

THE UNIVERSITY OF ARIZONA

CORRESPONDENCE

WASHINGTON

1973



E 9791
Univ. 10

Continuing Education

THE UNIVERSITY OF ARIZONA RECORD

Volume LXVI, No. 2

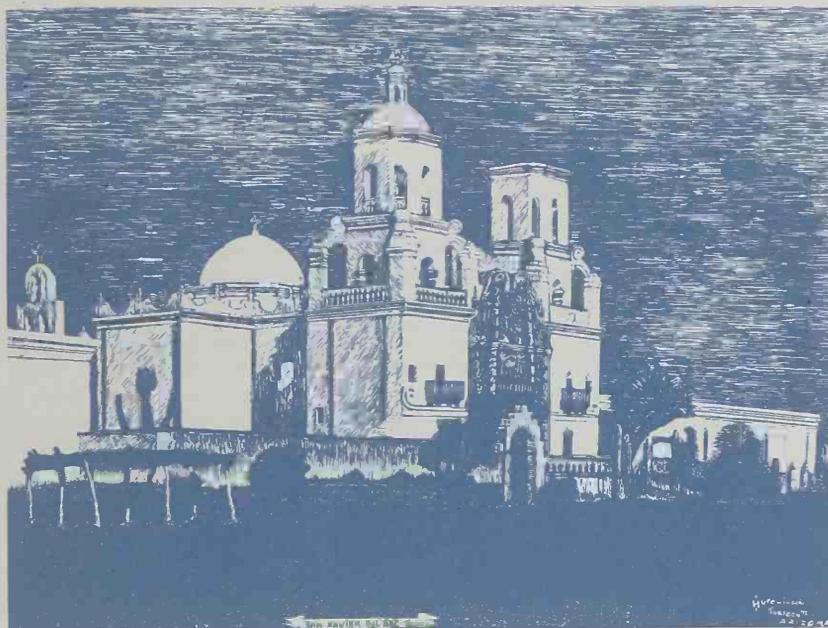
January 1973

Statement of Mailing Privilege

THE UNIVERSITY OF ARIZONA RECORD is issued seven times a year. Published monthly during July, August, and October and semi-monthly during April and June.

Entered as second-class matter April 28, 1933, at the post office at Tucson, Arizona, under the Act of August 24, 1912.

CORRESPONDENCE INSTRUCTION



CONTINUING EDUCATION

DIVISIONS OF THE UNIVERSITY

COLLEGE OF AGRICULTURE

School of Home Economics; **Departments of:** Agricultural Biochemistry, Agricultural Economics, Agricultural Education, Agronomy and Plant Genetics, Animal Science, Dairy and Food Sciences, Entomology, Horticulture and Landscape Architecture, Plant Pathology, Poultry Science, Soils, Water and Engineering, Veterinary Science, Watershed Management.

COLLEGE OF ARCHITECTURE

COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION

Departments of: Accounting, Committee on Urban Planning, Economics, Finance, Insurance and Real Estate, Geography and Area Development, Management, Marketing, Office Administration and Business Education, Public Administration.

COLLEGE OF EARTH SCIENCES

Departments of: Geosciences, Hydrology and Water Resources; Laboratory of Tree-Ring Research; Office of Arid Lands Studies.

COLLEGE OF EDUCATION

Graduate Library School; **Departments of:** Counseling and Guidance, Education (Foundations of Education), Educational Administration, Educational Psychology, Elementary Education, Reading; Rehabilitation, Secondary Education, Special Education.

COLLEGE OF ENGINEERING

Departments of: Aerospace and Mechanical Engineering, Civil Engineering and Engineering Mechanics, Electrical Engineering, Nuclear Engineering, Systems and Industrial Engineering.

COLLEGE OF FINE ARTS

School of Music; **Departments of:** Art, Drama, Radio-Television, Speech Communications, Speech and Hearing Sciences.

COLLEGE OF LAW

COLLEGE OF LIBERAL ARTS

Departments of: Anthropology, Astronomy, Atmospheric Sciences, Biological Sciences, Chemistry, Classics, English, German, Government, History, Journalism, Mathematics, Microbiology and Medical Technology, Oriental Studies, Philosophy, Physics, Planetary Sciences, Psychology, Romance Languages, Russian, Sociology.

