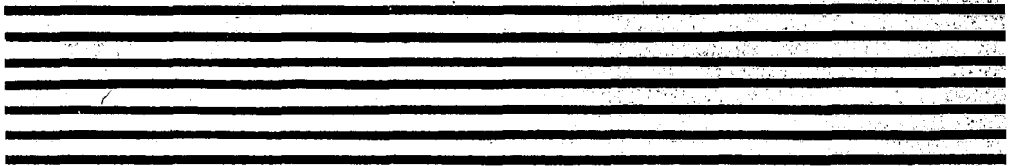
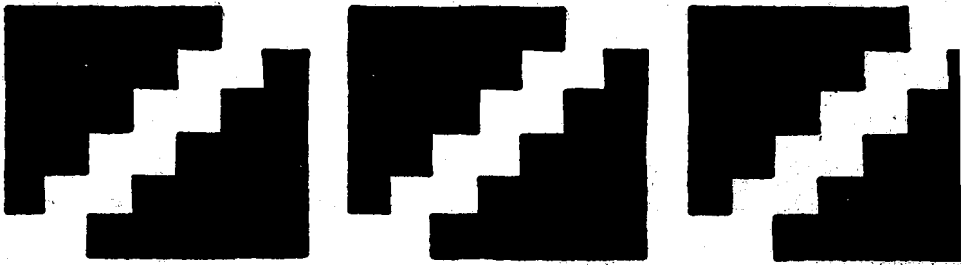


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The University of New Mexico



BULLETIN

1948-49 CATALOG ISSUE

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**The
University
of New Mexico**

Bulletin



**Fifty-Seventh Catalog Issue
1948-1949**

Whole Number 418

Catalog Series, Volume 61, No. 1

March, 1948

Published bi-monthly by the University of New Mexico, Albuquerque, New Mexico

Entered as Second Class Matter, May 1, 1906, at the post office at

Albuquerque, New Mexico, under Act of Congress of

July 16, 1894

THE UNIVERSITY OF NEW MEXICO PRESS

1948

1948

JULY							AUGUST							SEPTEMBER						
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1949

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24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		

CALENDAR OF THE UNIVERSITY

SUMMER SESSION, 1948

New Students, Tests and Instructions June 11, Friday
 Registration June 12, Saturday
 Instruction Begins; Late Registration Fee Applies June 14, Monday
 Registration Closes; Last Day for Additions to Programs of Study;
 Change of Program Fee Applies June 19, Saturday
 Session Ends August 7, Saturday, 10:00 p.m.

FIELD SESSIONS, 1948

Anthropology:

General Field Session, Albuquerque June 14-July 24,
 Monday-Saturday
 Advanced Field Session, Northern Utah June 14-July 24,
 Monday-Saturday

Art:

Taos Field School of the Arts June 11-August 7,
 Friday-Saturday

Geology:

Geology Field Session, La Madera June 12-August 7,
 Saturday-Saturday

SEMESTER I, 1948-49

New Students, Tests and Instructions September 13-14-15, Monday-
 Tuesday-Wednesday
 Registration September 16-17-18, Thursday-
 Friday-Saturday
 Instruction Begins; Late Registration Fee Applies September 20, Monday
 Registration Closes; Last Day for Additions to Programs of Study;
 Change of Program Fee Applies October 2, Saturday
 Homecoming, Holiday November 6, Saturday
 Mid-Semester November 13, Saturday
 Thanksgiving Recess Begins November 24, Wednesday, 10:00 p.m.
 Classes Resume November 29, Monday, 7:00 a.m.
 End of Twelfth Week; Last Day for Removal of Incomplete Grades
 December 11, Saturday
 Christmas Recess Begins December 18, Saturday, 10:00 p.m.
 Classes Resume January 3, Monday, 7:00 a.m.
 Pre-examination Week January 17-24, Monday-Monday
 Semester Final Examinations January 24-29, Monday-Saturday
 Semester Ends January 29, Saturday, 10:00 p.m.

SEMESTER II, 1948-49

New Students, Tests and Instructions February 1-2, Tuesday-Wednesday
 Registration February 3-4-5, Thursday-Friday-Saturday
 Instruction Begins; Late Registration Fee Applies February 7, Monday
 Registration Closes; Last Day for Additions to Programs of Study;
 Change of Program Fee Applies February 19, Saturday

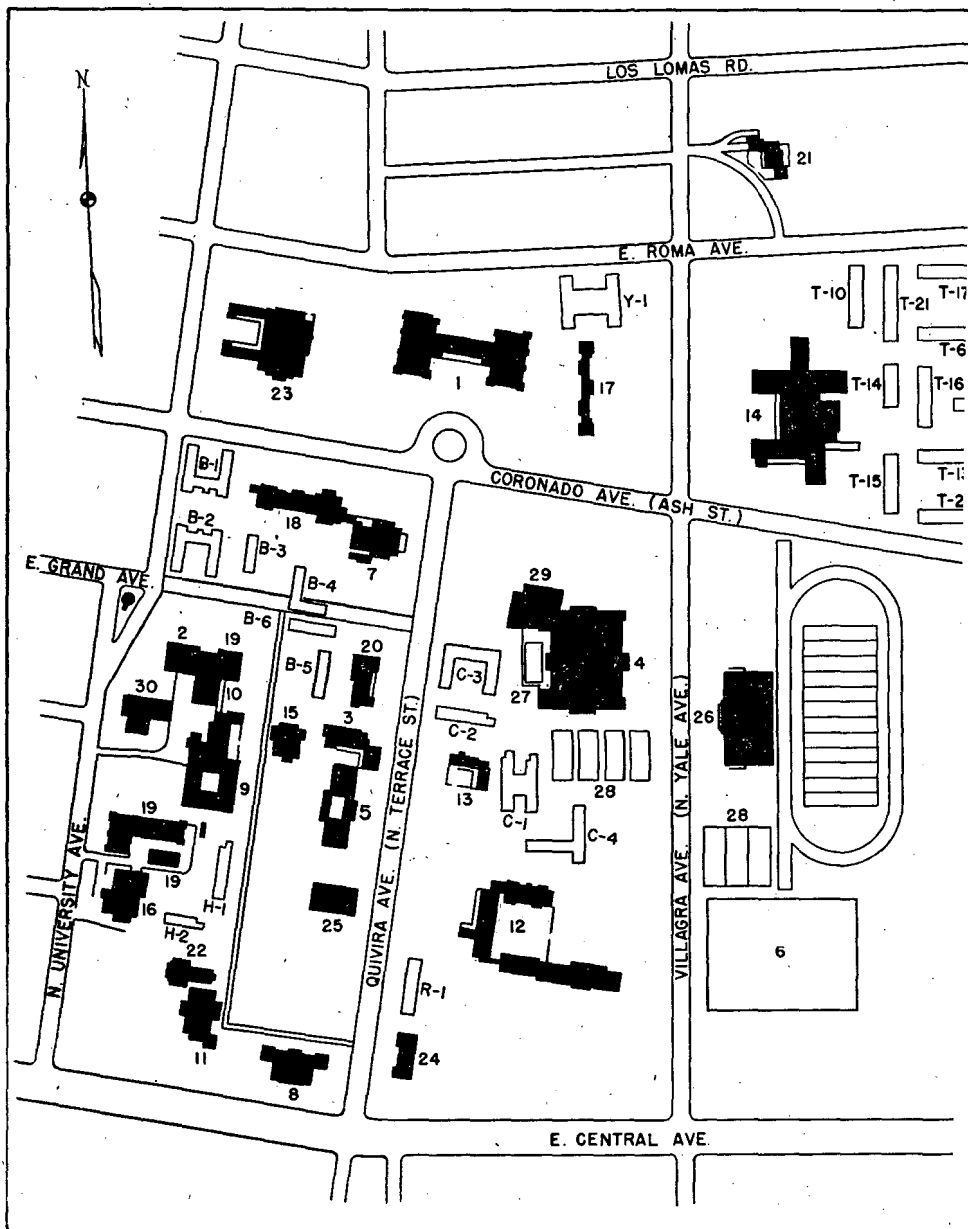
Mid-Semester	April 2, Saturday
Easter Recess Begins	April 13, Wednesday, 10:00 p.m.
Classes Resume	April 18, Monday, 7:00 a.m.
End of Twelfth Week; Last Day for Removal of Incomplete Grades.....	
	April 30, Saturday
Pre-Examination Week	May 23-30, Monday-Monday
Semester Final Examinations	May 30-June 4, Monday-Saturday
Semester Ends	June 4, Saturday
Baccalaureate Service	June 5, Sunday
Commencement Exercises	June 6, Monday

SUMMER SESSION, 1949

New Students, Tests and Instructions	June 10, Friday
Registration	June 11, Saturday
Instruction Begins; Late Registration Fee Applies	June 13, Monday
Registration Closes; Last Day for Additions to Programs of Study;	
Change of Program Fee Applies	June 18, Saturday
Independence Day, Holiday	July 4, Monday
Session Ends	August 6, Saturday

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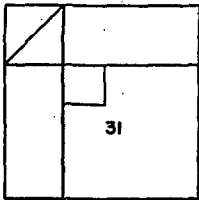


CAMPUS OF THE UNIVERSITY OF NEW MEXICO

100 50 0 100 200 300 400 500

KEY TO BUILDINGS

1. Administration Building
2. Aeronautical Laboratory
3. Parsons Hall (Biology)
4. Carlisle Gymnasium
5. Chemistry
6. City Reservoir
7. Dining Hall
8. Fine Arts
9. Hadley Hall (Engineering)
10. Engineering Building
11. Hodgkin Hall
12. Hokona Hall (Women's Dormitory)
13. Inter-American Affairs
14. Library
15. Lecture Hall
16. Maintenance Shop
17. Yatoka Hall
18. Bandelier Hall (Women's Dormitory)
19. Mechanical Engineering
20. Public Health Laboratory
21. President's Home
22. Rodey Hall
23. Student Union Building
24. Sara Raynolds Hall
25. Music Building
26. Stadium
27. Swimming Pool
28. Tennis Courts
29. Printing Plant
30. Chemical Engineering
31. Baseball Field
- B-1. Classrooms, offices, Speech laboratories
- B-2. Classrooms, laboratories, offices
- B-3. Offices, Journalism laboratories
- B-4. Classrooms, Public Relations
- B-5. Offices, Biology laboratories
- B-6. Classrooms, Art Education
- C-1. Classrooms, Chemistry laboratories
- C-2. Classrooms, Music rooms
- C-3. Post office, Institute of Meteorology, Press editorial offices
- C-4. Classrooms, offices, laboratories, Business Research
- H-1. Classrooms, Engineering
- H-2. Police Headquarters
- T-10. Infirmary
- T-20. Women's Recreation Building
- Y-1. Classrooms



CIBOLA AVE. (N. CORNELL AVE.)

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THE PURPOSE of higher education and of the University of New Mexico is the preparation of youth in body and mind for useful, intelligent, and noble living in a world which seeks as its ultimate goal the dignity and freedom of mankind. Through the media of instruction, research, and original investigation, the University endeavors to place the resources of higher education of the state at the disposal of its citizens.

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The University has been a member of the North Central Association of Colleges and Secondary Schools since 1922. Approval of the Association of American Universities was given to the University in 1933, and the American Association of University Women recognized the University in the same year. In 1937 the College of Engineering was approved by the Engineering Council for Professional Development; in 1947, provisional approval was given to the College of Pharmacy, by the American Council on Pharmaceutical Education.

SITUATION

The University is situated in Albuquerque, a metropolitan area of 90,000 inhabitants. The elevation of the campus is over 5,000 feet above sea level. The climate is mild throughout the year. Albuquerque is noted for its dry and sunny weather.

The city is on the main line of the A. T. & S. F. Railway and is served by transcontinental bus and air lines. U. S. Highways 66 (the Will Rogers Highway) and 85 intersect at Albuquerque.

Historic Santa Fe is approximately sixty miles to the north, and the picturesque Indian pueblos of Taos, Jemez, Isleta, and Acoma are within easy driving distance.

HISTORY

The University of New Mexico was created by an act of the Territorial Legislature in 1889, opened as a summer normal school on June 15, 1892, and began full-term instruction on September 21

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of the same year. Its development in the fifty-seven years since its inception has been extraordinary. The 20 acres allotted by Territorial Legislature for a campus have become more than 400; buildings have increased from a single structure to sixty-three. Enrollment has grown from one college enrollee in 1895-96 to 4,496 registered in the fall of 1947.

The development of new colleges and divisions has kept pace with the physical growth of the institution. The College Department became the College of Literature and Arts in 1898, later changing to its present title of College of Arts and Sciences. The College of Engineering opened in 1906, and the Graduate School and Extension Division, in 1919. In 1928, the College of Education was created; in 1935, the General College; and in 1936, the College of Fine Arts. A unit of the United States Naval Reserve Officers Training Corps was established May 20, 1941. The School of Inter-American Affairs was instituted during the same year. In 1945, the following new divisions became an active part of the University program: the College of Pharmacy, the Division of Governmental Research, and the Bureau of Business Research. In 1946, the Division of Research and Development and the Institute of Meteoritics were added to the University's research program. The College of Business Administration and the College of Law were organized in the fall of 1947. The University has 38 instructional departments; work leading to the master's degree is offered in 24 departments, and toward the doctor's degree in seven.

University administrators have for many years realized that the situation of the University of New Mexico provides it with a wealth of source material in the historical and archaeological background of the nation, and that its proximity to the Indian, Spanish, and Mexican cultures makes it a natural place for the study and appreciation of those cultures. They have, therefore, encouraged the development of Southwestern and Latin American studies and research. Some tangible evidences of this interest are found in the uniform architectural style (a modification of the Indian pueblo), which has been described as "The outstanding example of the effective use of regional architecture in the United States," the incorporation of the School of Inter-American Affairs, the maintenance of the Chaco Canyon site for anthropological research, the presence on the faculty of outstanding Latin American artists and scholars, the awarding of honorary degrees to a group of distinguished Mexican educators, and the various examples of Indian, Mexican, and Spanish-American painting, carving, and weaving to be found throughout the campus buildings.

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GOVERNMENT AND SUPPORT

The government of the University is vested in the Regents and the Faculty. Five Regents are appointed by the Governor of the state for a term of four years; the Governor and the Superintendent of Public Instruction are ex-officio members of the Regents.

The University is supported chiefly by appropriations made by the State Legislature, by income from the rental of lands granted to it by the Federal Government, by the income from royalties on the oil taken from these lands, and by student fees.

CAMPUS AND BUILDINGS

The campus of the University is in the eastern section of the city of Albuquerque, and within ten miles of the Sandia Mountains. The University's architectural style, a modification of the Indian pueblo, was adopted in 1905. The campus buildings include: Hodgin Hall, housing the College of Education; Yatoka Hall; the maintenance shop; residential halls: Hokona, Marron Hall, Bandelier, and Mesa Vista; Rodey Hall (the campus theater); Music Building; Chemistry Building; Hadley Hall (the engineering building); Sara Raynolds Hall (home economics building); Press Building; Fine Arts Building; Parsons Hall (biology building); Lecture Hall; Carlisle Gymnasium; President's Residence; Dining Hall; Stadium Building; Administration Building; State Public Health Laboratory; Student Union Building; Mechanical Engineering Building; Central Heating Plant; the Library; Inter-American Affairs Building; Aeronautical Laboratory; the Infirmary; and several temporary buildings housing classrooms, laboratories and offices.

THE LIBRARY

BUILDING. The University Library offers excellent facilities for students. It is housed in a pueblo style building, completed in 1938, which has an ultimate book capacity of 225,000 volumes, and can provide reading and study facilities for 700 persons, in five large reading rooms, smaller special rooms, and individual study units. Also included in the building are seminar rooms, faculty offices, special collection rooms, a well-equipped photographic laboratory, and a vault for rare materials. The Law Library is housed separately.

RESOURCES. Library collections include 145,000 cataloged and accessioned volumes, several thousand other cataloged serials and pamphlets, 2,600 filing boxes of manuscripts, documents and other archival material, 542 reels of microfilm, 13,300 maps, several thousand pamphlets and pictures, and 346 sound recordings. These

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resources provide adequate study and research facilities for undergraduate work and for the special fields in which graduate work is offered.

LAW LIBRARY. The College of Law Library, housed separately with the law school, received an auspicious start through donation of the Francis C. Wilson, Francis E. Wood and other private law library collections. It contains 14,500 volumes and is being augmented by approximately 250 volumes each month. The library includes comprehensive collections of British, Federal and state court reports, including special and annotated series, session laws, current state and Federal statutes, legal treatises, periodicals, encyclopedias and digests, administrative reports and other classes of legal materials.

SPECIAL COLLECTIONS. The Coronado Library is an extensive collection of books and other materials concerning the history and culture of the Southwest in general and New Mexico in particular. It contains state publications, books about New Mexico and by New Mexico authors; several hundred bound volumes of photostats of the archives of Spain, Mexico, and New Mexico; letters, manuscripts, documents, and the state archival materials assembled by the U. S. Historical Records Survey.

The Van de Velde Collection of Mexican materials consisting of 8,686 bound volumes, 93 maps, and fifty linear feet of pamphlets was purchased in 1939 by a special appropriation of the State Legislature. It contains much rare and valuable material dealing with history, archaeology, ethnology, geology, folklore, literature, and art of Mexico.

The Catron Collection, of 9,574 volumes, is an extensive and valuable library begun by Thomas B. Catron and deposited with the University Library by his sons, C. C. Catron, T. B. Catron, F. A. Catron, and J. W. Catron. Outstanding items are several hundred Spanish and Mexican publications of the Sixteenth to Nineteenth centuries, and 375 filing cases and books of letters and documents dealing with territorial New Mexico events, particularly the land grant system of the state.

The Otero Collection, given by former Governor and Mrs. Miguel A. Otero in 1939, contains 465 volumes on the Southwest and general fields, as well as a valuable manuscript and museum collection.

The Field Collection of old Spanish and Mexican art, which includes 96 pieces of silver and 69 other art objects, was given by the estate of Will B. and Mary Lester Field in 1939.

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USE OF THE LIBRARY. The Library is open to all students in all departments of the University. In addition to serving the students and faculty, and subject to their needs, the Library is available for use by citizens of the state, by permission.

Books withdrawn for home use may be kept two weeks, with the privilege of renewal. Reserved books may be used only according to rules posted at the Reserve desk; reference books may not be taken from the Reference Room. Fines are charged for the late return of books.

HOURS. The Library is open from 8:00 a. m. to 6:00 p. m. and 7:00 to 10:00 p. m., Mondays through Fridays; from 8:00 a. m. to 5:00 p. m. Saturdays; and Sundays, from 1:30 to 5:30 p. m.

MUSEUMS AND EXHIBITIONS

ANTHROPOLOGY MUSEUM

(Administration Building) A museum hall, in connection with the Department of Anthropology, houses varied material of anthropologic interest. The prehistoric cultures of the American Southwest, Mexico, and Peru are well represented. Study collections of the European Paleolithic, Mesolithic, and Neolithic periods are on display. In the ethnologic field, type exhibits portray the material cultures of the Eskimo, North Pacific Coast, Plains, and Southwestern areas. Recent additions to the Museum collections include the Schweitzer Collection of Navaho Blankets, material on the palaeo-Indian, and varied collections from Texas.

GEOLOGY MUSEUM

(Administration Building) The Geology Museum has a double purpose: it is designed to serve the general public and to supplement the instructional program. Exhibits include a systematic series of minerals, a stratigraphic series of fossil animals and plants, a paleontologic series of fossil and modern invertebrates, and systematic series of igneous and sedimentary rocks. Other notable features are a type collection of New Mexico meteorites, an exhibit illustrating how fossils are preserved, displays of strategic minerals and of polished ores, and an unusually fine fluorescence-phosphorescence exhibit.

FINE ARTS GALLERY

A continuous exhibition program throughout the school year in the Gallery of the Fine Arts Building is made possible by the joint sponsorship of the Department of Art and the Art League of New Mexico. Four annual exhibitions are scheduled: Albuquerque Artists, the Student Exhibition, the Faculty Exhibition, and the

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Delta Phi Delta (National Art Honorary Fraternity) Show. Besides these, there are numerous group and individual shows. New Mexico stands among the first of the states in the number of recognized artists resident within its borders. Their presence makes it possible for the University to maintain a high standard of excellence in its exhibitions.

Four important murals may be seen on the campus: several panels each by Raymond Jonson and the late Willard Nash, on view in the Fine Arts Building; four panels in the University Library by Kenneth M. Adams, A.N.A.; and a large fresco in the Administration Building by Jesus Guerrero Galván, recently Latin-American Artist in Residence.

RESEARCH ACTIVITIES

THE BUREAU OF BUSINESS RESEARCH

Ralph L. Edgel, Assistant Professor of Economics and Business Administration, Director; Robert G. Conway, Instructor in Economics, Research Associate; Alan D. Carey, Instructor in Business Administration, Statistician.

The Bureau of Business Research, established July, 1945, is an integral part of the College of Business Administration. Its purpose is to promote the economic welfare of the state through investigation and study of economic and business problems and the dissemination of information. More specifically its objectives are to promote the development and intelligent utilization of the State's resources and full employment for its people; to assist businesses in dealing with their problems of marketing, internal operations, and planning for the future; to encourage the pursuit of business and economic research on the part of students and faculty; and to provide a medium through which the skills and talents of the College of Business Administration and the University as a whole may be made of assistance to the community.

The basic activities of the Bureau consist of gathering, analyzing, and interpreting data concerning the economic life of the state—its population, natural resources, employment opportunities, income, business activities, and markets. Studies are initiated by the Bureau or are undertaken for business concerns or other interested organizations. In order that the results of these studies may be utilized, information is disseminated through Bureau publications, the press, and over the radio. In addition to its special studies, the Bureau attempts to keep in touch with the current business situation, both locally and nationally. So that businessmen and others in the state may have access to this information, a monthly *Review of New*

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Mexico Business is published which carries indexes of business activity and short articles concerning business conditions. The Bureau also acts in the capacity of consultant to those who want to avail themselves of its services, and sponsors conferences at which businessmen, civic leaders, and scholars may meet for the purpose of exchanging information and pooling their resources toward the solution of common problems.

THE DIVISION OF RESEARCH AND DEVELOPMENT

Members of the Board of the Division of Research and Development: Sherman E. Smith, Professor of Chemistry, Chairman; George M. Peterson, Professor of Psychology, Secretary; Vincent Kelley, Professor of Geology; Tom L. Popejoy, Comptroller; W. C. Wagner, Professor of Civil Engineering.

Technical Director of the Division of Research and Development: Dexter H. Reynolds, Research Professor.

The Division of Research and Development was chartered by the Regents of the University in April of 1946. The purpose of the Division, as set forth in its charter, is "to promote scientific, social, humanistic, and industrial research, to make available the results of such research and to acquaint the public with the facilities of the University, in the interest of a fuller development of the human and natural resources of the State."

Control of the Division is vested in a Board composed of five faculty members appointed annually by the President, to serve from October 1 to the following September 30. Activities of the Division are supervised by the Technical Director. The Division is the University's agent in the negotiation of contracts for research or development with non-University agencies or individuals. It seeks also to provide financial support for worthy projects arising within the University and to coördinate research activities involving more than one department when such coördination is necessary.

THE DIVISION OF RESEARCH OF THE DEPARTMENT OF GOVERNMENT

Jack E. Holmes, Instructor of Government, Director; Frederick C. Irion, Assistant Professor of Government and Citizenship, Assistant Director.

The Division of Research of the Department of Government, which was created by the University in July, 1945, has as its purpose the study of federal, state, and local problems of government in New Mexico.

The Division selects for study contemporary subjects of importance to the people of the state, publishes the completed studies, and

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makes them available to interested citizens and officials in New Mexico and elsewhere.

The personnel of the Division is composed of the members of the Government Department, but whenever possible members of other departments of the University and outside specialists are utilized as consultants and to make studies.

Care is taken in each study to gather pertinent facts with fullness and accuracy and to draw conclusions with impartiality. No conclusions concerning University policies or views are to be drawn from published studies. Opinions expressed in studies are those of the authors, who accept responsibility for them.

From the time of its inception until January 1, 1948, the Division completed and published fourteen studies on subjects pertinent to education, finance, government and public lands in New Mexico.

Other functions of the Division include the giving of training in research to graduate students of the Department of Government, the providing of speakers to state and local organizations, advisory and consultant work, and the sponsoring of conferences on governmental problems.

ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station was established for the purpose of studying engineering problems that will aid in the development, use, and conservation of the natural resources of New Mexico. It is also the purpose of the Station to coöperate with the industries and government agencies within the state in the study of projects that will improve the engineering work done by these organizations.

The results of studies or investigations undertaken by the Station are published as bulletins and circulars of the Engineering Experiment Station for the benefit of the people of the State.

THE INSTITUTE OF METEORITICS OF THE UNIVERSITY OF NEW MEXICO

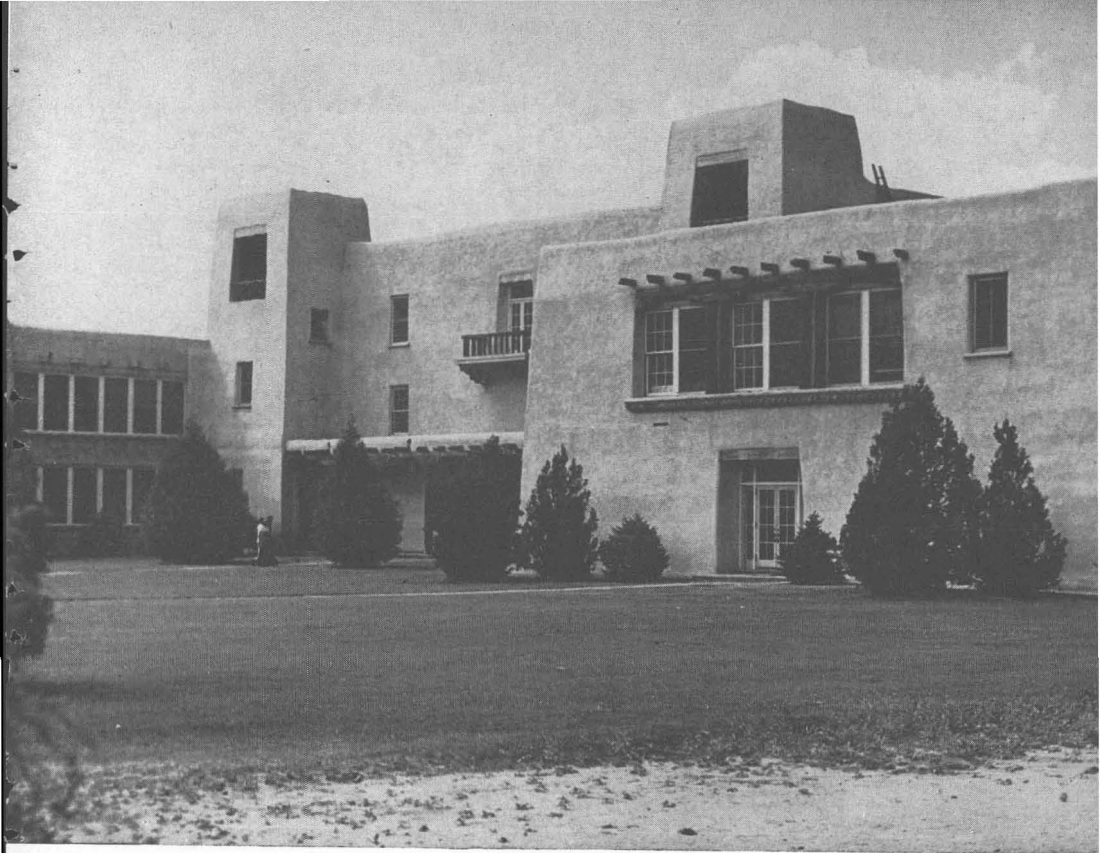
Resident Staff:

Lincoln LaPaz, Professor of Mathematics and Astronomy, Director;
Morris S. Hendrickson, Associate Professor of Mathematics and Astronomy, Mathematician; Walter Haas, Instructor in Mathematics and Astronomy, Astronomer.

Research Associates:

Dr. Fred L. Whipple, Professor of Astronomy, Harvard University, Cambridge, Massachusetts.

Dr. Frederick C. Leonard, Professor of Astronomy, University of California, Los Angeles, California.



ADMINISTRATION BUILDING

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Dr. Fletcher Watson, Harvard College Observatory, Cambridge, Massachusetts.

Dr. Helmut E. Landsberg, Research and Development Board, Pentagon Building, Washington, D. C.

Dr. C. C. Wylie, Professor of Astronomy, State University of Iowa, Iowa City.

Dr. Charles E. Fenner, Director of Education, University of Adelaide, Adelaide, Australia.

Dr. Henry Dunlap, Research Division, Atlantic Refining Company, Dallas, Texas.

Professor Mohd. A. R. Khan, President, Hyderabad Academy of Science, Begumpet, India.

The Institute of Meteoritics of the University of New Mexico, apparently the first institute in the world devoted primarily to meteoritical research, had its inception in the discovery, made independently by many scientists working in the most diverse fields, of the fundamental importance not only of ascertaining the structure and composition of the cosmic masses that give rise to the luminous phenomena of meteors, but also of determining the place, mode, and time of origin of such masses; and, most important of all, the effects of their infall on the earth. However, development of the research program of the Institute can be justified not only on scientific grounds, but also on the basis of the superlative importance of meteoritics in studies of the battleground of the next war, namely, the upper atmosphere.

The objectives of the Institute may be formulated as follows: to promote the recognition and recovery of meteorites both by systematic use of instrumental surveys and by arousing in the general public critical interest in these bodies which fall so remote from one another in time and space that a necessary prerequisite for their recovery is a widely distributed multitude of interested and instructed voluntary observers; to provide means for the preservation, the public exhibition *without charge*, and the intensive scientific study of both meteorites and terrestrial materials metamorphosed by meteoritic impact; to enable nuclear physicists, ballisticians, aerodynamisticians, and other investigators engaged in research of value to the development of meteoritics to secure *without cost* meteoritical specimens in such amounts as they may require for experimental purposes, thus enabling scientists to escape from a state of affairs which has led two prominent mineralogists to complain that "Meteorites are held at such an artificially high value by dealers and collectors as to make it difficult to secure any large quantity of any fall"; to advance not only such *pure* sciences as meteorics,

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but also to stimulate the use of meteoritical knowledge in such *practical* subjects as high altitude ballistics, rocketry, and other military sciences, ore detection, and the metallurgy of stainless steels and other alloys; and, finally, to provide urgently needed publication facilities for research work done in any or all of the above fields.

Pending construction of the new Science Building, the Institute of Meteoritics has been assigned temporary quarters in the west wing of the remodeled Bruns Administration Building. In addition to offices for the staff of the Institute, these quarters provide space for the meteoritical library, the meteorite museum, a computing laboratory, housing a collection of Monroe, Marchant and A.A.F. electrical and mechanical computers, a photographic darkroom with complete Leica equipment for photo-micrography and a Pako photo-dryer and other automatic devices for speedily working up results obtained in air reconnaissance surveys of meteorite-strewn fields; a seventy-foot long hypervelocity laboratory and several smaller research laboratories; and a large machine shop with concrete floor on which are mounted Tinius Olsen and Rockwell hardness testing machines, Knapp and Stewart high temperature furnaces, meteorite sectioning and polishing machinery including an 800-pound Excello lapping machine, a Sheffield Precisionaire instrument, and motor-generators with auxiliary equipment used in testing meteorite detectors and in other experimental work.

Equipment available through the Institute for research and instructional purposes includes an automatic microdensitometer employing photo-multiplier tubes, two air-reconnaissance cameras mounting Aero-ektar f 2.5 lenses, several types of meteorite and mine detectors, a 36-inch aluminum parabolic mirror and a large number of wide field telescopes and binoculars suitable for telescopic meteor work, for comet seeking, and for zodiacal light investigations, astro-compasses, stadimeters and sextants, radar and radio units, and a considerable amount of auxiliary electronic and optical equipment.

The Institute is ideally located for field work in meteoritics since the University of New Mexico is situated almost in the center of that sub-region of the United States in which the climate is most favorable for the long continued existence of fallen meteorites in recognizable form; in which the conditions of terrain and rainfall are most propitious for the instrumental detection of buried meteorites; and in which, as a matter of fact, most of the meteorites and all of the meteorite craters thus far found in the United States have been located. Conditions for visual and photographic observation of meteors and the zodiacal light and gegenschein are equally favorable. A statistical survey of night-sky conditions carried out at

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the request of the Director of the Harvard University Meteor Program indicates that few if any stations in the proverbially fair Southwest show as many hours of nocturnally clear skies as Albuquerque.

In addition to conducting research in meteoritics and cooperating with such military organizations as the Air Technical Service Command, the Operations Analysis Division and the Research and Development Board, and such scientific agencies as the Institute for Nuclear Studies of the University of Chicago and the Research Laboratory of the General Electric Company, the staff of the Institute is testing and installing instrumental equipment for use in teaching observational and navigational astronomy and is collaborating with the Department of Mathematics and Astronomy in the development of courses in astronomy and meteoritics.

As regards publications, the Institute sponsors a new series of meteoritical monographs, the *University of New Mexico Publications in Meteoritics*, of which the first volume devoted to the provisional coördinate numbers of all known meteorites has recently appeared. Furthermore, a mimeographed circular carrying meteoritical news of current interest is mailed out from the Institute each month to a large and ever growing circle of voluntary observers.

MILITARY TRAINING

A Naval Reserve Officers' Training Corps Unit, established by the Navy Department, is in operation at the University of New Mexico. The NROTC offers the opportunity for NROTC students to qualify for a commission in the U. S. Navy and Marine Corps and U. S. Naval Reserve and Marine Corps Reserve upon completion of the baccalaureate degree requirements.

Applicants for enrollment in the NROTC must first be accepted for enrollment by the University. Entering freshmen who have been selected by the Navy Department after nationwide competitive examinations are enrolled as Regular NROTC students. Regular NROTC students receive fifty dollars per month from the Navy, and have their tuition, books and fees paid for by the Navy. A limited number of freshmen may be enrolled as Contract NROTC students, after passing a selection examination and the required physical examination. Contract students receive only a commuted ration allowance of approximately twenty-four dollars per month during their junior and senior years.

Regular NROTC students are commissioned in the Regular Navy or Marine Corps while contract students are commissioned in the Naval or Marine Corps Reserve. Contract students may,

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however, be commissioned in the Regular Navy or Marine Corps provided they so request and the Navy Department approves.

RECREATIONAL FACILITIES

Outdoor recreational facilities on the campus include an eighteen hole golf course, baseball diamond, swimming pool, tennis courts, and riding stables. The U. S. Forest Service maintains a recreational area for popular winter sports in the nearby Sandia Mountains.

