Southwestern Conservatory of Fine Arts
Additional Graduate Study: Christiansen Choral School; University of Colorado
- Betty L. Beck, B.A., M.A. Associate Professor of English;
Acting Head of Department (1949)
B.A., DePaw University
M.A., University of Oklahoma
Doctoral Candidate, University of Oklahoma
- Roland L. Beck, B.A., M.A., Ph.D. Professor of Education;
Head of Department (1949)
B.A., Oklahoma Baptist University
M.A., Ph.D., University of Oklahoma
- David Burl Brazell, B.A., M.S. Associate Professor of Physical Education
Acting Head of Department; Athletics Coach (1951)
Director of Athletics
B.A., Arkansas State Teachers College
M.S., University of Arkansas
Additional Graduate Study, Arizona State University
- Mildred Brazell, B.A., M.A. Ass't. Professor of Physical Education (1952)
B.A., Arkansas State Teachers College
M.A., Arizona State University
Additional Graduate Study, University of Arkansas
- Ralph Terry Bryan, B.A., M.A. Assistant Professor of English (1959)
B.A., M.A., Arizona State University
Additional Graduate Study, University of Colorado
- Curtis R. Burgess, B.A., M.Ed.
Assistant Professor of Business Administration (1956)
B.A., Bowling Green College of Commerce
M.Ed., University of Pittsburgh
- Vera M. Butler, B.S., M.A., Ed.D. Visiting Professor of Education and
Social Studies (1953)
B.S., M.A., Teachers College, Columbia University
Ed.D., Temple University
- James E. Carroll, B.A., B.D. Part-time Instructor in Religion
B.A., Howard Payne College
B.D., Golden Gate Baptist Theological Seminary
- Elizabeth B. Clawson, B.S., M.A. Assistant Professor of English (1955)
B.S., Kent State University of Ohio
M.A., Arizona State University
Additional Graduate Study: Columbia University; Kent State University; University of London
- Patrick O. Copley, B.A., M.A. Part-time Instructor in
Social Studies (1960)
B.A., Grand Canyon College
M.A., Arizona State University
Additional Graduate Study, Arizona State University

- Clarence R. Dyer, B.S., M.E.Part-time Instructor in Art (1961)
 B.S., Kent State University
 M.E., Kent State University
 Additional Graduate Study, Arizona State University
- *Burton S. Gavitt, B.A., M.A.Associate Professor of Foreign Languages (1953)
 B.A., M.A., University of Michigan
 Additional Graduate Study, University of Michigan, National University of Mexico,
 University of Arizona
- Maxine Wakefield HaganProfessor of Education; Director of
 Teacher Placement (1961)
 B.A., Arizona State University
 M.A., Arizona State University
 Ed.D., University of Arizona
 Additional Graduate Study, University of California
- Harry D. Kent, B.B.A., M.B.E.Associate Professor of Business
 Administration; Acting Head of Department (1955)
 B.B.A., Baylor University
 M.B.E., North Texas State University
 Additional Graduate Study, Southern Methodist University
- A. A. Kitchings, B.A., Th.M., M.A., Ph.D.Visiting Professor
 of Foreign Languages (1961)
 B.A., Mississippi College
 M.A., University of Mississippi
 Th.M., Southern Baptist Theological Seminary
 Ph.D., Southern Baptist Theological Seminary
 Additional Graduate Study, University of Colorado; Louisiana State University; Uni-
 versity of Maryland; University of Texas
- Marie McIntosh, B.A., M.R.E., M.A.Associate Professor of Social Studies (1950)
 B.A., Carson-Newman College
 M.R.E., Carver School of Missions and Social Work
 M.A., George Peabody College for Teachers
 Additional Graduate Study, Arizona State University
- James L. McNett, B.A., B.D., Th.M. Th.D.Professor of Religion (1956)
 B.A., Friends University
 B.D., Th.M., Central Seminary
 Th.D., Central Seminary
 Additional Graduate Study, University of Kansas
- Clarice Maben, B.A., M.A.Assistant Professor of Social Studies,
 Acting Head of Department (1949)
 B.A., Grand Canyon College
 M.A., Baylor University
- Henry M. Mann, B.S., M.A.Assistant Professor of Biology (1951)
 B.S., Arkansas State College
 M.A., George Peabody College for Teachers
 Additional Graduate Study, Arizona State University, University of Arizona
- Dale W. PattonAssociate Professor of Education, Director of
 Teacher Training (1960)
 B.Ed., Teachers College, St. Cloud, Minnesota
 B.Mus.Ed., Northwestern University
 M.Ed., Syracuse University
 Doctoral Candidate, Arizona State University

* On Leave for 1961-62

- Jerry Dwite Prock, B.B.A., M.Ed.....Assistant Professor of
Business Administration (1961)
B.A., East Texas State College
M.Ed., East Texas State College
- Gordon Psalmonds, B.A., M.R.E., D.R.E.....Professor of Religion (1954)
B.A., William Jewell College
M.R.E., D.R.E., Southwestern Baptist Theological Seminary
- Marjorie Psalmonds, B.A., B.S.M., M.R.E., M.A.
~~Part time Instructor in Music~~ (1955)
B.A., William Jewell College
B.S.M., M.R.E., Southwestern Baptist Theological Seminary
M.A., Arizona State University
- J. Niles Puckett, B.A., LL.B., Th.M., Th.D.....Professor of Religion;
Head of Department (1949)
B.A., Mississippi College
LL.B., Cumberland University
Th.M., Th.D., Southern Baptist Theological Seminary
- ✓ Matthew M. Sloan, B.M., Mus.M., F.A.G.O.
Visiting Instructor in Music (1961)
B.M., Oberlin Conservatory
Mus.M., Oberlin Conservatory
Fellow in the American Guild of Organists
- *Robert S. Sutherland, B.A., M.A.....Associate Professor of English;
Acting Head of Department (1956)
B.A., Union University
M.A., Murray State College
Additional Graduate Study, Northwestern University, University of Mississippi,
Arizona State University
- Shih-Ming Wang, B.A., M.A.Associate Professor of Science;
Acting Head of Department (1953)
B.A., University of Shanghai
M.A., George Peabody College for Teachers
Additional Graduate Study, University of Arizona, Arizona State University, University
of California at Los Angeles, University of Wyoming; A and M College of Texas
- ✓ Sidney W. Weatherhead, B.S., M.A.....Associate Professor of
Education and Psychology
B.S., Western Michigan College
M.A., Michigan State University
Additional Graduate Study, Arizona State University; Wayne State University
- *Grace Weller, B.A., M.Mus.....Associate Professor of Music (1950)
B.A., Georgetown College
M.Mus., Cincinnati Conservatory of Music
Additional Graduate Study, University of Kentucky, University of California at Los
Angeles
- Paul A. Youngs, B.A., B.D., Th.M., *M. Nat. Sci.*
Assistant Professor of Mathematics and Physics (1956)
B.A., University of Corpus Christi
B.D., Th.M., Southern Baptist Theological Seminary
M.Nat. Sci., Arizona State University
Additional Graduate Study, Arizona State University, University of California at Davis
- ✓ J. E. Zimmerman, B.A., M.A.,.....Part-time Professor of English (1961)
B.A., Baylor University
M.A., Baylor University
Additional Graduate Study, Cambridge University; University of Southern California;
University of Texas
- *On Leave for 1961-62.

IX. Student Statistics

GRADUATES, 1960 and 1961

ENROLLMENT STATISTICS

STUDENT ROSTER

Graduates

Class of 1960

BACHELOR OF ARTS

Chester O. Barry
Ira Franklin Day
William Ralph English
Dorothy Donnel Godsoe
George W. Gray
Marcia Ann Henery
Troy Horton
Charles F. Kindred, III
Ruth McKay
Peter McLeod
Elvo Dean Melling
Fannie Mae Meredith
June McKay Myers
James H. Newville
Martha Jane Squire
John Sweeney
Carolyn Sue Taylor
Byron Douglas Turner
Robert Lynn Walker

BACHELOR OF SCIENCE

Billie Kathryn Carrier
Ellamae Thompson Elder
Wyman David Ford
Marie Gassler
Cleta Fisher Heath
Finetta Jane Hill
Eddie Lee Holden
Kitty Ellen Honaker
Jacquelyn Joy Jackson
Joyce Lynn Johnston
Shirley Johnston Justiniano
Fred J. Livingston
Betty Joe Newlon
Mary S. Osborne
Roy Ellis Peace
Kaisa B. Schmidt
Carolyn Anne Schoppenhorst
Diane Hunter Sheets
Vernon Edwin Shipp, Jr.
Betty Jane Todd
Rose M. Trezise
Thomas Ellis Tumlinson
David E. Williams
Ruth Mae Zody

Summer School Graduates

BACHELOR OF ARTS

Richard R. Bayne
Robert E. Downey
Willa Mae Evans
Bennett P. Haman, Sr.
Sarah Bruner Humphrey
Edward Lyn Lowry

BACHELOR OF SCIENCE

Ann B. Aycok
Sharon Kay Boyes
Enid Leone Calkins
Barbara Hawks Clonts
William M. Hegler
Naomi Savage Hunke
Luther Wayne McCutcheon
Patty Lou McLaughlin
Ina Marie Marshall
Marriana Magruder
Gene B. Patterson
Ethelyn Fay Smith
Dorothy Mulligan Ueltzen

ENROLLMENT STATISTICS—June 1, 1961 - May 31, 1962

Classification	Men	Women	Total
Freshmen	121	98	219
Sophomores	64	42	106
Juniors	49	35	84
Seniors	48	58	106
Auditors	5	5	10
Special	138	249	387
Grand Total	425	487	, 912

DENOMINATIONS REPRESENTED BY STUDENTS ENROLLED

Assembly of God	Latter Day Saints
Baptist:	Lutheran
Southern Baptists	Mennonite
Other Baptists	Methodist
Catholic	Missionary Alliance
Christian	Moslem
Christian Reformed	Nazarene
Christian Science	Non-Denominational
Church of Christ	No Preference
Church of Christian Philosophy	Pentecostal
Church of God	Presbyterian
Congregational	Quaker
Episcopal	Reformed
Evangelical Covenant	Reorganized Church of Latter Day Saints
Evangelical United Brethren	Seventh Day Adventist
Greek Orthodox	Unitarian
Jewish	

STATES REPRESENTED BY STUDENTS ENROLLED

Alabama	Maine	Oklahoma
Alaska	Maryland	Oregon
Arizona	Massachusetts	Pennsylvania
California	Michigan	South Dakota
Colorado	Mississippi	Tennessee
Delaware	Missouri	Texas
Georgia	Nebraska	Utah
Idaho	Nevada	Vermont
Illinois	New Jersey	Washington
Indiana	New Mexico	Wisconsin
Kansas	New York	Wyoming
Kentucky	Ohio	