COLLEGE OF MEDICINE

Departments of: Anatomy, Biochemistry, Family and Community Medicine, Internal Medicine, Microbiology, Obstetrics-Gynecology, Pathology, Pediatrics, Pharmacology, Physiology, Psychiatry, Radiology, Social Perspectives in Medicine, Surgery.

COLLEGE OF MINES

Departments of: Chemical Engineering, Metallurgical Engineering, Mining and Geological Engineering.

COLLEGE OF NURSING

COLLEGE OF PHARMACY

Departments of: Pharmaceutical Sciences, Pharmacology and Toxicology.

GRADUATE COLLEGE

Committees on: Agricultural Biochemistry and Nutrition, Animal Physiology, Biochemistry, Genetics, Linguistics, Optical Sciences, Statistics.

CONTINUING EDUCATION AND THE SUMMER SESSION

Evening Classes, Extension Courses, Correspondence Instruction, Conferences and Institutes, Summer Sessions.

GENERAL DEPARTMENTS

Department of Health, Physical Education, and Recreation. Department of Physical Education for Women. School of Military Science and Aerospace Studies.

THE UNIVERSITY LIBRARIES

DIVISIONS OF RESEARCH AND SPECIAL PUBLIC SERVICE

Agricultural Experiment Station, Arizona Bureau of Mines, Arizona Cooperative Fishery Unit, Arizona Cooperative Wildlife Research Unit, Arizona Poisoning Control Information Center, Arizona State Museum, Arizona Transportation and Traffic Institute, Bureau of Audiovisual Services, Bureau of Educational Research and Service, Bureau of Ethnic Research, Computer Center, Cooperative Extension Service, Division of Economic and Business Research, Engineering Experiment Station, Institute of Atmospheric Physics (including Environmental Research Laboratory), Institute of Government Research, Lunar and Planetary Laboratory, The Museum of Art, Optical Sciences Center, Radio-TV Bureau, Steward Observatory, Student Counseling Bureau, University Alumni Office, University Placement Service, The University Press, The University of Arizona Brazil Program, University Rehabilitation Center, Water Resources Research Center.

CORRESPONDENCE INSTRUCTION

Each Correspondence course offered by The University of Arizona is designed to parallel, as nearly as possible, the same course offered on campus. Textbooks, assignments and examinations have been prepared accordingly.

Courses are prepared in such a manner that each assignment is equivalent to one week's work during a regular term. There are five assignments including a final examination in one-unit course, nine assignments and a final examination in a two-unit course, and fourteen assignments and final examination in a three-unit course. The unit value is shown in parentheses after each course title.

Some courses are designated as "Directed Study" courses. "Directed Study" courses are divided into one, two, or three parts depending upon the units of credit offered. The instructor prepares a separate syllabus for each unit of credit and sets forth the reading assignments and exercises required to attain the objectives of that unit. When the student feels he has made satisfactory preparation to handle an examination over the unit he has studied, he notifies the instructor. The instructor then authorizes an examination over the unit. When examinations have been successfully completed for all units of a course, a final grade is recorded. In this type of program the student is not required to turn in assignments; he is given the option of working in any manner he desires to achieve the objectives of the course.

Correspondence courses present an opportunity for those unable to attend campus classes to continue their education. Those who have had college work can add to their academic record. Those who have never attended college can embark upon a program which may eventually lead them to a degree. Neither the age of the student nor the place of his residence is a deterring factor to the successful completion of a Correspondence program.

Successful Correspondence students, regardless of the subjects they may be taking, have two things in common. They have the interest and desire to complete a course. And they have the ability to exercise sufficient self-discipline to establish a definite study pattern and stay with it. When these factors are present success will follow.

Work is involved in any Correspondence course, possibly more than a student would do if he were enrolled in the same course on campus. However, there are also advantages in Correspondence courses. The student has a written record of his accomplishments, he is given individual attention by his instructor, he is able to set his own schedule of work, and he has the opportunity to discuss his assignments with his family and associates. The ultimate objective of the program is to stimulate the student to the degree that he will accomplish the work he is assigned to do.

GENERAL INFORMATION

Registration Students may register at any time by completing the Mail Registration Form (on the last page of this booklet) and returning it with tuition payment.

Students are advised to register for no more than one course at a time. In exceptional circumstances a student may register for two courses at one time. However, such registration is not recommended since it invariably works to the disadvantage of the student.