ADMISSION

APPLICATION AND CREDENTIALS

ALL COMMUNICATIONS regarding entrance should be addressed to the Director of Admissions. The University requires that each new student file an application for admission (blank to be found in the back of this catalog or obtained from the Admissions office). In addition, he must have his credentials sent directly to the Director of Admissions from the high school or college previously attended; transcripts in the possession of students are not acceptable for entrance purposes. *In order to be assured of admission, the student must have his credentials on file in the Admissions office at least one month in advance of the beginning date for the session in which he plans to enroll. No student is assured of entrance until he has received an official notice of admission from the Director of Admissions.*

FRESHMEN

Each freshman is required to present an application for admission (see above) and to have a transcript of his high school record sent to the Director of Admissions by the principal or superintendent.

Each freshman is also required to take a series of tests which are administered just prior to registration (see the Calendar). These tests sometimes reveal information which is used in recommending the college which the freshman should enter, the courses which he should undertake, and the amount of work which it appears advisable for him to attempt. If the tests reveal a marked weakness in preparation, the University authorities may recommend that the student take up a special program of work in the General College before he may enter upon a degree course in one of the regular colleges, or he may be required to take certain non-credit courses designed to correct such weaknesses.

The University recommends that freshmen be at least 16 years of age.

ADMISSION BY CERTIFICATE

High schools accredited by regional accrediting associations, state departments of education, or state universities are accredited by the University of New Mexico.

Graduates of accredited high schools may be admitted to the

ADMISSION

University upon presentation of transcripts showing graduation from a four-year high school with 15 units (or graduation from a senior high school with 11 units), such units to be distributed as outlined in the following paragraphs. The term "unit" means the completion of a course of study consisting of recitation periods of at least 40 minutes each, held 5 times a week during 36 weeks.

Section I. Basic Requirements—7 units:

English—3 units

Social Studies—1 unit (must include credit in U. S. History)

Laboratory Science—1 unit (only Chemistry, Biology, Physics, are accepted as laboratory sciences)

Mathematics—2 units (Algebra must be one of the units offered). Students expecting to enter the College of Engineering must offer 3 units of Mathematics including second year Algebra and Plane Geometry. Solid Geometry and Trigonometry are recommended. Students expecting to enter the College of Pharmacy or majoring in Mathematics, Physics, Chemistry, Geology, Premedic or Predental courses must present $2\frac{1}{2}$ units of mathematics which must include $1\frac{1}{2}$ units of Algebra and 1 unit of Plane Geometry.

Section II. Restricted Electives—4 units must be elected from the groups A-E below with no more than 2 units accepted from Group F:

Group A.—English, Public Speaking, Journalism, Speech

Group B.—French, Spanish, Latin, German and other foreign languages

Group C.—Algebra, Plane Geometry, Solid Geometry, Trigonometry, General Mathematics

Group D.—General Science, Biology, Chemistry, Physics, Physiology, Geology

Group E.—History, Geography, Sociology, Economics, Government

Group F.—Home Economics, Agriculture

Section III. Free Electives—4 units:

Any units accepted towards graduation from accredited high schools may be used as free electives.

NOTE: In the admission of graduates of senior high schools, no attention will be paid to the work done in the junior high school except as that work is related to the requirements of Section I and Section II.

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The case of any student applying for admission with less than a C average in his previous academic work may be subject to review by the Committee on Entrance and Credits.

If the applicant is not a high school graduate, but has completed the 15 required units in an accredited high school, he may be admitted to the University upon the written recommendation of his principal or superintendent.

ADMISSION WITH ENTRANCE DEFICIENCIES

If a student has been graduated from an accredited high school but does not meet all the entrance requirements as outlined above, he may be admitted to the University on trial by the Committee on Entrance and Credits. Such students may enroll in any college (subject to results of the freshman entrance tests), and they will be allowed twelve months from the date of their first enrollment to make up entrance deficiencies.

Graduates of unaccredited or partially accredited high schools are expected, prior to registration, to take examinations to validate, or earn credit in, that portion of their work which is unaccredited or incomplete.

REMOVAL OF ENTRANCE DEFICIENCIES

Students may make up deficiencies in entrance requirements: (1) by establishing high school credits in the courses concerned; (2) by special examination established by the Committee on Entrance and Credits; (3) by counting part of the work done during their first year in college towards entrance requirements. Three semester hours count as one unit for all entrance deficiencies except those in Laboratory Sciences in which 4 semester hours will be required for one unit. Course credit counted towards entrance requirements is not accepted towards a degree in the University.

Special consideration will be given to any applicant whose high school work has been interrupted.

TRANSFERRING STUDENTS

The new student who has attended other colleges or universities should request the authorities at each institution attended to send an official transcript of his record to the Director of Admissions of the University. The student is also required to submit an application for admission (blank found at the back of this catalog). When the preparatory credits have not been accepted, or have not been reported on the college transcript, a transcript of the high school work will also be required. An evaluation fee of \$5.00 is payable when the application is submitted. This fee is not charged to vet-

ADMISSION

erans and, in the case of civilians, is used as the matriculation fee when the student registers in the University; it is not refundable.

After the application, transcripts, and evaluation fee have been received, an evaluation is made and a copy sent to the student. This copy should be retained for use at registration. It is not possible to give any information in regard to standing until the required credentials are on file.

Every new student is required to take the psychological examination prior to registration (see the Calendar).

A transferring student is required to meet the freshman entrance requirements (see p. 38) except that if he has completed 2 semesters of work of C average in an accredited collegiate institution, which institution has approved his high school credits, such high school credits will be accepted by the University even though the credits do not meet our requirements in full.

Students from fully accredited institutions ordinarily will be given full credit for work transferred, insofar as the courses taken are the same as, or equivalent to courses offered in the college in which the student enrolls in this institution.

Only an approximate evaluation can be made prior to registration, and all credit is tentative until the student has completed at least one semester of satisfactory work in residence.

Credits transferred from an accredited junior college will be accepted up to a maximum to be determined by the College in which the student is enrolled. In accepting junior college credits, no courses will be considered as above sophomore level.

Credit earned in unaccredited institutions is usually accepted on the same basis as by the state university of the state in which the institution is situated. Where it seems proper, examinations for the validation of credit may be required. No evaluation of credit from an unaccredited institution is made until the student has completed at least 12 hours in residence at this University.

Correspondence and extension credit from institutions which are not members of the National University Extension Association must be established by examination at this institution.

The case of any student applying for admission with less than a C average in his previous academic work may be subject to review by the Committee on Entrance and Credits. A student under suspension from any other college or university will not be considered for admission during the period of his disqualification.

SPECIAL STUDENTS

Persons over twenty-one years of age who cannot meet the regular entrance requirements may be admitted as special students, provided they secure the permission of the instructors whose work they desire to take and the approval of the Dean of the college concerned. Students over 21 who do not wish to work toward degrees at the University of New Mexico may also be admitted as special students under the same conditions, provided they are not under scholarship suspension from any other college or university. Applicants coming direct from high school will not be permitted to enter as special students. By virtue of his classification, the special student is not eligible for any degree, but may become a candidate ultimately by clearing his admission status to the satisfaction of the Committee on Entrance and Credits. (See Removal of Entrance Deficiencies.)

The student entering as a special should make application on the form provided at the back of the catalog. If he intends to establish regular status here, he should present official transcripts of any high school or college credit which he may have earned previously. *He may retain the classification of special student until he has accumulated 30 semester hours, after which he must declare himself, in writing, as a degree candidate, or a continuing special student. In the first case, he must attain regular status prior to his next registration; in the second, he will be allowed to register in courses as an auditor only, receiving no credit.*

UNCLASSIFIED STUDENTS

Students transferring from unaccredited or partially accredited institutions are unclassified until they have validated credit in accordance with the University regulations. Students who are temporarily absent from other institutions are also registered as unclassified. In such cases statements of honorable dismissal, including scholastic status and classification, are required from the last institutions attended.

AUDITORS

Mature students may attend classes as auditors, without credit, with the permission of the instructors concerned and of the Dean of the college in which most of the audited courses lie. Auditors are required to pay fees at the same rate as if enrolled for credit. They must, upon registration, declare themselves as auditors and may not change to a credit basis after the first two weeks of the semester. A student enrolled for credit in a course may not change to an auditing basis in the same course after the first two weeks of the semester.

ADMISSION

VETERANS

Special consideration is given to veterans. Credit for service training and experience is granted on the basis of measured educational achievement, in conformity with the procedures recommended by the North Central Association of Colleges and Secondary Schools and the American Council on Education. A maximum of 8 semester hours elective credit is allowed for basic or recruit training. Eight semester hours, apportioned the same as credit granted for service in the U. S. Armed Forces will be granted to foreign students who have completed military training, provided they can show official credentials in support of their statements. Credit earned in specialized army and navy programs conducted by college and university staffs is allowed in accordance with the recommendations of the administering institution. Credit for work done in formal training programs is allowed in accordance with the recommendations of the American Council on Education or on the basis of examinations here. U. S. Armed Forces Institute correspondence courses may be established by examination in this University. The veteran has the opportunity to demonstrate his competence in any University subject, and to establish credit in that subject, by passing an examination as required by the Committee on Entrance and Credits. Military credits (other than those earned in accredited colleges or universities under military auspices) will not be entered on the student's record here until he has completed in residence one semester of a minimum of 15 hours' work.

In accordance with the desire of the University to assist veterans in furthering their education, a regulation has been adopted which permits the admission as special students, at the discretion of the Dean of the college concerned, of persons at least 19 years of age who have been in military service and who cannot meet the regular entrance requirements. Such students are subject to all other regulations governing the status of special student. Veterans who are not high school graduates or are graduates of non-accredited high schools may gain regular entrance to the University by taking the General Educational Development Tests (high school level) at this institution, and, in most cases, are required to follow this procedure before admittance.

GRADUATE STUDENTS

Refer to "Other Divisions of the University."

LAW STUDENTS

Refer to "College of Law."

REGISTRATION

TIME OF REGISTRATION

Students are urged to register on the days set aside for registration (see University Calendar). The late registration fee is charged to each student who does not complete his registration on the specified days. Registration contemplates completing the entire procedure, including payment of fees. Prompt registration is at all times encouraged. No student may enroll late in any course unless he has the permission of the instructor concerned. A student may not be admitted to the University more than two weeks after the opening of a semester.

MATERIALS NEEDED

Each student should bring his copy of the general catalog to registration. The freshman should have in his possession the notice of admission. The transferring student should have a copy of his evaluation of transferred work.

REGISTRATION PROCEDURE

Details of the registration procedure are contained in a special notice issued by the Admissions office, and distributed to students on the days of registration.

COMPLETION OF REGISTRATION

When the student has followed the prescribed registration procedure, and has paid his fees, his registration is complete. The University will hold the student responsible for completion of the courses for which he has been enrolled, unless he obtains approval for a change in his registration.

CHANGE IN REGISTRATION

See "General Academic Regulations."

MEDICAL EXAMINATIONS

A physical examination, including a Wasserman test and a tuberculin skin test, is compulsory for all new students (both freshmen and transfers) and all former students returning after an absence of one year. These tests are given without charge by the University Physician, but students who, without valid reason, fail to keep their examination appointments may have their registration cancelled. Students will be re-examined by the University Physician when such examinations are indicated. Health-seeking students are accepted at the University if, in the judgment of the University Physician, their work does not endanger themselves or their associ-

ADMISSION

ates. The University may refuse registration to, or cancel the registration of, any student who is physically unfit to carry on class work, or whose physical condition might be a menace to the health of other students.

STUDENT EXPENSES

TUITION AND FEES

ALL FEES are due at the time of registration. A fee of \$2.00 will be assessed if registration is not completed on the days specified.

In addition to the matriculation fee of \$5.00, which is paid once by each student upon his first registration in the University, other fees are charged according to the number of semester hours in the student's course. Auditors pay fees at the same rate as if enrolled for credit.

ADVANCE DEPOSIT

An advance deposit is required of all students not enrolled in the University of New Mexico during the semester immediately preceding the one to which they are applying for admission. In case a student requests admission or readmission to the University and does not desire University housing, the advance deposit will be credited against his tuition and fees. In the case of the student obtaining University housing, the deposit will be held in deposit status until the student has actually arrived at the University and a definite room assignment has been made. The amount of the advance deposit will then be credited to the student's board and room account. Students should be prepared to handle tuition, fees and other expense charges independently of the advance deposit.

REGISTRATION FEES, UNDERGRADUATE STUDENTS, PER SEMESTER

	More than six hours	Three to six hours	Three hours or less
Tuition*	\$40.00	\$20.00	\$15.00
Health Fee	3.00
Student Activities Fee†	10.86
Student Bond Fee	5.00	5.00	5.00
Building Fee	10.00	10.00	10.00
Breakage Deposit†	5.00	5.00	5.00
Library Fee	5.00	5.00	5.00
	<hr/> \$78.86	<hr/> \$45.00	<hr/> \$40.00
*If a non-resident, add tuition ...	\$100.00	50.00	20.00
	<hr/> \$178.86	<hr/> \$95.00	<hr/> \$60.00

†Includes \$.76 Federal Tax.

†Paid once yearly and refundable, less charges.

STUDENT EXPENSES

REGISTRATION FEES, GRADUATE STUDENTS, PER SEMESTER

Tuition*	\$40.00	\$20.00	\$15.00
Health Fee	3.00		
Student Bond Fee	5.00	5.00	5.00
Building Fee	10.00	10.00	10.00
Breakage Deposit†	5.00	5.00	5.00
Library Fee	5.00	5.00	5.00
	<u>\$68.00</u>	<u>\$45.00</u>	<u>\$40.00</u>
*If a non-resident, add tuition ...	100.00	50.00	20.00
	<u>\$168.00</u>	<u>\$95.00</u>	<u>\$60.00</u>

Note: Graduate students enrolled for thesis only pay a \$15.00 tuition fee, and breakage deposit.

OTHER FEES FOR SPECIAL SERVICES

Change in program after end of second week, except upon written request of the instructor	\$ 1.00
Late registration fee	2.00
Late physical examination fee	1.00
Fee for removal of Incomplete grade	2.00
Examination for validation of credit, per course	2.00
Other special examinations	2.00
Examination for advanced standing, per credit hour	2.50
Transcript of credits (extra copies 25c each)	1.00
Penalty for dishonored checks	1.00
Diploma fee, bachelor's or master's degree	10.00
Binding master's thesis, per copy	1.50
Graduate Record Examination (Graduate students only)	3.00
Evaluation of Transcript (adv. standing)	5.00

ADDITIONAL FEES

Individual music instruction (except vocal coaching), per credit hour	\$11.25
†Vocal coaching, per credit hour	22.50
†Accompanying, per credit hour	22.50
Piano Ensemble: one half-hour lesson per week (1 credit hour):	
In group of two students, per student	11.25
In group of three or more, per student	7.50
Equitation, per semester	20.00
Organ rental, per semester	12.00

†Paid once yearly and refundable, less charges.

†Any student taking vocal coaching may arrange with a student taking accompanying to take their lessons at the same hour (and vice versa), in which case the fee payable by each student will be reduced to \$11.25 per credit hour.

STUDENT EXPENSES

Use of practice rooms (other than pipe organ):

1 hour per day, per semester	4.00
2 hours per day, per semester	6.00
3 hours per day, per semester	8.00
4 hours per day, per semester	10.00

For Master Classes in piano and other instruments (or private instruction by visiting instructors) the University reserves the privilege of charging special fees for instruction and practice rooms.

NON-RESIDENT TUITION FEES. A non-resident student shall be charged not less than Two Hundred and Eighty Dollars (\$280.00) per year tuition, based on a nine month school year; providing that any student having graduated from a non-resident high school shall be considered a non-resident unless he or she shall have spent not less than twelve (12) months in residence in the state of New Mexico after becoming twenty-one (21) years of age while not attending school, or whose parents are legal residents of the state.

Upon request of the University authorities, students must furnish proof of their residence in the state of New Mexico. If a person other than the parent is named as guardian, the student will be required to furnish evidence of court appointment.

HEALTH FEE. The University maintains a full-time physician with offices in the Infirmary. All students enrolled for seven or more semester hours are eligible to consult him in case of illness or injury. The physician's office is reasonably well equipped with instruments and medicines, and any work which can be done in the office is financed by the semi-annual health fee. Major and minor surgery and critical illness will be referred to local physicians at the student's expense.

STUDENT ACTIVITIES FEE. The assessment of this fee is a voluntary action of the student body, through its organization, the Associated Students of the University of New Mexico. At registration, the University collects this fee as an accommodation to the Associated Students. The activities fee is distributed to the student organizations as shown in the Constitution of the Associated Students. Copies of the Constitution may be obtained from the Personnel office.

STUDENT ACCOUNTS. Students are required to pay all accounts due the University during one semester before registering for a new semester.

WITHDRAWALS AND REFUNDS. All fees, except the matriculation fee, will be refunded to students voluntarily withdrawing from the

STUDENT EXPENSES

University before the end of the second week of the session. Students voluntarily withdrawing later than the second week, but before the end of the eighth week of the semester will be entitled to a refund of one-half of the tuition, and the breakage deposit. Students withdrawing after the eighth week and students withdrawing at any time under discipline or because of academic deficiencies, will be entitled to a refund of the breakage deposit only.

ESTIMATE OF TOTAL EXPENSE. The minimum amount necessary for expenses while attending the University of New Mexico for a semester is estimated as follows:

Tuition and fees	\$80.00
Books and supplies	25.00
Board and room	225.00
Laundry (sent off campus)	30.00

Non-resident students should add \$100.00 to the tuition costs. Women students in residential halls are charged a recreational and social fee of \$1.50 per semester.

These estimates are based upon current rates; all charges are subject to change without notice.

DINING AND RESIDENTIAL HALLS

For regulations governing residence in University halls, see p. 57.

NEW STUDENTS

The Director of Admissions will study each student's application for admission and his high school or college transcript. When these are found to be in order, and it has been determined that housing facilities are available, the procedure will be as follows:

1. The student will be informed of his acceptance and will be requested to forward a check or money order as an advance deposit. This remittance should be made to the Cashier, Business Office, University of New Mexico.

2. When the student's remittance is received at the University, the Dean of Women will advise the woman student of the residential hall to which she has been assigned and will provide a list of furnishings needed. The Housing Project Manager at Kirtland Field will inform the man student of his general dormitory assignment and of furnishings needed. All questions relating to housing information should be addressed by men to the Manager, University Housing Project, Kirtland Field, and by women to the Dean of Women. Upon arrival at the University, the man should report directly to the Housing Project office at Kirtland Field. The receipt

STUDENT EXPENSES

for his advance deposit should be presented at this time. The woman should report directly to the residential hall to which she has been assigned and should be prepared to present her advance payment receipt to the Head Resident and to the Collection Manager for Dining and Residential Halls. Both men and women students should plan to arrive between 8:00 a. m. and 10 p. m.

STUDENTS REQUESTING READMISSION

A student who has previously attended the University, but who is not presently enrolled and is requesting readmission, should follow the procedure outlined for new students. The student requesting readmission should correspond with the Director of Admissions. The student will be informed that his admission records have been verified and that housing facilities are available. He will be requested to make an advance payment to the University Business Office.

STUDENTS CONTINUING ATTENDANCE

Students in attendance are required to make housing reservations for the following term not less than three weeks before the ending of the term in which they are enrolled. Student occupancy in residential halls, including the Kirtland Housing Project, is on a semester basis. Unless advance notice of intention to remain for the following semester is made in writing to the Dean of Women or to the Kirtland Housing Project Manager, living space may be assigned to another student. Specific information regarding exact dates and amount of advance deposits will be announced in time for the student to make necessary arrangements.

CHANGES IN STUDENT'S PLANS

Should an applicant for admission or readmission to the University find it impossible to keep an advance reservation, he should notify the Dean of Women or the Kirtland Housing Project office not later than one week before the first day of registration. In such cases the advance deposit will be refunded not later than one month after the request for refund is received.

MEALS FOR STUDENTS LIVING IN RESIDENTIAL HALLS

All students occupying rooms in residential halls, including Kirtland Field, are required to take their meals at the University dining halls. Room and board are therefore considered as one charge, the amount varying slightly depending upon the type of residential assignment for each student. Room and board charges are payable in advance and are due before the first day of each month.

STUDENT EXPENSES

RATES—ROOM AND BOARD

The following current rates for campus room and board are subject to change whenever necessary to defray operating costs:

WOMEN'S RESIDENTIAL HALLS. Charges for room and board per calendar month:

Hokona-Marron

Single rooms	\$56.00
Double rooms, per person	54.00
Three or four to a room, per person	53.00

Bandelier

Two to a room, per person	54.00
Three to a room, per person	53.00
Four to a room, per person	52.50

Mesa Vista

Double rooms, per person	53.00
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Dorm "D"

Single rooms	56.00
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Whenever a room is occupied for more than one-half month, the full rate for the month will be charged. Occupancy of a half month or less is charged at the minimum rate of one-half month.

MEN'S RESIDENTIAL HALLS. The University maintains a housing project for single men students at Kirtland Field. A dining hall is operated for students residing at Kirtland Field. Charges per calendar month per person:

Single room and board	\$50.00
Double room and board	47.50

Optional linen service for students residing at Kirtland Field is available at small additional cost.

FAMILY UNITS. A number of family dwelling units are maintained at Kirtland Field and on the campus for married veterans. Available units are now assigned, and many applications are on file for possible vacancies during the 1948-49 school year. Rates for family dwelling units:

1 bedroom (unfurnished)	\$31.50
2 bedroom (unfurnished)	34.50

RATES—DINING HALL

When facilities permit, students living off campus are permitted to eat at the dining hall.

Board only per calendar month for non-residents of the dormitories

	\$40.00
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STUDENT EXPENSES

Single Meals (Cash)

Breakfast	\$0.30
Luncheon55
Dinner75
Dinner (Noon Sunday and Holidays)	1.00

GUESTS

With the consent of the Head or Chaperon, students may entertain guests overnight (not beyond a maximum of seven nights) at the residential halls. The guest will be charged fifty cents (50¢) per night. When a guest is to have meals at the dining hall, the clerk should be notified in advance, and the guest's meals must be paid for at that time.

REFUNDS

No refund is made on room rent, except when paid for more than a month in advance, or under conditions outlined on page 49. Refunds for board are made only for authorized absences of seven or more consecutive days. These absences must be authorized in writing by the Dean of Men or the Dean of Women, and in cases of illness with the approval of the University Physician.

STUDENT PERSONNEL SERVICES

ORIENTATION

AT THE OPENING of each semester a "Freshman Program" is conducted. (See the Calendar.) The purpose of this program is to acquaint the freshman with some of his fellows, to help him to feel more at home in new surroundings, to permit him to meet advisers and counselors, and to familiarize him somewhat with University methods and life. In addition to the preliminary registration and the various tests, numerous recreational and educational events are held.

Attendance of all freshmen with less than 10 semester hours credit is required during the entire Freshman Program period, but transferring students who have less than 60 hours of college credit are advised to attend all meetings except the tests. All new students are required to take the psychological test.

In order to make a comparison of the ability, training, and background of the different members of the freshman class, the University administers a series of intelligence, placement, and achievement tests. A medical examination is also required for each student. Deans and advisers consider these tests quite helpful to the consultation and guidance relationships with the new student. The tests are designed principally to reveal the student's aptitude for college work, and to assist in placing the student in courses of the proper level.

Every student registered in freshman English is examined as to his ability to use clear, correct, idiomatic English. No student can pass this test who shows serious weakness in spelling, punctuation, grammar, diction, or sentence structure. Students who do not pass the test are enrolled in English A, in addition to English I.

The Personnel office issues a *Freshman Handbook* which contains information on student organizations, library rules, campus regulations, suggestions for effective study, etc.

During his first registration, each new student is assigned by the Dean of his college to a faculty adviser who assists him in planning his academic program. The adviser keeps a permanent file on each of his advisees and is available for consultation at any time.

GUIDANCE, COUNSELING AND TESTING SERVICES

The University of New Mexico recommends its Counseling and Testing Services to all University students. Counseling and vocational guidance are available to University students without cost.

STUDENT PERSONNEL SERVICES

Counseling and guidance are provided for such student problems as selection of an occupation or profession; appropriate "majors" and "minors"; development of reading and study skills; personal, social and emotional adjustment problems; and any other matter in which professional psychological assistance may be of value. Standardized tests of occupational and scholastic aptitudes, interests, achievements, reading and study skills, and personality and personal adjustment inventories are utilized by the Services. Non-veteran students may arrange for these services by direct application to the Head of the University Counseling and Testing Services, Yatoka Hall.

Veterans should arrange for occupational counseling by the University Services through the Veterans Administration Guidance Center in Yatoka Hall; however, veterans may make direct application to the Head of the University Counseling and Testing Services for aid in other problems.

Veterans with service-incurred disability of 10% and greater who wish to obtain the benefits of Public Law 16 must go through the Veterans Administration Advisement Section, which utilizes the University Services, to determine their vocational objectives. Because Public Law 16 provides greater benefits to the veteran, all eligible disabled veterans are urged to consult with the Veterans Administration Guidance Center.

Other veterans who may be required to go through advisement are: (1) those who fail to make satisfactory progress in the course chosen, (2) those wishing to change from one school or college to another on the campus, (3) those wishing to change from an educational program to on-the-job training, (4) those wishing to transfer to another institution because of inability to adapt themselves or adjust to conditions in the University.

In addition to providing individual guidance, the University Counseling and Testing Services supervise the administration, scoring, and interpretation of testing programs including the entrance and placement examinations, the sophomore proficiency tests, some departmental examinations, the Graduate Record Examination for graduate students and seniors, the state-wide testing of high school seniors, the General Educational Development Tests for veterans who did not complete high school, and special placement tests for colleges in the University.

DIVISION OF VETERANS AFFAIRS

The Division of Veterans Affairs at the University of New Mexico was established to provide every possible service to veterans, and

STUDENT PERSONNEL SERVICES

to aid in the solution of any and all problems that may arise in the student veteran's relationship with the University and the Veterans Administration. The veteran is given assistance in obtaining a certificate of eligibility from the Veterans Administration, help with registration and orientation in the University, certification of registration to the Veterans Administration so that subsistence payments may start, assistance in withdrawing from the University or interrupting educational programs, and information on any changes in procedures and regulations of the University and the Veterans Administration. In short, the Division of Veterans Affairs helps the veteran secure the greatest good from his G.I. benefits and protects his interests in these benefits.

VETERANS ADMINISTRATION

The Veterans Administration maintains on the campus a Guidance Center. The chief functions of this Center, as far as the University is concerned, are to assist the veterans in completing required Veterans Administration forms, to keep veterans informed on legal changes affecting educational training, to advise and counsel veterans not making satisfactory progress in their courses, to provide the guidance and testing services authorized by law, and to supervise the programs of veterans assigned to the University under Public Law 16, Rehabilitation Act.

The Division of Veterans Affairs and the Veterans Administration occupy joint offices in order to achieve maximum coordination and efficiency in the handling of all veterans' problems.

GENERAL PLACEMENT BUREAU

The General Placement Bureau is maintained to aid graduates and undergraduates in finding suitable and satisfactory employment in permanent and part-time positions respectively.

The Bureau acts as a general clearance house for registrants seeking employment, and for employers seeking college-trained personnel. Students interested in obtaining part-time work during semesters as well as seniors and alumni seeking professional employment are urged to register with the Bureau, office No. 1, Bldg. B-4.

Keeping on file a complete record of each registrant's scholarship, employment experience, activities, and personal qualifications, the Bureau attempts proper placement commensurate with the registrant's training and background. The Bureau maintains constant contact with the condition and trends of the Nation's job market; and industries are urged to send representatives to the campus from time to time to interview seniors for possible employment.

STUDENT PERSONNEL SERVICES

Any student requiring part-time employment is requested to file an application with the Bureau. Application for campus employment must be renewed each year. The following principles are the basis of selection of candidates: (1) the establishment of the actual need of the student; (2) scholarship; (3) re-employment to be based on satisfactory service and scholarship.

No fee is charged for services rendered students seeking part-time work. In the field of placement, however, each registrant is charged an initial fee of \$2.50, with a renewal fee of \$1.00 yearly after the first year.

The Bureau does not force its services, does not guarantee that registrants will be placed, and cannot, except in rare instances, assign anyone to a position. The office can do no more than furnish aid, and the effectiveness of this assistance is dependent in a large measure, on the applicant's attitude toward placement.

HEALTH SERVICE

The University Health Service, with a staff of two physicians and six graduate nurses, operates a Dispensary and Infirmary. Each new student on admission receives a routine physical examination, including a blood test and a skin test for tuberculosis. The health status of the student is determined, and advice and curative measures are offered to permit him to receive the greatest possible benefit during his college years. Re-examinations of students are made when the staff feels that such re-examinations are indicated. The college physicians may exclude from dormitories and classrooms students suffering from contagious or communicable diseases.

Students are encouraged to avail themselves of the services of the University Physician who maintains morning and afternoon office hours at the dispensary. Although the Medical Service is primarily for ambulatory students with minor ailments or injuries, the University physician makes calls on campus residents who are ill, when requested by the matrons of the various dormitories.

The Infirmary is open twenty-four hours a day. All students have the benefit of professional diagnosis of any illness. If needed, hospitalization and treatment for acute illnesses of relatively short duration may be provided. Students with illnesses requiring specialist services or those requiring major surgery are referred to the consultant staff of specialists.

The Health Service maintains a constant supervision over sanitary conditions in dormitories and classrooms, in the swimming pool, and in the food handling departments. There is also a constant supervision over water and milk supplies.

STUDENT PERSONNEL SERVICES

RESIDENTIAL HALLS—REGULATIONS

Living quarters in residential halls are available to undergraduate men and women students (see pp. 48-51). Occasionally, rooms are available to students in private homes in the city, but men and women students are not permitted to room at the same residence.

All undergraduate women whose homes are not in Albuquerque are required to live in the University residential halls or sorority houses. Freshmen women whose homes are not in Albuquerque are required to live in University residential halls for one calendar year regardless of social affiliations.

Exceptions to this regulation include: special adult students; regularly enrolled students who are over twenty-one years of age, and registered for 6 hours or less; women students who are working for board and room in approved homes.

No woman student may change her place of residence without the consent of the Dean of Women. The University reserves the right to determine where a student may reside.

All occupants of residential halls must vacate their rooms by 5:00 p.m. on the last day of the semester unless they expect to return for the following semester.

The University reserves the privilege of closing its residential halls during the holidays. When these units are closed, they must be vacated by 5:00 p.m. on the day before the holiday begins.

Both men and women students residing in housing facilities provided or controlled by the University are subject to University rules and regulations pertaining to those facilities.

STUDENT ORGANIZATIONS

ASSOCIATED STUDENTS. The students of the University constitute a general student body organization which is called "The Associated Students of the University of New Mexico," and which controls the other organizations of general interest.

ASSOCIATED STUDENTS COUNCIL. The Associated Students Council is the administrative agent of the Associated Students of the University. Representatives of the Council are elected from the student body.

STUDENT SENATE. The Student Senate is the other governing board of the student body. It is composed of a representative from each organization on the campus.

ASSOCIATED WOMEN STUDENTS. The Associated Women Students is composed of all regularly enrolled women students of the University. The purpose of the organization is to secure uniform and broad

STUDENT PERSONNEL SERVICES

social interests among University women. It is governed by a council, the members of which are representatives of all women's organizations on the campus.

PROFESSIONAL, HONORARY, AND SERVICE ORGANIZATIONS.

Alpha Kappa Delta—national honorary sociology fraternity

Alpha Phi Omega—national service organization for men

American Institute of Electrical Engineering (Student Chapter)
—for students in the Department of Electrical Engineering

American Society of Civil Engineers (Student Chapter)—for students of the junior and senior classes in the Department of Civil Engineering

American Society of Mechanical Engineers (Student Chapter)
—for students in the Department of Mechanical Engineering

Apothecaries—for students in the College of Pharmacy

Art League of New Mexico—membership open to faculty, students, and townspeople interested in art

Catalyst Club—for students of chemistry

Delta Phi Delta—national honorary art fraternity

Engineering Society—for all students enrolled in the College of Engineering

Kappa Mu Epsilon—national honorary mathematics fraternity

Kappa Omicron Phi—national professional fraternity for students of home economics

Khatali—senior honorary society for men

Mortar Board—national honorary organization for senior women

Phi Alpha Theta—national honorary fraternity for students of history

Phi Kappa Phi—national honorary scholastic society

Phi Sigma—national organization for the promotion of interest in research in biological sciences

Pi Gamma Mu—national honorary fraternity for students of the social sciences

Pi Lambda Theta—national organization for women in College of Education

Pi Sigma Alpha—national honorary fraternity for students of political science

Psi Kappa—local professional organization for students in the College of Pharmacy

STUDENT PERSONNEL SERVICES

Sigma Alpha Iota—national professional organization for the recognition of merit of students in the music department

Sigma Tau—national honorary fraternity for students in the College of Engineering

Vigilantes—honorary organization for sophomore men

Spurs—national honorary organization for sophomore women

Tau Kappa Alpha—national honorary debating society

Theta Alpha Phi—national honorary dramatic organization for University students and alumni

Theta Chi Delta—national honorary fraternity for chemistry students

For information in regard to other student organizations and activities, see the *Student Handbook*.

SOCIAL GROUPS.

Fraternities: Alpha Epsilon Pi, Delta Sigma Phi, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Phi Delta Theta, Pi Kappa Alpha, Sigma Chi, Sigma Phi Epsilon, Sigma Alpha Epsilon

Sororities: Alpha Chi Omega, Alpha Delta Pi, Chi Omega, Kappa Kappa Gamma, Pi Beta Phi, Theta

Other social groups: Independent Men, Phrateres, Town Club, and Veteran's Association

Fraternity and sorority relations are controlled by the Interfraternity Council and the Panhellenic Council respectively. These organizations also take prominent places in student activities.

RELIGIOUS ACTIVITIES

Practically all religious denominations are represented in the city of Albuquerque. The churches all welcome the University students and invite them to share in their religious life and services. The University maintains a policy of non-sectarianism, but encourages its students to affiliate with the religious organizations of their choice and to attend services regularly.

The United Student Christian Fellowship group is an interdenominational organization of Protestant students on the University campus, meeting weekly in the Student Union Building. A full-time office of Director of Religious Work among the Protestant student groups of all denominations has been established on the campus. This director is sponsored and largely supported by nine of the leading churches in the city.

STUDENT PERSONNEL SERVICES

The Newman Club on the campus serves all Catholic students in their religious life in the University.