FOREIGN COUNTRIES REPRESENTED BY STUDENTS ENROLLED

Canada

Hong Kong

Iran

Grand Canyon College

Student Roster

June, 1960–May, 1961

Acton, James.....	Phoenix, Arizona	Brown, Donald L.....	Peoria, Illinois
Adams, Charles B.....	Phoenix, Arizona	Brown, Doris Ann.....	Scottsdale, Arizona
Adams, Irene N.....	Phoenix, Arizona	Brown, Leola M.....	Phoenix, Arizona
Adams, Rhonda R.....	Tucson, Arizona	Brown, Oral William.....	Phoenix, Arizona
Adams, Winifred M.....	Phoenix, Arizona	Bruce, George.....	Avondale, Arizona
Adels, Henry, Jr.....	Phoenix, Arizona	Brown, Jack D.....	Phoenix, Arizona
Akins, Thomas G.....	Downers Grove, Illinois	Buchanan, Susan M.....	Rockridge, Virginia
Akins, Mona Jean.....	Phoenix, Arizona	Buckley, Louis S., Jr.....	Guthrie, Kentucky
Aldridge, Thomas B.....	Phoenix, Arizona	Buckwalter, Galen N.....	Glendale, Arizona
Aleff, Donald R.....	Marana, Arizona	Buckwalter, Gladys L.....	Glendale, Arizona
Alexander, Franklin.....	Phoenix, Arizona	Buehring, Al D.....	Phoenix, Arizona
Alford, Benny.....	Anderson, South Carolina	Buell, John A.....	Pinetop, Arizona
Alford, Diann.....	Anderson, South Carolina	Bullock, Sharon L.....	Phoenix, Arizona
Anaya, Alice.....	Glendale, Arizona	Burand, Kathryn J.....	Phoenix, Arizona
Anaya, Jose A.....	Grant, New Mexico	Burns, Henry F.....	Phoenix, Arizona
Andersen, John James.....	Phoenix, Arizona	Burns, Irma G.....	Phoenix, Arizona
Anfinson, David P.....	Glendale, Arizona	Busch, Eleanor M.....	Phoenix, Arizona
Arnold, Fred, Jr.....	Phoenix, Arizona	Bush, Herbert L.....	Tyler, Texas
Ashby, Rebecca.....	Phoenix, Arizona	Butler, Clifford C.....	Phoenix, Arizona
Aycock, Ann B.....	Phoenix, Arizona	Byers, Mary J.....	Youngtown, Arizona
Aycock, Lloyd Dale.....	Phoenix, Arizona	Calcore, Carmoleta.....	Phoenix, Arizona
Aycock, Bobby G.....	Phoenix, Arizona	Calkins, Enid L.....	Scottsdale, Arizona
Babcock, Vivian Jeanne.....	Phoenix, Arizona	Callin, Nancy G.....	Glendale, Arizona
Bailey, Muriel L.....	Phoenix, Arizona	Campbell, Phyllis C.....	Glendale, Arizona
Baker, Albert J.....	Fresno, California	Cano, Ernestina.....	Maricopa, Arizona
Baker, David A.....	Salem, Oregon	Carlisle, Jerri J.....	Show Low, Arizona
Baker, Millie L.....	Tucson, Arizona	Carroll, Mary Helen.....	Phoenix, Arizona
Baker, Virginia B.....	Phoenix, Arizona	Carroll, Mary S.....	Phoenix, Arizona
Bane, Kelly R.....	Zanesville, Ohio	Carter, Evelyn S.....	Peoria, Arizona
Barker, Harry A.....	Winkelman, Arizona	Casement, Phyllis A.....	Phoenix, Arizona
Barker, Linda Ann.....	Tacna, Arizona	Cash, Betty L.....	Phoenix, Arizona
Barnes, Dorothy G.....	Prescott, Arizona	Cassady, Norma J.....	Bloomfield, New Mexico
Barrell, John Frank.....	Phoenix, Arizona	Champion, Frances L.....	Modesto, California
Bayne, Dick R.....	Glendale, Arizona	Chaney, Mary Lou.....	Scottsdale, Arizona
Beatty, Leola Mae.....	Phoenix, Arizona	Chapman, Doris C.....	Phoenix, Arizona
Beckman, Martha E.....	Phoenix, Arizona	Childers, Paul R.....	Mesa, Arizona
Beckman, Katherine M.....	Phoenix, Arizona	Chord, Paul C.....	Phoenix, Arizona
Belcher, Donn B.....	Phoenix, Arizona	Chrisman, Thomas L.....	Kenilworth, Illinois
Belcher, W. M. Dan.....	Phoenix, Arizona	Christensen, Jane.....	Tempe, Arizona
Bell, Cooper C.....	Phoenix, Arizona	Church, James W.....	Akron, Ohio
Bell, Nelson D.....	Douglas, Arizona	Cirasole, Frankie S.....	Phoenix, Arizona
Bennett, Darrell K.....	Phoenix, Arizona	Clark, Emma Jean.....	Phoenix, Arizona
Bennett, Diana J.....	Tucson, Arizona	Clayton, Bennie H.....	Palms, California
Benton, Wallis L.....	Phoenix, Arizona	Cleary, Margaret R.....	Brooklyn, New York
Bergstrom, Mary G.....	Spencer, Iowa	Clifford, P. Marguerite.....	Phoenix, Arizona
Bernarde, Richard J.....	Phoenix, Arizona	Clons, Barbara E.....	Phoenix, Arizona
Blackburn, Norman L.....	Phoenix, Arizona	Clouse, Roberta W.....	Phoenix, Arizona
Bland, Donna L.....	Winslow, Arizona	Coady, Marilyn K.....	Glendale, Arizona
Bock, Gretchen E.....	Phoenix, Arizona	Cobb, Alfred J.....	Salem, Oregon
Bock, Kenneth A.....	Phoenix, Arizona	Cobb, Thomas P.....	Phoenix, Arizona
Bodley, Helen E.....	Phoenix, Arizona	Coleman, Deston F.....	Glendale, Arizona
Bohrer, Sherrie R.....	Phoenix, Arizona	Collins, Twyla C.....	Phoenix, Arizona
Bonham, Dave A.....	Phoenix, Arizona	Conner, Gerald A.....	Phoenix, Arizona
Bonine, Tommie J.....	Phoenix, Arizona	Conner, Jerry J.....	Casa Grande, Arizona
Booker, Marthanna.....	Phoenix, Arizona	Cook, Betty J.....	Glendale, Arizona
Boomhower, Madge.....	Glendale, Arizona	Cook, Robert D.....	Phoenix, Arizona
Bording, John Michael.....	Tucson, Arizona	Cooper, Aleta G.....	Phoenix, Arizona
Botts, G. Janelle.....	Phoenix, Arizona	Cooper, Gayla A.....	Arvada, Colorado
Botts, Thomas F.....	Phoenix, Arizona	Cooper, Minna L.....	Phoenix, Arizona
Bowling, Bette.....	Phoenix, Arizona	Corbin, Everett T.....	Phoenix, Arizona
Boyd, George F., Jr.....	Phoenix, Arizona	Corbin, Mabel I.....	Phoenix, Arizona
Boyes, Sharon Kay.....	Phoenix, Arizona	Cords, Rudolph F.....	Phoenix, Arizona
Bradley, Nancy Elizabeth.....	Phoenix, Arizona	Corkoran, Della F.....	Phoenix, Arizona
Brandon, James R.....	Phoenix, Arizona	Corkran, V. Fred.....	Phoenix, Arizona
Brandt, Sandra C.....	Running Springs, California	Corne, Joseph A.....	Phoenix, Arizona
Bressler, Sherry.....	Broomfield, Colorado	Cornett, Jean A.....	Phoenix, Arizona
Brewster, Adelaide T.....	Glendale, Arizona	Cox, Billie S.....	Phoenix, Arizona
Brinkerhoff, Cordelia.....	El Monte, California	Coy, Tommy R.....	Buckeye, Arizona
Brinkerhoff, Rae Deane.....	Winslow, Arizona	Crook, A. Lois.....	Phoenix, Arizona
Brisby, Donna L.....	San Manuel, Arizona	Crouse, Sara Mae.....	Louisville, Illinois
Brittain, Barbara A.....	Phoenix, Arizona	Crowe, William C., Jr.....	Apache Junction, Arizona
Brooks, Sidney A.....	Phoenix, Arizona	Crowl, Chester W.....	Phoenix, Arizona

Culling, Robert	Phoenix, Arizona	Gray, Charles A. Jr.	Phoenix, Arizona
Cureton, Jacquelyn A.	Phoenix, Arizona	Green, Charles S.	Denver, Colorado
Currier, Jeanette	Phoenix, Arizona	Green, James A.	Tolleson, Arizona
Damaske, Thomas J.	Phoenix, Arizona	Greer, Frances Eugenia	Phoenix, Arizona
Daniel, Dennis O.	Phoenix, Arizona	Greer, J. Kay	Phoenix, Arizona
Davenport, Howard B.	Phoenix, Arizona	Griffith, Shirley I.	Dove Creek, Colorado
Davidson, Nancylee	Grand Junction, Colorado	Grijalva, Louis C. Jr.	Phoenix, Arizona
Davis, Jeanette M.	Ash Fork, Arizona	Grosbach, James D.	Phoenix, Arizona
Day, Patricia L.	Pagosa Springs, Colorado	Gullick, Inella M.	Tuba City, Arizona
Deal, Robert C.	Phoenix, Arizona	Gurule, Reynaldo	Belen, New Mexico
Decker, James D.	Kansas City, Missouri	Gustafson, Gladys E.	Phoenix, Arizona
DeHart, Frances M.	Phoenix, Arizona	Gustafson, Marcia A.	Sioux City, Iowa
DeLaTorre, Parda J.	Phoenix, Arizona	Hahn, Mary F.	Phoenix, Arizona
Derr, James B.	Phoenix, Arizona	Haines, Kenneth J.	Youngtown, Arizona
Devine, Donald	Central City, Kentucky	Hall, Adrian W.	Glendale, Arizona
Dilbert, William H.	Phoenix, Arizona	Hall, Allan G.	Glendale, Arizona
Dixon, John Robert	Shelby, Tennessee	Hall, Russell K.	Glendale, Arizona
Dixon, Richard S.	Shelby, Tennessee	Hall, Sarah M.	Phoenix, Arizona
Dodson, J. O.	Phoenix, Arizona	Haman, Bennett P.	Phoenix, Arizona
Downey, Karen K.	Tucson, Arizona	Hamblin, Harold L.	Mesa, Arizona
Doyle, Marjorie R.	Glendale, Arizona	Hamilton, J. Bartelle	Phoenix, Arizona
Dunn, Thurman S.	Alamagordo, New Mexico	Hankins, Everett	Phoenix, Arizona
Dusseau, Jeanette M.	Glendale, Arizona	Hansford, Marjorie E.	Phoenix, Arizona
DuVal, William H.	Phoenix, Arizona	Hanson, James A.	Phoenix, Arizona
Earley, Sarah B.	Chandler, Arizona	Hapner, Mary M.	Phoenix, Arizona
Easley, Brenda J.	Gilbert, Arizona	Harmon, Richard L.	Phoenix, Arizona
Eaton, Sara L.	Phoenix, Arizona	Harris, Carol Ann	Phoenix, Arizona
Eaton, Danfred W.	Scottsdale, Arizona	Harris, L. Gene	Phoenix, Arizona
Ek, J. Edwin	Albuquerque, New Mexico	Harris, Marilyn A.	Tucson, Arizona
Elam, Robert L.	Phoenix, Arizona	Hart, Keith M.	Phoenix, Arizona
Elder, Willene R.	Phoenix, Arizona	Hartman, Gail J.	Phoenix, Arizona
Ellinger, Robert G.	Phoenix, Arizona	Hartman, Mary V.	Phoenix, Arizona
Elliott, Marlin G.	Phoenix, Arizona	Hartwell, Dell D.	Glendale, Arizona
Embry, Thomas L.	Tucson, Arizona	Harvey, Richard J.	Phoenix, Arizona
Emfinger, Charlene	Phoenix, Arizona	Hayes, Christina L.	Phoenix, Arizona
Erb, Danne J.	Phoenix, Arizona	Hawkins, Stephen F.	Phoenix, Arizona
Erickson, Berger	Thunderbird Field, Arizona	Heard, Carolyn J.	Phoenix, Arizona
Erickson, Mabel	Thunderbird Field, Arizona	Heard, Jerry M.	Phoenix, Arizona
Erzinger, Edmund Leroy	Aguila, Arizona	Heard, Jimmie E.	Phoenix, Arizona
Esheleman, Don Lee	Phoenix, Arizona	Hedge, Violet V.	Phoenix, Arizona
Estruth, Ery J.	San Jose, California	Hegdahl, Lorene R.	Phoenix, Arizona
Etheridge, Martin C.	Milledgeville, Georgia	Hegler, William M.	Phoenix, Arizona
Evans, Willa Mae	Phoenix, Arizona	Hein, Maun K.	Rangoon, Burma
Farrell, Janice M.	Tucson, Arizona	Henderson, Loretta Fay	Phoenix, Arizona
Fields, David A.	Riverside, California	Henry, Marcia A.	Phoenix, Arizona
Fields, V. Jean	Phoenix, Arizona	Henry, Verlyne C.	Buckeye, Arizona
Fifield, Travis E.	Rock Island, Illinois	Hensley, Larry L.	Peoria, Arizona
Fifield, Sheldon	Phoenix, Arizona	Heppler, Mike	Phoenix, Arizona
Finger, Ruth	Phoenix, Arizona	Herring, David E.	Fort Worth, Texas
Finical, Charlotte Ann	Phoenix, Arizona	Heywood, Newell W. Jr.	Scottsdale, Arizona
Finley, Robert E.	Phoenix, Arizona	Hicks, John Edward Jr.	Lowell, Arizona
Fisher, Glenda F.	Phoenix, Arizona	Higginbotham, Basil T.	Phoenix, Arizona
Fisher, Patricia L.	Glendale, Arizona	Higginbotham, Wilma Mae	Phoenix, Arizona
Fleming, Leonard	Phoenix, Arizona	Hill, Edward P.	Peoria, Arizona
Forster, B. Tabb	Los Angeles, California	Hill, Patricia A.	Glendale, Arizona
Foster, Veta Zella	Phoenix, Arizona	Hinson, Clifford E.	Cupertino, California
Fox, Frances J.	Phoenix, Arizona	Hixon, Murf P.	Yuma, Arizona
Frank, Noel E.	Phoenix, Arizona	Hodge, Clark E.	Bagdad, Arizona
Frankie, Norma Salomaa	Phoenix, Arizona	Hodges, Jimmy C.	Phoenix, Arizona
Frost, Pat L.	Phoenix, Arizona	Holly, Karen	Glendale, Arizona
Fry, Dick W.	Phoenix, Arizona	Holmes, Katherine N.	Phoenix, Arizona
Gaines, Bobby R.	Taylor, Kentucky	Horner, Don M.	Phoenix, Arizona
Garrison, Margaret L.	Trussville, Alabama	Hook, Genevieve	Winslow, Arizona
Gee, Gilbert	Phoenix, Arizona	Hopper, Donald Dean	Casa Grande, Arizona
George, Margaret J.	Phoenix, Arizona	Horst, Gerald C.	Phoenix, Arizona
Gibson, Dixie A.	Phoenix, Arizona	Howard, Darla N.	Phoenix, Arizona
Gibson, Harold	Phoenix, Arizona	Hubbard, Harriet W.	Phoenix, Arizona
Gibson, James G.	Cheyenne, Wyoming	Hubble, Isabelle L.	Phoenix, Arizona
Gibson, Jeanene P.	Cheyenne, Wyoming	Hudspeth, Billy J.	Peoria, Arizona
Gilliam, Gary	Phoenix, Arizona	Hugh, E. Nancy	Arden, Ontario
Glenn, C. Leon	Phoenix, Arizona	Hughes, Claudine	Marana, Arizona
Glover, Mary L.	Phoenix, Arizona	Hull, Daniel L.	Glendale, Arizona
Goble, Margery	Glendale, Arizona	Hull, Keith D.	Phoenix, Arizona
Godsoe, Carl T.	Las Cruces, New Mexico	Humphrey, Sarah B.	Phoenix, Arizona
Godsoe, D. Diann	Las Cruces, New Mexico	Hunke, Naomi S.	Glendale, Arizona
Goldby, Ronald F.	Glendale, Arizona	Hunt, James E.	Phoenix, Arizona
Golerz, Albert F.	Phoenix, Arizona	Hymers, Robert L.	Los Angeles, California
Goodrick, Francis E.	Phoenix, Arizona	Inglish, Garland Ross, Jr.	Phoenix, Arizona
Goodson, James L.	Hialeah, Florida	Inglish, Wanda J.	Phoenix, Arizona
Gorishke, Louis F.	Phoenix, Arizona	Jackson, Jerry L.	Casa Grande, Arizona
Grabanski, Henrietta J.	Glendale, Arizona	Jackson, Sheila S.	Van Buren, Arizona
Grace, Carron L.	Springerville, Arizona	Jacobus, Joann L.	Phoenix, Arizona
Grady, Barbara O.	Phoenix, Arizona	Jacobus, Marjorie A.	Phoenix, Arizona
Graham, Darrell L.	Coolidge, Arizona	Jenkerston, Harold D.	Esther, Missouri
Granger, Phyllis E.	Litchfield Park, Arizona	Jeter, Carolyn	Phoenix, Arizona