University of Arizona campus students must obtain the approval of the Dean of the College of their enrollment before they will be permitted to register.

Prospective students of other institutions are responsible for obtaining any authorization required from their institution prior to enrolling in a Correspondence course.

Course Numbering	<p>The prefix "4" has been designated to identify Correspondence courses. As an example, using the Biennial Catalog as a reference:</p> <p style="padding-left: 40px;">Govt. 2 becomes Govt. 4002 Hist. 55a becomes Hist. 4055a Mgmt. 101 becomes Mgmt. 4101</p> <p>Campus courses which carry four or five units of credit are divided into two separate parts when offered in Correspondence. Experience has shown this to be a more satisfactory method of presentation than including all work for a long course in one syllabus.</p>
Prerequisites	Prerequisites are listed for certain courses. This listing is intended to assist the student in the selection of courses.
Tuition	Tuition is \$16.00 for each unit of credit. Make checks payable to The University of Arizona.
Withdrawals	A student must withdraw from a course within 30 days of registration to be eligible for a refund. A full refund minus \$5.00 will be granted provided no lessons have been submitted and the course syllabus is returned in satisfactory condition.
Change of Study	<p>A student may change his course providing:</p> <ol style="list-style-type: none"> 1. He has submitted no assignments. 2. He returns intact the original course. 3. He pays a \$5.00 Transfer Fee. (This fee will be waived if the course change is requested within 10 days from the date of registration.)
Completion Time	<p>Students have one year from the date of registration to complete a course.</p> <p>Students, who follow the recommended procedure of completing one unit of work every five weeks, will find it possible to complete three or four courses during a year.</p>
Time Extensions	Time extensions are not granted. The possibility of a time extension encourages procrastination. This works to the disadvantage of the student, since it encourages poor study habits and erodes the self-discipline necessary to complete a course.
Enrollment Transfer Credit	<p>The transfer of enrollment from one individual to another is not permitted.</p> <p>The credit granted is in semester hours or units. A maximum of 60 semester hours of Correspondence work may be applied on an undergraduate degree at The University of Arizona.</p> <p>Students who plan to transfer credit to another institution should determine if the credit would be acceptable to that institution. This should be accomplished before registration.</p>
Graduate Credit	Graduate credit is not available for any Correspondence course.
Examinations	<p>Tucson area students take examinations on The University of Arizona campus. Students residing outside the Tucson area take examinations in their local community.</p> <p>Detailed instructions regarding examination procedures are provided with each course syllabus. Credit will not be granted for any course until the final examination has been completed.</p>

Grades Each student is sent a grade report upon the completion of a course. The University of Arizona's grading system is as follows:

Spring 1973		Effective Fall 1973	
1 — superior		A — superior	— 4 grade points
2 — above average		B — above average	— 3 grade points
3 — average		C — average	— 2 grade points
4 — below average		D — below average	— 1 grade points
5 — failure		E — failure	— 0 grade points

Deadlines There are occasions when a student needs to acquire credit by a specific date. It is the responsibility of such a student to complete his work at least 30 days in advance of the deadline. These deadlines usually come near the end of a semester at which time the student's instructor also has extra work to do and may be unavoidably delayed in handling assignments.

Textbooks Students may purchase textbooks whenever they are available or they may obtain them by placing a C.O.D. order with: Park Bookstore, Park Ave. and 5th St., The University of Arizona, Tucson, Arizona 85721.

Overseas Students C.O.D. postage service is not available to students residing overseas. Information regarding the total cost of books, tuition, and mailing service will be provided for any course upon request. Inquiries should be directed to General Extension Services, Room 18, Alumni Bldg., University of Arizona, Tucson, Arizona 85721.

USAFI The University of Arizona has a contract with the United States Armed Forces Institute (USAFI) by which Correspondence courses are made available to eligible military personnel. Interested personnel should contact the Education Office of the military installation to which they are assigned for further information.

Transcripts All transcripts must be requested from the Transcript Desk, Registrar's Office, The University of Arizona, Tucson, 85721.

Correspondence Courses

ACCOUNTING

- 4001 Principles of Accounting (3)** **Newton**
Fundamental concepts involved in accounting for assets, liabilities, and owners' equity; financial statements.
- 4003 Principles of Accounting (3)** **Newton**
Continuation of 4001. Introduction to concepts involved in uses of accounting data in the managerial process. P, Accounting 4001.