The Hillel Counselorship is open to all Jewish students enrolled in the University.

The Baptist Student Union is open to all Baptist students enrolled in the University.

ATHLETICS

All athletic activities are under the direction of the Athletic Council, and are subject to the approval of the faculty and the President of the University. The University also sponsors an intramural program, designed to supplement the prescribed courses in physical education.

Intercollegiate athletics are governed by regulations of the Border Intercollegiate Athletic Conference, of which the University is a member.

Varsity sports include football, basketball, track and field, baseball, tennis, golf, and swimming; the intramural program includes swimming, tennis, handball, golf, cross-country, track and field, volleyball, touch football, bowling, baseball, LaCrosse and softball.

STUDENT PUBLICATIONS

The *New Mexico Lobo*, the campus newspaper, is published twice each week, and *The Mirage* is the campus yearbook issued at the end of the spring semester each year.

The Thunderbird is a literary magazine issued twice during each semester and carries literary contributions submitted by the students on the campus.

All of the above publications are edited and managed by students under the supervision of the Student Publications Board comprised of both student and faculty members, the majority of the Board, however, being student members.

The student editors and managers of these publications are elected by the Publications Board for a period of two semesters.

OTHER EXTRA-CURRICULAR ACTIVITIES

Albuquerque Civic Symphony	Drill Team
Boots and Saddles Club	Geology Club
Club de las Americas	Independent Men
Commerce Club	Men's A Capella Chorus
Cosmopolitan Club	Radio Guild
Debate Club	Ski Club
Dramatic Club	Speakers Club

STUDENT PERSONNEL SERVICES

Tennis Club
UNM Band Club
University Concert Series

University De Molay Club
Ward Room
Women's Chorus

ALUMNI ASSOCIATION

The Association is maintained through the coöperative efforts of the University and the alumni and is governed primarily by an executive committee elected annually by alumni. All graduates and all former students with ten hours or more of credit are eligible for membership in the Association.

The *Alumnus*, official organ of the Association, is published monthly except during July and August and is edited by the Managing Director of the Association and his staff. The magazine is distributed to 2500 alumni monthly.

All graduates, upon payment of diploma fees, are entitled to a three year membership in the Association.

The Alumni Association Managing Director also coördinates Homecoming plans and organizes alumni chapters throughout the country. Complete alumni records and military service files are maintained by the Association staff.

The Association's offices are located in rooms 6 and 7, Student Union Building patio.

STUDENT AID

EMPLOYMENT

See "General Placement Bureau" (p. 55).

LOAN FUNDS

The University administers, under the direction of the Student Loan Committee, its own Student Loan Fund and coöperates in the administration of several others.

The maximum amounts available from this fund respectively for sophomores, juniors, and seniors are \$50, \$75, and \$100, with the provision that the succeeding amount shall be loaned each year upon repayment by the student of at least half the sum previously borrowed. The fund is not set up to handle loans for amounts smaller than those mentioned in this paragraph.

The general rules applying to these loans are as follows:

1. The student must have been in residence at the University for at least one year.
2. He must be receiving grades of C or better in subjects which he is carrying; preference will be given to worthy students with the higher ratings in scholarship.

STUDENT PERSONNEL SERVICES

3. Students receiving loans will be required to give notes with endorsers as prescribed by the Comptroller's office.

Other loan funds available to students at the University are: The American Association of University Women's Loan Fund; Revolving Loan Fund of the Ancient, Free, and Accepted Masons of New Mexico; Educational Loan Fund of the Grand Commandery of Knights Templar of New Mexico; The McGaffey Memorial Loan Fund of the Albuquerque Rotary Club; The Women's Club Loan Fund; The Altrusa Club Loan Fund; The Phrateres Loan Fund; and The Mortar Board Loan Fund.

VOCATIONAL REHABILITATION

(For the Physically Handicapped Civilian)

Through the New Mexico Vocational Rehabilitation Service which operates under the supervision of the State Board for Vocational Education, the State and Federal Government offers financial assistance for payment of tuition to those civilian students who have a physical disability. Other assistance may also be given to students who are financially unable to provide the service for themselves.

The following are some of the requirements for acceptance for service by the Program:

(1) Have a permanent physical disability, whether congenital or as a result of an accident or a disease. (2) Be capable of carrying a full college course and maintaining at least a "C" average. (3) Training in the course chosen must offer an opportunity for employment for the individual without being injurious to his health and be within his physical capacities.

Both men and women are eligible for the service. Those with military service who have since acquired a physical disability, will be accepted only after their training under the Veterans Administration has expired.

The Rehabilitation Service is a part of our system of public education as are our grammar schools, high schools, colleges and universities. Those who can qualify, should apply for this service.

HOW TO APPLY. Those students having a disability who wish to apply should do so by writing or calling one of the New Mexico Rehabilitation Offices at 200 North Tenth Street in Albuquerque, New Mexico, or Room 36, Sena Plaza, P. O. Box 881, in Santa Fe, New Mexico. A Counselor will call at the University and discuss the program in detail with those who have applied. Application must be made and case accepted before obligation for tuition has been made.

STUDENT PERSONNEL SERVICES

AWARDS

Announcements of awards for scholarships, prizes, and medals, are made by the President of the University after recommendations have been made to him by the Committee on Awards.

SCHOLARSHIPS

In the spring of each year the University sponsors a state-wide academic achievement test for senior students among a majority of the high schools of the state of New Mexico.

The students ranking within the top ten percent of the entire group who take the test in the state will be eligible to request tuition scholarships. These scholarships are equal to the amount normally charged for tuition to resident students of New Mexico. The awarding of these tuition scholarships is based on the actual need of the student for such aid.

Those students ranking in the top ten percent in the state-wide tests will be notified of the fact immediately after the tests have been graded and will be asked to return a brief questionnaire to the Personnel office indicating their plans regarding enrollment at the University of New Mexico and their need of financial assistance. Since the number of New Mexico students needing financial aid is so great, those students who do not actually need such aid are asked to refrain from requesting it through either the tuition scholarships or through part-time employment.

The number of full-tuition scholarships that can be granted to New Mexico students during any one year is limited by an act of the New Mexico State Legislature to two percent of the previous year's enrollment.

In addition to the full-tuition scholarships, the Regents of the University have made available a number of partial-tuition scholarships for residents of New Mexico. Students who have been granted the partial-tuition scholarships shall, in all cases, be required to pay a minimum tuition fee of \$10.00.

The tuition and partial-tuition scholarships are allotted to New Mexico students who show promise of high academic achievement, good character, and whose need for financial aid can be demonstrated.

The Regents have also approved a plan for the granting of tuition aid to a small number of non-resident students whose good character, academic ability, and need for financial assistance can be demonstrated. Non-resident students granted such tuition aid shall, in all cases, be required to pay a minimum tuition fee of \$25.00.

In order to continue to receive the benefits of any of the types of tuition scholarships at the University the student is required

STUDENT PERSONNEL SERVICES

to have attained at least a "C" average by the end of the first term of the first year, a "C +" or 1.5 average by the end of the second term of the first year and in all subsequent terms.

In cases of extreme need, the recipients of these tuition and partial-tuition scholarships will in addition be given preference for part-time employment and other scholarships, prizes, or awards on the University campus.

All students receiving aid through any type of scholarships or part-time jobs will be required to maintain a satisfactory scholastic average.

Application for these scholarships and for work assistance can be made through the Personnel office.

Scholarships and Fellowships for graduate students are also available. Application for these may be made to the Dean of the Graduate School.

Scholarships of more than one hundred dollars are paid in two installments: one at the beginning of the first semester, and the other at the beginning of the second semester.

ALBUQUERQUE LIONS CLUB SCHOLARSHIP FOR THE SIGHT HANDICAPPED.

An annual tuition scholarship (\$155.70) provided by the Albuquerque Lions Club, is awarded each year to an unmarried student, man or woman, whose vision is so deficient that reading service is required. This student must have been a resident of New Mexico for the preceding four years and must be in need of financial help. The recipient of this award shall carry a normal academic load. He or she shall not marry during the period in which this assistance is received.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN SCHOLARSHIP. A scholarship of \$50 is granted by the Albuquerque branch of the A.A.U.W. to promote advanced college training for women. It is given to a student who has earned at least 90 semester hours in this institution and who will enroll for a regular course the following year as a senior or as a graduate student. Selection is made on the basis of scholarship, of financial need, and of general ability as indicated by recommendations from professors.

THE PHILO S. BENNETT SCHOLARSHIP. The income from a trust fund of \$1,200 is awarded annually to a woman student, at the beginning of the second semester of her freshman year, who is most worthy, who has resided in New Mexico for at least the preceding four years, and who will continue as a resident student in the University.



STUDENT UNION BUILDING

STUDENT PERSONNEL SERVICES

THE CLARENCE MILTON BOTTS, JR., MEMORIAL SCHOLARSHIP. The income from a trust fund of \$5,000, given by Dr. W. R. Lovelace as a memorial to Lieutenant Colonel C. M. Botts, Jr., who was killed in action near Manila, Philippine Islands, May 15, 1945, is awarded each year to a premedical student of junior or senior rank who is outstanding in scholarship and who gives promise of being a good medical student.

THE JAMES M. DOOLITTLE SCHOLARSHIP. The interest from a trust fund of \$1,000 established by Mrs. J. M. Doolittle in memory of her husband, Mr. James M. Doolittle, is awarded each year to a student who has made a high scholastic average in a New Mexico high school, who enters the University of New Mexico as a freshman, and who is in need of financial assistance.

THE FACULTY WOMEN'S CLUB SCHOLARSHIP. Fifty dollars is awarded to a senior or junior woman on the basis of need and scholarship. This award is given the second semester of each academic year.

THE ALFRED GRUNSFELD MEMORIAL SCHOLARSHIPS. The income from a trust fund of \$5,000 provides two scholarships for men. These are awarded at the same time as the Miriam N. Grunsfeld Scholarships and are governed by the same general conditions.

THE MIRIAM N. GRUNSFELD SCHOLARSHIPS. The income from a \$5,000 trust fund provides two scholarships for women. The conditions governing the Grunsfeld scholarships are as follows: (1) Students must be residents of the state of New Mexico; during the academic year immediately preceding the award, they shall have been in actual attendance at the University as full-time students; they shall not be above the rank of junior; and three of the recipients shall have been enrolled in the Department of History or the Department of Government and Citizenship (the fourth may be enrolled in any department of the University). (2) In selecting the students to receive the awards, consideration is given to their general scholarship, and to their financial need.

INTERMOUNTAIN BROADCASTING COMPANY SCHOLARSHIP IN JOURNALISM. A scholarship of \$100.00 is awarded annually to a student who has completed his sophomore year, who has shown marked ability in journalism, and who has need of financial assistance.

INTERMOUNTAIN BROADCASTING COMPANY SCHOLARSHIP IN MUSIC. A scholarship of \$100.00 is awarded annually to a junior or senior student in the Department of Music who has demonstrated marked ability in his chosen field of concentration and who has need of financial assistance.

STUDENT PERSONNEL SERVICES

THE IVES MEMORIAL SCHOLARSHIPS. These scholarships were established in memory of Julia Louise Ives and Helen Andre Ives. The income from a \$15,000 fund provides three scholarships for women students. Candidates must be residents of New Mexico, preferably living in Albuquerque, in good health, of good moral character, of high scholastic standing, and they must intend to teach. The scholarships are awarded annually by the President of the University in July of each year.

FREDERICK HERBERT KENT AND CHRISTINA KENT SCHOLARSHIPS. Three scholarships are awarded annually to the high school students, residents of the state, who are deemed most worthy by the superintendent of the Albuquerque city high school, and by the University. They will be paid in two installments upon registration in each of the two terms of the freshman year, contingent upon enrollment for a full course of study and successful scholastic work.

NEWMAN CLUB SCHOLARSHIP. An annual scholarship of \$50 established in the memory of Eva Boegen is awarded to a regularly enrolled student who renders outstanding service to the Newman Club of the University of New Mexico during the academic year.

THE PHRATERES CLUB TUITION SCHOLARSHIP. Twenty dollars is given to a sophomore member of Phrateres by the Phrateres Mothers' Club on the basis of the highest scholastic average for the first one and one-half years of course work. She must have carried a minimum schedule of 15 hours of study.

THE RHODES SCHOLARSHIPS. The trustees of the will of Cecil Rhodes have modified the manner of selection of the Rhodes scholars to provide for a maximum of thirty-two scholars each year; each scholar to receive an honorarium of \$2,000 per year and to study two or three years in Oxford University, England.

Early in the fall semester, a committee of the faculty of the University nominates candidates to the state committee for selection. This committee selects two men to represent the state of New Mexico before the district committee, which, in turn selects no more than four scholars to represent the six states which compose a district.

SPUR SOPHOMORE SCHOLARSHIP. Fifty dollars provided by Spur, Sophomore women's honorary organization is given to a woman student upon completion of her freshman year (two consecutive semesters.) Selection is made on the basis of scholarship, leadership, and participation in campus activities and the award is made at the beginning of Semester I.

STUDENT PERSONNEL SERVICES

THE SCHOLARSHIPS OF THE 20-30 CLUB OF ALBUQUERQUE. From two to four \$125 annual scholarships are financed by the Club to be awarded men students, graduates of a public, private, or parochial high school of Bernalillo County, who have completed their freshman year at the University and have maintained a high scholastic record and evidenced constructive interest in public affairs in the community, state, and nation. The awards are made on the recommendation of the faculty of the Government Department.

THE THOMAS M. WILKERSON MEMORIAL SCHOLARSHIP. The income from a trust fund of \$5,000, established by Dr. W. R. Lovelace in honor of Thomas M. Wilkerson, who was killed January 29, 1946, while in the service of his country, is awarded each year to a junior or senior premedical student who is outstanding in scholarship and who gives promise of being a good medical student.

PRIZES

THE ALPHA DELTA PI PRIZE. Twenty-five dollars is given by the Albuquerque Alumnae Club of Alpha Delta Pi to a sophomore woman, majoring in art, on the basis of need and ability.

THE DOVE ASCH PRIZE. Ten dollars is given to an upperclass-woman, with a major or minor in physical education, on the basis of general excellence among the students in that Department.

THE GEORGE E. BREECE PRIZE IN ENGINEERING. A cash prize consisting of the income from a \$600 trust fund is awarded to a graduating senior in engineering, who is enrolled for a full time course of instruction, upon the basis of character, general ability, and excellence of scholastic record as shown during the last two consecutive years of residence in the University.

THE CHI OMEGA PRIZE IN ECONOMICS. Fifteen dollars is awarded each year to the regularly enrolled woman student (Chi Omega members excepted) who has done the best work in economics during the academic year. Selection is made on the basis of scholarship.

THE CHARLES FLORUS COAN PRIZE. The income from a trust fund donated by faculty and friends as a memorial to Charles Florus Coan, Ph.D., Professor of History and Political Science, is awarded annually, for excellence in scholarship, to a worthy student whose major field of study is history.

THE MARIAN COONS PRIZE. A memorial prize consisting of the interest from a \$750 trust fund is given each year to the regularly enrolled senior in the Department of Home Economics who is voted the most kind by her classmates and teachers in that Department.

STUDENT PERSONNEL SERVICES

THE HARRY L. DOUGHERTY MEMORIAL PRIZE IN ENGINEERING. A cash prize consisting of the income from a trust fund contributed by colleagues, students, and friends, as a memorial to Mr. Harry L. Dougherty, Assistant Professor of Civil Engineering, is awarded each year to the student in the College of Engineering who has made the highest scholastic average in residence during his freshman and sophomore years while carrying a normal course of study.

THE CHARLES LEROY GIBSON PRIZE. The interest from a trust fund created by students and colleagues of Charles LeRoy Gibson, Ph.D., Associate Professor of Chemistry, 1943-44, is given to the senior student, major or minor in chemistry, who is judged most outstanding by the faculty of that Department.

THE H. J. HAGERMAN PRIZE. An annual \$50 cash prize was established by the New Mexico Taxpayers Association in 1938. This is awarded to the regularly enrolled undergraduate student who presents the best original study in the field of taxation and public finance in New Mexico. The study should be submitted by December 1st to the faculty of the Department of Economics and Business Administration.

THE TELFAIR HENDON, JR., MEMORIAL PRIZE. The interest from a trust fund of \$500 established by John F. Hendon in memory of his brother, Telfair Hendon, Jr., Fellow and Instructor in English, 1930-33, is given to the graduating senior who has achieved the highest scholastic record as a major in the Department of English.

THE WILLIAM A. MCCARTHY PRIZE. Twenty dollars is given for the best research paper on the history of New Mexico. This award is made on the recommendation of the Department of History.

THE MARCELLA REIDY MULCAHY MEMORIAL PRIZE. The Kappa Kappa Gamma Alumnae Association grants \$10.00 to the student who, in the opinion of a special committee appointed by the Head of the English Department, has excelled in the composition of poetry.

THE NEW MEXICO SECTION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS AWARD. A certificate of merit with entrance dues paid for junior membership in the American Society of Civil Engineers, together with a membership badge, is given to a graduating student in civil engineering who excels in scholarship, holds membership in the student section of the engineering society, is active in student engineering organizations, and who, in the opinion of his professors, shows promise of becoming a successful engineer.

STUDENT PERSONNEL SERVICES

THE PHI KAPPA PHI PRIZES. Two cash prizes of \$10.00 are awarded to the man and woman who, while carrying a full time course of study, rank highest in general scholarship for the freshman year.

THE PHI KAPPA PHI SENIOR PRIZE. Twenty dollars is given each year by the local chapter of Phi Kappa Phi to the graduating senior of any of the six colleges of the University who makes the highest scholastic record of his class.

THE ROSE RUDIN ROOSA PRIZE. The income from a \$1,000 trust fund is awarded each year to the upperclassman or graduate student in the Department of Government and Citizenship who has indicated in the opinion of his professors, the most positive interest in the development of good citizenship. A paper is required.

THE GEORGE ST. CLAIR MEMORIAL PRIZE. The interest from a trust fund established by colleagues, students and friends of George St. Clair, Professor of English, 1923-43, Department Head and Dean of the College of Fine Arts, is granted to the student who has made the greatest contribution in acting, stage design, lighting, or production in the Department of Dramatic Art.

THE KATHERINE MATHER SIMMS MEMORIAL PRIZE. A cash prize consisting of the income from a \$250 trust fund is awarded each year to a regularly enrolled undergraduate, who has been in residence at least one term preceding the time of the contest, on the basis of excellence in prose composition and on the quality of a competitive essay. The decision is made by the faculty of the English department and the Dean of the College of Arts and Sciences.

THE LENNA M. TODD MEMORIAL PRIZE. The interest from a trust fund of approximately \$2,000 is available annually to be awarded to the student or students doing the best work in creative writing in the Department of English. This endowment was created by the will of Dana Paul Todd, as a memorial to his mother, Lenna M. Todd. Dana Todd, Class of '33, served in the United States Army in the Philippines and died in a Japanese prison camp at Osaka, on or about August 15, 1943.

MEDALS

THE C. T. FRENCH MEDAL. The medal is awarded to a graduating senior of the College of Arts and Sciences who has obtained, during his last two years of continuous residence, the highest general average for scholarship in a program of not less than fourteen credit hours a semester.

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THE PHI SIGMA MEDAL IN BIOLOGY. This medal is awarded each year by the National Society of Phi Sigma to a regularly enrolled student in the University of New Mexico for excellence in biology and promise of future achievement.

GENERAL ACADEMIC REGULATIONS

CLASS HOURS AND CREDIT HOURS

A CLASS HOUR consists of fifty minutes. One class hour a week of recitation or lecture, throughout a semester, earns a maximum of one credit hour. One class hour a week of laboratory, orchestra, chorus, or physical training, throughout a semester, earns from one-third to one-half credit hour. One half-hour individual lesson a week in applied music, throughout a semester, earns two credit hours.

GRADES

The grades awarded in all courses are indicative of the quality of work done. Their significance is as follows:

A, Excellent. 3 grade points per credit hour.

B, Good. 2 grade points per credit hour.

C, Average. 1 grade point per credit hour.

D, Barely Passed. No grade points.

F, Failed. F is also given in any course which the student drops after the fourth week of a semester or second week of a summer session, while doing failing work.

I, Incomplete. The grade of I is given only when circumstances beyond the student's control have prevented his completing the work of a course within the official dates of a session. (See grade of PR.) The I automatically becomes an F if not removed (1) within the first twelve weeks of the next semester of residence, (2) within the next four semesters, if the student does not re-enroll in residence. The student may change the I to a passing grade by satisfactorily performing the work prescribed by the instructor. The student obtains from the office of his Dean a permit to remove the I, pays the \$2.00 fee, and takes the card to the instructor, who completes it and returns it to the office of the Dean. The Dean forwards this permit to the Admissions office where official entry on the student's record is made.

W, Dropped Without Discredit. W is given in any course which the student drops after the fourth week of the semester or second week of the summer session, while doing passing work.

CR, Credit. CR is used to report satisfactory completion of Master's thesis.

NC, No Credit. NC is used to report unsatisfactory completion of Master's thesis.

PR, Progress. This grade is used to indicate that master's thesis,

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or a graduate problem, is in progress but not complete. When the problem is complete, a regular grade is reported. When the thesis is complete, CR or NC is reported.

The mark of NR, No Report, is used only in official grade reports to students and parents, to indicate that the instructor has not reported a grade.

CHANGE IN GRADE. No grade except I can be raised by a special examination. A grade of I can be changed to a passing grade in a manner to be determined in each case by the instructor concerned, with the approval of the Dean of the college. (See I above.)

Any other change in grade, after the grade is on record in the Admissions office, may be made only after reasons for such change have been submitted in writing by the instructor concerned, and approved by the Committee on Entrance and Credits.

SCHOLARSHIP INDEX

A student's academic standing is referred to in terms of a scholarship index obtained by dividing his total number of grade points by the total number of hours attempted.* All honors and prizes depending upon scholarship are determined by ranking students according to this index.

GRADE REPORTS

At the end of the eighth week of the semester (mid-semester), and at the end of the semester, grades are reported, for all courses, to the Admissions office.

Copies of semester grades are mailed to parents of undergraduate students, with the exception of married students and students over 21 years of age.

TRANSCRIPTS OF CREDITS

Each time a student completes work in the University, he is entitled to one complete transcript of record without charge. For each additional copy a charge of one dollar is made, except that when several copies are to be made at the same time, all copies in addition to the first will be charged for at the rate of twenty-five cents each. Transcripts of credits cannot be issued until all accounts with the University are settled.

If the student requires special statements to be made concerning his record, or if special forms are to be filled out, the transcript fee of \$1.00 will be charged for such service.

SCHOLASTIC STATUS. An undergraduate student has the status: "in good standing," "on probation," "General College," or "under

* Exclusive of hours in non-theoretical physical education and ensemble music.

GENERAL ACADEMIC REGULATIONS

suspension." The student "under suspension" may, with the approval of the college Dean, re-enroll on probation at the expiration of the suspension period. Students under suspension from the General College may re-enter the University only through the General College. The status "General College" means that the student is not eligible for enrollment in a regular college without release from the General College by the Dean.

HONORABLE DISMISSAL. The status "in good standing," "on probation," or "General College," entitles the student to honorable dismissal, and on transcripts no separate statement of honorable dismissal is necessary. Whether he completes a semester, or withdraws with permission before the end of the semester a student is entitled to honorable dismissal provided that he has the necessary scholastic status, and is in good standing regarding conduct and financial obligations. Honorable dismissal implies that the University will permit the student to re-register in the next session.

WITHDRAWAL FROM THE UNIVERSITY

When an undergraduate student wishes to cancel his registration and withdraw from the University during the semester, he should secure a withdrawal card from the Personnel office; the graduate student should secure the withdrawal card from the Dean of the Graduate School. Grade of W or F are shown on the student's record if he withdraws from the University after the first four weeks of the semester or first two weeks of a summer session. When a student leaves the University during a semester and does not carry out his withdrawal according to this regulation, he renders himself liable for a grade of F in all of his classes, even though he is passing his courses up to the time of leaving.

CHANGES IN REGISTRATION

CHANGE IN PROGRAM OF STUDIES. The student who desires to add a course to, or drop a course from, his program of studies, should obtain from his Dean a petition for change of program of studies. The student obtains signatures called for on this form, and returns it to the office of his Dean. The Dean sends the form to the Admissions office where official entry is made on the student's record. When a student drops a course officially after the first four weeks of the semester or the second week of the summer session, he will receive a grade of W or F according to his standing in the course at the time of withdrawal.

A student is responsible for the completion of every course for which he has registered; if he drops a course at any time without filing the official change of program form, he will receive a grade of

GENERAL ACADEMIC REGULATIONS

F in the course. A fee of \$1.00 is charged for any change made in the student's program of studies after the end of the second week of the semester, or after the end of the first week of the summer session.

CHANGE IN MAJOR OR MINOR. By the middle of the sophomore year, each student should declare his major and minor study, and make his application for a degree. A form for this purpose may be obtained from the Dean's office, and after completion of the form, it should be returned to that office. If the student later wishes to apply for a different degree, change his major or minor, or change his college, he should complete a new application for degree, and return it to the Dean's office.

CHANGE IN COLLEGE. A student who desires to change his registration from one college to another shall petition the Dean of his college. This petition requires approval of the Deans of both colleges and is then filed in the Admissions office.

CHANGE IN ADDRESS. Each student is expected to keep the University authorities informed as to his address. Any change in address should be immediately reported to the Admissions, Deans', and Personnel offices.

ADDITION OF CORRESPONDENCE OR EXTENSION COURSES TO PROGRAM. A resident student may enroll for correspondence and extension courses only when the addition of such course does not cause the student's program to be in excess of the maximum load allowed, and only after permission has been given by the Dean of his college.

SCHOLARSHIP REGULATIONS

The standing of all students (including those who withdraw from the University during the session) with respect to scholarship is checked at the end of each semester and summer session (or at the time of withdrawal). At such times, all students who are deficient in scholarship are placed on probation, or suspended, in accordance with the following regulations. A student placed on probation at any time will remain on probation until the next final examination period.

PROBATION. A student is placed on probation at the end of any semester or summer session when the total number of points earned drops below the total number of hours (in General College, two-thirds) which he has attempted.* Hours given a mark of W will be excluded in this computation, but hours of F will be counted.

* Exclusive of hours in non-theoretical physical education and ensemble music.

GENERAL ACADEMIC REGULATIONS

SUSPENSION. A student is suspended for a period of one calendar year at the end of any semester or summer session when he has been placed on probation for the second successive time. The re-admission of a suspended student after the expiration of the suspension period is contingent upon the approval of the Dean of the college to which he is seeking re-admission. A student suspended from a four-year college may (upon petition approved by both college Deans) enter the General College on probation only in case the total number of his grade points equals or exceeds two-thirds the total number of hours attempted,* and provided he has not received credit for more than 60 semester hours, exclusive of physical education.

A student who is suspended for poor scholarship, or who, after having been placed on probation, fails to re-register for the following semester, shall be considered as on probation upon his return to the University. The same regulation applies to a student who withdraws from the University while on probation, unless his withdrawal grades make him subject to suspension.

A Dean may require a student who is on probation at the time of registration to enroll for the minimum number of hours, and he may at any time require a student on probation to drop as many hours as seem to be in excess of the student's ability.

SUSPENSION BY SCHOLARSHIP COMMITTEES OR DEANS. Regulations on probation and suspension as described above apply only at the end of a semester or summer session. However, during the progress of any semester or summer session the Dean of a college may refer the case of a delinquent student to a college committee on scholarship; and such committee may recommend to the Dean probation or suspension from the University for such student.

Attention is called also to the possibility of suspension as a result of excessive absence. See attendance regulation, p. 77.

ADDITIONAL COLLEGE REGULATIONS. College of Education: It is the opinion of the faculty of the College of Education that candidates for the teaching profession should maintain at least an average scholarship record. Therefore, beginning with the junior year, a student will be recommended for suspension from the College of Education at the end of any semester or summer session when the total number of points earned in university work drops below the total number of hours for which the student has been registered.* Hours given a mark of W will be excluded from this computation.

General College: A student with not more than 60 credit hours of academic work, suspended from one of the four-year colleges on

* Exclusive of hours in non-theoretical physical education and ensemble music.

GENERAL ACADEMIC REGULATIONS

the basis of scholarship, is permitted to enter the General College provided he has earned at least two-thirds as many points as the total number of hours he has attempted.*

A student in the General College is placed on probation at the end of each semester or summer session when the total number of points earned drops below two-thirds of the total number of hours for which he has been registered.* Hours given a mark of W will be excluded in this computation, but hours of F will be counted.

A student in the General College is recommended for suspension at the end of any semester or summer session when he is placed on probation for the second successive time. Students suspended from the General College may re-enter the University only through the General College.

College of Business Administration: See Catalog section "College of Business Administration."

EXAMINATIONS

REGULAR EXAMINATIONS. Examinations in each course are held at the close of each semester, and at intervals during the semester at the discretion of the instructor. All students, including graduating seniors, are required to take semester final examinations, which are held according to a notice issued by the Schedule Committee.

GRADUATE RECORD EXAMINATION. See p. 80.

NATIONAL TEACHERS EXAMINATION. See p. 80.

SPECIAL EXAMINATIONS. A special examination is one taken at a time other than regularly with the class. Classified as special examinations are: examinations given to make up missed regular course examinations, examinations to validate or to establish credit, examinations to remove a grade of I, examinations for the removal of entrance deficiencies.

Entrance examinations for students deficient in entrance units, or for graduates of unaccredited or partially accredited high schools who must validate their unaccredited work, are given at the beginning of each semester to each student who desires to take them. These entrance examinations in the various high school subjects are not to be confused with the entrance tests which are required of all freshmen.

A fee is charged for all special examinations except the entrance examination. For a list of the special examination fees, see section of the catalog entitled "Student Expenses."

Before the student is admitted to a special examination, he must present to the instructor a permit signed by the Dean of his college.

* Exclusive of hours in non-theoretical physical education and ensemble music.

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The Director of Admissions issues permits for entrance examinations. For those examinations where a fee is required, the permit must show the Comptroller's receipt of the fee.

EXAMINATION FOR ADVANCED STANDING. A student in residence in an undergraduate college shall have the privilege of passing a course in the University by special examination without attendance upon the course, and receive undergraduate credit therefrom, such privilege to be subject to the following restrictions:

1. He shall not have been previously registered in the course in any division of any college or university.
2. The applicant shall have a scholarship index of two or more in a normal program of studies completed during the last semester (or last two summer sessions) in residence, and he shall be doing superior work at the time of taking the examination.
3. The examination shall have the approval of the Dean of the college, the Head of the department, and the instructor concerned.
4. The applicant shall obtain from the Dean of his college a permit for the examination, and shall pay in advance the required fee of \$2.50 per credit hour.
5. The student shall obtain in the examination a grade not lower than C, and shall show a mastery of the course acceptable to an examining committee of three, appointed by the Dean, including the instructor and the Head of the department concerned.
6. Credits earned through advanced standing examinations do not apply to residence requirements.

DISHONESTY IN EXAMINATIONS. A student found guilty of dishonest practices in a quiz, test, examination, or other work will be subjected to disciplinary measures. Dismissal from the University will result in cases where the offense is flagrant.

ATTENDANCE

Students are expected to attend all meetings of the classes in which they are enrolled. No extensions of the vacation periods are given to any students, regardless of the location of their homes. Non-attendance at classes due to late registration is considered the same as absence incurred after registration.

Instructors will keep a record of class attendance, and will report all absences to the Dean of the college concerned. A student with excessive absences may be dropped from a course with the grade of F, by the Dean of the college, upon recommendation of the instructor. The Dean may suspend a student from the University, on the grounds of neglected duty, when he has thus been dropped from two courses.

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Absences due to illness, field trips, athletic trips, etc., are to be reported by the student to the instructor and to the Personnel office. Such report does not relieve the student of responsibility for lost work. It is the duty of the student to take the initiative in arranging with his instructors to make up work missed.

Students who are absent and unexcused from final examinations, or other closing exercises of the classes in which they are enrolled shall be given the grade of F. A grade of I may be given when there is valid reason for absence from the examination.

UNIVERSITY ASSEMBLIES

University assemblies may be called by the President of the University or requested by the Student Council at any time when the occasion demands.

Owing to the lack of adequate space for all-student-body assemblies, the effort to have regular assemblies has been discontinued. For the same reason, it has also been necessary to discontinue the practice of requiring attendance of all students at assemblies.

Until it is found possible and practicable to erect an auditorium of suitable size for student assemblies, it will be necessary to make attendance at all assemblies on an entirely optional basis.

DEGREE REQUIREMENTS

The student may graduate under the catalog requirements for the year in which he registered in the University of New Mexico for the first time, provided he completes graduation requirements within a continuous six-year period. If a student interrupts his attendance, he must graduate under the catalog in effect at the time of his readmission.

For information concerning the various degrees offered, and for course and scholastic requirements leading to these degrees, students should refer to those sections of the catalog devoted to the colleges.

The student is solely responsible for knowing the rules and regulations concerning graduation requirements and for registering in the courses necessary to meet specifications for the degree.

TWO UNDERGRADUATE DEGREES. Two undergraduate degrees may not be granted a student until he has earned the equivalent of five years' college work (as represented by a minimum of 30 semester hours above the requirements for the first degree), and has fulfilled all requirements for both degrees. A transferring graduate should notify the Director of Admissions when applying for admission if he plans to work for a second undergraduate degree.

GENERAL ACADEMIC REGULATIONS

NOTICE OF INTENTION TO COMPLETE DEGREE REQUIREMENTS. At the middle of the sophomore year, all candidates for degrees are required to file in the Deans' offices applications for degrees. Necessary forms may be secured from those offices.

SPECIFIC COURSES REQUIRED. Four semester hours of required physical education (or equivalent N.R.O.T.C. credits) shall be completed by all students in the University. Veterans and students over thirty years of age are exempted from the physical education requirement.

For specific requirements leading to degrees in the various curricula, students should refer to the courses of study outlined in the listings of the different colleges.

DIVIDENDS AND PENALTIES. For every 15 semester hours of A, or for every 30 semester hours of B, the hours required for graduation are reduced by one. The maximum of such dividends allowed is four. For every 15 semester hours of D, the hours required for graduation are increased by one. No dividends or penalties are given in the Colleges of Engineering and Pharmacy. Dividends and penalties are assessed only on work done in residence at the University of New Mexico.

SENIOR RESIDENCE REQUIREMENTS. Residence credit is defined as credit earned by attendance in regular classes on the University of New Mexico campus or in one of its field sessions. Credits earned through the Extension Division or by examination are not counted toward the residence requirement.

Students who have done less than 60 semester hours in residence previous to senior status (see "Classification of Students") shall earn 30 semester hours in residence in the senior year.