Johnson, Herbert D.	Phoenix, Arizona	Mathis, Betty J.	Glendale, Arizona
Johnson, Neva M.	Phoenix, Arizona	Mathis, F. Austin, Jr.	Glendale, Arizona
Johnston, John James.	Queen Creek, Arizona	Mattox, Leonard R.	Phoenix, Arizona
Jones, Janice C.	Phoenix, Arizona	Mattox, Rose E.	Phoenix, Arizona
Jones, Judith A.	Vernon, Illinois	Mattson, Gary L.	Phoenix, Arizona
Jones, Mary Louise.	Buckeye, Arizona	Mattson, Peggy F.	Phoenix, Arizona
Jones, Nancy L.	Morenci, Arizona	May, Della B.	Phoenix, Arizona
Jones, Roger P.	Phoenix, Arizona	May, Otis W.	Phoenix, Arizona
Jordan, Phyllis I.	Phoenix, Arizona	McAdams, Judith A.	Phoenix, Arizona
Jordan Virginia R.	Tucson, Arizona	McCall, Patricia J.	Phoenix, Arizona
Joseph, Albert L.	Phoenix, Arizona	McCarty, Cynthia L.	Phoenix, Arizona
Joseph, Albert L.	Phoenix, Arizona	McCarty, Shirley A.	Oxnard, California
Joy, Peggy L.	Phoenix, Arizona	McCormick, Joseph L.	Phoenix, Arizona
Judd, Marlene.	Gilbert, Arizona	McCraw, Anna L.	Glendale, Arizona
Karrick, Michael L.	Phoenix, Arizona	McCutcheon, L. Wayne.	Sundown, Texas
Keith, Marguerite.	Casa Grande, Arizona	McDade, Vernon Richard.	Phoenix, Arizona
Kelley, Michael J.	Phoenix, Arizona	McGill, Judith M.	Glendale, Arizona
Kelton, Barbara A.	Phoenix, Arizona	McGinn, Hugh J.	Phoenix, Arizona
Key, Merlyn M.	Glendale, Arizona	McKee, Anthony Wayne.	Phoenix, Arizona
Kinzie, Charles F.	Glendale, Arizona	McKee, C. Wayne.	Phoenix, Arizona
King, Patricia A.	Salt Lake City, Utah	McLain, Andrew D.	Willcox, Arizona
Kingston, Paul Ronald.	Prescott, Arizona	McLaughlin, Patty L.	Continental Divide, N. Mex.
Kirk, Lewis Dean.	Phoenix, Arizona	McLeod, Sherrene K.	Phoenix, Arizona
Kirkland, Wilbur Dean.	Casa Grande, Arizona	McLeroy, L. Jim.	Roy, New Mexico
Kistler, Janet E.	Phoenix, Arizona	McMahon, John E.	Glendale, Arizona
Knages, Eleanor.	Phoenix, Arizona	McTavish, Clifford J.	Pueblo, Colorado
Knappus, Margaret O.	Phoenix, Arizona	Meadows, Maurine M.	Phoenix, Arizona
Knight, Stephen G.	Phoenix, Arizona	Meadows, Shirley S.	Phoenix, Arizona
Kuffel, John W.	Phoenix, Arizona	Meisinger, George E.	Salem, Oregon
Kyle, Jacquelyn.	Phoenix, Arizona	Mejia, Jose J.	Phoenix, Arizona
Lacey, Floyd E.	Humboldt, Tennessee	Melling, L. Duane.	Portland, Oregon
Lahusen, Marian.	Phoenix, Arizona	Merced, Walter W.	Carrizozo, New Mexico
Laine, Richard Allen.	Phoenix, Arizona	Meyer, Marilyn G.	Phoenix, Arizona
Laird, Robert A.	Phoenix, Arizona	Mierkey, Patrick D.	Schofield, Wisconsin
LaLonde, Mary E.	Phoenix, Arizona	Milburn, George H.	Phoenix, Arizona
Lamartino, Gano T.	Phoenix, Arizona	Miller, Everett D.	Morenci, Arizona
Lamb, Foster D.	Phoenix, Arizona	Miller, Margaret L.	Phoenix, Arizona
Lamb, Walter E.	Coolidge, Arizona	Miller, Roger L.	Phoenix, Arizona
Lamberson, Virginia W.	Phoenix, Arizona	Miller, Theodore E.	Winslow, Arizona
Lambeth, James P.	Phoenix, Arizona	Miller, Thurman G.	Phoenix, Arizona
Lambros, James J.	Phoenix, Arizona	Miller, William H.	Glendale, Arizona
Land, Vicki M.	Phoenix, Arizona	Misenheimer, Ralph A.	Phoenix, Arizona
Lange, Clare L.	Phoenix, Arizona	Mlnarik, Barbara A.	Phoenix, Arizona
LaRue, Nancy P.	Phoenix, Arizona	Moon, Jerold B.	Yuma, Arizona
Laureman, Volande E.	Phoenix, Arizona	Moore, W. Janice.	Phoenix, Arizona
Leach, Kenneth A.	Phoenix, Arizona	Morris, Billy O.	Phoenix, Arizona
Ledbetter, Lawrence W.	Phoenix, Arizona	Morris, Lee S.	Phoenix, Arizona
Lee, Alice E.	Phoenix, Arizona	Mossinger, Sven G.	Phoenix, Arizona
Lee, Charles E.	Phoenix, Arizona	Nance, Helen P.	Phoenix, Arizona
Lee, Susan H.	Phoenix, Arizona	Narramore, S. Bruce.	Palo Verde, Arizona
Lewis, Charleen M.	Scottsdale, Arizona	Neal, Jan A.	Phoenix, Arizona
Lewis, Estes L.	Glendale, Arizona	Neilson, Barbara S.	Phoenix, Arizona
Lewis, Ruth T.	Glendale, Arizona	Nelson, Nancy.	Phoenix, Arizona
Lindsey, J. Benjamin.	Phoenix, Arizona	Nelson, Ruth J.	Phoenix, Arizona
Linxwiler, Elizabeth A.	Glendale, Arizona	Newson, Donald D.	Phoenix, Arizona
Lombardi, Anthony.	Phoenix, Arizona	Nichols, Ronald L.	Gilbert, Arizona
Long, Van Alen.	Scottsdale, Arizona	Nix, DeWitt C.	Phoenix, Arizona
Long, Virginia C.	Phoenix, Arizona	Nix, Patsy C.	Phoenix, Arizona
Longstreth, Mary L.	Phoenix, Arizona	Nix, Paul W.	Phoenix, Arizona
Lopez, Pete S.	Goodyear, Arizona	Noe, Paul Y.	Phoenix, Arizona
Lowry, E. Lyn.	Phoenix, Arizona	Norman, Charles H.	Godfrey, Illinois
Lozier, Mary Louise.	Phoenix, Arizona	Norris, Gloria J.	Phoenix, Arizona
Lundahl, Irene M.	Phoenix, Arizona	Norris, Jane H.	Phoenix, Arizona
Mackin, Ruth K.	Phoenix, Arizona	Nunneley, Irene S.	Phoenix, Arizona
Madison, Colleen D.	Phoenix, Arizona	Nutter, Darrell R.	Glendale, Arizona
Magro, Emma.	Phoenix, Arizona	O'Keefe, Margaret B.	Phoenix, Arizona
Magruder, Marriana.	Phoenix, Arizona	Oliver, Joan C.	Phoenix, Arizona
Magruder, Ray, Jr.	Phoenix, Arizona	Oliver, Helen B.	Phoenix, Arizona
Malakowsky, Marjoria B.	Phoenix, Arizona	Ong, Wendy L.	Phoenix, Arizona
Mallamo, Charlotte J.	Buckeye, Arizona	Ormand, Judy J.	Tucson, Arizona
Mauderson, Walter C.	Phoenix, Arizona	Overall, R. Ann.	Tucson, Arizona
Manning, Mary Jane.	Scottsdale, Arizona	Owenby, Eschol C.	Glendale, Arizona
Manning, Otho A.	Phoenix, Arizona	Owens, Boyd H.	Bisbee, Arizona
ManSHIP, David R.	Kingman, Arizona	Owens, Melvin J.	Phoenix, Arizona
Manton, Jeanne P.	Phoenix, Arizona	Owens, Virginia H.	Phoenix, Arizona
Markham, Clara.	Phoenix, Arizona	Padfield, Judy M.	Chandler, Arizona
Marley, Carlynn F.	Glendale, Arizona	Pancy, Dolores.	Phoenix, Arizona
Marley, Daniel V.	Glendale, Arizona	Paine, Dorothy V.	Phoenix, Arizona
Marshall, Ina M.	Phoenix, Arizona	Painter, Helen M.	Phoenix, Arizona
Martin, Gene C.	Phoenix, Arizona	Pancy, Dolores.	Phoenix, Arizona
Martin, Harry G.	Phoenix, Arizona	Pannel, Georglyn D.	Phoenix, Arizona
Martin, Sam L.	Phoenix, Arizona	Park, Kenneth F.	Phoenix, Arizona
Martinez, Angla V.	Phoenix, Arizona	Parr, Fyanna M.	Glendale, Arizona
Martinez, Jorge A.	Phoenix, Arizona	Paterick, William J.	Mesa, Arizona
Martz, Dennis D.	Brookville, Pennsylvania	Patterson, Gene B.	Phoenix, Arizona