AEROSPACE AND MECHANICAL ENGINEERING

- 4061 Primary Ground School (2)** **Parks**
Elementary theory of flight, FAA regulations, navigation, meteorology, airplane nomenclature. Mainly a preparation for the FAA written examination for a private pilot's rating. A Directed Study Program.

AGRONOMY AND PLANT GENETICS

- 4005 Growth and Development of Plants (3)** **Dobrenz**
Germination, emergence, growth, and reproduction of important agronomic plant species and how these plant processes are influenced by the environment. (Identical with Horticulture and Landscape Architecture 4005).

AMERICAN INDIAN STUDIES

- 4085b Native Peoples of the Southwest (2)** **Kite**
(Identical with Anthropology 4085b).
- 4160 Ethnic Groups in the Southwest (3)** **Kite**
(Identical with Anthropology 4160).

ANIMAL SCIENCE

- 4114-1 Feeds and Feeding (1)** **Brown**
Selection, evaluation, and use of feeds for specific purposes. Balancing rations for livestock and poultry. (Identical with Dairy and Food Sci. 4114-1 and Poul. Sci. 4114-1).
- 4114-2 Feeds and Feeding (2)** **Brown**
Selection, evaluation, and use of feeds for specific purposes. Balancing rations for livestock and poultry. (Identical with Dairy and Food Sci. 4114-2 and Poul. Sci. 4114-2).

ANTHROPOLOGY

- 4001a Introduction to Anthropology (3)** **Bell**
Survey of physical anthropology and archaeology.
- 4001b Introduction to Anthropology (3)** **Bell**
Survey of linguistics and cultural anthropology. 4001a is not prerequisite to 4001b.

- 4085b **Native Peoples of the Southwest (2)** **Kite**
 Nontechnical discussion of the lifeways of the ancient and modern people of the Southwest. Present-day Indian groups. A Directed Study Program. (Identical with American Indian Studies 4085b).
- 4160 **Ethnic Groups in the Southwest (3)** **Kite**
 Interaction of ethnic groups of Indian, Spanish, Mexican, and Anglo cultural traditions in the Southwest. A Directed Study Program. (Identical with American Indian Studies 160). P, Anthropology 20.

DAIRY AND FOOD SCIENCES

- 4114-1 **Feeds and Feeding (1)** **Brown**
 Selection, evaluation, and use of feeds for specific purposes. Balancing rations for livestock and poultry. Emphasis on beef cattle. (Identical with Animal Science 4114-1 and Poultry Science 4114-1).
- 4114-2 **Feeds and Feeding (2)** **Brown**
 A continuation of Dairy and Food Sciences 4114-1 with emphasis on dairy cattle, horses, poultry, sheep and swine. (Identical with Animal Science 4114-2 and Poultry Science 4114-2).

ECONOMICS

- 4002a **Principles of Economics (3)** **Alessio**
 Nature of economics, introduction to price theory, national income and employment, money and banking, economic growth and stabilization.
- 4002b **Principles of Economics (3)** **Alessio**
 Price theory for the product market, factor prices, international economics.
- 4131 **Money and Banking (3)** **Alessio**
 Nature of money and credit; commercial banking; Federal Reserve System; monetary theories; domestic and international monetary policies. P, Econ. 4002b, or equivalent.

EDUCATIONAL PSYCHOLOGY

- 4110 **Learning in the Schools (3)** **Thornburg**
 Psychological processes and principles relevant to learning in the educational setting, including fundamental measurement concepts and techniques.
- 4257 **Evaluation of Classroom Learning (3)** **Knief**
 The principles underlying the making and using of informal objective examinations; practice in making and scoring such examinations; surveys of standard tests in the respective fields. P, Ed. Psych 4110.

ELEMENTARY EDUCATION

- 4120 **Elementary School Curriculum and Methods (3)** **Ranniger**
 Study of the contemporary elementary school curriculum and methods of teaching; emphasis on current trends and innovations. A Directed Study Program. P, Junior standing.
- 4122 **Language Arts in the Elementary School (3)** **Beeker**
 The teachings of language arts in the elementary school; special emphasis on current approaches and organization of methods and materials. A Directed Study Program. P, Junior standing.