Students who have done 60 semester hours, but less than 90, in residence previous to senior status, shall earn 24 semester hours in residence in the senior year.

Students who have done 90 or more semester hours in residence previous to senior status shall earn 18 semester hours in residence in the senior year.

In no case is the number of hours specified to be earned in the senior year to be interpreted as necessarily the last hours.

Students may fulfill part or the whole of this residence requirement by summer session attendance.

RESIDENCE REQUIREMENTS IN MAJOR AND MINOR. At least one-half of the minimum number of credit hours required for major study and one-fourth of the minimum number of credit hours required for minor study must be class or laboratory work earned in residence in the University. When a senior transfer student plans

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to complete a major by presenting credit hours earned in residence at another institution, the departmental adviser may modify this ruling, not, however, below one-fourth of the total minimum hours required for the major.

GRADUATE RECORD EXAMINATION. All seniors (except those enrolled in the College of Education) are required to take the Graduate Record Examination during the last term of residence.

NATIONAL TEACHERS EXAMINATION. All seniors enrolled in the College of Education are required to take this examination during the last term of residence. The examination is given *once* a year, usually on the second and third Saturdays in February.

EXTENSION AND CORRESPONDENCE HOURS ALLOWED TOWARD DEGREE. As many as 40 semester hours in University extension and correspondence courses will be allowed toward the bachelor's degree provided that at least 10 of the 40 have been earned in extension courses taught by regular resident instructors of the University.

Credit will be allowed for extension and correspondence courses completed in institutions which are on the approved list of the National University Extension Association, of which the University is a member. Credit for extension and correspondence courses completed in institutions which are not on the approved list of the N. U. E. A., will not be allowed until the student has successfully passed a validating examination covering each course.

COMMENCEMENT

Normally, commencement exercises are held at the end of Semester II. Students who complete their requirements in an off-session receive their diplomas at the next regular commencement.

Students must participate in the commencement exercises at the time of receiving diplomas, unless excused by the Dean of the college concerned.

GRADUATION WITH HONORS

THE DEGREE WITH DISTINCTION. All senior students having scholarship indexes which rank them in the upper 5 per cent of the graduating class of the University will be graduated "With Distinction." Ranking will be based upon all work taken at the University of New Mexico. Transferred students must present a minimum of 45 credit hours earned at this institution to obtain these honors.

THE DEGREE WITH HONORS (HONORS WORK). The University faculty has created a Division of Honors Work under which the baccalaureate degree with honors may be earned. For details of the plan see "Division of Honors Work."

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DIVISION OF HONORS WORK

The purpose of the Division of Honors is to afford abler and more ambitious students opportunity to pursue with a certain degree of independence a program of studies which will extend and intensify their knowledge of the field of their major or minor studies, develop their initiative and self-guidance, and their critical and creative ability. This program may lead to the baccalaureate degree with honors.

ELIGIBILITY. Students in all undergraduate colleges will be permitted to undertake and to continue Honors work, when, upon the basis of their previous records, entrance tests, and university records, they show, in the judgment of the Committee on Honors Work, promise of fine scholarly achievement. There must be other promise than that indicated by an average of B or better.

TYPES OF HONORS PROJECTS. (A) Projects which will extend Honors students' knowledge of their major or minor field, especially by filling up the interstices between their regular courses. Each semester's work should be terminated with an examination covering such work.

(B) Projects of the nature of intensive study designed to develop critical and creative ability, or in other words, an undergraduate grade of research, extending through one semester or a whole academic year, and terminating in a thesis.

PROCEDURE. Sophomores and juniors should preferably undertake honors work projects of type A, and seniors should preferably undertake honors projects of type B. Projects should be organized to earn, normally, 1 to 3 credit hours per semester.

PRIVILEGES. (1) Honor students will receive consideration if they find it necessary to make application to University agencies for financial aid.

(2) All students carrying Honors work are eligible for auditing privileges and may obtain Honors Audit Cards from the Dean's office.

(3) Juniors and seniors carrying Honors work are eligible for stack privileges at the Library.

(4) The best senior theses each year will be recommended to the Committee on Publications as a University bulletin or for deposit in the University or departmental library.

For further information on regulations and requirements for Degrees with Honors, consult the Chairman of the Committee on Honors Work.

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COLLEGE OF ARTS AND SCIENCES

THE COLLEGE of Arts and Sciences attempts to supply the cultural training which should underlie the more specialized work of the graduate, professional, or vocational school. The materials for this training are provided by the interests and achievements of man as they appear in his cultural records, his social institutions, and his investigation of natural laws.

DEGREES

Upon the recommendation of the faculty and the President of the University, the degree of Bachelor of Arts is conferred by the Regents upon those candidates who have completed all specified requirements. Candidates who complete the requirements with majors in dietetics, mathematics, or the sciences will receive the degree of Bachelor of Science, unless special request is made for the Bachelor of Arts degree. For information on the degree of Bachelor of Science in Naval Science, consult the Dean of the College.

RELATION TO PROFESSIONAL AND VOCATIONAL COURSES

The Bachelor of Arts and the Bachelor of Science degrees of the College of Arts and Sciences are based upon cultural, rather than professional or vocational courses. The courses preparatory to law, medicine, and the other professions are planned and taught as cultural subjects and do not infringe upon the work of the professional school. No vocational courses offered in the General College are accepted. Concerning the limited acceptance of work in business administration, education, engineering, law, medicine, and fine arts, see Electives and Special Curricula.

GRADUATION REQUIREMENTS

Candidates for the degree of Bachelor of Arts or Bachelor of Science are required to complete a total of 124 semester hours in academic subjects, and 4 semester hours in physical education. In the first two years, or Lower Division, the student is expected to acquire certain basic essentials and to explore several different fields to determine where his interests lie. In the last two years, or Upper Division, the student devotes himself to his major and minor, and to such other subjects as he may wish to take. *The student is solely responsible for completing all requirements for graduation.*

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LOWER DIVISION REQUIREMENTS

1. At least 60 semester hours in courses acceptable toward graduation, in addition to 4 semester hours in physical education.

2. A one-point index for the total number of hours which the student has attempted.*

3. The completion of group requirements as described below.

4. Successful conclusion of a proficiency examination in English.

5. In all subjects except foreign language, students in the Lower Division are restricted to courses numbered below 100 with the provision that a student may be admitted to Upper Division courses at the discretion of the Dean of the College: (1) if he has completed within 7 hours of the group requirements, of which not more than one hour shall be in physical education, nor more than 6 hours in foreign language; (2) if he has completed not less than 45 credit hours, exclusive of physical education, earning at least a one-point index for all hours which he has attempted; and (3) if the remaining requirements appear upon his program.

6. Students in the Lower Division may not carry more than 8 hours in one department during one semester. (Exceptions may be made in the case of premedical students.)

7. Not more than 50 hours in courses open to freshmen may be taken without a penalty of 1 hour for every 3 excessive hours.

8. Exceptions to any of these rules may be made only upon recommendation of the Dean.

UPPER DIVISION REQUIREMENTS

1. Completion of at least 40 hours in courses numbered above 100 with at least a one-point average in all such hours carried.

2. Completion of at least one major and one minor, or two majors.

3. Grade-points equal to the total number of hours which the students has attempted.*

GROUP REQUIREMENTS

In keeping with the exploratory aim of the Lower Division, the student distributes part of the work of his first two years among the four following groups of subjects. The acceptability of transferred work toward fulfilling the group requirements lies in the judgment of the Director of Admissions and the Dean of the College.

I. ENGLISH. Six semester hours must be earned in English 1, 2, (unless English 1 has been waived) and 3 additional credit hours

* Exclusive of hours of non-theoretical physical education and ensemble music.

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must be earned in a course in literature numbered above 50. Failure to pass the sophomore English proficiency test at first trial will result in an additional requirement of three hours of sophomore composition.

II. FOREIGN LANGUAGE. A student who has been admitted with no credit in a foreign language, or who begins a language in which he has done no work in high school is required to complete four semesters or twelve credit hours in one foreign language.

Other students continuing a language begun in high school will be tested and assigned to courses according to ability shown. Such students will then complete the remainder of the twelve hours required.

III. SOCIAL SCIENCES. Nine semester hours (not more than 6 from one department) must be completed in approved† courses in the departments of Anthropology, Economics, History, Government and Citizenship, Philosophy, or Sociology. A student admitted with less than 1 unit in social science is required to complete 12 hours in this group.

IV. MATHEMATICS AND SCIENCES. Eleven semester hours (not more than 8 from one department, and including 2 semesters in courses that require laboratory work) must be completed in approved† courses in the Departments of Biology, Chemistry, Geology, Home Economics, Mathematics, Physics, or Psychology. A student admitted with high school deficiencies in both mathematics and science is required to complete a total of 17 hours in this group.

MAJOR AND MINOR STUDIES

A student admitted to the Upper Division shall declare his major subject, and his program of studies thereafter shall meet with the approval of the head of the major department. A major regularly consists of not less than 24 hours in approved courses. The student must also complete, in another department, a minor of not less than 12 semester hours. The selection of the minor is subject to the approval of the head of the student's major department.

Only work of at least C quality is accepted toward the major and the minor; courses in which grades of D are earned may be accepted as electives toward graduation.

ELECTIVES

A student who has fulfilled all other requirements for graduation may use electives to complete his total of 124 hours for graduation, subject to the following restrictions:

† For approved courses, see Departments of Instruction.

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A maximum of 24 hours in any combination, earned in courses offered in the Colleges of Business Administration, Engineering, Education, Fine Arts, and Pharmacy, or in Naval Science, is acceptable as electives in the College of Arts and Sciences, with the following exceptions:

- (1) All theory and method courses in physical education.
- (2) All courses in education in methods, supervision, and practice teaching.
- (3) In excess of 4 hours in ensemble music.
- (4) In excess of 3 hours of shop work.

A major in dietetics leading to the degree of Bachelor of Science may be given in special cases upon approval of the Dean of the College.

The normal program for a student intending to graduate in four years is 16 hours a semester. Seventeen hours, plus one semester hour of physical education is the maximum, except by petition to the Committee on Scholarship, which may, at its discretion, grant up to 19 hours (including non-credit courses). Ordinarily, a petition for excessive hours will not be considered unless the student has in the preceding semester made a grade of B in more than half of his hours, and no grade below C.

NORMAL FRESHMAN PROGRAM

Following is the standard freshman program; necessary deviations from it should be made only after consultation with a faculty adviser.

First Semester		Second Semester	
*English 1	3	English 2	3
Foreign Language	3	Foreign Language	3
Social Science	2-3	Social Science	2-3
Natural Science or Mathematics	4-3	Natural Science or Mathematics	4-3
Physical Education	1	Physical Education	1
Additional group requirements	4	Additional group requirements	4
* Naval Science	3	* Naval Science	3

* If the student fails to pass the placement test, English A is taken in addition to English 1.

* Naval Science may be substituted for one subject as prescribed by the Dean.

PRE-PROFESSIONAL AND OTHER CURRICULA

Students are cautioned against assuming that four-year college courses always prepare for professional work. At least one year of specialized graduate work is advisable, even if not actually required.

COMBINED CURRICULUM IN ENGINEERING AND ARTS AND SCIENCES. Degrees in both the College of Arts and Sciences and the College of Engineering may be obtained by following a five-year curriculum,

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to be outlined in each case, jointly, by the Deans of the two colleges. Any student interested in this curriculum should confer with the Deans before the end of the sophomore year. For students interested in careers in countries to the south of the United States, attention is called to a major in Inter-American Affairs along with engineering.

SENIOR YEAR IN MEDICINE OR LAW. A candidate for the bachelor's degree may offer, in lieu of the last thirty hours at the University of New Mexico, the full first year's work (satisfactorily passed and properly certified) in an approved school of law or medicine requiring three years for entrance, provided: (1) that written notice of this intention be submitted to the Dean before the end of the junior year; (2) that the first three years of work (94 semester hours and 4 P. E.) shall have been taken in residence at the University of New Mexico; (3) that, before entrance into the professional school, the candidate shall have completed all specific and group requirements, and major and minor requirements, in accordance with University regulations; (4) that at least 75 per cent of the hours completed before entrance into the professional school shall have been of C grade or better, and that the total of grade-points shall at least equal the total number of hours which the student has attempted.

CURRICULUM PREPARATORY TO FORESTRY. Openings in the field of forestry have been greatly diminished in recent years. Only students with special talents and high scholastic average should undertake such preparation. Information regarding it may be obtained from the Department of Biology.

FOR CURRICULA RELATING TO INTER-AMERICAN AFFAIRS see p. 90.

FOR STUDENTS WHO PLAN TO STUDY LAW. See "College of Law."

CURRICULUM PREPARATORY TO MEDICAL TECHNOLOGY. Besides regular requirements and prerequisites, a three-year curriculum has been arranged which includes: Biology 93L, 143L, 144L, 152L; Chemistry 53L, 101L, 102L; Physics 11L, 12L. Candidates are urged to complete a major in either biology or chemistry, and adjustments in courses named above may be made by the Department Head. A year's work in more technical subjects and a year of practical hospital experience are also required for the professional degree.

CURRICULUM PREPARATORY TO MEDICINE. The minimum of college hours required for admission to medical schools approved by the Association of American Medical Colleges and by the Council on Education of the American Medical Association is 60 semester

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hours in a college of arts and sciences. Since the admission requirements vary, the premedical student should familiarize himself with the requirements of the particular school he wishes to attend.

At the University of New Mexico the curriculum for the first two years for these students is as follows:

First Year		Second Year	
English 1, 2	3-3	English, and Psychology 51	3-3
French or German	3-3	French or German	3-3
Chemistry 1L, 2L	4-4	Social Science, Chemistry 53L	3-5
Biology 1L, 2L	4-4	Biology 71L and 121L	4-5
Math. 15, 16	3-3	Physics 11L, 12L	4-4
Physical Education	1-1	Physical Education	1-1

CURRICULUM PREPARATORY TO NURSES' TRAINING. A special freshman curriculum has been arranged for students entering nurses' training. Following successful completion of this course of study, students may enter the Regina School of Nursing at the St. Joseph Hospital, Albuquerque, where they may obtain the clinical experience and other training necessary to graduation as registered nurses. The course thus outlined will require approximately four years.

During the freshman year at the University, students will pursue the following curriculum:

English 1, 2	3-3	Chemistry	5-5
Microbiology 33L	3	Psychology 1L, 2L	3-3
Human Anatomy and Physiology 36-39L	5	Social Science	3
			16-16

N.R.O.T.C. CURRICULUM

First Year		Second Year	
English	3-3	English	3
Foreign Language	3-3	Physics	4-4
Social Science	3-3	Foreign Language	3-3
Mathematics 11, 15	3-3	Mathematics 16	3
Naval Science*	3-3	Naval Science*	3-3
Physical Education	1-1	Social Science	3
		Physical Education	1-1

* Laboratory periods at 11 o'clock Tuesday and Thursday must also be reserved on student's schedule.

SOCIAL WORK TRAINING PROGRAM

The undergraduate program in social work at the University of New Mexico is planned to meet two needs: (1) to recruit personnel which could be immediately useful to a social work agency after a planned undergraduate curriculum; (2) to provide a reservoir of potentially able students who will enroll in graduate schools of social work as a progression from their undergraduate curriculum or as students returning later from practice to complete their professional training.

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REQUIREMENTS FOR DEGREE

Candidates for the Bachelor of Arts degree must fulfill lower division requirements of the College of Arts and Sciences. The basic curriculum is designed to provide a broad background in the social, economic, and governmental fields. The student should consult the Director of the Program in order that his individual needs may be met. Those who plan to work in New Mexico, for example, should have Spanish as a foreign language. In the natural sciences, biology has a special contribution to make to the field.

In addition to Introduction to Social Science, the combined major and minor includes the following:

- I. **SOCIAL WORK:**

Government 170	Social Welfare: Org. and Adm.	(3)
Sociology 151, 152	Introduction to Social Work	(3, 3)
Sociology 197	Field Observation and Participation	(3)
- II. 24 Hours Elected from Sociology and one or more additional fields with preference for the following courses:

Government 51, 52	American Government	(3, 3)
Government 121	Public Administration	(3)
Economics 105	Principles of Economics	(3)
Economics 140	Economic Security	(3)
Economics 141	Labor Problems	(3)
Psychology 51	General Psychology	(3)
Psychology 60	Dynamics of Personality Adjustment	(3)
Psychology 101	Social Psychology	(3)
Psychology 131	Psychological and Educational Tests	(3)
Psychology 103 or	Abnormal Psychology	(3)
Psychology 187	Child Psychology	(3)
Sociology 51	The Family	(3)
Sociology 72	Social Pathology	(3)
Sociology 81	Rural Sociology	(3)
Sociology 110	Juvenile Delinquency	(2)
Sociology 154	Race and Culture Relations	(3)
Sociology 195	Population Problems	(3)
- III. **ELECTIVES:** Electives may be chosen to round out a student's interest. Courses in English, history, anthropology, biology, child development or foods courses in home economics, statistics or accounting are recommended.

COLLEGE OF ARTS AND SCIENCES

SCHOOL OF INTER-AMERICAN AFFAIRS

An ever-growing number of people are realizing that a better understanding of, and closer and more satisfactory relationships with, the other nations of the Hemisphere are among the most vital needs of the United States today.

All over the country interest in the study of Spanish and Portuguese and of the history, literature, arts, and present geographic, social, economic, and political problems of our Latin American neighbors is increasing. In many cases, however, high schools and colleges find it difficult to secure sufficiently trained teachers for

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presenting these subjects. There is also a basic necessity for persons with a sound knowledge of the "other Americas" to engage in inter-American business, government, information and technical activities.*

The University of New Mexico enjoys an exceptionally favorable position for the study of inter-American and regional economic and cultural problems. Nowhere else does one find the three chief ethnic elements of the Americas—Indian, Hispanic, and Anglo-Saxon—living together in large numbers with a common national allegiance, and maintaining their traditional cultures. About half the population of the state speak Spanish as a native language, and a good many of the problems presented by our Southwestern region are closely integrated with those of inter-American relations. Because of geographic proximity and common human and scientific interests, New Mexico has maintained close bonds with our good neighbor, Mexico, who has provided us with a solid introduction to Latin America.

For these reasons, the University of New Mexico has, for a number of years, devoted particular attention to Latin-American and Southwestern studies. A special appropriation of the State Legislature made possible the expansion of this work and the establishment of the School of Inter-American Affairs in the fall of 1941.

The School is a coordinating administrative unit operating under the College of Arts and Sciences and the Graduate School.

The offerings in the field of Inter-American Affairs have been coordinated and developed into several interdepartmental curricula:

I. B.A. in Inter-American Affairs, with emphasis on four aspects: Historical and Cultural; Business Administration; Social, Economic, and Political Affairs; and Regional (The Hispanic Southwest.) The choice of one of these directions should be made in the sophomore year, so that in consultation with the Director of the School the electives may be applied according to the plans of the student. (For Master of Arts in Inter-American Affairs, see p. 98.)

II. A two-year course for Secretary-Interpreters Specializing in Inter-American Relations.

III. A one-year intensive course in Inter-American Relations for graduate students, business men, professionals, and technicians.

Though Portuguese is not made a required study in the various curricula in Inter-American Affairs, the School urges its students to

* An *Orientation Lecture on Inter-American Affairs* adequately explaining the nature and scope of this field of study, its importance, and the opportunities opened to its graduates, etc., will be sent free of charge upon request to the Director of the School.

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elect it and to equip themselves with at least a reading knowledge of the language. The School also strongly recommends that students aiming at a preparation for a business career intensify their studies in Economics and Business Administration.

To help in the placement of students, the University established in 1947 a General Placement Bureau, which maintains contact with business concerns, state and federal agencies, and other organizations. The Bureau is compiling a directory with as much data as possible on the opportunities open to graduates of our School.

SCHOLARSHIPS

ALL UNIVERSITY LATIN-AMERICAN SCHOLARSHIPS. In the academic year 1948-1949, the University of New Mexico is offering two scholarships covering tuition and room and board and four covering tuition only to qualified graduate and undergraduate students from any Latin-American countries who are planning to pursue studies in any of the departments of the University. These scholarships have been established by the Regents and are administered jointly by the University and the Institute of International Education. Information may be obtained from the Director of the School of Inter-American Affairs. *All applications must be received not later than June first.*

SCHOLARSHIPS IN INTER-AMERICAN AFFAIRS. The School of Inter-American Affairs is offering in the academic year 1948-1949 six tuition scholarships in the general course leading to a B.A. in Inter-American Affairs and in the Secretary-Interpreters Course. These scholarships are open to well-qualified graduates of high schools of the state of New Mexico who deserve financial assistance and who are planning to enter the University as freshmen. It also offers three tuition scholarships to undergraduates other than freshmen or graduate students from New Mexico or outside the state. For application forms and further information address the Director of the School. *All applications must be received not later than June first.*

GENERAL CURRICULUM IN INTER-AMERICAN AFFAIRS

The curriculum leading to a B.A. with a major field of concentration in Inter-American Affairs has been designed to provide a general basic training in fundamental subjects and at the same time a wide choice of supplementary courses to meet individual needs and preferences.

The emphasis of this major field of concentration is on language study and on the social sciences with particular attention to the Hispanic countries. Proficiency in Spanish will be a basic requirement since students are expected to use the language as a

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tool in the various courses of Hispanic content given in other departments.

Attention is also called to the fact that this is not a departmental major, but a *major regional field of concentration*, integrating the studies of Hispanic content and allied subjects offered by the various departments. Even granting the regional character of the major, the program of studies devised is sound academically, presenting as it does a wide and representative training in the liberal arts.

Because of its comprehensive and integrated concentration in the field of Inter-American Affairs, this major permits no minors in the departmental sense, nor can a minor be taken in Inter-American Affairs. However, credits equivalent to minors and even majors can be earned through electives in instructional departments. For this purpose students may choose in their sophomore year fields of interest. Thus, besides the general preparation in Inter-American Affairs, they may obtain added proficiency in other lines of study.

A close examination of the subjects required as Gateway and Basic Courses and of the wide range of electives allowed will show the variety of content and flexibility of the major. As a matter of fact, this curriculum would serve for those students not necessarily interested in utilitarian pursuits in the field, but wanting to get, within the scheme of a well-rounded college education, a solid acquaintance with Latin-American problems for the general purpose of developing an enlightened inter-American consciousness in whatever occupation they may enter.

GATEWAY COURSES.* (Prerequisite to the Basic Upper Division Courses, and to be taken in the freshman and sophomore years):

History 1, 2.

Western Civilization 6

Social Science 1, 2.

Introduction to Social Science 6

†*Introduction to Latin America*

(Anthropology, Economics, Government, or Sociology 73) ... 3

Total credits 15

* For fuller description of the courses see departments of instruction.

† *The land and the people: geographic background and cultural landscape. An intensive survey of the social, political and economic institutions of the Latin American States.* An understanding of the differences between Latin and Anglo-Saxon America and a basis for a satisfactory relationship are sought through the study of the principal factors which contribute to the development of Latin America's social, economic, and political life and of the basic issues of today, such as land distribution, public health, popular education, formation of the middle class, economic nationalism, standard of living, labor conditions, the chances of democracy, and the problems of foreign influences. Emphasis will be given to the relations between the United States and Latin America. Bibliography and sources of information.

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List of recommended electives in the freshman and sophomore years, according to the interests of the students:

<i>Anthropology 1, 2.</i>	
General Anthropology	6
<i>Anthropology 71.</i>	
Survey of Anthropology	2
<i>Biology 5.</i>	
Introduction to the Physical Sciences	3
<i>Biology 6.</i>	
Introduction to the Biological Sciences	3
<i>Business Administration 5, 6.</i>	
Principles of Accounting	6
<i>Economics 51, 52.</i>	
Introduction to Economics	6
(Or preferably <i>Economics 105</i> , Principles of Economics. 3 cr., if the student has had 45 cr. with a minimum C grade point average)	
<i>Economics 63.</i>	
Economic Resources	3
<i>Government 51.</i>	
American Government and Politics (National Government) ..	3
<i>History 11, 12.</i>	
History of the Americas	6
<i>History 51, 52.</i>	
History of the United States	6
<i>History 85.</i>	
History of Modern Russia	2
<i>Philosophy 1, 2.</i>	
Introduction to Philosophy; Philosophy, Science, and Religion	2-3
<i>Philosophy 72.</i>	
American Thought	3
<i>Portuguese 1, 2.</i>	
Elementary Portuguese	6
<i>Portuguese 51, 52.</i>	
Intermediate Portuguese	6
BASIC UPPER DIVISION COURSES. (To be taken by juniors and seniors.)	
<i>Anthropology</i>	
106 The American Indian: South America	3

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119	Races and Cultures of Europe and Asia	3
184	Archaeology of Mexico, Central America, and the West Indies	3
186	American Archaeology: South America	3
<i>Art</i>		
141	Art of the Americas	2
192	Contemporary Mexican Painters	2
<i>Biology</i>		
*105	Ethnobiology of the New World	3
<i>Economics</i>		
119	Current Problems of Foreign Trade	3
121, 122	Economics and Trade of Latin America	4
<i>Geography</i>		
101, 102	Physical Geography of Latin America	6
188	Cultural Geography: Old World	3
189	Cultural Geography: Latin America	3
<i>Government</i>		
141	International Relations or	3
151	American Diplomacy	3
155	The Governments of Latin America	3
<i>History</i>		
161, 162	History of Latin America	6
163	The A.B.C. Powers in Recent Times	3
165, 166	History of Spain	4
167	History and Civilization of Portugal and Brazil	2
168	Mexico and the Caribbean	3
<i>Philosophy</i>		
123	Hispanic Thought	2
<i>Sociology</i>		
107, 108	Man and Society in Latin America or	4
111, 112	Social Problems of Latin America	4
154	Race and Culture Relations	3
<i>Spanish</i>		
145, 146	Ibero-American Civilization (conducted in Spanish) 4	

Required of all students in this major: Economics 121, 122, and Geography 101, 102 10

To be chosen from among the courses listed in Anthropology, Art, Economics, Geography, Government, History, Philosophy, and Sociology with a maximum of departments to be repre-

* The prerequisite of 4 hours of Biology is waived for majors in Inter-American Affairs. This course can be applied toward the Group IV requirement in Mathematics and Science. (See p. 85.)

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sented (Courses listed above when not included in this count are acceptable as electives)	14-15
Total credits	24-25

COMPUTATION OF CREDITS. Required for the B.A. degree: 124 credits (plus 4 semester hours in Physical Education) to be met as follows:

Group I. English Requirement: English 1, 2, and 3 credits in a course in literature numbered above 50 9

**Group IV. Mathematics and Science Requirements:* 11

Gateway Courses: (Will meet *Group III, Social Science Requirement*) 15

Spanish Courses: (Will meet *Group II, Foreign Language Requirement*) For students entering the University without any knowledge of Spanish 30

The required courses in third and fourth year Spanish are: 91-92 (6 cr.); 93-94 or 95-96 (4 cr.); 131-132 (4 cr.); and 157-158 or 163-164 (4 cr.).

Students may be absolved from some of the Spanish course requirements by passing reading knowledge or proficiency examinations, corresponding to the attainment of two and four years of college Spanish, respectively.

An adequate oral and written knowledge of Spanish will be certified in their senior year for all students majoring in this field. This applies to candidates for the B.A. and M.A. degrees. The coöperation of the Modern Languages Phonetic Laboratory has been secured for accurate oral testing.

Basic Upper Division Courses: (See preceding section. 10 are required, and 14-15 are elective from among the list of approved courses) 24-25

Elective Courses: The number of electives available to the student will depend on the amount of work in Spanish he has done in high school. Besides the electives among the Basic Upper Division Courses above, the *minimum number of free electives* will be 35

Total credits 124-126

* Because of the great usefulness of scientific preparation in the Latin-American field, students with ability for science study are urged to devote as many electives as possible to science. On consultation with the Director of the School, other science courses not listed as electives will be allowed as such. Biology 5 and 6, Introduction to the Physical and Biological Sciences, respectively, are strongly recommended.

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SUPPLEMENTARY COURSES (ELECTIVE). Listed below by numbers are the courses recommended as electives. For full description see the sections of the various departments. For their application to the specialization groups, consult the Director of the School.

Many of these courses have certain departmental admission requirements which the student must meet. In order to facilitate the enrollment of majors in Inter-American Affairs, however, certain departments have found it possible, without detriment to their standards of work, to waive all or part of their prerequisites for admission to some of the courses listed as electives.

Note that by faculty regulation, a maximum of 24 credits in colleges other than Arts and Sciences (i.e., Business Administration, Education, Fine Arts, Engineering, and Pharmacy), with certain exceptions, may be applied toward a B.A. degree in that College.

Anthropology 8, 71, 75F, 99, 101, 102, 105, 109, 138, 140, 142, 147, 150, 155, 156, 157, 158, 175F, 185, 193, 198, 199F

Art (Painting and Design) 1, 2, 21, 31, 52, 57, 62, 132, 152, 157, 158, 161

**Biology* 5, 6, 41, 48, 163L, 171L

Business Administration 5, 6, 63, 64, 65, 101, 102, 104, 106, 107, 108, 109, 110, 112, 114, 115, 130, 131, 134, 143, 157, 165

Dramatic Art 1, 2, 10, 11, 51, 60, 61

Economics 51, 52, 63, 105, 111, 140, 141, 154, 160, 161, 162

Education 101, 102, 105, 106, 107, 109, 112, 148, 149

Engineering 156

English 53, 54, 55, 57, 58, 63, 64, 68, 75, 76, 77, 82, 84, 121, 122, 132, 147, 149, 164, 165, 166

**Geology* 54, 105

Government and Citizenship 51, 52, 101, 103, 105, 121, 143, 167, 169, 170, 175

History 31, 51, 52, 71, 72, 85, 91, 96, 111, 121, 123, 131, 135, 142, 145, 146, 171, 173, 174, 178, 179, 181, 191, 192

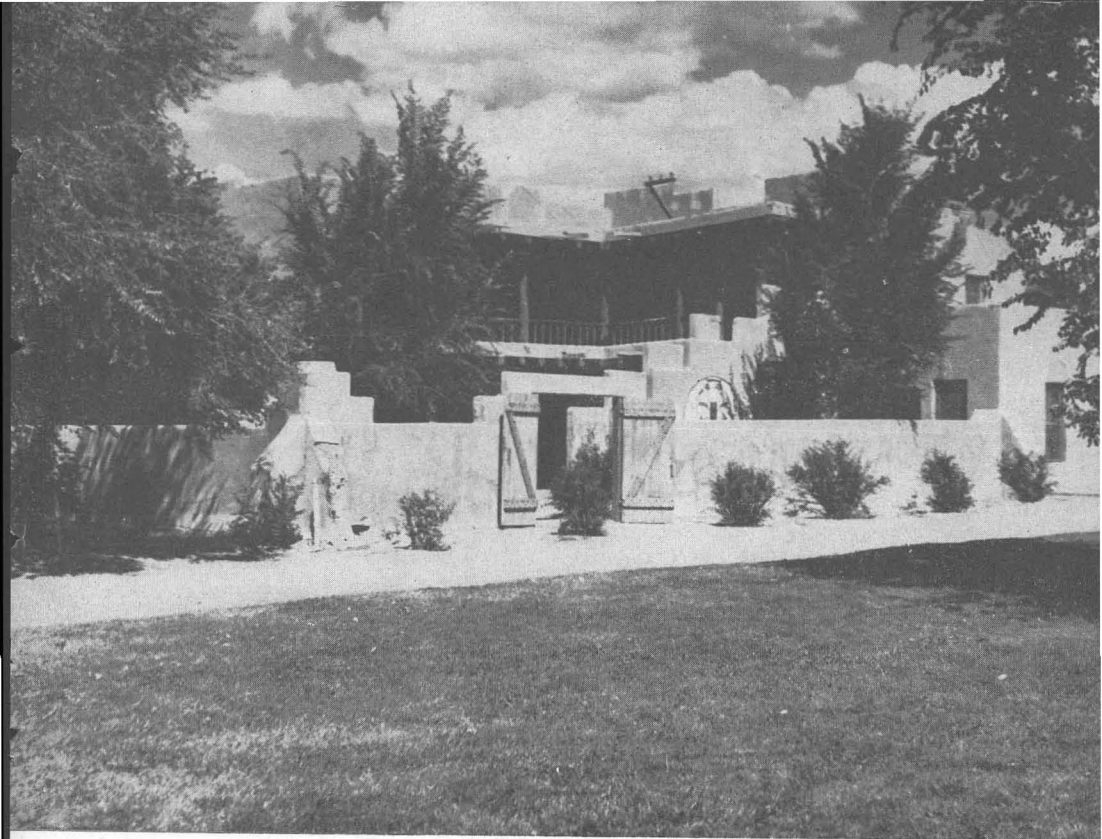
Journalism 1, 2, 51, 52, 87, 88, 101, 102, 111, 112, 122, 123, 132

Library Science 21

**Mathematics* 14, 15, 42, 87, 131, 132

Modern Languages and Literatures: French, German, and Italian. Portuguese 1, 2, 51, 52, 101, 102, 151, 157

* Can be applied toward the Group IV requirement in Mathematics and Science. (See p. 85.)



INTER-AMERICAN AFFAIRS BUILDING

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Music 39, 40, 61, 62, 93, 171, 172, 180, 193

Philosophy 1, 2, 45, 53, 56, 64, 72, 102, 141, 142, 176, 185, 191, 195

**Physics* 121, 125L, 126L, 131

**Psychology* 54, 58, 60, 101, 122L, 183, 198

Sociology 66, 71, 81, 82, 102, 107, 122, 163, 166, 195

Spanish 95, 96, 105, 106, 107, 108, 121, 122, 131, 132, 145, 146, 151, 152, 153, 157, 158, 163, 164, 165, 166, 191, 192. Folklore: 115, 161, 162

†*Speech* A, 1, 2, 4, 5, 55, 57, 60, 70, 77, 90, 160, 190, 192

OTHER ADVANCED COURSES. Attention is called to honors work, senior seminars, problems, or advanced reading courses in the Departments of Anthropology, Art, Biology, Business Administration, Dramatic Art, Economics, English, Geography, Government and Citizenship, History, Philosophy, Sociology, and Spanish, where well-qualified students may pursue studies in the Southwestern or Latin American field under supervision of some member of the departmental staff.