Patterson, Helen J.	Clifton, Arizona	Shea, Winifred M.	Phoenix, Arizona
Pauley, Patricia S.	Prescott, Arizona	Sheckles, Virginia C.	Phoenix, Arizona
Paulus, Bruce B.	Asbury, New Jersey	Sherod, Henry.	Phoenix, Arizona
Penn, Jerre A.	Phoenix, Arizona	Shipp, Cris A.	Phoenix, Arizona
Perdue, Anna M.	Phoenix, Arizona	Shipp, Vernon Edwin, Jr.	Phoenix, Arizona
Perkins, Robert T.	Baltimore, Maryland	Sigmon, John F.	Arlington, North Carolina
Persinger, Pearl M.	Phoenix, Arizona	Simis, Catherine F.	Phoenix, Arizona
Peterson, Mary Ann.	Rochester, Michigan	Simpson, Martin L.	Phoenix, Arizona
Petrey, Carmel M., Jr.	Phoenix, Arizona	Singer, Sheila C.	Phoenix, Arizona
Petznick, Earl A.	Glendale, Arizona	Sipe, Charles P.	Glendale, Arizona
Pfizer, Marion A.	Phoenix, Arizona	Sisco, Ella Mae	Clifton, Arizona
Phares, Denny G.	Tolleson, Arizona	Slater, Judith Ann.	Phoenix, Arizona
Phares, James W.	Tolleson, Arizona	Smith, Ethelyn Fay	Phoenix, Arizona
Phillips, Donald L.	Glendale, Arizona	Smith, James F.	Phoenix, Arizona
Phillips, Ruthanne.	Glendale, Arizona	Smith, Kenneth R.	Phoenix, Arizona
Phillips, William S., Jr.	Phoenix, Arizona	Smith, Lois J.	Phoenix, Arizona
Pierce, Margaret M.	Scottsdale, Arizona	Smith, Mary H.	Phoenix, Arizona
Piper, Lois J.	Phoenix, Arizona	Smith, Neal W.	Phoenix, Arizona
Pisel, Lucinda A.	Torrance, California	Smith, Vergal R.	Phoenix, Arizona
Pittman, Kathleen M.	Port Hueneme, Calif.	Smith, W. Junelle	Clearfield, Utah
Pless, Travis S.	Phoenix, Arizona	Sparkman, Patsy K.	Tolleson, Arizona
Pollard, Barbara R.	Alamosa, Colorado	Speaker, Avis G.	Glendale, Arizona
Pollard, Charley E.	Alamosa, Colorado	Spivey, Dan H.	Bisbee, Arizona
Pope, Harold W.	Phoenix, Arizona	Squire, Martha Jane	Phoenix, Arizona
Powell, Ernest, Jr.	Phoenix, Arizona	Staggs, Barbara K.	Phoenix, Arizona
Powell, Janice L.	Benson, Arizona	Staples, Elaine M.	Phoenix, Arizona
Preatrice, Gary E.	Phoenix, Arizona	Stephens, Archie L.	Phoenix, Arizona
Price, Floyd.	Casa Grande, Arizona	Stephens, Gerelene	Phoenix, Arizona
Pullins, Barbara J.	Glendale, Arizona	Stephens, Janice T.	Phoenix, Arizona
Pust, Laura Jean.	Glendive, Montana	Stephenson, Miriam K.	Phoenix, Arizona
Pylant, Thurman O.	Phoenix, Arizona	Stevens, LeRoy.	Phoenix, Arizona
Quass, David E.	Glendale, Arizona	Stewart, Dorothy J.	Phoenix, Arizona
Raine, Elizabeth C.	Avondale, Arizona	Stone, Paula J.	Chandler, Arizona
Rains, Calvin H.	Phoenix, Arizona	Stow, W. Ruth D.	Phoenix, Arizona
Raistrick, Gilbert G.	Phoenix, Arizona	Sunnell, Violet H.	Corryton, Tennessee
Ramer, Gary D.	Ajo, Arizona	Strass, Lois R.	Phoenix, Arizona
Ramirez, Carmelo H.	Phoenix, Arizona	Sullivan, Travis G.	Fayette, West Virginia
Ranck, Twila M.	Glendale, Arizona	Susunkewa, Eula M.	Phoenix, Arizona
Randel, Charles A.	Phoenix, Arizona	Suter, Doris M.	Phoenix, Arizona
Ray, Janet E.	Phoenix, Arizona	Sutton, Nancy.	Phoenix, Arizona
Ray, Martha B.	Phoenix, Arizona	Swan, Raymond R.	Glendale, Arizona
Reed, Edith E.	Phoenix, Arizona	Sypherd, Gola F.	Phoenix, Arizona
Reedy, William R.	Phoenix, Arizona	Talley, Eugene N.	Phoenix, Arizona
Reid, Peggy S.	Silver City, New Mexico	Taylor, Nadine.	Phoenix, Arizona
Reilly, Richard T.	Phoenix, Arizona	Taylor, Paul E.	Harbor City, California
Richards, Jim L.	Phoenix, Arizona	TenHarkel, Esther.	Phoenix, Arizona
Richards, Marylee W.	Phoenix, Arizona	Tenney, Patricia G.	Prescott, Arizona
Richmond, Barbara M.	Phoenix, Arizona	Terrell, Philip H.	Glendale, Arizona
Richmond, F. June	Ignacio, Colorado	Terry, Shirl L.	Glendale, Arizona
Ridle, Nellie L.	Glendale, Arizona	Tessen, Edythe D.	Phoenix, Arizona
Riley, A. Baxter.	Phoenix, Arizona	Thomas, Joyce H.	San Isidro, Peru
Riley, J. Evann.	Price, Utah	Thomas, Kenneth L.	Boulder City, Nevada
Riley, Walter R.	Price, Utah	Thompson, Kenneth R.	Eloy, Arizona
Robinson, Eddie L.	Phoenix, Arizona	Thompson, Orrin J.	Glendale, Arizona
Robinson, Harold E.	Phoenix, Arizona	Thrasher, Donald F.	Phoenix, Arizona
Roden, Barbara J.	Willcox, Arizona	Tidmore, Maynard E.	Phoenix, Arizona
Roediger, Shirley J.	Shelby, Montana	Tinder, Hazel G.	Phoenix, Arizona
Roever, Janice E.	Phoenix, Arizona	Tipton, John C.	Phoenix, Arizona
Rose, Michael J.	Chandler, Arizona	Tipton, Lee O.	Phoenix, Arizona
Rouse, Lura N.	Glendale, Arizona	Tobin, Mary Alice.	Sun City, Arizona
Rogers, Royce W.	Phoenix, Arizona	Tobin, Patrick H.	Sun City, Arizona
Rogers, Virginia.	Phoenix, Arizona	Tolliver, Robert A.	Phoenix, Arizona
Ruble, Alva W.	Glendale, Arizona	Treadway, Carolyn F.	Morenci, Arizona
Ruiz, Norma D.	Florence, Arizona	Trent, M. Jeannette	Glendale, Arizona
Rummage, Bob G.	Phoenix, Arizona	Trent, Bruce.	Glendale, Arizona
Russell, Howard M.	Stanfield, Arizona	Trotter, Bobbie G.	Phoenix, Arizona
Sander, Paul J.	Phoenix, Arizona	Tunnell, Arden L.	Phoenix, Arizona
Sanders, John P.	Glendale, Arizona	Tunnell, Frank W.	Phoenix, Arizona
Sanders, O. Luckett.	Tucson, Arizona	Turner, Grada L.	Phoenix, Arizona
Sanders, Richard L.	Santa Rosa, California	Turner, Patrice E.	Phoenix, Arizona
Sandlin, Calvin M.	Phoenix, Arizona	Ueltzen, Dorothy	Phoenix, Arizona
Sartain, Bennaneal M.	Phoenix, Arizona	Uelzen, John D.	Phoenix, Arizona
Savoy, Rosalie.	Phoenix, Arizona	Ulchyn, Louise K.	Phoenix, Arizona
Schmelzla, E. Nadine	Willcox, Arizona	VanHorn, Gary L.	Tucson, Arizona
Schultz, Graydon N.	Glendale, Arizona	VanSittert, Barbara C.	Phoenix, Arizona
Schultz, John A.	Columbus 4, Ohio	Waldon, Glenn H.	Phoenix, Arizona
Schwartz, Larry R.	Florence, Arizona	Waldon, Leonard M.	Phoenix, Arizona
Scott, Arden P.	Phoenix, Arizona	Walker, James R.	Phoenix, Arizona
Scott, Charlie D.	Phoenix, Arizona	Wallace, Robert F.	Tucson, Arizona
Scott, W. Alberta.	Phoenix, Arizona	Walling, Daryl V.	Phoenix, Arizona
Seiple, Joyce E.	Phoenix, Arizona	Walters, R. Bruce.	Phoenix, Arizona
Seymour, Robert L.	Ellis Grove, Illinois	Wang, Johnny.	Phoenix, Arizona
Shackelford, George W.	Arlington, Texas	Wang, Nancy H.	Phoenix, Arizona
Shank, James L.	Glendale, Arizona	Ward, Larry W.	Phoenix, Arizona
Shaulis, Gail E.	Scottsdale, Arizona	Warner, Dorothea B.	Glendale, Arizona

Warren, Harry R.....	Phoenix, Arizona	Williams, George M.....	Phoenix, Arizona
Warren, Lucille A.....	Ridgewood, New Jersey	Williams, Mary A.....	Phoenix, Arizona
Watkins, Sydney A.....	Salt Lake City, Utah	Williams, Robert L.....	Topeka, Kansas
Watkins, Virgil T.....	Phoenix, Arizona	Williams, Seth E.....	Glendale, Arizona
Watson, Harvey E.....	Phoenix, Arizona	Williamson, Arthur R.....	Glendale, Arizona
Watson, Thomas J.....	Phoenix, Arizona	Willis, Anna Mae.....	Scottsdale, Arizona
Weathersbee, Elvera.....	Phoenix, Arizona	Wilson, Beverly J.....	Litchfield Park, Arizona
Weaver, Mahlon, C.....	Phoenix, Arizona	Wilson, George G.....	Phoenix, Arizona
Wells, William E.....	Glendale, Arizona	Wilson, Myrtle M.....	Seattle, Washington
Wesley, Clifton M.....	Peoria, Arizona	Wood, Ruth M.....	Phoenix, Arizona
West, Billy D.....	Phoenix, Arizona	Wood, Alvin W.....	Phoenix, Arizona
Whatley, George A.....	Phoenix, Arizona	Wood, C. J.....	Phoenix, Arizona
Wheeler, Kenneth B.....	Glendale, Arizona	Woodall, Thomas N.....	Phoenix, Arizona
White, L. Daniel.....	Jackson, Mississippi	Woodruff, Ross L.....	Phoenix, Arizona
White, Marjorie L.....	Phoenix, Arizona	Woods, Leon A.....	Phoenix, Arizona
White, Walter W.....	Roy, Utah	Wootan, Wilford L.....	Phoenix, Arizona
White, William L.....	Phoenix, Arizona	Wright, Alice B.....	Phoenix, Arizona
Wick, Jack C.....	Glendale, Arizona	Wright, James T.....	Phoenix, Arizona
Wiggins, Marilyn.....	Phoenix, Arizona	Wright, Virginia L.....	Phoenix, Arizona
Wiley, Mark F.....	Bisbee, Arizona	Young, Charles R.....	Phoenix, Arizona
Wiley, Monty Coy.....	Ajo, Arizona	Youngberg, Willard D.....	Glendale, Arizona
Williams, Billy R.....	Phoenix, Arizona	Yount, Laura J.....	Scottsdale, Arizona
Williams, David M.....	Phoenix, Arizona	Zichterman, Mary L.....	Coolidge, Arizona
Williams, George L.....	Phoenix, Arizona		