ENGLISH

- 4065 Major American Writers (3)** Merren
Intensive study of selected works by major American authors. This course is a Humanities option in the College of Liberal Art.
- 4070a Survey of English Literature (3)** Gresham
Major British writers from the Middle Ages to the 20th Century. This course is a Humanities option in the College of Liberal Arts.
- 4206 Modern Grammar and Usage (3)** Connoley
The grammar of Modern English, a synthesis of effective principles from traditional, structural, and transformational sources, taught by methods apposite to the secondary school.
- 4231a Shakespeare (3)** Ackerman
Twelve comedies, histories and tragedies from the earlier period (1590-1600).
- 4231b Shakespeare (3)** Ackerman
Ten comedies, histories, and tragedies from the later period (1601-1613). 4231a is not prerequisite to 4231b.
- 4282 American Literature, 1800-1860 (3)** Merren
Survey of American literature emphasizing major writers from Irving through Melville.

ENTOMOLOGY

- 4105-a Economic Entomology (2)** Carruth
Insects affecting man and his interests, as illustrated by studies of the biology and control of representative species. P, 4 units of biological science.
- 4105-b Economic Entomology (2)** Carruth
A continuation of Entomology 4105-a.

FRENCH

- 4001a-1 Elementary French (2)** Goetinck
A course for beginners with no language background, emphasizing functional grammar, usage and composition, and reading. Tapes are optional.
- 4001a-2 Elementary French (2)** Goetinck
This is a continuation of Elementary French 4001a-1. P, French 4001a-1 or equivalent. Tapes are optional.
- 4001b-1 Elementary French (2)** Goetinck
Grammar, composition, and reading. This course is the third of a series of four courses which together are equivalent to the first year in French on the University campus. P, French 4001a or equivalent.
- 4001b-2 Elementary French (2)** Goetinck
This is a continuation of Elementary French 4001b-1. P, French 4001b-1 or equivalent.

GEOGRAPHY AND AREA DEVELOPMENT

- 4002a Human Geography (3)** Smith
Introduction to the main fields of human geography, with emphasis on world patterns of distribution and regional examples.

- 4002b Human Geography (3)** **Smith**
 This is a continuation of Geography 4002a. 4002a is not prerequisite to 4002b.
- 4003 Introduction to Physical Geography (3)** **Albertson**
 Analysis of weather, climate, vegetation, soil and landforms, with emphasis on world patterns, locational factors and interrelationships.

GEOSCIENCES

- 4001a Elementary Geology (3)** **Schumacher**
 Introduction to the principles of geology.

GERMAN

- 4001a-1 Elementary German (2)** **Woloshin**
 An elementary course in German and composition. Basic work in learning to read German. Study of German words.
- 4001a-2 Elementary German (2)** **Woloshin**
 A continuation of German 4001a-1. P, German 4001a-1 or equivalent.
- 4001b-1 Elementary German (2)** **Woloshin**
 An elementary course in German and composition. This course is the third of a series of four courses which together are equivalent to the first year in German on the University campus. P, German 4001a or equivalent.
- 4001b-2 Elementary German (2)** **Woloshin**
 A continuation of German 4001b-1. P, German 4001b-1 or equivalent.
- 4002a-1 Intermediate German (2)** **Woloshin**
 This course is the first of a series of four courses which together are equivalent to the second year in German on the University campus. P, German 4001b or 2 years of high school German.

GOVERNMENT

- 4002 American National Government (3)** **Crow**
 General survey of the constitutional bases, organization, and functioning of the American national government; recent and current trends.
- 4100 National and State Constitutions (3)** **Joyner**
 Meets the state requirement for a teacher's certificate. Govt. 4100 is equivalent to the combination of Govt. 4101 and Govt. 4102.
- 4101 Arizona Constitution (1)** **Joyner**
 Historical background, theory, structure, powers, interrelationships, and functions of the system of state and local government based upon the Arizona constitution.
- 4102 National Constitution (2)** **Joyner**
 A basic survey of the national government and its bases in the national constitution.
- 4248 Government and Politics of Mexico (3)** **Kelso**
 Historical background, organization, powers, and functions of national, state, and local government of the United Mexican States. A Directed Study Program.
- 4251b Soviet Foreign Policy and World Communism (3)** **Toma**
 International communist systems; integration and fragmentation; dominance of ruling parties; strategies and non-ruling parties. A Directed Study Program.