SAMPLE CURRICULUM

FRESHMAN YEAR	
First Semester	Second Semester
English 1	English 2
Mathematics—Natural Science	Mathematics—Natural Science
Spanish 1	Spanish 2
Social Science 1	Social Science 2
History 1	History 2
Physical Education	Physical Education
16—17	16—17

SOPHOMORE YEAR	
First Semester	Second Semester
Introduction to Latin America	Spanish 52
Science	Science
Spanish 51	Electives
English Literature	Physical Education
Electives	
Physical Education	
17—18	17—18

JUNIOR YEAR	
First Semester	Second Semester
Spanish 91	Spanish 92
Spanish 93 or 95	Spanish 94 or 96
Geography 101	Geography 102
Basic Upper Division Electives	Basic Upper Division Electives
(See pp. 93-94)	(See pp. 93-94)
Free Electives	Free Electives
16—17	16—17

† The attention of our students is called to the useful training in speech for business and professions, public discussion, radio techniques, etc.

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SENIOR YEAR

First Semester		Second Semester	
Spanish 157 or 163	2	Spanish 158 or 164	2
Spanish 131	2	Spanish 132	2
Economics 121	2	Economics 122	2
Basic Upper Division Electives (See pp. 93-94)	3	Basic Upper Division Electives (See pp. 93-94)	3
Free Electives	7-8	Free Electives	7-8
<hr/> 16-17		<hr/> 16-17	

NOTES: (1) This program is flexible on account of the imponderable element of the previous preparation in Spanish the student may bring. In most cases the students have had Spanish in high school and the number of available electives will thereby increase. (2) The sequence outlined need not necessarily be followed literally. (3) In the case of transfer students from other institutions offering advanced standing, reasonable allowance is made for substitution of some of the lower division courses, either required or recommended.

SUMMER SESSION. For other courses which may be credited to the Gateway, Basic, or Supplementary Groups in this major, and which are offered occasionally in the summer, please consult the Summer Session Bulletin under the section "School of Inter-American Affairs."

For advanced standing admission to this major, sample program of electives, Spanish in relation to electives, and other information consult the Director of the School.

MASTER'S DEGREE IN INTER-AMERICAN AFFAIRS

Facilities for graduate work in the field of Inter-American Affairs leading to the degree of Master of Arts have been provided through inter-departmental committees within the Graduate School which will approve and supervise programs of study correlating the various subjects offered by the departments. The individual needs of students and preferences for certain lines of specialization will be taken into consideration.

Students will be admitted to graduate study in Inter-American Affairs with (a) the degree of Bachelor of Arts with a major in Inter-American Affairs from the University of New Mexico, or its equivalent from another institution; or (b) the degree of Bachelor of Arts with a minimum of fifteen hours in Latin American studies. A reading and oral knowledge of Spanish must be accredited before receiving the degree.

For further information see the Graduate School Bulletin.

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A TWO-YEAR COURSE FOR SECRETARY-INTERPRETERS WITH SPECIALIZATION IN INTER-AMERICAN RELATIONS

New Mexico occupies a very advantageous position for training of this type. Over half the population of the state is of Spanish speech and descent, and a large proportion of the graduates of high schools have received an intensive training in the Spanish language. It should be possible therefore to develop adequately in the space of two years the student's proficiency in this five-angled field.

- (a) English practice and expression and their relation to Spanish.
- (b) Spanish practice and expression and their relation to English.
- (c) A reading knowledge of Portuguese.
- (d) A general knowledge of Latin-American countries and of sources of information.
- (e) Secretarial technique, including typing and shorthand, both in English and Spanish.

Inasmuch as Spanish is a living tongue in New Mexico, graduates of this vocational course, whether of Spanish or Anglo-Saxon descent, after they have perfected their knowledge of spoken and written English and Spanish, should be expected to be able to act not only as secretaries but as interpreters as well. The demand for bilingual young men and women thus equipped is very great at present not only in the governmental, business, and cultural circles of this country, but also in those of the Latin American countries.

The curriculum for this course aims to balance the training in secretarial technique and practice with academic studies which will increase the intellectual outlook and competence of the student and qualify him for positions of responsibility.

This course is articulated with the B.A. in Business Administration. The College of Education offers a teachers' course in commercial subjects.

ADMISSION. Students will be admitted from accredited high schools. They must present at least 4 units of high school Spanish, or two years of college Spanish or its equivalent, or pass a reading knowledge test in the language.

CURRICULUM.

FIRST YEAR

First Half

English 1. Intro. to Rhetoric	3	Bus. Adm. 11. Beginning Typewriting	2
*Spanish 95. Spanish-Business Letter Writing (3rd Yr.)	2	Bus. Adm. 13. Shorthand Theory and Beg. Dictation	3
*Portuguese 1. Elementary Portuguese	3	Total credits	16
History 11. History of the Americas	3		

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Second Half

English 2. Intro. to Literature	3	History 12. History of the Americas	3
*Spanish 96. Com'l. and Industrial Lang. Practice in Hispanic Countries (3rd Yr.)	2	Bus. Adm. 13. Shorthand Theory and Typewriting	2
*Portuguese 2. Elementary Portuguese	3	Bus. Adm. 14. Shorthand Theory and Beg. Dictation	3
		Total credits	16

SECOND YEAR

English 55. Vocabulary Building	3	Bus. Adm. 65. Business Letter Writing	3
*Spanish 131. Advanced Comp. and Conv.	2	*Spanish 132. Advanced Comp. and Conv.	2
*Portuguese 51. Intermediate Portuguese	3	*Portuguese 52. Intermediate Portuguese	3
Bus. Adm. 55. Advanced Typewriting in Spanish	2	Anthro., Econ., Gov't., Socio. 73. Introduction to Latin-America	3
Bus. Adm. 57. Spanish Shorthand Theory and Dictation	3	Bus. Adm. 58. Spanish Shorthand Theory and Dictation	3
Electives	3	Bus. Adm. 59. Advanced Spanish Dictation and Transcription	3
Total credits	16	Total credits	17

The above program is devised for students not having had any previous business training. It will be adjusted according to the preparation of the student. For instance, in the cases of students with a knowledge of general typing and shorthand or advanced proficiency in Spanish, the corresponding credits will be earned in other courses recommended by the Director of the School in consultation with the College of Business Administration. It should also be possible to speed up the training in typing and shorthand through competence tests, thus releasing some of the credits for electives.

This Course will in all likelihood be pursued by college graduates who now enter business schools to gain secretarial training. Such students will already have credits for English Composition, and may, therefore, use the equivalent hours for electives. In general, students will be permitted to take examinations in any of the courses listed, and if they pass them, the credits involved will be released for electives.

The following courses are generally recommended:

<i>Bus. Adm. 5, 6. Principles of Accounting</i>	6
<i>Bus. Adm. 7. Office Machines and Filing</i>	2
<i>Bus. Adm. 63, 64. Intermediate Accounting</i>	6

* The Spanish and Portuguese courses have the aid of a Phonetics Laboratory, operated jointly by the Speech Division of the Department of English and the Department of Modern Languages. Students report to the Laboratory for exercises in the pronunciation of foreign languages. The Laboratory functions also as a clinic in English pronunciation. The Speech Workshop aids students whose imperfect diction is the result of a non-English background.

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<i>Bus. Adm. 108.</i>	Marketing	3
<i>Bus. Adm. 114.</i>	Advertising	3
<i>Bus. Adm. 157.</i>	Office Procedure	4

Whenever possible, classes will be scheduled in late afternoon and evening in order to facilitate the attendance of persons holding daytime jobs.

Registration fees will be apportioned on a credit basis that will permit the enrollment of part-time students.

CERTIFICATE. The School of Inter-American Affairs will grant a Certificate of Secretary-Interpreter with Specialization in Inter-American Relations upon the fulfillment of the following requirements:

I. The successful completion of the program of studies, with a grade-point average of at least 1.0 in the total number of hours in which the student has registered.

II. The passing of a final comprehensive examination patterned after the standard forms of civil service examinations for secretarial positions, and including test questions on Latin-America, Spanish language proficiency, and a reading knowledge of Portuguese. A numerical rating will be given closely corresponding to that given in civil service examinations. This examination will be administered by a committee of three, representing a federal agency, a state agency, and the School of Inter-American Affairs.

A ONE-YEAR INTENSIVE COURSE IN INTER-AMERICAN RELATIONS FOR GRADUATE STUDENTS, BUSINESS MEN, PROFESSIONALS AND TECHNICIANS

The School of Inter-American Affairs is prepared to equip business, professional, and technical people with a solid background knowledge of Latin America. To this end it has organized an intensive two-semester training course in inter-American relations. The course is intended for any mature individual regardless of previous academic background. It is designed for functional utility to geologists, engineers, foreign traders, civil service or other government employees, advertising, market research and radio people, writers, editors, publishers, technicians and others who have never had opportunity to acquire an adequate training in Latin American affairs, and who for personal and professional reasons wish to, or must, acquire that training quickly and effectively. The course will furnish the information and guidance indispensable for truly effective work in Latin America and with Latin Americans.

Since understanding of Latin America has one imperative—

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a working knowledge of Spanish (for nineteen countries), or of Portuguese (for Brazil) — the trainee must consider carefully the language phase of his study program. Depending on the degree of accomplishment in Spanish (or Portuguese), the School will arrange the program accordingly.

The course is planned to provide:

1. Intensive laboratory-type training in written and spoken Spanish or Portuguese.
2. An introduction to the land and people of Latin America and to their social, economic, and political life.
3. Specialized training in the phase or phases of Latin American relations of primary interest to the trainee, e. g., geopolitics, economics, social or political conditions, trade and commerce, language.

ADMISSION. By application to the Director, School of Inter-American Affairs. The flexibility of this program is such that any interested and qualified person can be admitted. Of course, credit can be earned toward the M.A. or Ph.D. degree by those trainees with previous A.B., B.S., or M.A. degrees who choose to apply their credits in courses numbered above 100 to that end.

CERTIFICATION. A certificate attesting the successful completion of the course (a minimum of 32 credits) will be given trainees who successfully pass all examinations in each of the courses taken with a grade of C or above. In addition, through the coöperation of the Modern Languages Department Phonetics Laboratory, an endorsement of oral Spanish proficiency will be made on the certificate of those trainees who successfully pass the Laboratory's oral Spanish or Portuguese proficiency test.

CURRICULUM

Required Courses

73. <i>Introduction to Latin America</i>	3
* <i>Spanish or Portuguese</i>	6-10
<i>Econ. 121, 122. ECONOMICS AND TRADE OF LATIN AMERICA</i>	4
<i>Geog. 101, 102. PHYSICAL GEOGRAPHY OF LATIN AMERICA</i>	6
Total	19-23

* Number of credits and courses depend on trainee's language attainment level. Placement exams will determine where the student should begin.

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Elective Courses

To be chosen by the trainee from the Gateway and Basic Upper Division Courses listed on pp. 92-94 after consultation with the Director of the School, the aim of the trainee being the determining factor 13-15

INTENSIVE SPANISH STUDY. New Mexico is a bilingual region. It has a common frontier with the Republic of Mexico. The University is unique in its opportunity for study of regional cultural, social, and economic problems. The School urges the trainee under this course to take every possible advantage of his regional situation. As concerns language, residence with a Spanish-speaking family is suggested. Likewise, intensive language training can be acquired by outside tutoring. There are available many extremely well-qualified Spanish-speaking tutors. Finally, the School urges those trainees who can so arrange to take advantage of the proximity to Mexico to undertake a period of field work there. The School is building its graduate study program and expects to organize field work and case studies in Mexico. Thus there may often be staff members and graduate students engaged in field research in Mexico, and the trainee will be enabled to undertake, under guidance, the most realistic intensive language training and practical study of the Latin American situation—living in a Latin American country.

COMBINED CURRICULUM IN ENGINEERING AND ARTS AND SCIENCES

Degrees in both the College of Arts and Sciences and the College of Engineering may be obtained by following a five-year curriculum, to be outlined in each case, jointly, by the Deans of the two colleges.

Attention is called to a combined curriculum in Engineering and Inter-American Affairs. Students interested should confer with the Deans, preferably upon entering the University or during their freshman year, and not later than the beginning of their sophomore year.

EXTRA-CURRICULAR ACTIVITIES OF THE SCHOOL

The School operates a Research Bureau on Latin America and Cultural Relations in the Southwest in coöperation with the Department of Sociology; organizes a series of weekly public lectures on Hispanic Affairs in which members of the faculty and outside speakers participate; sponsors conferences and exhibits; maintains close relationship with the Spanish-speaking groups in the state; coöperates in various projects with other University units and organizations outside the University; furnishes an audio-visual service to public schools and civic groups; directs a program of

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publications under the title Inter-Americana Series; and has conducted for seven years a state-wide Community Program, including community organization and projects, institutes for training rural community leaders, etc. For further information on any of these activities, please address the Director.

COLLEGE OF ARTS AND SCIENCES

DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, lower division, normally open to freshmen; from 50-99, lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors, and graduates; 200-400, open to graduates only. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee.

Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr—courses offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; *—course (or courses) open to General College students; †—course offered for General College credit only; ()—Semester hours' credit; credit hours separated by a dash (1-3) indicates variable credit in the course; []—former course number or title.

A schedule of course offerings, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

ANTHROPOLOGY

Professors Hill (Head), Spier; Associate Professor Hibben; Assistant Professors Hawley, Reiter; Graduate Assistants Anderson, Fried, Hermann, Moore.

GROUP REQUIREMENTS

Courses in this Department count toward Social Sciences (Group III).

MAJOR STUDY

Anthropology 1, 2, 193 and 28 more hours in courses numbered from 100 through 199 within the Department. Recommended preparatory courses; Biology 1L and 2L, History 1 and 2, Geology 1 and 2, Psychology 1L and 2L. Anthropology courses offered are divided into four major divisions: archaeology, ethnology, topical

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and technical. A student specializing in either one of the first two must take a minimum of 12 hours in that division and a minimum of 6 hours in each of the other three major divisions. Upper division courses from other departments, chosen with the approval of the Head of the Department, are acceptable as electives toward a major in anthropology.

MINOR STUDY

14 hours in addition to Anthropology 1 and 2.

- *1. GENERAL ANTHROPOLOGY: ORIGIN AND ANTIQUITY OF MAN. (3)
Hibben, Reiter
- *2. GENERAL ANTHROPOLOGY: ORIGINS OF SOCIETY. (3)
Hill, Reiter
- *8. SURVEY OF SOUTHWESTERN ANTHROPOLOGY. (3) A non-technical course not credited toward the major or minor in anthropology.
Hawley
- 59L. MUSEUM METHODS. (2) The study and treatment of museum and field material. 1 lecture, 3 hrs. lab. Hibben
- 60L. MUSEUMS AND THEIR WORK. (2) Museum administration, exhibition, and curatorial work. 1 lecture, 3 hrs. lab. Hibben
- 66L. ARCHAEOLOGIC FIELD TECHNIQUE. (2) Methods and materials involved in excavations; field surveying and recording; care of archaeological material in the field. Reiter
- *71. SURVEY OF ANTHROPOLOGY. (2) The sub-divisions of anthropology. Not open to students who have credit in Anthropology 1 and 2. Reiter
- 73. INTRODUCTION TO LATIN AMERICA. (3) (Same as Economics 73, Government 73, and Sociology 73). For description, see p. 92. Barnard
- *75F. GENERAL FIELD SESSION. (2-6) Introductory summer field course in archaeology or ethnology. Staff
- *76F. SECONDARY FIELD COURSE. (2-6) Field course in archaeology or ethnology. Prerequisite: 75F. Staff
- *97. INTRODUCTION TO CLASSICAL ARCHAEOLOGY. (3) The cultural beginnings of Greece and Rome with special reference to the importance of classical backgrounds in modern culture. Hibben
- *99. COMPARATIVE SOCIAL STRUCTURE. (3) Hill

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General prerequisite (except for 102): Anthropology 1 and 2 or equivalent. The divisional classification of each course is indicated after the credit value, viz., *Arch.* is archaeology, *Eth.* is Ethnology, *Top.* is Topical, and *Tech.* is Technical.

101. THE INDIVIDUAL IN HIS SOCIETY. (3) *Top.* A comparative study of cultures (form and process) and their relationship to the individual culture carrier. The possibility of application of anthropological principles to problems of foreign peoples, minority groups, and primitive tribes. Hawley
102. PERSPECTIVES OF ANTHROPOLOGY. (3) *Top.* Essential concepts of the nature of culture and of racial relationship, with reference to contemporary situations and problems. No prerequisites. Spier
- 103L. DENDROCHRONOLOGY. (3) *Tech.* The science of tree ring studies applied to archaeologic problems. Prerequisite: permission of instructor. 1 lecture, 4 hrs. lab. Hawley
105. THE AMERICAN INDIAN: NORTH AMERICA. (3) *Eth.* Hill
106. THE AMERICAN INDIAN: SOUTH AMERICA. (3) *Eth.* Hill
- 107L. PHYSICAL ANTHROPOLOGY: OSTEOLOGY. (3) *Tech.* Reiter
- 108L. PHYSICAL ANTHROPOLOGY: SOMATOLOGY. (3) *Tech.* Racial variation and constitution. Reiter
109. ^o SOUTHWESTERN POTTERY. (2) *Tech.* Prehistoric development of ceramic art. Prerequisite: 155 or 156. Hawley
112. EUROPEAN PREHISTORY. (3) *Arch.* Early European cultures. Human development as shown in physical and cultural remains. Hibben
119. RACES AND CULTURES OF EUROPE AND ASIA. (3) *Eth.* Reiter
136. ETHNOGRAPHY OF AFRICA. (3) *Eth.* Spier
138. NORTHWEST AMERICA AND NORTHEAST ASIA. (3) *Eth.* Hill
140. ANALYSIS OF CULTURE AREAS: WESTERN NORTH AMERICA. (3) *Eth.* Restricted to the California, Basin and Plateau culture areas. Spier
142. ANALYSIS OF CULTURE AREAS: PLAINS. (3) *Eth.* Spier
- 144L. MATERIAL CULTURE ANALYSIS. (3) *Tech.* Methods of analyzing archaeologic, non-ceramic material traits, and the systematic presentation of excavated materials. 1 lecture, 4 hrs. lab. Reiter
147. OCEANIA. (3) *Eth.* Hill

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150. METHODS IN CULTURAL ANTHROPOLOGY. (3) *Top.* Methods used in the collection and ordering of anthropological data for historical, scientific and administrative problems: trait lists, questionnaires, participant-observer technique, interviews, personality and intelligence tests, life histories, etc. Hawley
155. SOUTHWESTERN ARCHAEOLOGY: MOGOLLON AND HOHOKAM. (3) *Arch.* Hawley
156. SOUTHWESTERN ARCHAEOLOGY: PUEBLO AREA. (3) *Arch.* Prerequisite: 155. Hawley
157. SOUTHWESTERN ETHNOLOGY: NON-PUEBLO PEOPLES. (3) *Eth.* Hawley
158. SOUTHWESTERN ETHNOLOGY: PUEBLO PEOPLES. (3) *Eth.* Hawley
162. ARCHAEOLOGY OF THE OLD WORLD. (3) *Arch.* Prehistory of Africa, Asia, Oceania. Hibben
- 174L. PROBLEMS IN ADVANCED DENDROCHRONOLOGY. (2) *Tech.* Prerequisite: 103L. Hawley
- 175F. ADVANCED SUMMER FIELD SESSION. (2-6) Advanced work for upper division and graduate students. Prerequisite: 75F or equivalent. Staff
184. ARCHAEOLOGY OF MEXICO, CENTRAL AMERICA, AND THE WEST INDIES. *Arch.* (3) Hibben
185. AMERICAN ARCHAEOLOGY: NORTH AMERICA. (3) *Arch.* This course excludes the Southwest and Mexico from consideration. Hibben
186. AMERICAN ARCHAEOLOGY: SOUTH AMERICA. (3) *Arch.* Reiter
193. HISTORY OF ANTHROPOLOGY. (2) *Top.* Hill, Reiter
194. ANTHROPOLOGICAL METHODS. (2) *Top.* A consultation course, which may be repeated for credit. Prerequisite: permission of instructor. Spier
198. PRIMITIVE RELIGION. (3) *Top.* Hill
- 199F. FIELD RESEARCH. (2-6) Field course. Prerequisites: 75F and 175F or equivalents. Staff
205. PRO-SEMINAR: INTRODUCTION TO RESEARCH. (2) Required of all graduate students. Hill
206. SURVEY OF CURRENT ANTHROPOLOGY. (2) (Not offered in 1948-49.) Spier

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208. PROCESSES OF CULTURE CHANGE. (2) Spier.
209. PRESENTATION OF FIELD RESEARCH. (2) The organization,
analysis and interpretation of archaeological and ethnological
field research. Reiter
212. SEMINAR: ETHNOLOGY. (2) Hill
251, 252. PROBLEMS. (2, 2) No more than 6 hours may be taken
towards the M.A., nor more than 12 hours towards the Ph.D.
degree. Graduate Staff
257. SEMINAR: EARLY MAN IN THE NEW WORLD. (2) Hibben
282. SEMINAR: AMERICAN ARCHAEOLOGY. (2) Reiter
294. SEMINAR: SOUTHWESTERN ARCHAEOLOGY AND ETHNOLOGY.
(2) Hawley
300. THESIS. (4-6) Graduate Staff
400. DISSERTATION. (0) Graduate Staff

BIOLOGY

Professor Castetter (Head); Associate Professors Dittmer, Johnson,
Koster; Assistant Professors Fleck, Hoff; Instructors Ivey, Sims;
Graduate Assistants Hill, Palmer, Patek, Popnoe, Reinhart,
Thoensen, Widner.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

MAJOR STUDY

Biology 1L, 2L, 71L, 72L, 109, 143L or 144 L, and 9 additional hours, 5 of which must be in courses numbered above 100. Courses 5, 6, 12L, 33L, 36, 39L, 41, 48, and 130L are not accepted toward a major. One year of chemistry is required of biology majors.

MINOR STUDY

Biology 1L and 2L, and 12 additional hours. 5 and 6 are not acceptable on the minor.

NOTE

Credit will not be allowed for both 36-39L and 130L; or for both 36-39L and 144L; or for both 48 and 109.

CURRICULA PREPARATORY TO FORESTRY, MEDICAL TECHNOLOGY, OR MEDICINE

See "College of Arts and Sciences."

ARTS AND SCIENCES

- 1L. GENERAL BIOLOGY. (4) Yr. An introduction to the fundamental structures, functions, and principles of higher plants and animals with emphasis on the unity, rather than the diversity, of phenomena. Credit suspended until 2L is completed. 3 lectures, 3 hrs. lab. Castetter, Koster, Dittmer
- 2L. GENERAL BIOLOGY. (4) A continuation of 1L. Survey of the plant and animal kingdoms; heredity, environmental relations, and evolution. Prerequisite: 1L. 3 lectures, 3 hrs. lab. Castetter, Koster, Dittmer
- *5. INTRODUCTION TO THE PHYSICAL SCIENCES. (3) An elementary survey of the non-living world. Includes brief studies of descriptive astronomy, physics, chemistry, and geology. Emphasis on the application of the principles of these sciences to man and society. Staff
- *6. INTRODUCTION TO THE BIOLOGICAL SCIENCES. (3) An elementary survey of the world of living things. Includes brief studies of both plant and animal life, digestion, respiration, circulation, excretion, reproduction, communicable and functional diseases, heredity and evolution. Emphasis on the human body. Staff
- 12L. GENERAL ZOOLOGY. (4) The fundamental structures and functions of the vertebrates, and a review of the animal kingdom. Open to majors in P. E. and Home Economics only. 3 lectures, 3 hrs. lab. Koster
- 33L. MICROBIOLOGY. (3) An elementary survey of those forms of microscopic life of importance in food, sanitation, and medicine. Practical exercises on the procedures involved in aseptic techniques, disinfection, and sterilization. 2 lectures, 2 hrs. lab. Johnson and Assistant
- *36. HUMAN ANATOMY AND PHYSIOLOGY. [Human Physiology] (3) The structure and functions of the human body. Lectures emphasize physiology. May be taken with, or independently of, 39L. Fleck
- *39L. HUMAN ANATOMY AND PHYSIOLOGY LABORATORY. (2) Laboratory work in elementary anatomy and physiology, with emphasis on anatomy. Cannot be taken independently of Biology 36. Sims
- *41. SURVEY OF NEW MEXICO PLANT LIFE. (2) SS Lectures, demonstrations, and field trips. Dittmer
- *48. HEREDITY. (2) A cultural survey of the field of inheritance. Dittmer

ARTS AND SCIENCES

- 71L. INVERTEBRATE ZOOLOGY. (4) A comparative study of the structure, habits, and classification of the invertebrates exclusive of insects. Prerequisites: 1L and 2L. 2 lectures, 4 hrs. lab.
Hoff, Ivey
- 72L. COMPARATIVE PLANT MORPHOLOGY. (4) A comparative study of the four great groups of the plant kingdom. Prerequisites: 1L and 2L. 2 lectures, 4 hrs. lab.
Dittmer
- 93L. GENERAL BACTERIOLOGY. (4) Biology and significance of bacteria and other microorganisms. Fundamental principles governing the bacteriology of water, sewage, milk, food, sanitation, and communicable diseases. Prerequisites: 1L and 2L, Chemistry 1L and 2L. 2 lectures, 4 hrs. lab.
Johnson and Assistant
- 96L. ORNITHOLOGY. (4) Identification and habits of birds. Early morning field trips required. 2 lectures, 4 hrs. lab. (Offered in alternate years with Biology 185L.)
Koster
105. ETHNOBIOLOGY OF THE NEW WORLD. (3) The aboriginal picture of the utilization of plants and animals of the New World. Emphasis on the Southwest. Prerequisite: 4 hrs. of Biology.
Castetter
109. GENETICS. (3) The scientific, cultural, and philosophical aspects of inheritance. Prerequisites: 1L and 2L. Castetter
110. EVOLUTION. (3) History of the principle and theories of evolution. Prerequisite: 109. Koster
- 112L. COMPARATIVE EMBRYOLOGY OF THE VERTEBRATES. (4) Prerequisites: 1L, 2L, and 71L. 2 lectures, 6 hrs. lab. Koster
- 114L. GENERAL ENTOMOLOGY. (4) Structures, habits, and classification of the insects. Prerequisites: 1L and 2L. 2 lectures, 4 hrs. lab. (Offered in alternate years with Biology 174L.) Hoff
- 121L. COMPARATIVE VERTEBRATE ANATOMY. (5) Prerequisites: 1L, 2L, and 71L. 2 lectures, 6 hrs. lab. Hoff, Ivey
- 126L. PHYSIOLOGY OF EXERCISE. (3) A study of physiological processes and their relation to exercise. Prerequisite: 12L. Open to P. E. majors only. 2 lectures, 3 hrs. lab. Fleck
- 130L. GENERAL ANIMAL PHYSIOLOGY AND ANATOMY. (4) The functions and structures of the animal body with emphasis on the vertebrates. Prerequisites: 1L and 2L, Chemistry 1L and 2L. Not open to Biology majors. 3 lectures, 3 hrs. lab. Fleck
- 143L. GENERAL PHYSIOLOGY. (4) Cell physiology, absorption, photosynthesis, digestion, translocation, circulation, and respir-

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- ation. Prerequisites: 12 hrs. of Biology, and Chemistry 1L and 2L. Organic chemistry is strongly recommended. 2 lectures, 4 hrs. lab. Fleck and Assistant
- 144L. GENERAL PHYSIOLOGY. (4) Metabolism, excretion, transpiration, muscle action, nerve and sense organs, growth and correlation, and reproduction. Prerequisites: 12 hrs. of Biology, and Chemistry 1L and 2L. 2 lectures, 4 hrs. lab. Fleck and Assistant
- 152L. ADVANCED BACTERIOLOGY. (4) Special methods employed in the study of bacteria; antigen-antibody reactions; the effect of physical and chemical agents on bacteria; the biological characteristics of bacteria. Prerequisite: 93L. Organic chemistry is strongly recommended. 2 lectures, 4 hrs. lab. Johnson
- 163L. FLORA OF NEW MEXICO. (4) Prerequisites: 1L and 2L. 2 lectures, 4 hrs. lab. Dittmer
- 171L. GENERAL ECOLOGY. (4) Animals and plants in relation to their various natural environments. Frequent field trips. Prerequisites: 1L and 2L. 3 lectures, 3 hrs. lab. Hoff
- 174L. PLANT ANATOMY. (4) Structure of vascular plants. Prerequisites: 1L, 2L, and 72L. 2 lectures, 4 hrs. lab. (Offered in alternate years with Biology 114L.) Dittmer
182. PHYSIOLOGY OF BACTERIA. (3) Bacterial chemistry and physiology, including some physico-chemical properties; microbial enzymes, respiration, nutrition, and fermentation; metabolism of carbon compounds. Prerequisites: 93L, 143L or 144L, 152L; and organic chemistry. Johnson
- 185L. GENERAL VERTEBRATE ZOOLOGY. (4) Natural history, classification, behavior, ecology, and speciation of the vertebrates exclusive of the birds. Prerequisites: 1L and 2L. 2 lectures, 4 hrs. lab. (Offered in alternate years with Biology 96L.) Koster
- 190L. HISTOLOGY AND MICROTÉCHNIQUE. (4) The preparation for microscopic examination of plant and animal structures, tissues, and cells. Laboratory study of normal tissues. Additional emphasis on topics of special interest to individual students. Prerequisites: 1L and 2L and consent of head of department. 2 lectures, 4 hrs. lab. Hoff
201. SEMINAR. (2) Topic for study will be selected at beginning of each semester. Graduate Staff
225. FUNDAMENTAL CONCEPTS OF BIOLOGY. (3) Trend of scientific thought and method from earliest times to the present. Origin and history of important biological principles. Castetter

ARTS AND SCIENCES

251. PROBLEMS. (2-3) Graduate Staff
252. PHYLOGENY OF THE PLANT KINGDOM. (2) Evolutionary trends with emphasis on the vascular plants. Dittmer
254. PRINCIPLES OF ECONOMIC VERTEBRATE ZOOLOGY. (2) The biotic effect of human settlement upon the vertebrates. Principles underlying management and control. Koster
300. THESIS. (4-6) Graduate Staff

BUSINESS ADMINISTRATION

Not a department. (See College of Business Administration.)
No major offered in the College of Arts and Sciences.

MINOR STUDY

Economics 51, 52, Business Administration 5, 6 and 6 additional hours in Business Administration. (For Business Administration course offerings, see College of Business Administration.)

CHEMISTRY

Professors Smith (Head), Riebsomer; Assistant Professors Castle, Martin, Stauffer, Suttle; Instructors Benham, Dustin, Gibson, Howell, Searcy, Wallace; Graduate Assistants Hopperton, Meyer, Muller, Pachter, Sumrell, Vanselous.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

MAJOR STUDY

For the General Major: Chemistry 1L, 2L, 53L, 101L, 102L, and at least 8 additional hours selected from courses numbered above 100.

For the Professional Major: Chemistry 1L, 4L, 53L, 54L, 103L, 104L, 111L, 112L, 181, 182, and at least 6 additional hours selected from courses numbered above 100. The program must also include 12 hours of German.

MINOR STUDY

21 hours in Chemistry, including Chemistry 1L, 2L, 53L, 101L, and 102L. Chemistry 41L does not count toward the minor.

- 1L. GENERAL CHEMISTRY. (4) Yr. Introduction to the chemical and physical behavior of matter. Atomic and molecular structure. Descriptive chemistry of the common elements. Credit suspended until 2L or 4L is completed. 3 lectures, 3 hrs. lab. Staff

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- 2L. GENERAL CHEMISTRY. (4) Continuation of 1L and including qualitative analysis. 3 lectures, 3 hrs. lab. Staff
- 4L. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. (5) Continuation of 1L, with special emphasis on qualitative analysis. For professional majors in chemistry and chemical engineering. 3 lectures, 6 hrs. lab. Staff
- 41L. ELEMENTS OF GENERAL CHEMISTRY. (5) A one-semester course in general chemistry designed for students in home economics, nursing, and physical education. Not acceptable as prerequisite to subsequent courses in chemistry. 4 lectures, 3 hrs. lab. The lectures of this course and Chemistry 42L may be elected separately by those wishing a restricted course in chemistry. Staff
- 42L. ELEMENTS OF ORGANIC CHEMISTRY. (5) A brief course in organic chemistry. Prerequisites: 41L or 2L. Riebsomer, Stauffer
- 53L. QUANTITATIVE ANALYSIS. (5) Theory and techniques of volumetric and gravimetric analysis. Prerequisites: 1L and either 2L or 4L. 2 lectures, 9 hrs. lab. Martin
- 54L. SPECIAL METHODS IN QUANTITATIVE ANALYSIS. (4) Theory and practice in electrolytic, electrometric and colorimetric analytical methods. Prerequisite: 53L. 2 lectures, 6 hrs. lab. Martin
- 101L, 102L. ORGANIC CHEMISTRY. (4, 4) The chemistry of the compounds of carbon. For general majors, minors, and students of pharmacy. Prerequisites: 1L and either 2L or 4L. 3 lectures, 3 hrs. lab. Riebsomer, Stauffer
- 103L, 104L. ORGANIC CHEMISTRY. (5, 5) A more extensive course than the above, for professional majors in chemistry and chemical engineering. Prerequisites: 1L and either 2L or 4L. 3 lectures, 6 hrs. lab. Riebsomer, Stauffer
- 105L. QUALITATIVE ORGANIC ANALYSIS. (3) Identification of carbon compounds through the characteristic reactions of functional groups. Prerequisite: 102L or 104L. One lecture, 6 hrs. lab. Riebsomer, Stauffer
- 106L. ORGANIC PREPARATIONS (2-4) The synthesis of organic compounds utilizing the usual preparative reactions such as Grignard, Friedel-Crafts, etc. Prerequisites: 102L or 104L, and permission of the instructor. 6 to 12 hrs. lab. Castle, Riebsomer, Stauffer
107. THE CHEMISTRY OF THE ALKALOIDS. (2) A study of the chemistry involved in the isolation, proof of structure, and synthesis of typical representatives of the different classes of alkaloids. Prerequisite: 102L or 104L. Castle

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109. THE CHEMISTRY OF ORGANIC MEDICINALS. (3) The study of chemical properties and methods of synthesis of some of the important organic compounds used in medicine. Prerequisite: 102L or 104L. Castle
- 111L, 112L. PHYSICAL CHEMISTRY. (4, 4) Chemical theory. The gaseous, liquid and solid states. Theory of solutions. Chemical and physical equilibria. Chemical thermodynamics. Electromotive force. Prerequisites: 53L; Physics 11L or 51L; and Mathematics 53 and 54. 3 lectures, 3 hrs. lab. Smith
- 113L. PHYSICO-CHEMICAL TECHNIQUES. (2) Laboratory practice in more advanced techniques of physical and inorganic chemistry, with especial emphasis on work at low pressures and low temperatures. Prerequisites: 111L and 112L. 6 hrs. lab. Smith
Suttle
115. STRUCTURE OF MATTER. (3) Molecular structure and the fine structure of solids. The nature of chemical bonding. Chemical consequences of structure. Prerequisites: 53L and 102L or 104L. Smith
116. COLLOID CHEMISTRY. (3) Theoretical and descriptive treatment of the principal types of colloids. Prerequisites: 102L or 104L, 111L. Smith
131. INORGANIC CHEMISTRY. (3) A systematic survey of the chemical behaviors of the elements and their inorganic compounds. Prerequisite: 102L or 104L. Suttle
- 136L. INORGANIC PREPARATIONS. (2) Synthesis and purification of typical inorganic compounds. Prerequisite: 102L or 104L. Suttle
- 154L. INSTRUMENTAL ANALYSIS. (3) Application of instrumental methods to chemical analysis. Prerequisites: 53L, 111L and 112L. 1 lecture, 6 hrs. lab. Martin
- 181, 182. SEMINAR. (1, 1) Exposition and discussion of current topics in chemistry. Required of senior professional majors and graduate students. Staff
- 197, 198. UNDERGRADUATE PROBLEMS. (2-5 each semester). Staff
208. ADVANCED TOPICS IN ORGANIC CHEMISTRY. (3) Prerequisite: 102L or 104L. Riebsomer
- 211, 212. CHEMICAL THERMODYNAMICS. (3, 3) Prerequisites: 111L and 112L. Staff
232. ADVANCED TOPICS IN INORGANIC CHEMISTRY. (3) Prerequisites: 111L and 131. Suttle

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- 251, 252. GRADUATE PROBLEMS. (2-5 each semester). Graduate Staff
300. THESIS. (4-6) Graduate Staff

CLASSICS

Not a department.