GRAND CANYON COLLEGE STUDENT ROSTER

JUNE 1, 1961 - MAY 31, 1962

Abbott, Scotty Lige	Eloy, Arizona	Boop, Margaret A.	Phoenix, Arizona
Adams, Charles B.	Phoenix, Arizona	Boop, Norman F.	Phoenix, Arizona
Adams, Betty Lois	Phoenix, Arizona	Bott, Lucy M.	Phoenix, Arizona
Adams, Nancy Carol	Phoenix, Arizona	Bothwell, Don E.	Phoenix, Arizona
Adams, R. LeRoy	Phoenix, Arizona	Botts, G. Janelle	Phoenix, Arizona
Adams, Rhonda R.	Tucson, Arizona	Botts, Thomas F.	Phoenix, Arizona
Akin, John M.	Phoenix, Arizona	Bowen, Quida J.	Phoenix, Arizona
Akins, David Lee	Phoenix, Arizona	Bower, Sharon A.	Caldwell, Idaho
Akins, Mona Jean	Phoenix, Arizona	Bowling, Bette	Phoenix, Arizona
Aldridge, Thomas Bailey	Phoenix, Arizona	Boyd, George F., Jr.	Phoenix, Arizona
Alexander, Fay L.	Phoenix, Arizona	Boyd, Sally P.	Phoenix, Arizona
Allaire, Peggy Lynn	Tucson, Arizona	Boydston, Roberta L.	Phoenix, Arizona
Allan, Martha Patricia	Phoenix, Arizona	Bradford, Morris L.	Phoenix, Arizona
Allen, Jim Edger	Bullhead City, Arizona	Bradbury, Albert H.	Glendale, Arizona
Alley, Robert Daniel	Phoenix, Arizona	Bradley, Nancy E.	Phoenix, Arizona
Allum, Willfred Fern	Phoenix, Arizona	Bradshaw, Doris E.	Peoria, Arizona
Alpers, Herbert J.	Goodyear, Arizona	Bramlett, Melba J.	Peoria, Arizona
Anaya, Alice	Glendale, Arizona	Branch, Lorena K.	Phoenix, Arizona
Anaya, Jose A.	Glendale, Arizona	Brandon, James R.	Phoenix, Arizona
Anderson, Carol Joy	Phoenix, Arizona	Brannan, Betty C.	Prescott, Arizona
Anderson, Gail C.	Phoenix, Arizona	Broughton, W. Lyle	San Pedro, California
Anderson, Maureen Elizabeth	Newark, Delaware	Brewer, Harriet R.	Phoenix, Arizona
Anfinson, Dave Paul	Glendale, Arizona	Brinkerhoff, Rae Deane	Winslow, Arizona
Anstett, Jean Carole	Phoenix, Arizona	Brittain, Kenneth, P.	Phoenix, Arizona
Armbruster, Rowlan Louis	Salt Lake City	Brockway, Nancy L.	Mesa, Arizona
Armstrong, James Richard	Phoenix, Arizona	Brooks, Viola B.	Phoenix, Arizona
Arnolt, Fred M.	Phoenix, Arizona	Brotten, Russell W.	Phoenix, Arizona
Aubrey, Crystal Wilson	Phoenix, Arizona	Brown, Donald L.	Phoenix, Arizona
Aycock, Lloyd Dale	Phoenix, Arizona	Brown, Doris Ann	Scottsdale, Arizona
Ayers, Dixie Karolyn	Phoenix, Arizona	Brown, Barry D.	Phoenix, Arizona
Babich, Mary D.	Phoenix, Arizona	Brown, Carolyn S.	Phoenix, Arizona
Babcock, Vivian J.	Phoenix, Arizona	Brown, Judith C.	Phoenix, Arizona
Bagley, Doris Marie	Phoenix, Arizona	Brown, Leola M.	Phoenix, Arizona
Bailey, Alma W.	Phoenix, Arizona	Brown, M. Ethel	Jamestown, Pennsylvania
Bain, Joanne Berg	Phoenix, Arizona	Brown, Mae G.	Phoenix, Arizona
Bailey, Cora Jean	Safford, Arizona	Brownell, Martha J.	Avondale, Arizona
Baker, Albert J.	Fresno, California	Bruce, George	Avondale, Arizona
Baker, Eileen Trimble	Phoenix, Arizona	Buchanan, Susan M.	Phoenix, Arizona
Baker, David Allen	Phoenix, Arizona	Buchik, Mary E.	Phoenix, Arizona
Baker, Mildred Lucille	Tucson, Arizona	Buckley, Louis S. Jr.	Guthrie, Kentucky
Bandley, Karen Lee	Richfield, Utah	Buehring, Al	Phoenix, Arizona
Bane, Kelly Ralph	Zanesville, Ohio	Buell, John A.	Pinetop, Arizona
Baquet, Melva Eliabeth	Tucson, Arizona	Buikema, Iola L.	Phoenix, Arizona
Barker, Linda Ann	Tacna, Arizona	Bullock, Sharon L.	Phoenix, Arizona
Barks, James Charles	Scottsdale, Arizona	Burks, Thomas W.	Roll, Arizona
Barnett, David Kierth	Princeton, Illinois	Burrows, Donald R.	Phoenix, Arizona
Barnett, Louise	Phoenix, Arizona	Burt, Helen M.	Phoenix, Arizona
Barnhart, Claudia Louise	Glendale, Arizona	Burtrum, Bonnie A.	Phoenix, Arizona
Bartell, John Frank	Phoenix, Arizona	Burtrum, James R.	Phoenix, Arizona
Bayne, Richard R.	Glendale, Arizona	Butler, Beverly S.	Monticello, Utah
Beardon, Elsie Kathleen	Phoenix, Arizona	Butler, Norma L.	Glendale, Arizona
Beattie, Robert Allen	Phoenix, Arizona	Buzzard, Robert W.	Phoenix, Arizona
Beatty, Leola Mae	Phoenix, Arizona	Callin, Nancy G.	Glendale, Arizona
Beattie, Richard Lyman	Los Angeles, Calif.	Callin, Vicki L.	Glendale, Arizona
Beckendorf, Sharon L.	Sedona, Arizona	Callin, Robert T.	Glendale, Arizona
Bedlion, Bonnie Lou	Phoenix, Arizona	Campbell, Phyllis C.	Phoenix, Arizona
Behl, Donald Allen	Phoenix, Arizona	Cambron, Claudette E.	Buckeye, Arizona
Begay, Anthony	Gallup, New Mexico	Camper, Marvin R.	Phoenix, Arizona
Belcher, W. Milford Dan	Phoenix, Arizona	Campion, Jane A.	Phoenix, Arizona
Bell, Cooper C.	Phoenix, Arizona	Campion, Marjorie M.	Phoenix, Arizona
Bender, Beverly Jean	Phoenix, Arizona	Cantrell, Teddy D.	Phoenix, Arizona
Bennett, Diana Joan	Tucson, Arizona	Carlise, Zenith E.	Linden, Arizona
Bennett, Thomas G.	Phoenix, Arizona	Carlton, Doris A.	Glendale, Arizona
Berg, Daniel G.	Phoenix, Arizona	Carls, Sharon L.	Phoenix, Arizona
Berg, Esther K.	Phoenix, Arizona	Carlton, Maxine R.	Phoenix, Arizona
Berghouse, Donald W.	Phoenix, Arizona	Carpenter, Peggy A.	Phoenix, Arizona
Berlind, Beverly W.	Phoenix, Arizona	Carr, Judith A.	Glendale, Arizona
Betsinger, Elda R.	Phoenix, Arizona	Carroll, Mary Helen	Phoenix, Arizona
Berner, Donald T.	Tempe, Arizona	Carter, William M.	Phoenix, Arizona
Berryhill, Woodrow	Phoenix, Arizona	Casement, John O.	Phoenix, Arizona
Bidding, Joyce	Indianapolis, Indiana	Casement, Phyllis A.	Phoenix, Arizona
Binder, Wilmot I.	Phoenix, Arizona	Caskey, Evelyn D.	Phoenix, Arizona
Bingham, Elizabeth C.	Yuma, Arizona	Chattick, Richard A.	Lisbon, Maine
Birkner, Ray O.	Boonville, Indiana	Chattin, Frank W.	Phoenix, Arizona
Blake, Jack P.	Phoenix, Arizona	Cheek, Dianne E.	Glendale, Arizona
Blake, Louise R.	Phoenix, Arizona	Cheng, Gertrude C.	Hong Kong, China
Bland, Donna, L.	Winslow, Arizona	Chord, Paul C.	Phoenix, Arizona
Bloodsworth, Richard G.	Phoenix, Arizona	Church, James W.	Akron, Ohio
Bohrer, Sherrie R.	Phoenix, Arizona	Cirasole, Frakie S.	Phoenix, Arizona
Bonham, David A.	Phoenix, Arizona	Clauson, Eleanor I.	Phoenix, Arizona