HEALTH, PHYSICAL EDUCATION AND RECREATION

- 4070 **First Aid (2)** King
Instruction in first-aid techniques leading to the Standard Red Cross Certificate and to the Advanced Certificate for qualified students. (Identical with PEW 50).
- 4071 **Secondary School Health Education (3)** King
Emphasis upon health science information pertaining to secondary school health instruction programs, community, and individual health problems. Credit will not be given for both HPER 4071 and 4075.
- 4075 **Elementary School Health Education (2)** King
Emphasis is upon health science information applicable to elementary health education classes. For students preparing to teach in elementary schools. Credit will not be given for both HPER 4071 and 4075.
- 4267 **International Health Problems (3)** King
Interprets the major health problems of not only the developed and emerging nations but also the situations in underdeveloped countries; the role of international health organizations in alleviation.
- 4271 **Safety Education and Accident Prevention (3)** King
Organization and administration of safety education in elementary and secondary schools with emphasis on accident prevention programs in athletics, physical education, and recreation, vocational training for industry; analysis of programs established in industry, and community.

HISTORY

- 4001a **Introduction to the History of the Western World (3)** Vignery
A survey of Western development from antiquity to the present, with emphasis on social and political institutions. A Directed Study Program.
- 4010a **History of the United States (3)** L. Dinnerstein
Political, economic, and social history of the American people from the founding of colonial Jamestown in 1607 to world leadership in the 1970's. A Directed Study Program.
- 4010b **History of the United States (3)** L. Dinnerstein
Continuation of History 4010a. A Directed Study Program.
- 4055a **History of England (3)** Cosgrove
Survey of the development of political, social, legal, and constitutional institutions in England from Roman Britain to the present. A Directed Study Program.
- 4055b **History of England (3)** Cosgrove
Continuation of History 4055a. A Directed Study Program.
- 4112 **The History of Black America (3)** M. Dinnerstein
History of the Blacks in the United States from their African origins until the present day. A Directed Study Program.
- 4208 **United States: 1945 to present (3)** L. Dinnerstein
American society and the role of the United States in world affairs from the Yalta Conference to the present. A Directed Study Program.
- 4248 **The French Revolution and Napoleon (3)** Vignery
The origins and progress of the Revolution in France. A Directed Study Program.
- 276 **Communist China (3)** Hedtke
(Identical with Oriental Studies 276).

HORTICULTURE AND LANDSCAPE ARCHITECTURE

- 4005 **Growth and Development of Plants (3)** **Dobrenz**
(Identical with Horticulture 4005).

JOURNALISM

- 4105 **Reporting the News (3)** **Mangelsdorf**
Gathering, evaluating, and writing news. P, Freshman Composition.
Knowledge of typing. Each assignment must be typed.
- 4166 **Public Relations (3)** **Conter**
(Identical with Marketing 4166).

MANAGEMENT

- 4101 **Personnel Management (3)** **Conter**
Policies and current practices in management of employees, at all levels,
in business firms. (Identical with Public Administration 4101.)
- 4120 **Business Law (3)** **Martin**
Nature and sources of business law; the judicial system; contract, sales,
and agency law.
- 4220 **Business Law (3)** **Martin**
Negotiable instruments, partnerships, corporations, and property rights.

MARKETING

- 4166 **Public Relations (3)** **Conter**
Nature and tools of public relations; some formulae for successful public
relations practice. Not acceptable for credit toward marketing major.
(Identical with Journalism 4166 and Radio-TV 4166).

MATHEMATICS

- 4003a-1 **Survey of Mathematical Thought (2)** **Brenner**
A study of the nature of mathematics and its role in civilization, utilizing
historical, biographical, and cultural approaches. This course is the first
half of 4003a. P, 2 units of high school mathematics.
- 4003a-2 **Survey of Mathematical Thought (2)** **Brenner**
A study of the nature of mathematics and its role in civilization, utilizing
historical, biographical, and cultural approaches. This course is the second
half of 4003a.
- 4011 **Intermediate Algebra (3)** **Foster**
No college credit will be given if this course is completed after August 1,
1973. P, 1 entrance unit in algebra.
- 4012a **Modern Elementary Mathematics (3)** **Foster**
Development of a basis for understanding the common processes of
arithmetic and geometry. P, 2 entrance units of high school mathematics.
For majors in Elementary Education only.
- 4020 **College Algebra (3)** **Foster**
P, 1½ entrance units in algebra or Math. 4011.
- 4024 **Plane Trigonometry (2)** **Foster**
P, 1 entrance unit in geometry and either 1½ entrance units in algebra
or Math. 4011.