MAJOR STUDY
Not offered.

MINOR STUDY

A minor may be worked out if sufficient demand arises.

Greek 1, 2. ELEMENTARY GREEK OF THE NEW TESTAMENT. (3, 3)
Yr. Credit suspended for 1 until 2 is completed. (Offered only upon sufficient demand.) Staff

Greek 61, 62. THE GREEK NEW TESTAMENT. (1, 1) Close scrutiny into meanings of words. Staff

Latin 51, 52. INTERMEDIATE LATIN. (3, 3) Yr. Credit suspended for 51 until 52 is completed. Accepted in fulfillment of lower division foreign language requirement. Staff

ECONOMICS

Associate Professor Crobaugh (Acting Head); Assistant Professor Johnson; Graduate Assistants Calkins, Olm.

GROUP REQUIREMENTS

Courses in this Department count toward Social Science (Group III.)

MAJOR STUDY

30 hours, including Economics 51, 52, Business Administration 5, Economics 111, 154, 160, 198 or 199, and 9 hours elected from upper division courses.

MINOR STUDY

Economics 51, 52 and 12 hours in upper division courses.

MINOR IN BUSINESS ADMINISTRATION

Majors in Economics will be permitted to take a minor in Business Administration only with permission of the Head of the Department.

*1, 2. INTRODUCTION TO SOCIAL SCIENCE. (3, 3) Yr. (Same as Government 1, 2, and Sociology 1, 2). A study of current social, economic and political problems, with particular reference to

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- the United States. Credit suspended until both semesters are completed. Staff
- 51, 52. INTRODUCTION TO ECONOMICS. (3, 3) Yr. A prerequisite to all advanced courses in the department unless otherwise indicated. Prerequisite: sophomore standing. Credit for 51 is suspended until 52 is completed. Crobaugh, Johnson, Carey, Evans, Huber
- *63. ECONOMIC RESOURCES. (3) A general survey of the basic economic resources of the world. Johnson
73. INTRODUCTION TO LATIN AMERICA. (3) Same as Anthropology 73, Government 73, and Sociology 73.) For description see p. 92. General prerequisite: 51, 52, or 105 unless otherwise stated. Jorrin
105. PRINCIPLES OF ECONOMICS. (3) Primarily for students who are not majors in the department. Prerequisite: upper division standing, except for sophomore engineers. Parish
111. MONEY AND BANKING. (3) Principles of money, credit, and banking. Organization and operation of the banking system. Staff
119. CURRENT PROBLEMS OF FOREIGN TRADE. (3) Johnson
- 121, 122. ECONOMICS AND TRADE OF LATIN AMERICA. (2, 2) Survey of economic life, trade relations, investments, economic planning. Prerequisite: Economics 73. Jorrin
140. ECONOMIC SECURITY. (3) The meaning and extent of poverty and insecurity, and methods of dealing with these problems. Walter
141. LABOR PROBLEMS. (3) The position of the laborer in modern society. Staff
152. PUBLIC FINANCE. (3) Theory and practice of taxation, governmental borrowing, financial administration and public expenditures. Johnson
154. COMPARATIVE ECONOMIC SYSTEMS. (3) A critical analysis of the proposed major reforms of the existing economic system. Crobaugh
160. ECONOMIC THEORY. (3) Advanced economic analysis, with particular attention to problems of monopolistic competition, distribution of incomes, employment, and national income. Crobaugh
161. HISTORY OF ECONOMIC THOUGHT. (3) Development of the principal economic doctrines and schools of economic thought from the Physiocrats to Keynes. Staff

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162. BUSINESS CYCLES. (3) Theories of the causes of business fluctuations, remedies proposed, and the possibility of economic stability. Staff
178. RECENT HISTORY OF THE UNITED STATES. (3) (Same as History 178.) Accepted toward the major only. Reeve
- 198, 199. SEMINAR IN CURRENT ECONOMIC THOUGHT. [Seminar] (2-3 each semester) Staff
- 251, 252. SEMINAR IN CONTEMPORARY ECONOMIC PROBLEMS. [Problems] (2-4 each semester) Graduate Staff
300. THESIS. (4-6) Graduate Staff

ENGLISH

Professors Pearce (Head), Arms, Grabo (Visiting Professor), Mitchell; Associate Professors Smith, Wicker; Assistant Professors Albrecht, Crowell, Hazard, Jacobs, Keleher, Kuntz, Simons, Tedlock; Instructors Adams, Fitzhugh, Fleming, Honig, Kline, Kluckhohn, Kroft, Kytte, Mowrer, Murray, Winecoff; Teaching Assistants Bidwell, Haight, M. Hoffman, Johns, Larrick, Lash, Richards, Tireman, Weber; Graduate Assistants De Camp, Edwards, Perry, Shinn, Stringfellow, Vogel.

GROUP REQUIREMENTS

English 1 is a required course for all students except those who are exempted upon the basis of a placement test. English 2 is required of all students, except transfers who may offer an equivalent course toward the satisfaction of the group requirements. Students in the low percentiles of the Placement Test will take English A (non-credit) in addition to English 1. Additional group requirements are as follows:

Colleges of Arts and Sciences: 3 credit hours in a course in literature numbered above 50.

College of Business Administration: 3 credit hours in a course in literature numbered above 50, and Speech 55.

College of Engineering: English 64.

College of Education: 6 credit hours in courses numbered above 50. (In the Elementary Curriculum, these additional hours must be in literature.)

COURSES IN GENERAL LITERATURE FOR GROUP REQUIREMENTS IN ALL COLLEGES

There are two curricula in the Departmental offerings: one for the major, the other for the student of general literary interests.

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Neither excludes necessarily the offerings of the other, but each serves to indicate the general channel of study. The following courses in the lower division are recommended for students selecting hours for the group requirements or for general reading: 57, 58, 75, 76, 77, 82, 84; not accepted as literature are 55, 91. In the upper division, for students with general literary interests, the following courses without prerequisites are recommended: 141, 142, 147, 149, 164, 165, 185, and 186.

MAJOR STUDY

English 1 (unless exempted), 2, 53, 54, and 24 additional hours in courses numbered above 50. The courses taken must include 3 hours in American literature; 91; 141 or 142; 151 or 154; two courses chosen from 132, 143, 146, 148, 157, 177, 178, 181, 182; and 198. Twelve hours must be taken in courses numbered above 100. It is strongly recommended that English majors take History of England, 71, 72—if possible concurrently with English 53, 54. Students with special interest in the theater may elect Drama 89, 90 toward a major study in English. Education 120, Children's Literature, will be accepted toward a major in English for those who are taking the Elementary Curriculum in the College of Education. Majors and minors who are planning to teach English should enroll in Education 155c, The Teaching of English and Speech in High Schools. A comprehensive examination in English literature and language (see English 198) is required of majors.

MINOR STUDY

College of Arts and Sciences: English 1 (unless exempted), 2, and 15 hours in courses numbered above 50. A maximum of 6 hours may be selected from the Division of Speech or from the Division of Journalism. College of Education and College of Fine Arts: English 1 (unless exempted), 2, and 18 hours in courses numbered above 50.

- *A. REVIEW ENGLISH. (0) Fundamentals of English grammar and rhetoric. Staff
- *1. INTRODUCTION TO RHETORIC. (3) Forms of discourse, expository planning, paragraph methods, the investigative paper, reading reports. Staff
- *2. INTRODUCTION TO LITERATURE. (3) The types of literature with readings and reports. Staff
- *3. COMPOSITION FOR FOREIGN STUDENTS. (3) A course in the practices of writing and understanding English designed for non-English speaking students. Credit may be withheld until the

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- course is repeated in a succeeding term. No credit allowed if credit is earned in English 1. Kluckhohn
53. SURVEY OF EARLY ENGLISH LITERATURE. (3) From the Old English writings through Neo-classicism. Keleher, Kuntz
Crowell
54. SURVEY OF LATER ENGLISH LITERATURE. (3) From Pre-Romanticism to the contemporary period. Wicker, Hazard, Jacobs
- *55. VOCABULARY BUILDING. (3) Study of basic word roots and drill designed to increase vocabulary. Kuntz, Kluckhohn
- *57. SURVEY OF MODERN FICTION AND DRAMA. (3) Readings in British and American writers from 1890 to the present. Simons,
Tedlock, Albrecht and Staff
58. SURVEY OF MODERN POETRY AND NON-FICTIONAL PROSE. (3) Readings in British and American writers from 1890 to present. Arms, Simons, Jacobs
63. CREATIVE WRITING. (3) Keleher
64. INFORMATIVE WRITING. (3) Professional expository composition and the preparation of elementary reports. Albrecht,
Fleming, Crowell
68. ADVANCED COMPOSITION. (3) Reading and writing of non-fictional prose. Wicker
75. WORLD LITERATURE FROM HOMER TO DANTE. (3) Masterpieces of European and Asiatic literature, including the Bible. Jacobs, Smith
76. WORLD LITERATURE FROM RABELAIS TO IBSEN. (3) Masterpieces of European literature, including the great Russian writers. Smith, Jacobs
77. SOUTHWESTERN LITERATURE. (3) Myth, legend, and song of the Indians; literary values in the Spanish colonial narratives; literature of the Santa Fe trail and the cattle country; contemporary writing. Pearce, Keleher, Simons
82. AMERICAN LITERATURE. (3) A general survey to 1900, with more extensive study of the great writers of the Nineteenth century. Smith, Arms, Tedlock
84. MAJOR POETS IN AMERICAN LITERATURE. (3) An intensive study of the major poets from Freneau to Robinson. Arms,
Hazard
88. MYTHS AND EPICS. (2) Great myths of Greece and Rome and their application in English literature together with examination of the major folk epics. Jacobs

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91. HISTORY OF THE ENGLISH LANGUAGE. (2) The etymology, morphology, phonetics, and semantics of English; the relation between linguistic and cultural change. Pearce, Smith
121. ADVANCED CREATIVE WRITING. (3) A study of modern literary forms and expression with practice in writing prose and verse. Staff
132. CONTEMPORARY POETRY. (3) A study of leading figures in contemporary poetry with analysis of style and critical theory. Prerequisite: 3 credit hours in literature. Arms
141. SHAKESPEARE: HISTORIES AND COMEDIES. (3) A detailed study of the comedies and historical plays. Simons, Pearce
142. SHAKESPEARE: TRAGEDIES. (3) A detailed study of the problem comedies and tragedies. Simons, Pearce
143. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY. (3) The best plays from D'Avenant to Sheridan. Prerequisite: 3 credit hours in literature. Smith
146. AGE OF MILTON. (3) Non-dramatic poetry and prose from 1600 to 1674, with special emphasis on the masterpieces of Milton. Prerequisite: 3 credit hours in literature. Smith
147. STUDIES IN WORLD DRAMA. (3) Examination of the essential plays of the great European dramatists from Aeschylus through Pirandello. Smith, Jacobs
148. ELIZABETHAN DRAMA EXCLUSIVE OF SHAKESPEARE. (3) Special attention to the plays of Marlowe and Jonson. Prerequisite: 3 credit hours in literature. Pearce or Simons
149. CONTEMPORARY DRAMA. (3) Staff
151. CHAUCER. (3) A reading of Chaucer's chief literary works with an examination of his philosophy. Prerequisite: 6 credit hours in literature. Pearce, Albrecht
154. MIDDLE ENGLISH. (3) A general survey of the types of Thirteenth and Fourteenth century literature. Prerequisite: 6 credit hours in literature. Albrecht
- 155c. TEACHING OF ENGLISH AND SPEECH IN HIGH SCHOOL. (3) Same as Education 155c.
157. ELIZABETHAN NON-DRAMATIC LITERATURE. (3) Development of humanism, new poetry, literature of courtesy. Prerequisite: 3 credits hours in literature. Pearce
160. PHONETICS. (3) (Same as Speech 160.)

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164. **CLASSIC AMERICAN WRITERS.** (3) Prose masterpieces by Franklin, Emerson, Hawthorne, Thoreau, Whitman, and Clemens. Smith, Arms
165. **AMERICAN NOVEL.** (3) Significant novels and novelists from 1789 to 1920. Arms, Hazard
166. **LITERARY CRITICISM.** (3) Major critical attitudes toward literature. Prerequisite: 6 credit hours in literature. Arms
177. **THE CLASSICAL PERIOD IN ENGLISH LITERATURE.** (3) The chief writers in England from the Restoration to the decline of Neoclassicism. Prerequisite: 3 credit hours in literature. Smith
178. **THE ROMANTIC PERIOD.** (3) The major poets, and the prose of the Nineteenth Century. Prerequisite: 3 credit hours in literature. Wicker
181. **VICTORIAN POETS.** (3) The representative poets from 1830 to 1890. Prerequisite: 3 credit hours in literature. Wicker, Jacobs
182. **VICTORIAN PROSE.** (3) The representative prose writers from 1830 to 1890. Prerequisite: 3 credit hours in literature. Wicker, Albrecht
185. **EARLY ENGLISH NOVEL.** (3) From the beginnings through Dickens. (Offered alternately with English 186). Wicker
186. **LATER ENGLISH NOVEL.** (3) From Thackeray to the present. (Offered alternately with English 185). Wicker
197. **UNDERGRADUATE PROBLEMS.** (1-3) Students with approved qualifications may register for special studies in literature. Staff
198. **REVIEW SEMINAR.** (1) Senior English majors are advised to take this course in preparation for the comprehensive examination. Staff
205. **PROBLEMS SEMINAR IN THE HISTORY OF LITERARY CRITICISM.** (1-3) The Classical and Renaissance tradition in literary criticism with special consideration of the works of English and American critics. Smith
209. **STUDIES IN AMERICAN LITERATURE AND CULTURE, TO 1840.** (3) Amerind, poetry, myth; early chronicles; early poetry of New England, Connecticut Wits, the Philadelphia School; Irving, Bryant, Cooper, Melville, Poe, Longfellow. Pearce, Arms, Smith
210. **STUDIES IN AMERICAN LITERATURE AND CULTURE, TO 1914.** (3) The frontier; western local color and mid-western realism: Whitman, Lowell, Clemens, Bierce, Howells, James and others. Arms, Smith, Pearce

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211. TRANSCENDENTALISM IN AMERICAN LITERATURE. (3) Emerson and Thoreau; and their contemporaries, Hawthorne, Melville, and Poe. Arms
212. REALISM IN AMERICAN LITERATURE. (3) Howells, Clemens, Henry James; and their contemporaries, Whitman and Henry Adams. Arms
219. CARLYLE AND HIS CIRCLE. (3) The political, social and religious ideas of Thomas Carlyle, and their reflection in contemporary and later literature. Jacobs
247. STUDIES IN SHAKESPEARE. (3) Graduate Staff
248. MARLOWE AND JONSON. (3) Seminar in romantic and realistic plot, characterization, and stagings. Pearce
249. OLD ENGLISH. (3) Readings in Old English prose and poetry, exclusive of Beowulf. (Offered alternately with English 250). Pearce
250. BEOWULF. (3) Readings of the Old English epic, Beowulf. (Offered alternately with English 249.) Albrecht
- 251, 252. SEMINAR PROBLEMS FOR THE MASTER'S DEGREE. (1-3 each semester). Studies in literature and philology. Graduate Staff
300. THESIS. (4-6) Graduate Staff
- 351, 352. SEMINAR PROBLEMS FOR THE DOCTOR'S DEGREE. (1-3 each semester). Graduate Staff
400. DISSERTATION. (0) Graduate Staff

ENGLISH

DIVISION OF JOURNALISM

Assistant Professor Rafferty (Director); Instructor Conger.

MAJOR STUDY

30 hours including: 51, 52, 101, 111, 112, and 122. Six hours may be chosen from the following:

English 55, 63, 91, 121, 166; Speech 192; Government 105; and Philosophy 53.

Journalism I and Journalism 2 count toward the major but are not required. Journalism 1 is prerequisite to Journalism 2.

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MINOR STUDY

18 hours including Journalism 51 and 52. Six hours may be chosen from the list given above under Major Study.

1. INTRODUCTION TO JOURNALISM. (1) Freshmen only. Not a prerequisite. Lecture one hour a week on the meaning, history, and practices of American journalism, together with some practice in news-writing and a study by each student of a daily paper.
2. INTRODUCTION TO JOURNALISM. (1) Same as above, but including an introduction to copy-editing and newspaper organization.
51. NEWS WRITING AND REPORTING. (3) Spot news writing and opportunities for free-lance reporting and writing.
52. NEWSPAPER FEATURE WRITING. (3) The writing of newspaper feature stories in class and on assignment.
87. PHOTOGRAPHY. (2) (Same as Art 87).
88. PHOTOGRAPHY. (2) (Same as Art 88).
101. HISTORY OF JOURNALISM IN THE UNITED STATES. (3) A study of American newspaper and magazine history from the early Colonial periodicals and opinion-treatment of news through the present-day streamlined mass-production newspaper and the objective theory of news treatment.
102. EDITORIAL AND SPECIAL WRITING. (3) Practice and criticism in the writing of the editorial essay and the information editorial, and in the writing of the column, and of other interpretive matter.
111. NEWSPAPER DESK WORK. (3) Practice in the assembling and editing of news copy, in dummied newspaper pages, in headline writing, and in composing room makeup. Prerequisite: 51 and 52.
112. NEWSPAPER DESK WORK. (3) Continuation of 111, with emphasis on rewriting and problems of typography.
122. LAW OF THE PRESS. (2) Lectures, discussions, and case histories in the law of libel and the Constitutional guarantees, and in laws relating to contempt and injunction proceedings and other checks of law upon the press.
123. THE COMMUNITY NEWSPAPER. (3) Lectures, studies, and problems relating to operation of the rural newspaper, particularly the country weekly, including general weekly newspaper management as distinguished from problems of the large dailies, and community editorial responsibilities.

ARTS AND SCIENCES

132. [English 122]. GENERAL MAGAZINE WRITING. (2) Writing for professional magazine publication.
194. SEMINAR IN PROBLEMS OF THE PRESS. (2) Lectures in and discussions of the concept of a free press and the responsibilities and restraints laid upon the press within that concept.

ENGLISH

DIVISION OF SPEECH

Assistant Professors Allen (Director), Chreist, Keleher, Reid;
Instructors Adams, Hoffman, Law; Teaching Assistant Gillespie.

All speech students must take a speech placement test and must make a speech and voice recording. Students who have either speech and/or voice defects must take Speech 4, and possibly further work, without credit, in the Speech Workshop.

SPEECH WORKSHOP

Every freshman and transfer student entering the University is expected to make a speech and voice recording in the Speech Workshop. If these tests show a significant defect or defects, the student may be required to take Speech 4, and possibly other work in the Speech Workshop. In cases of severe stuttering, stammering, lisping, speech blockage, lack of speech rhythm, and so on, the student may be required to do individual work, in the Speech Workshop, under faculty direction. Students who speak with a foreign accent may be required to take Speech 5.

FORENSICS

The Speakers' Club, an extra-curricular organization, sponsors work in debate, extempore and impromptu speaking, oratory, radio production, and other forensic activities. Students interested in these activities should join the Speakers' Club. Juniors and Seniors should take Speech 77, Forum and Debate.

MAJOR STUDY

35 hours, comprised of 26 hours completed in the Division of Speech, plus nine hours in the Department of Drama. The 26 hours in the Division of Speech must include Speech 1 and 2, (or equivalent), 91, 120, 160, and 195. Majors and minors who are planning to teach speech should enroll in Education 155c, The Teaching of English and Speech in High School.

MINOR STUDY

20 hours completed in the Division of Speech, including Speech 1 and 2, (or equivalent), 91, and 120; 11 hours must be in Speech courses numbered above 50.

ARTS AND SCIENCES

†Speech A. ORAL COMMUNICATIONS. (3) Emphasis upon individual problems in basic communications and adjustment to speech situations in the effective use of speech as a tool of human relationships. The analysis of types of speech, with practice in conversations, reports, organization of speech materials, and the underlying techniques. Voice, posture, and speech personality are considered. Staff

*Speech 1, 2. FUNDAMENTALS OF SPEECH AND READING. (3, 3) (Same as Dramatic Art 1, 2) The preparation and delivery of original and practical extempore speeches, including a study of rhetorical principles, audience psychology, methods of presentation, and the basic principles of the physiology of speech and voice. Staff

*Speech 4. SPEECH EDUCATION (CORRECTION). (3) Emphasis upon the more common types of speech disorders and their causes, and the various theories of treatment. 2 lectures, 2 hrs. lab. Chreist

*Speech 5. SPEECH FOR FOREIGN LANGUAGE STUDENTS. (3) A course designed for the student who speaks English with a foreign accent or who lacks English speech patterns and rhythms. Considerable work will be given in International Phonetics. Duncan

Speech 55. SPEECH FOR BUSINESS AND PROFESSIONS. (3) Speech for the business conference and the professions will be stressed. (Not open to students with credit for Speech 1 and/or 2.) Keleher

Speech 57. TECHNIQUES OF PUBLIC DISCUSSION. (3) Methods and practice in organizing and directing socially integrated speech programs in the community. Book reports, symposiums, forums, and panels will be considered. Prerequisites: 1, 2. Allen

Speech 60. INTERPRETATIVE READING (NON-DRAMATIC) AND CHORAL SPEAKING. (3) The interpretation of the written page and the spoken interpretation of verse and music will be considered. Each student will be required to do extra work in the speaking choir. Law

*Speech 70. PROBLEMS IN READING. (3) A course in remedial reading and the problems of the slow reader. Reading tests will be given and suitable remedial exercises will be required. Allen

Speech 77. ARGUMENTATION AND DEBATE. (3) A course for students interested in debate and intercollegiate forensics. Pre-requisite: consent of instructor. Ried

Speech 90. RADIO PRODUCTION. (3) A beginning in the nature and production of radio speech, techniques, direction, and production (excluding radio drama.) Allen

ARTS AND SCIENCES

Speech 91. HISTORY OF THE ENGLISH LANGUAGE. (3) (Same as English 91.) Pearce

Speech 120. SPEECH SCIENCE AND PATHOLOGY. (3) A course in the physiological and phonological science of speech and hearing. The psychology of speaker-audience relationships to be considered. Pathological deviations of an organic and functional nature will be stressed. All students required to observe and participate in the work of the Speech laboratory. Hoffman, Chreist

Speech 135. ARTICULATORY PROBLEMS IN SPEECH CORRECTION. (3) All types of articulatory problems. Sound substitutions, distortions, omissions, delayed speech, problems of the deaf will be discussed. Laboratory work using subjects from the University student body and from the public schools will be required. Prerequisites: 1 or 2, 4, and permission of instructor. Chreist

Speech 136. STUTTERING PROBLEMS IN SPEECH CORRECTION. (3) The various theories of stuttering and other rhythmic disorders of speech as well as corrective therapies. Laboratory work and observation will be required of all students. Prerequisites: 1, 2, 4, and permission of instructor. Chreist

Speech 155c. THE TEACHING OF ENGLISH AND SPEECH IN THE HIGH SCHOOL. (3) (Same as Education 155c.) Keleher

Speech 160. PHONETICS. (3) English phonetics as applied to the problems of articulation, pronunciation, rhythm, dialects, and to the teaching of speech and to speech correction. Hoffman

Speech 190. ADVANCED RADIO PRODUCTION. (3) An advanced lecture and workshop course using radio as a resource for modern living or classroom teaching. Utilization of network and station programs, transcriptions, recordings, and equipment maintenance. The writing, directing, and production of various programs will be required of each student. Prerequisites: 1 and 2 or 6 hrs. of Journalism. Allen

Speech 192. RADIO WRITING. (3) Literature of radio, with considerable practice in writing scripts and radio journalism. Prerequisites: 1 and/or 2 and 9 hrs. of English composition or 6 hrs. of Journalism. Allen

Speech 195. SEMINAR IN THE HISTORY AND LITERATURE OF RHETORIC, ORATORY AND DEBATE. (3) Covers the general bibliography and research problems in the field of speech and one major research project will be required of each student. Allen

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FRENCH

See Modern Languages.

GEOGRAPHY

Not a department.

101, 102. PHYSICAL GEOGRAPHY OF LATIN AMERICA. (3, 3)

188. CULTURAL GEOGRAPHY: OLD WORLD. (3)

189. CULTURAL GEOGRAPHY OF LATIN AMERICA. (3)

GEOLOGY

Professors Northrop (Head), Kelley; Assistant Professors Beck, Wengerd; Graduate Assistants Beaumont, Hendren, Johnson, Silver.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

MAJOR STUDY

For the degree of Bachelor of Arts: Geology 1, 2, 5L, 6L, 73L, 74L, and 22 additional upper division hours. Chemistry 1L and 2L are required.

For the degree of Bachelor of Science: Geology 1, 2, 5L, 6L, 73L, 74L, 103L, 106L, 108L, 109L, 110L or 111L, 112L; and 6 additional upper division hours. Chemistry 1L, 2L, and Civil Engineering 4L are required; Mathematics 15 and 16 are strongly recommended. The candidate must minor in chemistry, biology, physics, mathematics, or engineering. *Minor in engineering*: 20 hours, as approved by the Geology department, from among the following: Engineering 1L, 2L; Civil Engineering 4L, 54L, 60, 102, 110L, 112L, 157F, 167L, 184; Mechanical Engineering 53, 105, 181, 182. Observe prerequisites.

MINOR STUDY

Geology 1, 2, 5L, 6L, and 12 additional hours.

- *1. PHYSICAL GEOLOGY. (3) Materials composing the earth, and work of agencies, both external and internal, modifying its surface.
Kelley, Beck, Wengerd
- *2. HISTORICAL GEOLOGY. (3) History of the earth; rise and succession of the various forms of life. Prerequisite: 1.
Northrop, Wengerd

ARTS AND SCIENCES

4. ENGINEERING GEOLOGY. (3) Introductory geology with emphasis on engineering aspects. (Open to engineers only).

Kelley

- *5L. PHYSICAL GEOLOGY LABORATORY. (1) Minerals, rocks, and topographic maps. Credit suspended when credit in Geology 1 is not earned. Co-requisite: 1. 2 hrs. lab.

Staff

- *6L. HISTORICAL GEOLOGY LABORATORY. (1) Fossils and paleogeographic maps; emphasis on the historical geology of New Mexico. Credit suspended when credit in Geology 2 is not earned. Co-requisite: 2. 2 hrs. lab.

Staff

- *54. GEOGRAPHY OF NORTH AMERICA. (2) (Normally offered in Summer Session only.)

Staff

- 73L, 74L. MINERALOGY. (4, 4) Crystallography; chemical, physical, and descriptive mineralogy; geologic occurrences, associations, and uses. Prerequisite: Geology 5L; prerequisite or co-requisite: Chemistry 1L, 2L. Course 73L may be taken separately, but 73L is prerequisite to 74L. 2 lectures, 6 hrs. lab.

Beck

- 75F. ELEMENTARY FIELD GEOLOGY. (4) For students of Lower Division, undergraduate level, who have had no previous field experience. Conducted field tours; collection and description of rocks, minerals, and fossils; elementary field techniques. Prerequisites: 1, 2, 5L, and 6L.

101. NONMETALLIFEROUS DEPOSITS. (3) Origin, properties, utilization, and classification of industrial minerals, rocks, and coal. Prerequisites: 6L and 74L.

Kelley

102. ORE DEPOSITS. (3) Metalliferous deposits with respect to their origin, distribution, structure, and alteration; mining and utilization problems. Prerequisites: 6L, 74L, and 103L.

Kelley

- 103L. [81L]. PETROLOGY. (3) Classification, occurrence, origin, and hand-specimen recognition of common rocks. Prerequisites: 6L and 74L. 2 lectures, 3 hrs. lab.

Kelley

105. NEW MEXICO GEOLOGY. (2) Prerequisites: 6L and 74L; 103L and 108L are strongly recommended.

Northrop

- 106L. FIELD GEOLOGY. (2) Geologic mapping; principles and techniques; preparation of a report. Prerequisites: Geology 6L and C. E. 4L; prerequisite or co-requisite: Geology 103L. 1 full day in field each week.

Kelley

- 108L. STRUCTURAL GEOLOGY. (3) Rock structures and their origins; problems. Prerequisite: 6L; mechanical drawing or

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descriptive geometry or both are strongly recommended. 2 lectures, 3 hrs. lab. Kelley

109L, 110L. STRATIGRAPHY. (4, 4) Yr. Principles, followed by a survey of the stratified rocks of North America, their correlation, stratigraphic relations, and guide fossils. Prerequisite: 6L; some biology is strongly recommended. Credit suspended for 109L until 110L is completed. 2 lectures, 6 hrs. lab. Northrop

111L, 112L. PALEONTOLOGY. (4, 4) Yr. Fossil plants, invertebrates, and vertebrates, with emphasis on the invertebrates; structure, classification, life habits, evolution, and geologic history. Prerequisite: 6L; some biology is strongly recommended. Credit suspended for 111L until 112L is completed. 2 lectures, 6 hrs. lab. Northrop

115L. GEOLOGIC INTERPRETATION OF AERIAL PHOTOGRAPHS. (2) Characteristics, field control, map projections, photogrammetric computations, and stereoscopy. Preparation of contour maps and aerial mosaics. Interpretation of geology; areal mapping from vertical and oblique photographs. Prerequisites: Geology 6L, Mathematics 16, Engineering 1L and 2L; Geology 108L and 181L, and Civil Engineering 4L are strongly recommended. 1 lecture, 3 hrs. lab. Wengerd

121L, 122L. OPTICAL MINERALOGY AND PETROGRAPHY. (4, 3) Optical mineralogy; the polarizing microscope; systematic study of rocks with respect to their mineralogy, texture, and genesis. Prerequisite: 74L. Course 121L may be taken separately, but 121L is prerequisite to 122L. 121L: 2 lectures, 6 hrs. lab; 122L: 1 lecture, 6 hrs. lab. Beck

133L. ADVANCED FIELD GEOLOGY. (3) Prerequisite: 106L. Kelley and Staff

141L. SEDIMENTOLOGY. (3) The sedimentary cycle and its products; rock-weathering and soils; transport; depositional environments; sedimentary petrology. Prerequisite: 74L. 2 lectures, 3 hrs. lab. Wengerd

142. [142L]. PETROLEUM GEOLOGY. (3) An inductive approach to the principles of oil origin and accumulation, based on structural and stratigraphic study of oil-producing regions and districts. Prerequisite: 141L. Wengerd

151, 152. PROBLEMS. (2, 2) Staff

161. GROUND WATER. (2) Occurrence and development of ground water with special emphasis on Southwestern conditions. Prerequisite: 141L. Staff

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- 181L. GEOMORPHOLOGY. (3) Origin, development, and classification of land forms, with detailed consideration of gradational processes. Prerequisite: 108L. 2 lectures, 3 hrs. lab. Staff
- 182L. GEOMORPHOLOGY OF THE UNITED STATES. (3) Detailed study of the physiographic provinces and sections of the United States; emphasis on western United States. Prerequisite: 181L. 2 lectures, 3 hrs. lab. Staff
- 201L. SUBSURFACE GEOLOGY. (3) Well-logging and correlation techniques. Study of cuttings, drilling-time logs, electric logs, radioactivity logs, and insoluble-residue logs. Construction of subsurface-contour, isopach, and isopleth maps, and of detailed cross-sections. Prerequisites: 110L and 142. 1 lecture, 6 hrs. lab. Wengerd
- 251, 252. PROBLEMS. (2-3 each semester) Graduate Staff
300. THESIS. (4-6) Graduate Staff

GERMAN

See Modern Languages.

GOVERNMENT AND CITIZENSHIP

Professors Donnelly (Head), Jorrín; Associate Professors Judah, Westphal; Assistant Professor Irion; Instructors Cline, Holmes; Graduate Assistants Barnard, Dresner, Dunbar, Shamaskin.

GROUP REQUIREMENTS

Courses in this Department count toward Social Science (Group III.)

MAJOR STUDY

In addition to Government 1 and 2, 27 hours including 51, 52, 121, 141, 175, 197 or 198.

MINOR STUDY

In addition to Government 1 and 2, 15 hours including 51, 52, 121, 141, 175.

CURRICULUM FOR STUDENTS WHO PLAN TO STUDY LAW

See College of Law.