Clauson, Robert D.	Phoenix, Arizona	Evans, Linda C.	Colby, Kansas
Clayton, Bennie H.	Palms, California	Everson, Fred W.	Phoenix, Arizona
Cleary, Margaret	San Juan, Utah	Eyster, Carol I.	Massillon, Ohio
Cleveland, Bobbie J.	Phoenix, Arizona	Farlow, Bette M.	Coolidge, Arizona
Cline, Donald L.	Phoenix, Arizona	Farnsworth, Louis N.	Phoenix, Arizona
Cline, Mary J.	Phoenix, Arizona	Farrell, Janice M.	Tucson, Arizona
Cobb, Alfred	Salem, Oregon	Farrill, Milton B.	Mesa, Arizona
Coleman, Gerald P.	Phoenix, Arizona	Faver, L. Fredrick	Buckeye, Arizona
Collins, Twyla C.	Phoenix, Arizona	Ferguson, Grace	Phoenix, Arizona
Colson, Theresa A.	Phoenix, Arizona	Fetter, Robert D.	Payette, Idaho
Compton, A. Kay	Peoria, Arizona	Fields, Charles F.	Phoenix, Arizona
Conner, Abi A.	Phoenix, Arizona	Figura, Joyce A.	Phoenix, Arizona
Conner, Gerald A.	Phoenix, Arizona	Finley, A. Gaye	Nipomo, California
Conner, Jerry J.	Casa Grande, Arizona	Finley, Ruth W.	Phoenix, Arizona
Cook, Jim F.	Phoenix, Arizona	Finger, Robert E.	Phoenix, Arizona
Cook, Betty J.	Glendale, Arizona	Finley, Glenda F.	Phoenix, Arizona
Cook, Larry J.	Phoenix, Arizona	Fisher, Patricia L.	Phoenix, Arizona
Coombes, Roy R.	Glendale, Arizona	Fitch, Larry W.	Stanfield, Arizona
Cooper, Aleta G.	Phoenix, Arizona	Fitch, Larry W.	Staten Island, N.Y.
Cooper, Margaret M.	Phoenix, Arizona	Fitzpatrick, F. Richard	Phoenix, Arizona
Copen, Dennis E.	Phoenix, Arizona	Fitzpatrick, Robert E.	Phoenix, Arizona
Corbin, Everett T.	Phoenix, Arizona	Fleming, Gail P.	Phoenix, Arizona
Corbin, Mabel I.	Phoenix, Arizona	Floyd, Lee	Phoenix, Arizona
Corkran, V. Fred	Phoenix, Arizona	Floyd, Lee	Phoenix, Arizona
Coyle, Thomas C.	Phoenix, Arizona	Mockler, David C.	Hollywood, California
Corne, Joseph A.	Phoenix, Arizona	Forster, B. Tabb	Phoenix, Arizona
Cornett, Jean A.	Scottsdale, Arizona	Foss, Virginia I.	Phoenix, Arizona
Craig, Christine A.	Scottsdale, Arizona	Foubert, Ronald K.	Letcher, South Dakota
Craft, Shirley L.	Phoenix, Arizona	Fowler, Curtis O.	Coolidge, Arizona
Creech, Carol A.	Phoenix, Arizona	Fox, Frances J.	Phoenix, Arizona
Creech, James D.	Phoenix, Arizona	Fox, L. Loreen	Phoenix, Arizona
Crittenden, Norma J.	Monterello, Utah	Franks, Betty J.	Casa Grande, Arizona
Crouch, Judy A.	Glendale, Arizona	Frank, Noel E.	Phoenix, Arizona
Crouse, Sara Mae	Louisville, Illinois	Frazee, Keith L.	Phoenix, Arizona
Crowder, James T. Jr.	Phoenix, Arizona	Francis, Wilbur F.	Phoenix, Arizona
Crowl, C. William	Phoenix, Arizona	Freesh, Mildred C.	Phoenix, Arizona
Crowe, Jerry D.	Farmington, New Mexico	Friend, Judith A.	Mesa, Arizona
Currier, Thomas J.	Phoenix, Arizona	Fryar, Mildred L.	Phoenix, Arizona
Dalmolin, Frances V.	Globe, Arizona	Fulghum, Thomas D.	Bisbee, Arizona
Daniel, Chester L.	Phoenix, Arizona	Fulton, Doris I.	Avondale, Arizona
Daniel, Dennis O.	Phoenix, Arizona	Gage, Mary L.	Phoenix, Arizona
Davenport, Howard B.	Phoenix, Arizona	Gallagher, Sharon L.	Phoenix, Arizona
Davidson, Nancy Lee	Grand Junction, Colorado	Gameros, Maria B.	Phoenix, Arizona
Davis, Freda L.	Tombstone, Arizona	Gandora, Richard E.	Safford, Arizona
Davis, Patricia A.	Tolleson, Arizona	Gardner, Gayle R.	Phoenix, Arizona
Day, Patricia L.	Pagosa, Springs, Colorado	Garrison, Margaret L.	Trussville, Alabama
Deaton, Shirley A.	Phoenix, Arizona	Gavenman, Lawrence L.	Scottsdale, Arizona
Decker, Mary A.	Belen, New Mexico	Gee, Gilbert S.	Springerville, Arizona
Deerhake, Carol P.	Scottsdale, Arizona	Geist, Edwin J.	Phoenix, Arizona
DeField, Joe W.	Benton City, Washington	George, Margaret J.	Phoenix, Arizona
Delgado, Teresa T.	Somerton, Arizona	Gibson, Dixie A.	Phoenix, Arizona
DeMarco, Philip E.	Glendale, Arizona	Gibson, Leo H.	Phoenix, Arizona
DePaul, William A.	Phoenix, Arizona	Gibson, Jeanene P.	Cheyenne, Wyoming
DeVilbiss, Glen A.	Farmington, New Mexico	Gilliam, Gary	Phoenix, Arizona
Devine, Donald	Phoenix, Arizona	Goble, Margery	Glendale, Arizona
Dibert, William H.	Phoenix, Arizona	Godsoe, Carl T.	Las Cruces, New Mexico
Dixon, John Robert	Memphis, Tennessee	Golden, Clyndine F.	Phoenix, Arizona
Dobson, Robert W.	Phoenix, Arizona	Golerz, Albert F.	Phoenix, Arizona
Dobbs, Roy H.	Phoenix, Arizona	Golub, Marvin	Phoenix, Arizona
Dodson, Esther L.	Owosso, Michigan	Goodnight, Verle L.	Winfield, Kansas
Dominquez, Adelle E.	Phoenix, Arizona	Goodson, Gail J.	Phoenix, Arizona
Donahoo, Randall W.	Fitchburg, Mass.	Goodson, James L.	Phoenix, Arizona
Dorsey, Christina M.	Phoenix, Arizona	Gordon, Mildred C.	Phoenix, Arizona
Dorsey, Janet E.	Phoenix, Arizona	Gorishek, Louis F.	Scottfield, Utah
Dorsey, Arlene L.	Phoenix, Arizona	Grace, Carron L.	Los Angeles, California
Downey, Karen K.	Tucson, Arizona	Grady, Barbara O.	Phoenix, Arizona
Drown, Robert J.	Phoenix, Arizona	Grant, Clovis C.	Glendale, Arizona
Druding, Anna L.	Phoenix, Arizona	Graham, Beverly G.	Phoenix, Arizona
DuVal, William H.	Phoenix, Arizona	Graham, Evelyn L.	Glendale, Arizona
Dyer, Clara R.	Phoenix, Arizona	Gray, Charles A. Jr.	Phoenix, Arizona
Eason, Opal L.	Phoenix, Arizona	Gray, George W.	Ringgold, Georgia
Eason, Robert F.	Alma, Oklahoma	Gray, Gayle D.	Ringgold, Georgia
Eaton, Asa T.	Glendale, Arizona	Green, Charles S.	Denver, Colorado
Eaton, Edna E.	Glendale, Arizona	Green, James A.	Tolleson, Arizona
Echeveste, Samuel	Phoenix, Arizona	Greene, Johnnye L.	Phoenix, Arizona
Eckles, Mildred E.	Willcox, Arizona	Greenway, William N.	Phoenix, Arizona
Eddy, Barbara A.	Phoenix, Arizona	Greer, Frances E.	Phoenix, Arizona
Elliott, Marlin G.	Phoenix, Arizona	Greer, J. Kay	Phoenix, Arizona
Elliott, Ruth E.	Glendale, Arizona	Griffith, Shirley I.	Dove Creek, Colorado
Embry, Thomas L.	Phoenix, Arizona	Grosbach, James D.	Phoenix, Arizona
Engelbreton, Richard M.	Phoenix, Arizona	Grote, Mary E.	Phoenix, Arizona
Ervin, Aurelia	Phoenix, Arizona	Gullick, Inella M.	Tuba City, Arizona
Eshelman, Donald L.	Phoenix, Arizona	Guymon, Jeanne	Phoenix, Arizona
Estes, Linda G.	Buckeye, Arizona	Haage, Edgar A.	Scottsdale, Arizona
Eulberg, John J.	Phoenix, Arizona	Haehl, Suzanne	Phoenix, Arizona
Evans, George V. Jr.	Dover, Delaware	Haines, Kenneth J.	Youngtown, Arizona
		Hahn, Anne L.	Tacoma, Washington
		Hahn, Mary F.	Wasco, California

Hale, Dennis R.	Phoenix, Arizona	Johnson, Gary L.	Phoenix, Arizona
Hale, Mary Anne	Phoenix, Arizona	Johnson, Millie R.	Phoenix, Arizona
Hale, Norma J.	Tolleson, Arizona	Johnson, Naomi V.	Mesa, Arizona
Hall, Delores Jane	Phoenix, Arizona	Johnston, J. James	Chandler, Arizona
Hall, Ralph E.	Phoenix, Arizona	Jones, Gordon G.	Glendale, Arizona
Hall, Russell K.	Phoenix, Arizona	Jones, James C.	Phoenix, Arizona
Hambley, Harold W.	Phoenix, Arizona	Jones, Nancy L.	Morenci, Arizona
Hamilton, Betty L.	Phoenix, Arizona	Jones, Judith A.	Yuma, Arizona
Hancock, Rosemary L.	Phoenix, Arizona	Jones, Roger P.	Phoenix, Arizona
Hankins, Everett	Phoenix, Arizona	Journell, Oleta M.	Phoenix, Arizona
Hanna, John R.	Tempe, Arizona	Junper, Jerry L.	Page, Arizona
Hardesty, Robert W.	Phoenix, Arizona	Karp, Sonia J.	Phoenix, Arizona
Harmon, Eldon L.	Scottsdale, Arizona	Kearley, Gary M.	Phoenix, Arizona
Harper, Donald G.	Glendale, Arizona	Kearns, Anna M.	Phoenix, Arizona
Harper, Hardy	Phoenix, Arizona	Keith, Lois N.	Phoenix, Arizona
Harrington, Theresa C.	Berkeley, California	Kelly, A. Gene	Phoenix, Arizona
Hartman, F. Joy	Glendale, Arizona	Kellison, Judy L.	Casa Grande, Arizona
Hartman, Mary V.	Glendale, Arizona	Kelly, Karen J.	Glendale, Arizona
Hartman, Robert G.	Glendale, Arizona	Kelton, E. Carolyn	Phoenix, Arizona
Harvey, Richard J.	Phoenix, Arizona	Kempin, Rosemary A.	Phoenix, Arizona
Hatch, Ruth S.	Phoenix, Arizona	Kendig, Leslie W.	Yakima, Washington
Hawkins, Leslie B.	Morenci, Arizona	Kennedy, Carole I.	Tawas, Michigan
Hawkins, M. Jean	Carmi, Illinois	Key, Meryl M.	Glendale, Arizona
Hayes, Walker L.	Phoenix, Arizona	Killingsworth, Maureen A.	Casa Grande, Arizona
Hazelton, Katherine E.	Phoenix, Arizona	Killingsworth, Margaret L.	Casa Grande, Arizona
Heard, Jimmie E.	Phoenix, Arizona	Kimbro, Carole N.	Phoenix, Arizona
Heath, Cleta J.	Phoenix, Arizona	Kimbell, Jered W.	Toledo, Ohio
Heath, Carol O.	Mesa, Arizona	Kinder, Troy E.	Phoenix, Arizona
Heath, M. Jane	Glendale, Arizona	King, Charles A.	Phoenix, Arizona
Hedges, Barbara A.	Glendale, Arizona	King, Dick H.	Phoenix, Arizona
Heflin, Louise L.	Phoenix, Arizona	King, Mary-Alice	Phoenix, Arizona
Heistand, Vera R.	Phoenix, Arizona	King, Patricia A.	Salt Lake, Utah
Helmhour, Norman E.	Gilbert, Arizona	Kirby, Grace H.	Phoenix, Arizona
Hendricks, Melba C.	Phoenix, Arizona	Kirk, Lewis D.	Phoenix, Arizona
Hennessy, Lenore A.	Phoenix, Arizona	Kirkland, Wilbur Dean	Casa Grande, Arizona
Henry, Vedyne C.	Buckeye, Arizona	Kitchens, Leroy	Mesa, Arizona
Hensley, Larry L.	Peoria, Arizona	Kjera, John M.	Phoenix, Arizona
Herrera, Eliseo	McAllen, Texas	Knaphus, Margaret	Phoenix, Arizona
Herring, David E.	Fort Worth, Texas	Knoblock, Myrna J.	Phoenix, Arizona
Herron, Sharon K.	Phoenix, Arizona	Koll, LaVerne H.	Phoenix, Arizona
Hessabi, Reza	Teheran, Iran	Koonz, John Richard	Peoria, Illinois
Hicks, J. Edward Jr.	Lowell, Arizona	Korb, Edward R.	Phoenix, Arizona
Hightower, Wilson M.	Prescott, Arizona	Kortan, Melvin J.	Phoenix, Arizona
Hilderbrand, Yvonne E.	Phoenix, Arizona	Kramer, Isidore	Phoenix, Arizona
Hill, John J.	Phoenix, Arizona	Kula, Alberta R.	Tempe, Arizona
Hinds, G. Ann	Phoenix, Arizona	LaBarre, Barbara J.	Los Angeles, California
Hinthorn, Mary Ann	Buckeye, Arizona	Lacey, Floyd E.	Humboldt, Tennessee
Hintno, Ivy	Phoenix, Arizona	Lacombe, Sally A.	Euclid, Ohio
Hlidak, Ruth M.	Phoenix, Arizona	Lamb, Foster D.	Coolidge, Arizona
Hobart, Edwin L.	Mesa, Arizona	Lamb, Walter E.	Coolidge, Arizona
Hodges, Barbara A.	Willcox, Arizona	Lambeth, James Paul	Phoenix, Arizona
Hoelzle, Gladys E.	Phoenix, Arizona	Lambros, James J.	Phoenix, Arizona
Hoelsel, John R.	Phoenix, Arizona	Lampe, Ruth M.	Phoenix, Arizona
Holliday, Edna Carol	Showlow, Arizona	Land, Vicki M.	Phoenix, Arizona
Hondrum, Harriet H.	Phoenix, Arizona	LANIER, Mary Louise	Anchorage, Alaska
Honsinger, Helen	Duncan, Arizona	Lathrop, Alma F.	Phoenix, Arizona
Hooper, Jacqueline F.	Phoenix, Arizona	Laughman, Arthiss M.	El Paso, Texas
Hopper, Donald Dean	Casa Grande, Arizona	Lauterbach, Kathleen	Phoenix, Arizona
Hoskins, Roger G.	Phoenix, Arizona	Lauterbach, Catherine G.	Phoenix, Arizona
Hoskins, Alma P.	Phoenix, Arizona	Lawes, Evelyn A.	Phoenix, Arizona
Howard, Edwin H.	Phoenix, Arizona	Lawes, Nancy C.	Phoenix, Arizona
Howe, Patricia A.	Phoenix, Arizona	Lawrence, Catherine A.	Boulder City, Nevada
Hoyt, Charles Y. F.	Phoenix, Arizona	Lawrence, Dorothy M.	Phoenix, Arizona
Hudspeth, Billy J.	Glendale, Arizona	Layne, Camille V.	New York, New York
Huerstel, Betty M.	Phoenix, Arizona	Ledbetter, Joann L.	Phoenix, Arizona
Hugh, E. Nancy F.	Arden, Ontario (Canada)	Leathers, Pauline W.	Phoenix, Arizona
Hull, Daniel L.	Glendale, Arizona	Leatherman, Conrath G.	Phoenix, Arizona
Hull, Eleanor J.	Glendale, Arizona	Leatherman, I. Lee	Phoenix, Arizona
Hull, Keith D.	Phoenix, Arizona	Lebs, Doris J.	Phoenix, Arizona
Hurt, Margaret L.	Luke AFB, Texas	Lee, Charles E.	Phoenix, Arizona
Hyde, Ann G.	Boulder City, Nevada	Lee, Alice E.	Phoenix, Arizona
Hwang, Jacob	Phoenix, Arizona	Lee, Ruth C. H.	Hong Kong, China
Inglish, G. Ross Jr.	Phoenix, Arizona	Lepinski, Patty L.	Phoenix, Arizona
Irons, Dolores I.	Glendale, Arizona	Le Sueur, Mary H.	Phoenix, Arizona
Jackson, Jerry L.	Casa Grande, Arizona	Lewis, Robert A.	Wood-Ridge, New Jersey
Jackson, Willard A.	Phoenix, Arizona	Lightfoot, Lona W.	Cactus, Arizona
Jaffee, Grace L.	Phoenix, Arizona	Limperis, Leon	Phoenix, Arizona
Jacobus, Marjorie A.	Phoenix, Arizona	Lindsey, J. Benjamin	Glendale, Arizona
Jakes, Nancy	Phoenix, Arizona	Linguist, Janet S.	Glendale, Arizona
Jakes, Paul R.	Phoenix, Arizona	Little, Mary E.	Glendale, Arizona
Jakes, T. Russell	Phoenix, Arizona	Little, Sherry B.	Phoenix, Arizona
Jenkins, Hugh E.	Phoenix, Arizona	Loewus, Frank A.	Phoenix, Arizona
Jenkins, Wilbur L.	Phoenix, Arizona	Long, Keith G.	Phoenix, Arizona
Jenkerson, Harold D.	Esther, Missouri	Lopez, Pete S.	Goodyear, Arizona
Johanson, Ross H.	Phoenix, Arizona	Lorentzen, Mollie	Phoenix, Arizona
Johnson, Doris J.	Phoenix, Arizona	Lowry, Richard V.	Scottsdale, Arizona