- 4049a-1 Analytic Geometry and Calculus (3)** **Foster**
 This course is the beginning of a sequence which covers the standard material of Analytic Geometry and Calculus. For correspondence work this ten unit program is divided into four courses. P, Math 4020 and 4024.
- 4049a-2 Analytic Geometry and Calculus (2)** **Foster**
 This course is the second part of the sequence which covers the standard material of Analytic Geometry and Calculus.
- 4049b-1 Analytic Geometry and Calculus (3)** **Foster**
 This course is the third part of the sequence which covers the standard material of Analytic Geometry and Calculus.
- 4049b-2 Analytic Geometry and Calculus (2)** **Foster**
 This course is the fourth and last part of the sequence which covers the standard material of Analytic Geometry and Calculus.
- 4065 Finite Mathematics (3)** **Foster**
 Topics from set theory, matrices, and probability.
 P, Math 4020 or equivalent.
- 4066 Elements of Calculus (3)** **Foster**
 Elementary topics in differential and integral calculus.
 P, Math 4020 or equivalent.
- 4091 Introduction to Statistics (3)** **Brenner**
 Basic probability, uses of numerical data, useful probability distributions, estimation and hypothesis testing. P, 1½ entrance units in algebra or Math 4011. Not applicable to mathematics major in Liberal Arts.
- 4053-1 Linear Algebra and Differential Equations (2)** **Foster**
 Elements of linear algebra, general theory of linear differential equations, solutions of differential equations. P, Math 4049b or equivalent.
- 4053-2 Linear Algebra and Differential Equations (2)** **Foster**
 A continuation of Math 4053-1.

ORIENTAL STUDIES

- 4276 Communist China (3)** **Hedike**
 The origin and development of the Communist regime in China; analysis of its political, economic, and social organization and of its ideology and policies. A Directed Study Program. (Identical with History 276)

PHILOSOPHY

- 4011 Introduction to Philosophy (3)** **Bealmear**
 Selected basic philosophical areas and problems: knowledge, belief, and truth; the world and God; nature of persons; action and free will; the good life; the ideal community. This course is a Humanities option in the College of Liberal Arts.
- 4012 Introduction to Logic (3)** **Bealmear**
 Principles of valid argument; fallacies and effective argumentation; inductive inference; elements of symbolic logic.
- 4013 Introduction to Moral and Social Philosophy (3)** **Bealmear**
 Practical and frequently encountered moral problems; readings from representative moral and social philosophers. This course is a Humanities option in the College of Liberal Arts.

PHYSICAL EDUCATION FOR WOMEN

- 50 **First Aid (2)** **King**
(Identical with HPER 4070).

POULTRY SCIENCE

- 4114-1 **Feeds and Feeding (1)** **Brown**
(Identical with Animal Science 4114-1)
- 4114-2 **Feeds and Feeding (2)** **Brown**
(Identical with Animal Science 4114-2)

PSYCHOLOGY

- 4001a **Elementary Psychology (3)** **Marquart**
Growth and change of the individual; learning and conditioning principles; description of aptitudes and abilities.
- 4001b **Elementary Psychology (3)** **Marquart**
Introduction to perception, emotions, and personality organization. P, Psych. 4001a.

PUBLIC ADMINISTRATION

- 4101 **Personnel Management (3)** **Conter**
(Identical with Management 4101)

RADIO AND TELEVISION

- 4166 **Public Relations (3)** **Conter**
(Identical with Marketing 4166)

SECONDARY EDUCATION

- 4131 **Principles and Curricula of Secondary Education (3)** **Brown**
Historical development of the high school; aims, functions, and outcomes; the curriculum; relation to other divisions of the school system. A Directed Study Program.

SOCIOLOGY

- 4001 **Introduction to Sociology (3)** **Hannon**
Sociological concepts and principles with special reference to contemporary society.
- 4090 **Race Relations and Urban Society (3)** **Hannon**
Analysis of race relations and mass movements in urban society; trends in the modern world with special reference to present-day race problems and social conflict. P, Soc 4001.