- *1, 2. INTRODUCTION TO SOCIAL SCIENCE. (3, 3) Yr. (Same as Economics 1, 2 and Sociology 1, 2). A study of current social, economic, and political problems, with particular reference to the United States. Credit suspended until both semesters are completed. Staff

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- *51, 52. AMERICAN GOVERNMENT AND POLITICS. (3) National government; state, county and city government. Staff
- 73. INTRODUCTION TO LATIN AMERICA. (3) (Same as Anthropology 73, Economics 73, and Sociology 73). For description see p. 92. Jorrín, Barnard
- 101. LOCAL GOVERNMENT. (2) Special consideration of the organization, administration, and problems of counties, municipalities, metropolitan areas, and administrative districts. Staff
- 103. PROBLEMS OF DEMOCRACY. (3) Government problems of special contemporary importance. Judah
- 105. PUBLIC OPINION AND PROPAGANDA. (3) Public opinion as it affects party alignments and governmental programs. The methods used by special interests in influencing public opinion. Prerequisites: 1, 2. Irion
- 106. POLITICAL PARTIES. (3) The American party system; national, state, and local. Prerequisites: 1, 2. Donnelly
- 121. PUBLIC ADMINISTRATION. (3) Introduction to the general problems of public administration in the modern state; evolution of administrative organization; tendency toward centralization and integration; controls which are exercised over administration by the courts and legislatures; personnel and fiscal management; reorganization of administration. Prerequisites: 51, 52. Donnelly
- 141. INTERNATIONAL RELATIONS. (3) The origin and nature of the problems involved in international relations. Recommended: 51, 52. Westphal
- 143. INTERNATIONAL LAW. (3) The origin, nature, and application of the rules of international law. Prerequisites: 1, 2 and 51, 52. Westphal
- 151. AMERICAN DIPLOMACY. (3). (Same as History 151.)
- 155. THE GOVERNMENTS OF LATIN AMERICA. (3) A consideration of the governments of a number of Latin American states including a study of their domestic problems and diplomatic policies. Prerequisites: 51, 52 or 1, 2; and 73. Jorrín
- 167. POLITICAL THEORY. (3) Political thought from the Greek period through modern times. Prerequisites: 51, 52. Jorrín
- 169. COMPARATIVE GOVERNMENT. [Comparative Economic and Political Systems] (3) A survey and comparison of the leading governments of Europe. Prerequisites: 51, 52. Westphal

ARTS AND SCIENCES

170. ORGANIZATION AND ADMINISTRATION OF SOCIAL WELFARE.

(3) The special application of the principles of public administration to the fields of social welfare. Historical development; agency boards; fiscal policy; personnel practices and problems. Prerequisite: 121. Ellis

175. CONSTITUTIONAL LAW. (3) The Constitution of the United States as it has been interpreted by the courts. Prerequisites: 51, 52. Irion

197, 198. SEMINAR. (2, 2) Open to advanced students with approved qualifications. Staff

201, 202. ADMINISTRATIVE PROBLEMS. (2, 2) Graduate Staff

205, 206. POLITICAL PROBLEMS. (1-3 each semester) Graduate Staff

251, 252. PROBLEMS. (1-3 each semester) Graduate Staff

260. SEMINAR: RECENT POLITICAL THEORIES IN LATIN AMERICA. (2) Jorrín

300. THESIS. (4-6) Graduate Staff

HISTORY

Professors Russell (Head), Dargan, Reeve, Scholes; Associate Professors Sacks, Woodward; Assistant Professor Price (Visiting); Teaching Assistants Baylen, Bird, Westphall; Graduate Assistants Armstrong, Curtis, Hood.

GROUP REQUIREMENTS

Courses in this Department count toward Social Science (Group III).

MAJOR STUDY

Students entering before June 1948 may choose either of the following programs, those entering in June 1948 or later must follow program (a): (a) 33 hours in History including 12 hours from courses 1, 2 and 11, 12 or 51, 52, and at least 15 hours numbered above 100; (b) 30 hours in history including 12 hours from courses 1, 2 and 11, 12 or 51, 52 and at least 18 hours numbered above 100. All students who intend to take upper division courses in history are urged to acquire a reading knowledge of at least one foreign language, preferably Spanish, before reaching the junior year.

MINOR STUDY

18 hours in History including 1, 2 or 11, 12, and not less than 6 hours numbered above 100.

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- *1, 2. WESTERN CIVILIZATION. (3, 3) European developments
from the decline of Rome to the present.
Sacks, Russell, Price and Assistants
- *11, 12. HISTORY OF THE AMERICAS. (3, 3)
Woodward and Assistants
- *31. HISTORY OF NEW MEXICO. (2) Woodward, Westphall
- *51, 52. HISTORY OF THE UNITED STATES. (3, 3) Dargan, Reeve
- 71, 72. HISTORY OF ENGLAND. (3, 3) Russell
- 81, 82. HISTORY AND POLITICAL INSTITUTIONS OF GREECE AND
ROME. (3, 3) Price, Russell
- 85. HISTORY OF MODERN RUSSIA. (2) Baylen
- 91. HISTORY OF CHINA. (3) Bird
- 96. HISTORY OF JAPAN. (3) Bird
- 111. HISTORY OF GERMANY. (3) Price
- 121. THE MIDDLE AGES. (3) Russell
- 123. THE RENAISSANCE AND THE REFORMATION. (3) Russell
- 131. ENGLISH CONSTITUTIONAL HISTORY. (3) Price, Russell
- 132. STUART ENGLAND. (2) A study of the great constitutional
and religious crises of Seventeenth Century England. Russell
- 135. THE BRITISH EMPIRE. (3) Sacks
- 141. INTERNATIONAL RELATIONS. (3) (Same as Government 141.)
Donnelly, Westphall
- *142. EUROPE, 1648-1774. [Modern Europe, 1648-1815] (3) A
study of Europe under the divine right monarchs and benevolent
despots through the Age of Reason. Sacks
- 143. [142]. FRENCH REVOLUTION AND NAPOLEON. [Modern Eu-
rope, 1648-1815] (3) A study of the background of the Revolu-
tion, its principles and its course, and the expansion of ideas
over Europe in the time of the Revolution and Napoleon. Sacks
- 145. MODERN EUROPE, 1815-1914. (3) Sacks
- 146. DICTATORSHIPS AND DEMOCRACY IN EUROPE SINCE 1914. (3)
Sacks
- 151. AMERICAN DIPLOMACY. (3) Dargan
- 161, 162. HISTORY OF LATIN AMERICA. (3, 3)
Scholes, Woodward
- 163. THE A. B. C. POWERS IN RECENT TIMES. (3) Woodward

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- 165, 166. HISTORY OF SPAIN. (2, 2) Russell, Woodward
167. HISTORY AND CIVILIZATION OF PORTUGAL AND BRAZIL. (2)
Woodward
168. MEXICO AND THE CARIBBEAN. (3) Woodward
171. THE AMERICAN COLONIES. (3) Dargan
173, 174. AMERICAN BIOGRAPHY. (2, 2) The great persons who
have influenced American history. Dargan
175. THE SOUTH IN AMERICAN HISTORY, 1763-1865. (3) Dargan
178. RECENT HISTORY OF THE UNITED STATES. (3) Reeve
179. CONSTITUTIONAL HISTORY OF THE UNITED STATES. (3) Reeve
181. HISTORY OF THE AMERICAN FRONTIER. (3) Dargan
191, 192. HISTORY OF THE SOUTHWEST. (3, 3)
Scholes, Reeve, Woodward
202. INTRODUCTION TO HISTORICAL RESEARCH. (3) Woodward
251, 252. PROBLEMS. (1-3 each semester.) Graduate Staff
256, 257. SEMINAR IN EUROPEAN HISTORY. (1-3 each semester.)
Russell, Sacks
261, 262. RESEARCH IN SOUTHWEST HISTORY. (1-3 each semester.)
Graduate Staff
266, 267. SEMINAR IN LATIN AMERICAN HISTORY. (1-3 each semes-
ter.) Scholes, Woodward
271, 272. SEMINAR IN AMERICAN HISTORY. (1-3 each semester.)
Dargan, Reeve
300. THESIS. (4-6) Graduate Staff

ITALIAN

See Modern Languages.

JOURNALISM

See English.

LIBRARY SCIENCE

Professor Shelton (Head).

MAJOR STUDY

Not offered.

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MINOR STUDY

Library Science 21; 22 or 24; 23; and 25.

21. REFERENCE AND BIBLIOGRAPHY. (3) Training in the use of standard works of reference. Shelton
22. PUBLIC LIBRARY ADMINISTRATION. (3) The place of the library in the community; its organization, financing, and administration. Shelton
23. CLASSIFICATION AND CATALOGING. (3) Principles of classification and the techniques of cataloging for libraries. Shelton
24. SCHOOL LIBRARY ADMINISTRATION. (3) Practical study of the management of the school library, including the organization of the book collection, housing, equipment and maintenance. Shelton
25. BOOK SELECTION FOR YOUNG PEOPLE. (3) A survey course covering tools and principles of selection of books for young people. Shelton

MATHEMATICS AND ASTRONOMY

Professor LaPaz (Head); Associate Professors Boldyreff, Hendrickson, Hildner; Assistant Professors Rogers, Warden; Instructors Blessum, Child, Gragg, Haas, Lane; Teaching Assistant Schrandt.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

MAJOR STUDY

College of Arts and Sciences and College of Education: 24 hours in Mathematics in courses numbered above 50. (Majors in Education are required to take Education 155e. A list of recommended teachers is selected each year by vote of the mathematics faculty from those who complete the major.) Among the courses recommended for students specializing in mathematics are Mechanical Engineering 105 or Physics 103, 104; Business Administration 5, 6; Engineering 1L, 2L and 4; Civil Engineering 53L and 54L; Philosophy 56; and Physics 51L, 52L, 101, and 102.

MINOR STUDY

11 hours in Mathematics courses numbered above 52.

NOTE TO BEGINNING STUDENTS

Students electing Mathematics 15 will take a placement test in mathematics. Those who do not demonstrate adequate preparation will be transferred to Mathematics 14.

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1. COLLEGE ARITHMETIC. (2) The logical and historical background of arithmetic desirable in the training of teachers. Includes drill on fundamental operations. (No credit allowed in the Colleges of Engineering and Pharmacy.) Staff
11. SOLID MENSURATION. (3) Recommended for all students in the College of Engineering who do not present solid geometry for entrance. Includes some drill work on the slide rule. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. (No credit allowed in the Colleges of Engineering and Pharmacy.) Staff
- *14. AN INTRODUCTION TO MATHEMATICS. (3) Stress is placed on fundamental mathematical concepts rather than on manipulative drill. Recommended for students who do not expect to do extensive work in mathematics. Prerequisite: high school algebra, 1 unit. (No credit allowed in the Colleges of Engineering and Pharmacy.) Staff
15. COLLEGE ALGEBRA. (3) Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. Staff
16. PLANE TRIGONOMETRY. (3) Prerequisite: 15 or concurrent registration. Staff
22. ANALYTIC GEOMETRY. (3) Prerequisite: 15 and 16; Mathematics 16 may be taken concurrently. Staff
42. INTRODUCTION TO STATISTICAL METHODS. (3) A basic course especially for students specializing in the social sciences. Some laboratory work required. Not recommended for mathematics majors. Prerequisite: high school algebra, 1 unit. Rogers
52. DESCRIPTIVE ASTRONOMY AND METEORITICS. (3) An introductory course not requiring extensive knowledge of science or mathematics. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. LaPaz
- 53, 54. AN INTRODUCTION TO THE CALCULUS. (4, 4) The elements of the calculus correlated with courses in physics, chemistry, mechanics, and engineering. Prerequisites: 15, 16, and 22. Staff
- 61, 62. SPHERICAL TRIGONOMETRY AND PRACTICAL ASTRONOMY. (3, 3) Especially concerned with the mathematical foundation of navigation and related subjects. Prerequisites: 15, 16, and 22, or equivalent. Staff
87. MATHEMATICS OF FINANCE. (3) Accepted for major credit by the Departments of Economics and Business Administration. Prerequisite: 15 or equivalent. Gragg

ARTS AND SCIENCES

The courses which follow are open only to students who have completed Mathematics 54, or who have the instructor's permission.

- 107. THEORY OF NUMBERS. (3) LaPaz
- 115. THEORY OF EQUATIONS. (3) Hildner
- 131, 132. MATHEMATICS OF STATISTICS. (3, 3) Derivation and analysis of statistical formulae; use of calculating machines, detailed study of the normal curve, correlations, index numbers; mathematical theory of probability, with applications to statistics, physical sciences and engineering. Prerequisites: 42 and 54. Rogers, Boldyreff
- 141. DIFFERENTIAL EQUATIONS. (3) Ordinary and partial differential equations. Hendrickson, Boldyreff
- 142. APPLIED MATHEMATICAL METHODS. (3) Nomography, numerical solution of equations, interpolation, method of least squares, curve fitting, etc. Staff
- 143. VECTOR ANALYSIS. (3) Boldyreff
- 151. ADVANCED CALCULUS. (3) Hildner
- 161. HISTORY OF MATHEMATICS. (3) Staff
- 173, 174. ADVANCED ANALYTIC GEOMETRY. (3, 3) Staff
- 175. FOUNDATIONS OF MATHEMATICS. (3) A critical study of the construction of a mathematical system. Staff
- 181. THEORY OF FUNCTIONS OF A REAL VARIABLE. (3) An introductory course in real variable analysis and its application. LaPaz
- 182. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. (3) An introduction to the theory of functions of a complex variable with applications to problems in physics and engineering. Staff
- 184. CALCULUS OF VARIATIONS. (3) Formulation of variation problems; derivation of necessary conditions and of sets of sufficient conditions; development of the Hamilton-Jacobi Theory; applications of the calculus of variations in dynamics, physics, and celestial mechanics. Hendrickson, LaPaz

* The seminars which follow are open only to qualified students and permission to register requires the consent of the Department Head.

- 194, 195, 196, 197. PRO-SEMINAR. (2 hrs. each semester.) Advanced reading and beginning research. Staff

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204, 205, 206, 207. SEMINAR. (2 hrs. each semester.) Advanced reading and research. Graduate Staff

300. THESIS. (4-6) Graduate Staff

MODERN LANGUAGES AND LITERATURES

Professors Kercheville (Head), Lopes, Ortega, Sr. Sender (Visiting Professor); Associate Professors DeJongh, Duncan, McKenzie; Assistant Professor Koch; Instructors Adams, Biondi, Campbell, Cobos, McGee, Nason, Pooler, Sr. Sender, Wallis; Teaching Assistants Adamson, Imbs, Lunardini, Ulibarri, Wilson; Graduate Assistants Brooks, Mueller, Stout.

GROUP REQUIREMENTS

Courses in this Department count toward Foreign Language (Group II) with the exception of Spanish 145, 146 and courses in the Folklore Division.

PHONETICS LABORATORY

The Department operates a Phonetics Laboratory where students in conversation and composition classes go for weekly exercises in pronunciation. Any student having special difficulties may be assigned work in the Laboratory. No extra credit is allowed for this work which is done only in connection with regular courses.

The Laboratory functions also as a clinic in English pronunciation for students whose imperfect diction is the result of a non-English background. This phase of the work is carried on in coöperation with the Speech Division of the English department.

NOTE TO FRESHMEN:

Students presenting high school language credits and wishing to enter courses above the elementary level should consult the Head of the Department. Spanish-speaking students should enroll in Spanish 55.

FRENCH

MAJOR STUDY

24 hours in French in courses numbered above 50. All French majors are urged to take a minor in Spanish or another modern language, or in Latin.

MINOR STUDY

12 hours in French in courses numbered above 50.

*1, 2. ELEMENTARY FRENCH. (3, 3) Yr. Credit for 1 suspended until 2 (or more advanced course) is completed. DeJongh and Staff

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- *51, 52. INTERMEDIATE FRENCH. (3, 3) Grammar, reading and translation. Prerequisites: 1, 2, or the equivalent. DeJongh and Staff

General prerequisites for the following courses: French 51, 52 or the equivalent.

- 101, 102. ADVANCED COMPOSITION AND CONVERSATION. (2, 2) Composition based on a thorough review of French grammar, and conversation based on modern French plays. DeJongh
- 105, 106. FRENCH LITERATURE OF THE NINETEENTH CENTURY. (2, 2) Representative works in poetry, drama, and fiction. DeJongh
- 121, 122. THE COMEDY OF MOLIÈRE. (2, 2) DeJongh
- 151, 152. SURVEY OF FRENCH LITERATURE FROM THE ELEVENTH CENTURY TO THE REVOLUTION. (3, 3) DeJongh
- 197, 198. UNDERGRADUATE PROBLEMS. (2, 2) DeJongh
- 251, 252. GRADUATE PROBLEMS IN FRENCH LITERATURE. (2, 2) DeJongh

GERMAN

MAJOR STUDY

Not offered.

MINOR STUDY

12 hours in German in courses numbered above 50.

- *1, 2. ELEMENTARY GERMAN. (3, 3) Yr. Credit for 1 suspended until 2 (or more advanced course) is completed. Koch
McKenzie and Staff
- *51, 52. INTERMEDIATE GERMAN. (3, 3) Prerequisites: 1, 2 or the equivalent. Koch, McKenzie and Staff
- *53, 54. GERMAN CONVERSATION AND COMPOSITION. (2, 2) A course designed to give students of 51, 52 extra practice in the writing and speaking of German. McKenzie
62. SCIENTIFIC GERMAN. (3) Readings in psychology, chemistry, mathematics, biology and anthropology. McKenzie
- 105, 106. [61] CONTEMPORARY GERMAN LITERATURE. (2, 2) McKenzie
- 151, 152. SURVEY OF GERMAN LITERATURE. (3, 3) McKenzie

ARTS AND SCIENCES

ITALIAN

No major or minor study offered.

- 75, 76. **ELEMENTARY ITALIAN.** (3, 3) Although this is an elementary course, the work is done under heavier pressure and more is achieved in reading and conversation than in the elementary language courses numbered 1, 2. It is open only to students who possess a good knowledge of the grammar of another Romance language and to graduate students, or to those who otherwise satisfy the instructor of their fitness to do the work. Biondi

PORTUGUESE

MAJOR STUDY

Not offered.

MINOR STUDY

12 hours in Portuguese in courses numbered above 50.

- *1, 2. **ELEMENTARY PORTUGUESE.** (3, 3) Yr. Credit for 1 suspended until 2 (or more advanced course) is completed.

Lopes and Staff

- *51, 52. **INTERMEDIATE PORTUGUESE.** (3, 3) Prerequisites: 1 and 2 or equivalent.

Lopes and Staff

- 101, 102. **ADVANCED COMPOSITION AND CONVERSATION.** (3, 3)

Lopes

151. **SURVEY OF PORTUGUESE LITERATURE.** (3)

Lopes

157. **SURVEY OF BRAZILIAN LITERATURE.** (3)

Lopes

165. **CAMÕES.** (3)

Lopes

166. **GIL VICENTE.** (3)

Lopes

- 197, 198. **UNDERGRADUATE PROBLEMS.** (2, 2)

Lopes

- 251, 252. **GRADUATE PROBLEMS.** (2, 2)

Lopes

SPANISH

MAJOR STUDY

30 hours in Spanish in courses numbered above 50, including Spanish 93, 94, 151, 152, and 153; and two years of college work in another modern language or Latin.

MINOR STUDY

18 hours in Spanish in courses numbered above 50.

- *1, 2. **ELEMENTARY SPANISH.** (3, 3) Yr. Credit suspended for 1 until 2 (or more advanced course) is completed. This course has

ARTS AND SCIENCES

each semester's work divided into 3 units, called Spanish 1.1, 1.2, 1.3 and 2.1, 2.2, 2.3. A student may advance from one unit to another only upon satisfactory completion of the work.

Lopes and Staff

- *51, 52. [41, 42] INTERMEDIATE SPANISH. (3, 3) 51 and 52 offered every semester. Campbell and Staff

- 53, 54. [43, 44] ELEMENTARY SPANISH CONVERSATION. (2, 2) This is a course designed primarily to give qualified students of 51, 52 extra practice in the oral use of the language. Enrollment limited to 15 students of A or B standing. Nason and Staff

- *55, 56. PRIMER CURSO PARA ESTUDIANTES DE HABLA ESPAÑOLA. (3, 3) All students who speak Spanish natively should enroll in this course. (Those in doubt about their proficiency should consult the Department Head.) The work consists of exercises in grammar, speech correction, and vocabulary building. Cobos and Staff

- *91, 92. INTRODUCTION TO SPANISH LITERATURE. (3, 3) Prerequisites: 51, 52 or the equivalent. Assignments of advanced reading material and discussion of principal Spanish literary figures and movements. Kercheville and Staff

- *93, 94. INTERMEDIATE CONVERSATION AND COMPOSITION. (2, 2) Required of all majors. Prerequisite: two years of college Spanish or equivalent. Nason and Staff

- *95. SPANISH BUSINESS LETTER WRITING. (2) Prerequisite: two years of college Spanish or equivalent. Cobos

- *96. COMMERCIAL AND INDUSTRIAL LANGUAGE PRACTICE IN HISPANIC COUNTRIES. (2) Prerequisite: two years of college Spanish or equivalent. Cobos

Spanish 91, 92 or the equivalent are prerequisite for all literature courses listed below.

- 105, 106. CONTEMPORARY SPANISH LITERATURE. (2, 2) Sender

- 107, 108. SPANISH NOVEL. (2, 2) Kercheville

- 121, 122. MODERN SPANISH DRAMA. (2, 2) Kercheville

- 131, 132. ADVANCED COMPOSITION AND CONVERSATION. (2, 2) Prerequisite: three years of college Spanish or equivalent. Ortega and Staff

- 145, 146. IBERO-AMERICAN CIVILIZATION. (2, 2) Conducted in Spanish. Staff

ARTS AND SCIENCES

- 151, 152. SURVEY OF SPANISH LITERATURE. (3, 3) Required of Spanish majors. Kercheville
153. PHONETICS. (2) Required of all majors. Prerequisites: three years of college Spanish or equivalent. Duncan
- 157, 158. SURVEY OF SPANISH-AMERICAN LITERATURE. (3, 3) Either this course or 263, 264 is required of candidates for a graduate degree. Lopes
- 163, 164. CONTEMPORARY SPANISH-AMERICAN LITERATURE. (2, 2) Prerequisites: Spanish 157, 158 or the equivalent. Lopes
- 165, 166. CERVANTES AND THE SPANISH GOLDEN AGE. (3, 3) Life and works of Cervantes; sources; historical developments in Sixteenth and Seventeenth Century Spain relating to literature; influence of Cervantes in other literatures. Ortega
- 191, 192. HISPANIC SOURCE MATERIALS AND CREATIVE WRITING IN SPANISH. (2, 2) Limited to qualified students and subject to approval of instructors and Department Head. Kercheville, Sender
- 197, 198. UNDERGRADUATE PROBLEMS. (2, 2) Staff
- 201, 202. HISTORY OF THE SPANISH LANGUAGE. (2, 2) Evolution of Spanish from Latin; reading from medieval texts. Required of all candidates for a graduate degree. Duncan
205. RESEARCH METHODS. (2) Required of candidates for a graduate degree. Duncan
- 207, 208. SEMINAR: SPANISH NOVEL TO 1868. (2, 2) Kercheville
- 251, 252. GRADUATE PROBLEMS. (2, 2) For candidates for Master of Arts degree. Graduate Staff
- 263, 264. SEMINAR: SPANISH-AMERICAN LITERATURE. (2, 2) Lopes
271. [171] SPANISH POETRY. (2) Required of candidates for a graduate degree. Lopes
278. SEMINAR: THE SPANISH PICARESQUE NOVEL. (2) Lopes
- 281, 282. SEMINAR: REALISM IN SPANISH LITERATURE. (2, 2) Ortega
- 291, 292. SEMINAR: PEREZ GALDOS AND THE MODERN SPANISH NOVEL. (2, 2) Kercheville
300. THESIS. (4-6) Graduate Staff
- 351, 352. GRADUATE PROBLEMS. (2, 2) For candidates for the degree of Doctor of Philosophy. Graduate Staff
400. DISSERTATION. (0) Graduate Staff

FOLKLORE

115. SOUTHWESTERN FOLKLORE. (2) Special stress on New Mexico. Staff
161. FOLKTALES. (2) In Europe and Spanish America. Staff
162. FOLK BALLADS AND SONGS. (2) Spanish balladry in the New World, particularly in New Mexico. Staff

PHILOSOPHY

Associate Professor Alexander (Acting Head); Instructors Goodwin, Stephens.

GROUP REQUIREMENTS

Courses in this Department count toward Social Science (Group III).

MAJOR STUDY

Philosophy 1 or 2, 45, 56, 141, 142 and additional hours to a total of 30 including 10 numbered above 100.

MINOR STUDY

Philosophy 1 or 2, 45 or 56, 141, 142 and additional hours to a total of 15.

- *1. INTRODUCTION TO PHILOSOPHY. (2) Preliminary acquaintance with examples of philosophical literature, and with the major types, problems, and terminology of philosophy. Alexander, Stephens, Goodwin
*2. PHILOSOPHY, SCIENCE AND RELIGION. (3) A philosophically oriented consideration of physical science and its relation to man and to the basic concepts of religion. Goodwin
*45. THOUGHT AND EXPRESSION. (3) The elements of logical thought as expressed in language. Alexander
*53. ETHICS. (3) The problems of human values and of current social philosophies in the light of a study of religious and philosophical moral developments of major world civilizations. Alexander
56. LOGIC. (3) Rules and fallacies of deductive and inductive reasoning. Prerequisite: 45 or equivalent. Alexander
64. PHILOSOPHY AND RELIGION. (3) A study of comparative religions and of the relation of religion to philosophy, science, and art. Stephens

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72. AMERICAN THOUGHT. (3) Philosophical, religious, and educational ideologies in America, with special reference to conflicts. Goodwin
102. AESTHETICS. (3) An introduction to the philosophy of art and beauty. Alexander
123. HISPANIC THOUGHT. (2) Major philosophical influences in Spanish culture. Alexander
- 141, 142. HISTORY OF IDEAS. (3, 3) Introduction to the history of Western Philosophy. 141: Ancient and medieval philosophy; 142: Renaissance and modern philosophy. Alexander
167. POLITICAL THEORY. (3) (Same as Government 167). Jorrin
176. CONTEMPORARY PHILOSOPHY. (3) Present-day philosophic thought with special reference to the works of Bergson and James. Prerequisite: 1 or equivalent. Stephens
185. ORIENTAL PHILOSOPHY. (3) Introduction to the major philosophical concepts of Oriental cultures. Staff
191. PHILOSOPHY OF LANGUAGE. (2) Introduction to the study of linguistic morphology and to theories of semantics and symbolism. Alexander
195. PHILOSOPHY OF SCIENCE. (3) The problems of epistemology and an analysis of fundamental concepts of science. Prerequisite: 1 or equivalent. Stephens
- 241, 242, 243, 244. PERIODS OF SPECIAL PHILOSOPHICAL SIGNIFICANCE. (2 hrs. each semester) Plato, Aristotle; Descartes, Spinoza, Leibniz; Locke, Berkeley, Hume; Kant, Fichte, Hegel; or others to be chosen by the group. Prerequisite: 141, 142. Alexander
- 251, 252. PROBLEMS. (2-3 each semester) Graduate Staff
300. THESIS. (4-6) Graduate Staff

PHYSICS

Consulting Professor Froman; Associate Professors Regener (Head), Street; Assistant Professor Breiland; Research Associates Kaplan, Nereson; Instructors Bowen, Grenchik, Martens, Runge; Teaching Assistants Landers, Root; Graduate Assistants Fixley, Merner, Smith.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

ARTS AND SCIENCES

MAJOR STUDY

Physics 101, 102, 103, 104, 105, 106, three of the laboratory courses Physics 101L, 102L, 106L, 107L; Mathematics 141; Chemistry 1L and 4L; Engineering Drawing 1L and Engineering Shops 10L and 20L, or equivalent drawing and shop experience approved by the Department Head; six additional hours above 100 in Physics, Mathematics or Chemistry. Recommended courses: Physics 131, 161, 162, 191, 192, 199; Mathematics 142; Chemistry 53L, 103L, 112L. Physics 125L, 126L, 127, 128 do not count toward the major. A reading knowledge of German or of another language approved by the Department Head is required.

MINOR STUDY

Physics 101, 102, 103, 105, and one of the laboratory courses numbered above 100.

MINOR STUDY IN METEOROLOGY

Physics 121 and nine additional hours taken from Physics 125L, 126L, 127, 128, 131.

PREREQUISITES

For all Physics courses numbered above 100: Physics 52 or approval of the Department Head. For all Physics courses numbered 200 and above: An undergraduate major in Physics or the equivalent thereof. See also special pre- or co-requisites stated under course listings.

1. FUNDAMENTALS OF PHYSICS. (2) A non-technical course in principles and methods of classical and contemporary physics. Open to all students. See also Physics 11 and 12 or 51 and 52; these courses are required of students planning to major in certain fields. Staff

- 11L. GENERAL PHYSICS. (4) Mechanics, heat, sound. Required of premedical, predental and preoptometry students. N. R. O. T. C. students in A & S, and of pharmacy students. Prerequisites: Mathematics 15 and 16. 3 lectures, 3 hrs. lab. Staff

- 12L. GENERAL PHYSICS. (4) Electricity and magnetism, optics. Required of premedical, predental and preoptometry students, N.R.O.T.C. students in A & S, and of pharmacy students. Prerequisites: Physics 11L; Mathematics 15 and 16. 3 lectures, 3 hrs. lab. Staff

- 51L. GENERAL PHYSICS. (4) Mechanics, heat, sound. Required of students planning to major in the natural sciences or in engineering. Pre- or co-requisite: Mathematics 53. 3 lectures, 3 hrs. lab. Regener

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- 52L. GENERAL PHYSICS. (4) Electricity and magnetism, optics. Required of students planning to major in the natural sciences or in engineering. Prerequisite: Physics 51L and Mathematics 53. Pre- or co-requisite: Mathematics 54. 3 lectures, 3 hrs. lab. Regener
- 101. HEAT AND THERMODYNAMICS. (3) (Offered every other year; alternates with 102). Street
- 101L. HEAT LABORATORY. (2) One lecture, 3 hrs. lab. (Offered in alternate years). Staff
- 102. PHYSICAL OPTICS. (3) Offered every other year; alternates with 101. Staff
- 102L. GEOMETRICAL OPTICS AND OPTICS LABORATORY. [Optics Laboratory] (2) One lecture, 3 hrs. lab. (Offered in alternate years). Staff
- 103, 104. ANALYTICAL MECHANICS. (3, 3) Pre- or co-requisites: Mathematics 141 and 143, or approval of instructor. (Offered every other year; alternates with 105, 106). Staff
- 105, 106. ELECTRICITY AND MAGNETISM. (3, 3) Pre- or co-requisites: Mathematics 141 and 143, or approval of instructor. (Offered every other year; alternates with 103, 104). Staff
- 106L. ELECTRICITY LABORATORY. (2) One lecture, 3 hrs. lab. (Offered in alternate years). Staff
- 107L. ELECTRONICS LABORATORY. (2) One lecture, 3 hrs. lab. (Offered in alternate years). Staff
- 121. GENERAL METEOROLOGY. (3) Breiland, Kaplan
- 125L, 126L. SYNOPTIC METEOROLOGY. (3, 3) Pre- or co-requisite: 121. Two lectures, three hours lab. (Offered every other year; alternates with 127, 128). Breiland
- 127, 128. DYNAMIC METEOROLOGY. (3, 3) Pre- or co-requisites: 101, 121. (Offered every other year; alternates with 125L, 126L). Breiland
- 131. ATMOSPHERIC PHYSICS. (3) Kaplan, Regener
- 161, 162, 163, 164. EXPERIMENTAL RESEARCH METHODS. (2 hrs. each semester). Advanced laboratory work. Prerequisite: approval of instructor. Regener
- 190. INTRODUCTION TO CONTEMPORARY PHYSICS. (3) Usually offered during the summer session. Staff
- 191. CONTEMPORARY PHYSICS. (3) Special Relativity and Quantum Theory. Regener

ARTS AND SCIENCES

192. CONTEMPORARY PHYSICS. (3) Wave Mechanics and Nuclear Physics. Regener, Street
199. SEMINAR. (1 each semester). Staff
201. STATISTICAL MECHANICS AND THERMODYNAMICS. (3) (Offered every other year; alternates with 211). Street
211. ELECTRODYNAMICS. (3) (Offered every other year; alternates with 201). Graduate Staff
- 221, 222. QUANTUM MECHANICS. (3, 3) Street
231. ATOMIC STRUCTURE. (3) Prerequisite: 221; co-requisite: 222. (Offered every other year; alternates with 241). Street
241. NUCLEAR PHYSICS. (3) Prerequisite: 221; co-requisite: 222. (Offered every other year; alternates with 231) Graduate Staff
- 251, 252. PROBLEMS. (2-4 each semester). Graduate Staff
300. THESIS. (4-6) Graduate Staff
350. RESEARCH. (6-12)- Graduate Staff
400. DISSERTATION. (0) Graduate Staff

PORTUGUESE

See Modern Languages.

PSYCHOLOGY

Professor Peterson; Assistant Professors Shaklee (Acting Head), Coleman, Keston; Instructor Benedetti; Graduate Assistants Ames, Ciccolella, McGiboney, M. Miller, S. Miller, Rigney.

GROUP REQUIREMENTS

Courses in this Department count toward Science and Mathematics (Group IV).

MAJOR STUDY

For the degree of Bachelor of Arts; 24 hours in Psychology in courses numbered above 51.

For the degree of Bachelor of Science: 24 hours in Psychology in courses numbered above 51, including Psychology 180, 193, and 196. The minor must be selected from one of the following departments: Biology, Chemistry, Mathematics, or Physics.

MINOR STUDY

12 hours in Psychology in courses numbered above 51.