Luttrell, Pearl	Glendale, Arizona	Murphy, Kathleen A.	Glendale, Arizona
Lunsford, Robert R. Jr.	Tolleson, Arizona	Murrell, Reba	Phoenix, Arizona
Maley, Lucile A.	Phoenix, Arizona	Myers, Elizabeth A.	Phoenix, Arizona
Malakowsky, Marjorie B.	Phoenix, Arizona	Neely, Charles A.	Phoenix, Arizona
Maloney, Thomas V.	Phoenix, Arizona	Neely, Otto B., II	Tempe, Arizona
Manderson, Walter C.	Phoenix, Arizona	Neely, Reddy E. I.	Tempe, Arizona
Manera, Paul A.	Phoenix, Arizona	Neely, Unice R.	Tempe, Arizona
Mann, John A.	Phoenix, Arizona	Neil, Jesse M. Jr.	Peoria, Arizona
Manron, Jeanne P.	Phoenix, Arizona	Newhall, Celia A.	Page, Arizona
Marinkovich, Brenda L.	Phoenix, Arizona	New, Linda M.	Phoenix, Arizona
Marchbanks, Dorothy I.	Phoenix, Arizona	Newman, Emma N.	Phoenix, Arizona
Marek, Eleanor L.	Phoenix, Arizona	Newton, Sharon A.	Seligman, Arizona
Markham, Clara W.	Phoenix, Arizona	Nicholson, Mike T.	Springfield, Missouri
Markham, Virginia A.	Phoenix, Arizona	Nicol, Kenneth E.	Phoenix, Arizona
Martin, Eulah D.	Phoenix, Arizona	Nivin, Ann M.	Phoenix, Arizona
Martin, Harry G.	Phoenix, Arizona	Nix, DeWitt C.	Phoenix, Arizona
Martin, Sam L.	Phoenix, Arizona	Nix, Patsy C.	Phoenix, Arizona
Martinez, Angela V.	Phoenix, Arizona	Nix, Paul W.	Phoenix, Arizona
Martinez, Jorge A.	Phoenix, Arizona	Nolte, Ruth L.	Phoenix, Arizona
Mattox, Leonard R.	Phoenix, Arizona	Norris, Gloria J.	Phoenix, Arizona
Mattox, Rose E.	Phoenix, Arizona	Nutima, Andrew F.	Phoenix, Arizona
Mattson, Gary L.	Phoenix, Arizona	Oakes, Robert W.	Phoenix, Arizona
Mayo, Claribel E.	Glendale, Arizona	O'Connor, Charles R.	Phoenix, Arizona
McAllister, Linda L.	Glendale, Arizona	O'Connor, Geraldine D.	Phoenix, Arizona
McCain, Lewis H.	Glendale, Arizona	O'Connor, Lucile M.	Phoenix, Arizona
McCall, Patricia J.	Phoenix, Arizona	Ogden, Donald E.	Phoenix, Arizona
McCann, Roger C.	Peoria, Arizona	Ong, Wendy L.	Phoenix, Arizona
McCarry, Adela A.	Phoenix, Arizona	O'Neal, Carolyn D.	Morenci, Arizona
McCarry, Shirley A.	Oxnard, California	Ormand, Judy J.	Tucson, Arizona
McCarry, Sam	Phoenix, Arizona	Orr, Doyle Jay	Lead, South Dakota
McConnell, Virginia R.	Phoenix, Arizona	Overend, Patricia L.	Scottsdale, Arizona
McCollough, John W.	Phoenix, Arizona	Owenby, Eschol C.	Phoenix, Arizona
McCoy, Anna B.	Phoenix, Arizona	Owens, Mary A.	Prescott, Arizona
McCoy, James L.	Phoenix, Arizona	Owens, Melvin J.	Phoenix, Arizona
McCrea, Robert E.	Phoenix, Arizona	Pace, James M.	Phoenix, Arizona
McCullough, Eugenia M.	Phoenix, Arizona	Padfield, Judy M.	Chandler, Arizona
McCullough, Ted O.	Phoenix, Arizona	Paddock, Grace L.	Springerville, Arizona
McDaniel, Mary B.	Phoenix, Arizona	Painter, Helen M.	Phoenix, Arizona
McEvoy, James P.	Rochester, New York	Painter, Katherine A.	Phoenix, Arizona
McGuire, Mildred M.	Phoenix, Arizona	Pauley, Patricia S.	Prescott, Arizona
McKee, Anthony W.	Phoenix, Arizona	Paulus, Bruce B.	Asbury, New Jersey
McLain, Andrew D. III	Limestone, Maine	Payne, James R.	Phoenix, Arizona
McLeod, Sherrene K.	Phoenix, Arizona	Payne, Jeannine M.	Glendale, Arizona
McLendon, John W.	Kingman, Arizona	Pendergraft, Sarah, E.	Phoenix, Arizona
McLeroy, Joe C.	Roy, New Mexico	Penberthy, James C.	Phoenix, Arizona
McLeroy, L. Jim	Roy, New Mexico	Perkins, Robert T.	Baltimore, Maryland
McMurray, Janet A.	Phoenix, Arizona	Peters, Betty A.	Phoenix, Arizona
McMains, Belva J.	Phoenix, Arizona	Petrey, Carmel M.	Phoenix, Arizona
MacPhail, Leslie A.	LaCanada, California	Petznick, Earl A.	Phoenix, Arizona
McSpadden, Keith W.	Scottsdale, Arizona	Phares, Denny G.	Tolleson, Arizona
McTavish, Clifford J.	Pueblo, Colorado	Phares, Geneva	Tolleson, Arizona
Meadowcroft, L. Virginia	Phoenix, Arizona	Phillips, Harrut Margaret	Phoenix, Arizona
Meaney, Rita C.	Phoenix, Arizona	Phillips, Ruthanne	Bakersfield, Calif.
Meck, Tommy O.	Buckeye, Arizona	Phillips, William S.	Phoenix, Arizona
Melling, L. Duane	Phoenix, Arizona	Pierce, Margaret M.	Scottsdale, Arizona
Mendle, John J. Jr.	Glendale, Arizona	Pinkley, Evelyn P.	Phoenix, Arizona
Menne, David F.	Phoenix, Arizona	Polling, W. A.	Phoenix, Arizona
Mercer, Walter W.	Carrizozo, New Mexico	Pollard, Barbara R.	Alamosa, Colorado
Mercalf, Connie G.	Phoenix, Arizona	Pope, Barbara V.	Phoenix, Arizona
Mierkey, Patrick D.	Schofield, Wisconsin	Pope, Harold W.	Phoenix, Arizona
Mierkey, Jane L.	Phoenix, Arizona	Powell, Eta J.	Phoenix, Arizona
Miles, Dorothy D.	Phoenix, Arizona	Powell, Ernest Jr.	Phoenix, Arizona
Miller, Agnes O.	Phoenix, Arizona	Powell, Janice L.	Benson, Arizona
Miller, Eloise L.	Phoenix, Arizona	Powers, William E.	Phoenix, Arizona
Miller, Everett D.	Morenci, Arizona	Pravitz, Eleanor	Phoenix, Arizona
Miller, Nancy L.	Tempe, Arizona	Preovolos, Peter	Tucson, Arizona
Miller, Richard R.	Phoenix, Arizona	Pressler, Mary Ann	Phoenix, Arizona
Miller, Theodore E.	Winslow, Arizona	Price, Robert L.	Payson, Arizona
Milliken, Blair E.	Phoenix, Arizona	Pruett, Wayne L.	Phoenix, Arizona
Mills, Mary J.	Laveen, Arizona	Quass, David E.	Glendale, Arizona
Misenheimer, Ralph A.	Phoenix, Arizona	Rains, Calvin H.	Phoenix, Arizona
Molland, Leo M.	Glendale, Arizona	Ramer, Gary D.	Phoenix, Arizona
Moore, Ehen L.	Peoria, Arizona	Ramos, Margarita L.	Ajo, Arizona
Moore, Mary M.	Phoenix, Arizona	Raulston, Max E.	Gallup, N. Mex.
Moore, Martha N.	Phoenix, Arizona	Reed, Connie D.	Willcox, Arizona
Moore, Robert D.	Phoenix, Arizona	Reed, Edith E.	Phoenix, Arizona
Moreland, Winnie E.	Las Vegas, Nevada	Reedy, Carol J.	Peoria, Arizona
Morgan, Geneva E.	Phoenix, Arizona	Reedy, Douglas J.	Peoria, Arizona
Moritz, Judith A.	Phoenix, Arizona	Reid, Helen B.	Phoenix, Arizona
Morse, Richard L.	Phoenix, Arizona	Reid, Peggy	Silver City, N. Mexico
Mott, Cassandra L.	Phoenix, Arizona	Retter, Dorothy M.	Phoenix, Arizona
Mower, Diane E.	Phoenix, Arizona	Reynolds, Gerald	Morrisville, Vermont
Mulanax, G. Dale	Las Vegas, Nevada	Rhea, Norma	Phoenix, Arizona
Mulkey, John M.	Casa Grande, Arizona	Rheume, Ronald	Phoenix, Arizona
Mulkey, Suzanne R.	Casa Grande, Arizona	Rhodes, Dorothea	Phoenix, Arizona
Mullen, Jacque L.	Phoenix, Arizona	Rice, Dorothy T.	Glendale, Arizona