SPANISH

- 4001a-1 **Elementary Spanish (2)** **Gregg**
The elements of Spanish grammar with exercises in reading and composition. This course is the first of series of four courses which together are equivalent to the first year in Spanish on the University campus.

- 4001a-2 Elementary Spanish (2)** **Gregg**
This is a continuation of Elementary Spanish 4001a-1. It is the second of a series of four courses which together are equivalent to the first year in Spanish on the University campus. P, Spanish 4001a-1 or equivalent.
- 4001b-1 Elementary Spanish (2)** **Gregg**
Grammar, composition, and reading. This course is the third of a series of four courses which together are equivalent to the first year in Spanish on the University campus. P, Spanish 4001a or equivalent.
- 4001b-2 Elementary Spanish (2)** **Gregg**
This is a continuation of Elementary Spanish 4001b-1. It is the fourth of a series of four courses which together are equivalent to the first year in Spanish on the University campus. P, Spanish 4001b-1 or equivalent.
- 4002a-1 Intermediate Spanish (2)** **Gregg**
This course is the first of a series of four courses which together are equivalent to the second year in Spanish on the University campus. P, Spanish 4001b or 2 years of high school Spanish.
- 4002a-2 Intermediate Spanish (2)** **Gregg**
This is the second of a series of four courses which together are equivalent to the second year in Spanish on the University campus. P, Spanish 4002a-1 or equivalent.
- 4002b-1 Intermediate Spanish (2)** **Gregg**
This is a continuation of Spanish 4002a. It is the third of a series of four courses which together are equivalent to the second year in Spanish on the University campus. P, Spanish 4002a or equivalent.
- 4002b-2 Intermediate Spanish (2)** **Gregg**
This is the fourth of a series of four courses which together are equivalent to the second year in Spanish on the University campus. P, Spanish 4002b-1 or equivalent.
- 4171a Commercial and Technical Spanish (2)** **Gregg**
P, Spanish 4002b or 4 years of high school Spanish.
- 4171b Commercial and Technical Spanish (2)** **Gregg**
A continuation of Spanish 4171a. P, Spanish 4171a.

OFFICERS OF ADMINISTRATION

John Paul Schaefer, Ph.D. (1963)	.....	President of the University
Albert Bruce Weaver, Ph.D. (1958)	.....	Executive Vice President
Samuel C. McMillan, M.B.A. (1960)	.....	Vice President for Planning and Development
Marvin D. Johnson, M.S. (1952)	.....	Vice President for University Relations
Sherwood E. Carr, C.P.A., M.B.A. (1954)	.....	Vice President for Business Affairs
Richard M. Edwards, Ph.D. (1959)	.....	Vice President for Student Relations



DIVISION OF CONTINUING EDUCATION AND THE SUMMER SESSION

Pendleton Gaines, Ph.D., L.H.D. (1959)	.....	Dean of Continuing Education and the Summer Session
Edgar E. Louttit, M.Ed. (1967)	.....	Associate Dean of Continuing Education and the Summer Session
Richard Bruce Crowell, Ph.D. (1972)	.....	Assistant Dean of Continuing Education and the Summer Session
Benjamin H. Pochyla, B.S. (1966)	.....	Director of Conferences and Institutes
Lyman L. Darcy, M.A. (1964)	.....	Director of General Extension and Correspondence
Carlos A. Felix, M. A. (1969)	.....	Director of Adult Education
Currin V. Shields, Ph.D. (1972)	.....	Director of Community Services
John Swenson, B.A. (1968)	.....	Coordinator of Business Conferences
Marcus Allan Peel, M.B.A. (1970)	.....	Coordinator of Engineering and Mining Conferences
Max E. Moe, B.F.A. (1968)	.....	Coordinator of Traffic Safety Education
Thomas P. Smith, B.S. (1971)	.....	Field Coordinator of Distributive Education
Vincent J. Riggs, M.A. (1971)	.....	General Extension Specialist
Robert D. Dwan, M.A. (1971)	.....	Assistant Director of General Extension and Correspondence Instruction
William L. Raby, C.P.A., Ph.D. (1964)	.....	Director, Tax Practitioners' Institute
Marialyce Conter, B.A. (1968)	.....	Coordinator of Publications



THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721
CONTINUING EDUCATION
AND THE SUMMER SESSION
DIRECTOR OF CORRESPONDENCE INSTRUCTION
GENERAL EXTENSION SERVICES