Rice, Robert B.	Phoenix, Arizona	Sova, Arlene B.	Phoenix, Arizona
Richards, Jim L.	Columbus, Georgia	Sparkman, Patsy	Tolleson, Arizona
Richmond, Frances June	Ignacio, Colo.	Spears, John C.	Pittsburgh, California
Riley, A. Baxter	Phoenix, Arizona	Spencer, Marie	Glendale, Arizona
Riley, Evann	Price, Utah	Spiele, Kathleen	Phoenix, Arizona
Riley, Jean H.	Phoenix, Arizona	Spivey, Dan H.	Bisbee, Arizona
Riley, Walter	Price, Utah	Squires, Darrell R.	Kirkwood, New York
Risinger, W. Alvin	Lomita, Calif.	Stanford, Kim	Clovis, New Mexico
Roberts, Leslie B., Jr.	Phoenix, Arizona	Stathopoulos, Andrew	Chicago, Illinois
Robinson, Charley A.	Phoenix, Arizona	Stearman, Helen I.	Phoenix, Arizona
Robinson, Harold E.	Phoenix, Arizona	Stearns, April	Phoenix, Arizona
Robinson, Pauline	Phoenix, Arizona	Steel, Elizabeth	Phoenix, Arizona
Rock, James V.	Phoenix, Arizona	Steele, Marlin D.	Phoenix, Arizona
Roden, Barbara	Tucson, Arizona	Stenhouse, Louise	Phoenix, Arizona
Rodriguez, Nemesio	Glendale, Arizona	Stenglín, Thelma T.	Phoenix, Arizona
Rodriguez, Teodora	Glendale, Arizona	Stephens, Claude D.	Buckeye, Arizona
Roepke, Karen	Milwaukee, Wisconsin	Stevens, LeRoy	Phoenix, Arizona
Rogers, James R.	Phoenix, Arizona	Stewart, Alvis E.	Phoenix, Arizona
Rogers, Rhea Gail	Glendale, Arizona	Stoneman, Nelda Fay	Provo, Utah
Rojas, Maria M.	Phoenix, Arizona	Strachan, Roger T.	Phoenix, Arizona
Romaine, Elizabeth	Phoenix, Arizona	Strait, David M.	Laveen, Arizona
Roseman, Carol L.	Phoenix, Arizona	Strass, Lois R.	Phoenix, Arizona
Roseman, Michael	Phoenix, Arizona	Strickland, Doris E.	Phoenix, Arizona
Rortier, Margaret A.	Loyal, Wisconsin	Stringer, Harriett	Buckeye, Arizona
Ruble, A. W.	Phoenix, Arizona	Stunell, Violer	Knoxville, Tenn.
Ruiz, Norma	Florence, Arizona	Surgeon, Betty Jo	Phoenix, Arizona
Ruiz, Theodore J.	Phoenix, Arizona	Suddarth, Jane K.	Phoenix, Arizona
Rummage, Bob Glenn	Phoenix, Arizona	Susunekewa, Eula	Phoenix, Arizona
Rutherford, Patricia	Phoenix, Arizona	Suter, Doris M.	Phoenix, Arizona
Ryberg, Martha Jo	Phoenix, Arizona	Swan, Raymond	Phoenix, Arizona
Ryals, Julia K.	Phoenix, Arizona	Swearingin, Jack E.	Phoenix, Arizona
Saad, Barbara M.	Phoenix, Arizona	Sweet, Judy J.	Phoenix, Arizona
Sanders, Carol Ann	Santa Rosa, Calif.	Swearingin, Thomas	Phoenix, Arizona
Sanders, John P.	Glendale, Arizona	Sypherd, Gola Faye	Phoenix, Arizona
Sanders, Oliver L.	Tucson, Arizona	Talley, Eugene	Phoenix, Arizona
Sanders, Richard L.	Santa Rosa, Calif.	Tapp, Christine	Phoenix, Arizona
Sartain, Bennaneal	Phoenix, Arizona	Taylor, Margaret	Phoenix, Arizona
Satachite, Claylene	Hillside, Arizona	Taylor, Charles A.	Eloy, Arizona
Satterfield, Adrienne	Phoenix, Arizona	Taylor, Clifford J.	Phoenix, Arizona
Sayers, Ralph M.	Phoenix, Arizona	Taylor, Paul	Okmulgee, Oklahoma
Sayre, Lola H.	Phoenix, Arizona	Tenney, Patricia	Prescott, Arizona
Scarborough, Diana	Yuma, Arizona	Therriault, Emerson	Globe, Arizona
Schardt, Evelyn J.	Phoenix, Arizona	Thomas, Alma F.	Phoenix, Arizona
Schilling, George J.	Phoenix, Arizona	Thomas, Ernest S.	Willcox, Arizona
Schmelzla, Nadine	Phoenix, Arizona	Thomas, Gladys	Glendale, Arizona
Schmidt, Fred N.	Phoenix, Arizona	Thomas, Judith L.	Glendale, Arizona
Schmidt, Julie Ann	Zion, Illinois	Thomas, Sheila G.	Phoenix, Arizona
Schneider, Gene B.	Phoenix, Arizona	Thompson, Barbara J.	Eloy, Arizona
Schram, Mary Jane	Glendale, Arizona	Thompson, Charlotte H.	Phoenix, Arizona
Schultz, Graydon N.	Glendale, Arizona	Thompson, Donald G.	Phoenix, Arizona
Schwartz Larry R.	Florence, Arizona	Thompson, Lyman E.	Phoenix, Arizona
Schwenn, Jan	Phoenix, Arizona	Thompson, Orrin J.	Phoenix, Arizona
Scott, Howard	Bronx, New York	Thompson, Tamara A.	Phoenix, Arizona
Scott, Janice E.	Phoenix, Arizona	Thompson, Wilma B.	Phoenix, Arizona
Scott, Roy T.	Glendale, Arizona	Thompson, William N.	Phoenix, Arizona
Scott, Ruth E.	Phoenix, Arizona	Thon, William C.	Phoenix, Arizona
Scott, Wilma Alberta	Phoenix, Arizona	Tidmore, Maynard E.	Tolleson, Arizona
Scotney, Patricia	Phoenix, Arizona	Tinder, Hazel G.	Phoenix, Arizona
Seidenberg, Janet	Tucson, Arizona	Tipton, John C.	Phoenix, Arizona
Seiple, Joyce E.	Phoenix, Arizona	Traber, Karl H.	Queens, New York
Seymour, Robert	Ellis Grove, Illinois	Treadaway, Carolyn	Morenci, Arizona
Shembab, Jerome L.	Phoenix, Arizona	Trent, Martha Jeannette	Glendale, Arizona
Sherod, Henry W.	Phoenix, Arizona	Tribbey, Perry G.	Mesa, Arizona
Sikes, Walter P.	Phoenix, Arizona	Trimmer, Barbara R.	Phoenix, Arizona
Simpson, Martin L.	Phoenix, Arizona	Trout, Jerri	Tolleson, Arizona
Singletary, Bettye Jo	Phoenix, Arizona	Trudeau, Helen M.	Phoenix, Arizona
Sirak, Dorothy M.	Phoenix, Arizona	Trudeau, Jack L.	Phoenix, Arizona
Siqueiros, Leo, Jr.	Tempe, Arizona	Tunnell, Frank W.	Phoenix, Arizona
Sisco, Ella Mae	Clifton, Arizona	Turner, Ronald Eugene	Eloy, Arizona
Slagle, Jacqueline	Phoenix, Arizona	Turner, Ronald Lee	Parsons, Kansas
Slowe, Lillian	Phoenix, Arizona	Tyler, Justin H.	Phoenix, Arizona
Smith, Debbie	Wickenburg, Arizona	Ueltrzen, John D.	Phoenix, Arizona
Smith, Edward	Phoenix, Arizona	Van Horn, Gary L.	Tucson, Arizona
Smith, Edwin B.	Phoenix, Arizona	Van Leer, Berry	Phoenix, Arizona
Smith, Gertrude O.	Phoenix, Arizona	Van Loon, Martin	Phoenix, Arizona
Smith, J. N.	Phoenix, Arizona	Van Sittert, Barbara	Phoenix, Arizona
Smith, Kenneth R.	Phoenix, Arizona	Vaughn, Dorothy J.	Phoenix, Arizona
Smith, Lois Jean	Phoenix, Arizona	Veit, Iracema L.	Peoria, Arizona
Smith, Mary H.	Phoenix, Arizona	Vice, Lyle J.	Fort Apache, Arizona
Smith, Loren R.	Phoenix, Arizona	Von Grabill, Louise	Phoenix, Arizona
Smith, Vergal R.	McLean, Texas	Waldon, Glenn H.	Phoenix, Arizona
Smith, Stephanie L.	Phoenix, Arizona	Walker, Arvel C.	Tucson, Arizona
Smith, Thomas A.	Phoenix, Arizona	Walker, Carl G.	Phoenix, Arizona
Smith, Junelle	Clearfield, Utah	Wallace, Robert F.	Tucson, Arizona
South, Lynn E.	Eloy, Arizona	Waller, Mary E.	Phoenix, Arizona
		Walling, Daryl V.	Phoenix, Arizona

Walters, Robert Bruce	Phoenix, Arizona	Wiley, Marsha M.	Phoenix, Arizona
Wang, Nancy H.	Phoenix, Arizona	Wilkinson, Bobbie J.	Glendale, Arizona
Ward, Jamie S.	Phoenix, Arizona	Wilkinson, Carol J.	Phoenix, Arizona
Ward, Larry W.	Phoenix, Arizona	Wilkinson, Troy J.	Glendale, Arizona
Ward, Martha A.	Phoenix, Arizona	Williams, Billy R.	Phoenix, Arizona
Warren, Harry R.	Scottsdale, Arizona	Williams, David M.	Phoenix, Arizona
Warren, William H.	Eloy, Arizona	Williams, Evelyn Grace	Phoenix, Arizona
Watkins, Virgil T.	Phoenix, Arizona	Williams, George M.	Phoenix, Arizona
Watson, Eva Lee	Phoenix, Arizona	Williams, Kenneth D.	Prescott, Arizona
Watson, Harvey Lee	Phoenix, Arizona	Williams, Mary Ann	Phoenix, Arizona
Watson, Thomas J.	Phoenix, Arizona	Williams, Murle	Phoenix, Arizona
Wattles, Ann M.	Sherwood, Michigan	Wilson, Myrtle M.	Novato, California
Weakley, Martha E.	Carthage, Tenn.	Wilson, Ruth R.	Phoenix, Arizona
Weaver, Mahlon C.	Phoenix, Arizona	Wimer, Spencer, D.	Phoenix, Arizona
Webb, Eleanor J.	Phoenix, Arizona	Winder, William J.	Phoenix, Arizona
Weese, Frances A.	Phoenix, Arizona	Winrow, Sarah	Phoenix, Arizona
Weller, Janet V.	Phoenix, Arizona	Winter, Richard A.	Phoenix, Arizona
Wellington, John E.	Glendale, Arizona	Wood, Alvin W.	Phoenix, Arizona
Werth, Carlene L.	Phoenix, Arizona	Wood, Ruth	Phoenix, Arizona
Weymouth, John F. Jr.	Houston, Texas	Wood, Thomas A.	Buckeye, Arizona
Wheeler, Patricia B.	Scottsdale, Arizona	Wood, Willard L.	Phoenix, Arizona
Whisner, Jaclyn M.	Phoenix, Arizona	Woodland, Myrtle	Glendale, Arizona
Whisner, Perry B.	Phoenix, Arizona	Woodruff, Marlys A.	Phoenix, Arizona
Whitcomb, Kay L.	Phoenix, Arizona	Woodruff, Ross L.	Phoenix, Arizona
White, L. Daniel	Jackson, Miss.	Woods, Gary D.	Phoenix, Arizona
White, Walter W.	Roy, Utah	Wright, Bill Frank	Phoenix, Arizona
Whitmore, Earl L.	Phoenix, Arizona	Wright, Virginia M.	Phoenix, Arizona
Whitney, Rosalyn F.	Glendale, Arizona	Yarhouse, Roger A.	Phoenix, Arizona
Whitworth, Lois C.	Phoenix, Arizona	Yee, Lily	Phoenix, Arizona
Wick, Jack C.	Glendale, Arizona	Young, Connie Helen	Phoenix, Arizona
Wilburn, Leo	Buckeye, Arizona	Yule, Dolpha D.	Gila Bend, Arizona
Wiley, Mark F.	Phoenix, Arizona	Zichterman, Mary L.	Coolidge, Arizona

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