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- *1L, 2L. GENERAL PSYCHOLOGY. (3, 3) Yr. Credit suspended for 1L until 2L is completed. 1L is prerequisite to 2L. 2 lectures, 2 hrs. lab. Staff
- *51. GENERAL PSYCHOLOGY. (3) An introductory course. Not open to those who have credit for Psychology 2L. Staff
- *54. EDUCATIONAL PSYCHOLOGY. (3) An introductory course, primarily for sophomores. Prerequisite: 2L or 51. Keston
- *58. INDUSTRIAL PSYCHOLOGY. (3) Applications of psychology to industry and business. Prerequisite: 2L or 51. Coleman
- *60. DYNAMICS OF PERSONALITY ADJUSTMENT. (3) Major principles underlying personality adjustment and their practical application to mental hygiene. Prerequisite: 2L or 51. Benedetti, Coleman
101. SOCIAL PSYCHOLOGY. (3) The behavior of individuals as influenced by other human beings. Prerequisite: 2L or 51. Keston
103. [61] ABNORMAL PSYCHOLOGY. (3) Dynamics of psycho-neurotic, psychotic, alcoholic, criminal and other maladjustive reactions. Prerequisite: 60 or consent of instructor. Coleman
- 121L. EXPERIMENTAL PSYCHOLOGY OF SENSORY AND MOTOR PROCESSES. (3) Lectures and experiments in vision, hearing, psychomotor performance and related topics. Prerequisite: 2L or 51. 1 lecture, 6 hrs. lab. Staff
- 122L. EXPERIMENTAL PSYCHOLOGY OF LEARNING. (3) Lectures and experiments in learning, concept formation and reasoning. Prerequisites: 2L or 51. 1 lecture, 6 hrs. lab. Staff
131. PSYCHOLOGICAL AND EDUCATIONAL TESTS. (3) Prerequisite: 2L or 51. Credit not allowed to those who have credit for 185. Shaklee
- 132L. [190L] DIAGNOSTIC TESTING. [Clinical Psychology] (3) Use of major psychological tests in clinical diagnosis and therapy. Includes practice with Binet, Arthur, Wechsler-Bellevue, Minnesota Multiphasic and Thematic Apperception tests. Prerequisites: 60, 131 or consent of instructor. 1 lecture, 6 hrs. lab. Coleman
180. ADVANCED STATISTICAL METHODS IN PSYCHOLOGY. (3) Prerequisites: a course in statistics or consent of instructor; 2L or 51. Shaklee
183. EDUCATIONAL PSYCHOLOGY. (3) Advanced course. Not open to those who have credit for 54. Prerequisite: 2L or 51. Keston

ARTS AND SCIENCES

187. CHILD PSYCHOLOGY. (3) The principles of human behavior in infancy, childhood, and adolescence. Prerequisite: 2L or 51.
Keston
193. ANIMAL PSYCHOLOGY. (3) A comparative study of heredity, maturation, learning, and the higher mental processes as revealed in various animals. Prerequisite: 2L or 51. Peterson
- 193L. ANIMAL PSYCHOLOGY LABORATORY. (2) 6 hours lab.
Peterson
196. PHYSIOLOGICAL PSYCHOLOGY. (3) Correlation of behavior and structure, with emphasis on the nervous system. Prerequisite: 2L or 51. Peterson
- 196L. PHYSIOLOGICAL PSYCHOLOGY LABORATORY. (2) 6 hrs. lab.
Peterson
197. READINGS IN PSYCHOLOGY. (1-2 per semester to a maximum of 6). Independent reading in a particular field of psychology, accompanied by conferences and followed by an integrated report covering material read. Prerequisite: 2L or 51.
Graduate Staff
198. HISTORY OF PSYCHOLOGY. (3) Prerequisite: 2L or 51.
Peterson
199. UNDERGRADUATE PROBLEMS. (1-3) Prerequisite: 2L or 51.
Graduate Staff
- 221, 222. GRADUATE SEMINAR. (1-3 each semester) Peterson, Shaklee
- 240L. CLINICAL PSYCHOLOGY. (3) Advanced theory and technique applied to typical problems in clinical practice. Opportunities will be provided, insofar as possible, for specialization in major clinical areas such as schools, courts, and clinics. Prerequisite: 103, 132L, or equivalent, and consent of instructor. 1 lecture, 6 hrs. lab. Coleman
- 251, 252. PROBLEMS. (2-3 each semester) Graduate Staff
300. THESIS. (4-6) Graduate Staff

SOCIOLOGY

Professor Walter (Head); Associate Professor Miller; Assistant Professors Ellis, Saunders; Instructor Crowell; Graduate Assistants Chavez, Lucero.

GROUP REQUIREMENTS

Courses in this Department count toward Social Science (Group III).

ARTS AND SCIENCES

MAJOR STUDY

Sociology: 24 hours in Sociology in courses numbered above 50, including 18 numbered above 100.

Social Work: Combined major and minor, see Social Work Curriculum.

MINOR STUDY

12 hours in Sociology in courses numbered above 100.

- *1, 2. INTRODUCTION TO SOCIAL SCIENCE. (3, 3) Yr. (Same as Economics 1, 2 and Government 1, 2). Prerequisite to most advanced courses in Sociology. Credit suspended until both semesters are completed. Staff
- 51. THE FAMILY. (3) Ellis
- 59. GROUP WORK. (2) Theory and practice of supervised programs. Ellis
- 66. CULTURE GROWTH. (3) Origin and diffusion of cultures. Prerequisites 1, 2 or equivalent. Miller
- 71. SOCIAL CONTROL. (3) Agencies and processes by which groups regulate their members: Prerequisites: 1, 2, or equivalent. Miller
- 72. SOCIAL PATHOLOGY. (3) Prerequisites: 1, 2, or equivalent. Miller
- 73. INTRODUCTION TO LATIN AMERICA. (3) (Same as Anthropology 73, Economics 73, and Government 73). For description see p. 92. Does not give credit toward Sociology major or minor. Jorrín
- 81. RURAL SOCIOLOGY. (3) Prerequisites: 1, 2, or equivalent. Saunders
- 82. URBAN SOCIOLOGY. (3) Prerequisites: 1, 2, or equivalent. Saunders
- 101. SOCIAL PSYCHOLOGY. (3) (Same as Psychology 101).
- 102. COLLECTIVE BEHAVIOR. (3) Sociological approach to the analysis of human behavior. Prerequisites: 1, 2, or equivalent, and 101. Walter
- 107, 108. MAN AND SOCIETY IN LATIN AMERICA. (2, 2) Prerequisite: 73 or equivalent. Does not give credit toward Sociology major or minor. (Not offered in 1948-49). Jorrín
- 109. CRIMINOLOGY. (3) Crime as a social phenomenon. Prerequisite: 71 or equivalent. Miller

ARTS AND SCIENCES

110. JUVENILE DELINQUENCY. (2) Prerequisite: 71. Ellis
- 111, 112. SOCIAL PROBLEMS OF LATIN AMERICA. (2, 2) Prerequisite: 73 or equivalent. Does not count toward Sociology major and minor. (Offered in 1948-49 and alternate years). Jorrin
117. SOCIAL PROBLEMS OF NEW MEXICO. (3) Saunders
122. PRINCIPLES OF SOCIOLOGY. (3) Chiefly for students who have not had previous courses in Sociology. Walter
140. ECONOMIC SECURITY. (3) (Same as Economics 140.) Walter
- 151, 152. INTRODUCTION TO SOCIAL WORK. (3, 3) Yr. Prerequisite: 72. Credit suspended until completion of 152. Ellis
154. RACE AND CULTURE RELATIONS. (3) Saunders
163. HISTORY OF SOCIAL THOUGHT. (3) Prerequisites: 1, 2, or equivalent, and 6 additional hours of Sociology. Miller
166. METHODS IN SOCIOLOGY. (3) Prerequisite: 163. Miller
170. ORGANIZATION AND ADMINISTRATION OF SOCIAL WELFARE. (3) (Same as Government 170.) Ellis
195. POPULATION PROBLEMS. (3) Prerequisite: 81 or 82. Walter
197. FIELD OBSERVATION AND PARTICIPATION. (3) Prerequisites: 151 and 152. Ellis
- 251, 252. PROBLEMS. (3, 3) Graduate Staff
300. THESIS. (4-6) Graduate Staff

SPANISH

See Modern Languages.

SPEECH

See English.

**College of
ENGINEERING**

COLLEGE OF ENGINEERING

THE DUTIES of the engineer are so varied and far-reaching that no single definition adequately portrays his services to the human race. He should, however, be able to apply the laws of nature to the benefit of mankind, to manage and to control technical works and industries, and to apply his scientific training and experience to the political and social problems of his day. Such a variety of work requires men of good character who are well grounded in the fundamentals of the profession of engineering.

It is the purpose of the College of Engineering to train the student in the elements of his branch of engineering, and to develop honesty, loyalty, industry, and thoroughness, so that he may enter the profession of his choice with profit to mankind as well as to himself.

ADMISSION

A detailed statement of entrance requirements will be found under "Admission."

SCHOLASTIC REGULATIONS

Students in the College of Engineering will be governed by the scholastic regulations given under "General Academic Regulations."

COURSES OF STUDY

The College of Engineering offers four-year programs of study leading respectively to the degrees of Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Mechanical Engineering-Aeronautical Option, Bachelor of Science in Mechanical Engineering-Petroleum Option, Bachelor of Science in Chemical Engineering, Bachelor of Science in Naval Science-Engineering, and Bachelor of Science in Industrial Arts. It is also possible to arrange a program of study so that the Bachelor of Arts degree can be obtained in one additional year.

GRADUATE STUDY

A program of graduate work is offered in the College of Engineering leading to the Master of Science degree in the department in which the student desires to major. For complete details regarding the requirements for graduate work, consult the Graduate Bulletin.

COLLEGE OF ENGINEERING

AERONAUTICAL ENGINEERING. The work in aeronautical engineering is offered as an option in the Department of Mechanical Engineering; however, a complete four-year program of study is offered in this field.

CHEMICAL ENGINEERING. Chemical Engineering is that branch of engineering concerned with the development and application of manufacturing processes in which chemical or certain physical changes of material are involved.

The course in Chemical Engineering is planned to afford the student broad training in the fundamentals of mathematics, physics, chemistry, and engineering to meet the needs of the chemical or related industries, where men competent to design, develop, and operate new processes and to improve existing ones are required. The chemical-engineer is not specifically trained for only one industry. The distinctly professional courses of unit operations and unit processes enable him to apply his knowledge to any chemical or process industry with relatively little difficulty.

The graduate chemical engineer will find many avenues of opportunities in research and development; production, operation, and maintenance; management and administration; design, construction, and installation; technical service and sales; consulting; teaching, and technical writing, etc.; in such industries as industrial chemicals, petroleum, explosives, plastics, rubber products, paper and allied products, synthetic rubber, food products, drugs, insecticides, glass, cement, clay, iron and steel, paints and varnishes, oils, soaps, rayon and synthetics, etc.

NAVAL SCIENCE. A student enrolled in the Navy R.O.T.C. may earn the Degree of Bachelor of Science in Naval Science-Engineering by completing the curriculum outlined for this degree under curricula offered by the College of Engineering. A student receiving the Naval Science degree can complete the requirements for a Bachelor of Science degree in Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, or Mechanical Engineering-Aeronautical Option in two additional semesters.

LABORATORIES AND EQUIPMENT

DRAWING AND DESIGN LABORATORIES. Three well-equipped rooms in Hadley Hall are provided for all of the drafting room work offered.

CHEMICAL ENGINEERING LABORATORY. The new Chemical Engineering building has a floor space of over 8,000 sq. ft. and contains a laboratory adequately equipped with pilot plant equipment for

COLLEGE OF ENGINEERING

use in the study of unit operations of chemical engineering such as fluid flow, heat flow, evaporation, distillation, air conditioning, absorption, filtration, crystallization, etc., and unit processes such as nitration, sulfonation, hydrogenation, etc.

The process development laboratory is well equipped for the study of small scale manufacture of chemical products. Smaller laboratories are provided for the testing of fuels, gases, water, etc.

Adequate classroom space and a design laboratory are available.

Shop facilities are in conjunction with the well equipped University shop.

CIVIL ENGINEERING LABORATORIES. The department provides laboratories for road material, building material, and hydraulics, and surveying equipment to be used in all types of elementary and advanced field courses.

The materials testing laboratory is equipped for making tests of cement, concrete, stone, brick, tile, timber, steel, soils, and other material used in engineering practice. Tests are conducted by students to illustrate the properties of these materials. The laboratory is also used for research problems and, to a limited extent, for commercial testing. All equipment and all tests conform to accepted standards of engineering practice.

The hydraulics laboratory is equipped to study the flow of water in open channels, through pipes and orifices, and over weirs, illustrating the principles of hydraulics as used in the theoretical courses and in courses in water supply, sewerage, and drainage.

The highway testing laboratory contains a complete set of equipment for making standard tests on road oils and asphalts, and also machines for testing of gravels used in highway construction.

Field work and office computation in surveying are conducted with modern equipment of the highest grade.

The materials laboratories of the New Mexico State Highway Department have been built in space adjoining the Civil Engineering laboratories and contain modern equipment adequate for making all types of tests of road building materials. These laboratories are open for inspection by engineering students and for research work by members of the faculty.

ELECTRICAL ENGINEERING LABORATORIES. The Electrical Engineering department has four laboratories and a design room, all of which are well equipped to illustrate the practical applications of the theory studied in the classroom.

POWER LABORATORY. The power laboratory is equipped with all the common types of both D.C. and A.C. motors and generators

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and the necessary manual and automatic starters and controllers for their operation, and special machines such as a rotary converter, adjustable speed A.C. motor, sine-wave and harmonic generators, a Ward-Leonard M-G set, a variable phase, variable frequency alternator, and a mercury arc rectifier. Operating and loading devices are available so that all the standard and some special tests on both A.C. and D.C. motors and generators can be made.

The transformer section includes a number of standard transformers of various capacities and voltage ratings, and a special testing transformer, autotransformers, voltage regulators, etc.

The power for all laboratories is supplied at 2300 volts and then stepped down to 115 and 230 volts. Special transformers supply 440 volt service to the distribution panel. Direct current is supplied by two motor generator sets.

MEASUREMENTS LABORATORY. The measurements laboratory is equipped to make accurate measurements in D.C. and A.C. power, and radio frequencies up to 5000 megacycles. Equipment includes galvanometers, all types of indicating instruments, Wheatstone bridge, radio frequency bridge, standard signal generators, wave-meters, square wave generator, oscilloscopes, string oscillographs, insulation tester, rotating standard, watt-hour meters, instrument transformers, relays, graphic recording wattmeter, frequency indicators, power-factor indicator, and many other measuring devices.

COMMUNICATIONS LABORATORY. The radio-communications laboratory is particularly well equipped to study the complex problems presented by modern communications circuits. The pre-radar and ultra-high frequency section of the laboratory consists of standing wave ratio measuring section, wave guides, ultra-high frequency wave meter, tubes, klystron, megatrons (lighthouse tubes), parabolic, horn type radiators, and measuring accessories.

The department has a high frequency transmitter and R.C.A. dynamic demonstrator, radio frequency oscillators, bridges, meters and other accessories. Two 150 foot steel towers provide excellent facilities for the study of antennae and radiating problems.

INDUSTRIAL ELECTRONICS LABORATORY. The new Industrial Electronics Laboratory is complete with a 25 Kw. Ignitron Converter, Thyatron motor control, motor speed regulator, A.C. and D.C. voltage regulators, electronic air cleaner, automatic synchronizer, electronic timers of various types, photoelectric controllers, 150 Kv. industrial X-ray, induction heating and dielectric heating furnace, welders and electronic welding controls, supplemented by a miscellany of high vacuum and gas tubes and testing equipment.

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MECHANICAL ENGINEERING LABORATORY. This laboratory is maintained in connection with the University heating plant. The students study and observe a modern boiler plant in actual operation. Equipment is provided for experimental work in the fields of heat power, of air and gas flow, and of refrigeration.

In the field of heat power, the laboratory has the following major equipment in addition to auxiliary equipment and necessary instruments:

A steam engine equipped with a Prony brake, two types of valves, two types of governors, and steam engine indicator.

A steam turbine equipped with an oil relay governor and a water brake. This unit is also connected to a direct current generator for loading.

A surface condenser with a steam-air injector.

A small vertical fire-tube boiler equipped for gas firing.

Two 300-h.p. water-tube boilers fired with gas and equipped with forced-draft fan, induced-draft fan, and automatic combustion control.

An electric dynamometer with a Ford V-8 engine, a Dodge engine, and Waukesha Multifuel engine.

A gasoline engine with a variable compression ratio for fuel research. A small stationary gasoline engine equipped with electric dynamometer.

Calorimeters for determining the heat value of solid, liquid, and gas fuels.

In the field of air and gas flow, the laboratory is equipped with a steam-driven, two-stage, air compressor, an air-flow test set, and recording and indicating meters for measuring the flow of air, steam, and natural gas.

In the field of refrigeration, the laboratory is equipped with a complete test plant including an ammonia compressor, receivers, coolers, heat exchangers, etc.

SHOP. The machine shop is equipped with lathes, shapers, drill presses, vertical and horizontal milling machines, surface and universal grinders for working metal. The sheet metal shop has a very good assortment of tools and equipment. The wood-working equipment includes band, circular, and jig saws, joiner, lathe, hand tools and benches for pattern making and cabinet work.

The welding shop contains A.C. and D.C. arc welding, gas welding and cutting equipment.

AERONAUTICAL ENGINEERING LABORATORY. This laboratory is equipped to provide for experimental work in aerodynamics, airplane structures and aircraft engines. The equipment approved for

COLLEGE OF ENGINEERING

this laboratory includes aircraft engines, both air cooled and water cooled, wing sections, fuselage sections, air navigation instruments, radio communication equipment, and a wind tunnel to study fluid phenomena.

PETROLEUM ENGINEERING LABORATORY: The laboratory for this department is housed in the heating plant with the mechanical engineering laboratory. Equipment is available for the study of oil and gas flow, fuel analysis and lubrication as well as tests on the various types of heat engines and pumps.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Science in any of the departments must complete all of the work outlined in their respective curricula. Electives, where permitted, are to be chosen with the advice and consent of the head of the major department. The course of study for the first year is uniform for all departments. At the end of the freshman year, the student should elect the course which he intends to follow and report his choice to the Dean's office.

Students who are required to take English A must do so in addition to the regular courses in English. Two thirds of the semester hours in the required work must be of C grade or better, and the total number of grade points in the hours offered for graduation must equal the total number of hours.

CURRICULA OFFERED BY THE COLLEGE OF ENGINEERING

*COURSES OF STUDY FOR ALL ENGINEERING STUDENTS.

FRESHMAN YEAR

First Semester		Second Semester	
Math. 15 College Algebra	3	Math. 22 Analytic Geometry	3
Math. 16 Plane Trigonometry	3	Engl. 2 Intro. to Lit.	3
Engl. 1 Intro. to Rhetoric	3	Chem. 2L General	4
Chem. 1L General	4	A. E. 2L Desc. Geom.	3
A. E. 1L Engr. Draw.	3	A. E. 4L Engineering Problems	3
A. E. 3 Orientation	1	Physical Educ.	1
Physical Educ.	1		
	18		17

NOTE: Students deficient in English will be required to take English A in addition to English 1. Students deficient in mathematics will take A. E. 10X in addition to Math. 15, 16, and 22.

* See Architectural Engineering for exception in that curriculum.

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CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

FRESHMAN YEAR

First Semester		Second Semester	
Math. 15 Collège Algebra	3	Math. 22 Analytic Geometry	3
Math. 16 Plane Trigonometry	3	Engl. 2 Intro. to Literature	3
Engl. 1 Intro. to Rhetoric	3	Chem. 2L General	4
Chem. 1L General	4	A. E. 2L Descriptive Geometry	3
A. E. 1L Engineering Drawing	3	A. E. 4L Engineering Problems	3
A. E. 3 Orientation	1	Art 42 Hist. of Architecture	2
Physical Education	1	Physical Education	1
	<hr/> 18		<hr/> 19

SOPHOMORE YEAR

Math. 53 Intro. to Calculus	4	Math. 54 Intro. to Calculus	4
Physics 51L General	4	Physics 52L General	4
C. E. 53L Elem. Surveying	3	C. E. 60 Applied Mechanics	3
A. E. 51L Shades, Shadows & Perspective	3	Art 62 History of Arch.	2
Art 61 History of Arch.	2	Art 6 Beginning Drawing	2
Art 5 Beginning Drawing	2	Physical Education	1
Physical Education	1	A. E. 52L Architectural Drafting	3
	<hr/> 19		<hr/> 19

JUNIOR YEAR

A. E. 101L Elements of Arch. I	3	A. E. 102L Elements of Arch. II	3
C. E. 102 Strength of Materials	3	C. E. 152 Structural Analysis	2
C. E. 103L Strength of Mat. Lab.	1	C. E. 124L Structural Design I	2
M. E. 105 Mechanics (Dynamics)	2	M. E. 165 Air Conditioning	3
M. E. 104L Elem. of Thermodyn.	4	C. E. 115L Plain Concrete I	3
E. E. 108L Applied Circuits	4	Engl. 64 Informative Writing	3
	<hr/> 17		<hr/> 16

SENIOR YEAR

A. E. 151L Working Drawings I	5	A. E. 152L Working Drawings II	5
A. E. 161 Building Materials & Construction I	3	A. E. 162 Building Materials & Construction II	3
Econ. 105 Prin. of Economics	3	A. E. 168 Specification Writing	2
C. E. 155L Structural Design II	3	C. E. 159L Rein. Conc. Design II	3
C. E. 158 Rein. Conc. Design I	2	Elective (non-technical)	3
Elective (non-technical)	3		
	<hr/> 19		<hr/> 16

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

SOPHOMORE YEAR

Math. 53 Intro. to Calc.	4	Math. 54 Intro. to Calc.	4
Physics 51L General	4	Physics 52L General	4
Chem. 53L Quant. Anal.	5	Ch. E. 52 Ind. Stoichiometry	3
Ch. E. 51 Chem. Calculations	2	Chem. 103L Organic	5
Econ. 105 Prin. of Economics	3	C. E. 60 Applied Mechanics	3
Physical Education	1	Physical Education	1
	<hr/> 19		<hr/> 20

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JUNIOR YEAR

First Semester		Second Semester	
Ch. E. 111 Prin. Ch. Engr.	4	Ch. E. 112 Prin. Chem. Engr.	4
Ch. E. 113L Unit Operations Lab. I	2	Ch. E. 114L Unit Operations Lab. II	2
Chem. 111L Physical Chemistry	4	Chem. 112L Physical Chem.	4
Chem. 104L Organic	5	M. E. 104L Thermodynamics	3
M. E. 105 Mechanics	2	C. E. 102L Str. of Materials	4
	<hr/> 17		<hr/> 17

SENIOR YEAR

Ch. E. 191 Prin. Ch. Processes & Thermo. I	3	Ch. E. 192 Prin. Ch. Processes & Thermo. II	3
Ch. E. 181L Chem. Process Lab. I	2	Ch. E. 182L Chem. Proc. Lab. II	2
E. E. 105L Elec. Applications	3	Ch. E. 194L Chem. Engr. Design	2
Ch. E. 171 Chem. Engr. Econ.	2	E. E. 106L Elec. Applications	3
Ch. E. 161 Organic Unit Process	3	Ch. E. 196L Lubs., Fuels & Comb.	3
Elective (Non-technical)	3	Ch. E. 162 Inorganic Unit Proc.	2
Ch. E. 151 Seminar	1/2	Engineering Law	3
Electives (tech.)	2	Ch. E. 152 Seminar	1/2
	<hr/> 18 1/2	Ch. E. 198 Field Trip	0
			<hr/> 18 1/2

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

SOPHOMORE YEAR

Math. 53 Intro. to Calc.	4	Math. 54 Intro. to Calc.	4
Physics 51L General	4	Physics 52L General	4
C. E. 53L Elem. Survey.	3	C. E. 54L Adv. Survey.	4
Econ. 105 Prin. of Econ.	3	C. E. 60 Applied Mech. (Statics)	3
English 64 Inf. Writing	3	Elective	3
Physical Education	1	Physical Education	1
	<hr/> 18		<hr/> 19

JUNIOR YEAR

C. E. 102 Str. of Materials	3	C. E. 115L Plain Concrete I	3
C. E. 110L Hydraulics	4	C. E. 119 Highway Engr.	2
C. E. 118L Highway Matr. Lab.	2	C. E. 122L Structural Analysis	2
C. E. 104L Curves & Earthwork	3	C. E. 124 Structural Design I	2
M. E. 105 Mechanics (Dynamics)	2	C. E. 103L Str. of Matr. Lab. I	1
Geol. 4 Engr. Geology	3	E. E. 105L Elec. Applications	3
	<hr/> 17	M. E. 104L Elements of Thermodynamics	4
			<hr/> 17
		C. E. 157F Field Surveying	2

SENIOR YEAR

C. E. 155L Structural Des. II	3	C. E. 159L Reinf. Conc. Des. II	3
C. E. 158 Reinf. Conc. Des. I	2	C. E. 152 Constr. Spec. & Costs	2
C. E. 167L Soils	3	C. E. 162L Sewerage	3
C. E. 161L Water Supply	3	C. E. 160L Indeterminate Struc.	3
E. E. 106L Elec. Applications	3	Technical Elective	3
Elective	3	Engineering Law	3
	<hr/> 17		<hr/> 17

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CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

SOPHOMORE YEAR

First Semester		Second Semester	
Math. 53 Calculus	4	Math. 54 Calculus	4
Physics 51L General	4	Physics 52L General	4
E. E. 51L Computations	3	E. E. 54L Elec. & Mag. Cir.	5
Engl. 64 Inf. Writing	3	C. E. 60 Applied Mechanics	3
Econ. 105 Prin. of Econ.	3	Shop 12L General	1
Physical Education	1	Physical Education	1
	18		18

JUNIOR YEAR

E. E. 113L Elec. & Mag. Cir.	4	E. E. 132L Electronics	4
E. E. 101L Dir. Current Mach.	4	C. E. 112L Fluid Mechanics	4
M. E. 105 Mechanics (Dynamics)	2	M. E. 104L Elem. of Thermo.	4
C. E. 102L Str. of Materials	4	E. E. 146 E. E. Analysis	3
E. E. 115L Elec. & Mag. Fields	4	Econ. 141 Labor Problems	3
	18		18

SENIOR YEAR

E. E. 151L A.C. Mach.	4	E. E. 152L A.C. Mach.	4
E. E. 111 Engr. Econ.	3	E. E. 162L Elec. Engr. Des. Lab.	3
Govt. 103 Prob. of Democracy	3	E. E. 172L Ind. Appl.	3
A. E. 171 Seminar	1	A. E. 172 Seminar	1
M. E. 55L Mechanisms	3	Engineering Law	3

Power Option

E. E. 195L Ind. Electronics	4	E. E. 196L Power Trans. & Dist.	4
	18		18

Communication Option

E. E. 193L Comm. Engr.	4	E. E. 194L Comm. Engr.	4
	18		18

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

SOPHOMORE YEAR

Math. 53 Intro. to Calc.	4	Math. 54 Intro. to Calc.	4
Physics 51L General	4	Physics 52L General	4
Shop 64L Pattern Making	3	M. E. 56L Machine Drawing	3
Econ. 105 Prin. of Economics	3	C. E. 60 Applied Mechanics	3
M. E. 53 Engr. Materials	3	Shop 70L Machine Shop	3
Physical Education	1	Physical Education	1
	18		18

JUNIOR YEAR

M. E. 101 Heat Power Engr.	3	M. E. 102 Thermo	3
M. E. 103L Heat Power Lab.	2	E. E. 106L Elec. Applications	3
M. E. 105 Mechanics (Dyn.)	2	C. E. 112L Fluid Mechanics	4
C. E. 102 Str. of Materials	3	M. E. 115L Elem. Machine Design	4
C. E. 103L Str. of Matl. Lab.	1	Elective	3
E. E. 105L Elec. Applications	3		17
M. E. 114L Mechanisms	4		
	18		

COLLEGE OF ENGINEERING

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (continued)

SENIOR YEAR

First Semester		Second Semester	
M. E. 151L M. E. Lab.	2	M. E. 152L M. E. Lab.	2
M. E. 153L M. E. Design	3	M. E. 154L M. E. Design	3
M. E. 155 Power Plants	3	M. E. 160 Int. Comb. Engines	3
M. E. 162 Refrigeration	3	Engl. 64 Inf. Writing	3
E. E. 153L Electron & Controls	3	*Technical Elective	3
Elective	3	Engineering Law	3
Shop.	1	Shop	1
	<u>18</u>		<u>18</u>

AERONAUTICAL OPTION

(Senior Year)

M. E. 153L M. E. Design	3	M. E. 152L M. E. Lab.	2
M. E. 167 Aerodynamics	3	M. E. 154L M. E. Design	3
E. E. 153L Electron & Control	3	M. E. 168 Aerodynamics	3
Engl. 64 Inf. Writing	3	M. E. 156 Ind. Engr.	3
Shop	1	C. E. 122L Structure Analysis	2
Electives	6	M. E. 160 Int. Comb. Engines	3
	<u>19</u>	Engineering Law	3
			<u>19</u>

PETROLEUM PRODUCTION OPTION

(Senior Year)

Substitute Geology 1, 5L and 2, 6L for M. E. 53 and one shop course and one other Chemistry and one other Geology course as electives before graduation.

M. E. 155 Power Plants	3	M. E. 160 Int. Comb. Engines	3
M. E. 151L Mech. Engr. Lab.	2	M. E. 152L Mech. Engr. Lab.	2
M. E. 153L Mech. Engr. Des.	3	M. E. 154L Mech. Engr. Design	3
M. E. 181 Petroleum Production	3	M. E. 182 Petroleum Production	3
Engl. 64 Inf. Writing	3	Engineering Law	3
Electives	4	Electives	4
	<u>18</u>		<u>18</u>

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN NAVAL SCIENCE-ENGINEERING

FRESHMAN YEAR

Math. 15 College Algebra	3	Math. 22 Analytic Geometry	3
Math. 16 Trigonometry	3	Engl. 1 Intro. to Rhetoric	3
Chem. 1L General	4	Chem. 2L General	4
A. E. 1L Engr. Drawing	3	A. E. 2L Desc. Geom.	3
N. S. 11	3	N. S. 12	3
Physical Education	1	Physical Education	1
	<u>17</u>		<u>17</u>

SOPHOMORE YEAR

Math. 53 Intro. to Calc.	4	Math. 54 Intro. to Calc.	4
Physics 51L General	4	Physics 52L General	4
N. S. 51	3	N. S. 52	3
Engl. 2 Intro. to Lit.	3	Engl. 64 Inf. Writing	3
Shop 64L Pattern Making	3	Shop 70L Machine Shop	3
Physical Education	1	Physical Education	1
	<u>18</u>		<u>18</u>

* M. E. 156 Ind. Engineering
M. E. 165 Air-Conditioning

COLLEGE OF ENGINEERING

For the Junior and Senior years the student will elect one of the following groups.

A student receiving the Naval Science Degree can complete the requirements for a Bachelor of Science Degree in Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, or Mechanical Engineering Aeronautical Option in two additional semesters.

CHEMICAL ENGINEERING

JUNIOR YEAR

First Semester		Second Semester	
Chem. 103L Organic	5	Chem. 104L Organic	5
N. S. 101	3	N. S. 102	3
Ch. E. 51 Chem. Calculation	2	Ch. E. 52 Ind. Stoichiometry	3
Econ. 105 Prin. of Econ.	3	C. E. 60 Applied Mechanics	3
Chem. 53L Quan. Anal.	5	M. E. 104L Thermodynamics	3
	<u>18</u>		<u>17</u>

SENIOR YEAR

Ch. E. 111 Prin. Chem. Engr.	4	Ch. E. 112 Prin. Chem. Engr.	4
C. E. 113L Unit Oper. Lab. I	2	Ch. E. 114L Unit Oper. Lab. II	2
Chem. 111L Phys. Chem.	4	Chem. 112L Phys. Chem.	4
N. S. 151	3	N. S. 152	3
M. E. 105 Mechanics	2	C. E. 102 Str. of Materials	3
Electives	2	C. E. 103L Str. of Mat. Lab.	1
	<u>17</u>		<u>17</u>

CIVIL ENGINEERING

JUNIOR YEAR

N. S. 101	3	N. S. 102	3
C. E. 53L Elem. Surveying	3	C. E. 54L Adv. Surveying	4
E. E. 105 Elec. Applications	3	C. E. 60 Appl. Mech.	3
Econ. 105 Prin. of Econ.	3	E. E. 106 Elec. Appl.	3
Geol. 4 Engr. Geol.	3	M. E. 104L Elem. of Therino.	4
Elective	3		17
	<u>18</u>		

SENIOR YEAR

N. S. 151	3	N. S. 152	3
C. E. 102 Str. of Matr.	3	C. E. 115L Plain Conc. I	3
C. E. 110L Hydraulics	4	C. E. 119 Highway Engr.	2
M. E. 105 Mech. (Dynamics)	2	C. E. 122L Struc. Anal.	2
C. E. 104 Curves & Earthwork	3	C. E. 124 Struc. Des. I	2
C. E. 118L Highway Mat. Lab.	2	C. E. 103L Str. of Mat. Lab.	1
	<u>17</u>	Elective	3
			<u>16</u>

ELECTRICAL ENGINEERING

JUNIOR YEAR

E. E. 51L Computations	3	E. E. 54L Elec. & Mag. Cir.	5
N. S. 101	3	N. S. 102	3
C. E. 60 Applied Mechanics	3	Econ. 141 Labor Problems	3
Econ. 105 Prin. of Econ.	3	M. E. 104L Thermodynamics	4
Elective	2	Elective	3
M. E. 55L Mechanisms	3		18
	<u>17</u>		

COLLEGE OF ENGINEERING

SENIOR YEAR

First Semester		Second Semester	
E. E. 113L Elec. & Mag. Cir.	4	E. E. 132L Electronics	4
E. E. 101L D.C. Machines	4	E. E. 146 E. E. Analysis	3
E. E. 115L Elec. & Mag. Fields	4	C. E. 112L Fluid Mech.	4
N. S. 151	3	N. S. 152	3
M. E. 105 Mechanics	2	C. E. 102 Str. of Materials	3
	17	C. E. 103L Str. of Materials Lab.	1
			18

MECHANICAL ENGINEERING

JUNIOR YEAR

M. E. 53 Engr. Materials	3	M. E. 56L Machine Drawing	3
N. S. 101	3	N. S. 102	3
M. E. 114L Mechanisms	4	C. E. 60 Applied Mechanics	3
Econ. 105 Prin. of Econ.	3	E. E. 106L Elec. Applications	3
E. E. 105L Elec. Applications	3	Electives	6
	16		18

SENIOR YEAR

M. E. 101 Heat Power Engr.	3	M. E. 102 Thermodynamics	3
M. E. 103L Heat Power Lab.	2	M. E. 115L Elem. Machine Design	4
N. S. 151	3	N. S. 152	3
M. E. 105 Mechanics	2	C. E. 112L Fluid Mechanics	4
C. E. 102 Str. of Materials	3	Electives	3
C. E. 103L Str. of Materials Lab.	1		17
Electives	3		
	17		

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

FRESHMAN YEAR

Engl. 1 Intro. to Rhet.	3	Engl. 2 Intro. to Literature	3
A. E. 1 Engr. Drawing	3	A. E. 2L Desc. Geom.	3
Shop 1 Shop Computations	3	Shop 2 Shop Computations	3
Shop 10L Woodwork	3	Shop 20L Machine Shop	3
Elective	3	Elective	3
Physical Education	1	Physical Education	1
	16		16

SOPHOMORE YEAR

Physics 11L	4	Physics 12L	4
M. E. 53 Engr. Materials	3	M. E. 56L Machine Drawing	3
Speech 55	3	Shop 70L Machine Shop	3
Shop 62L Carpentry	3	Elective	6
Elective	3	Physical Education	1
Physical Education	1		17
	17		

JUNIOR YEAR

M. E. 60 Applied Mech.	3	M. E. 107L Str. of Materials	3
M. E. 55L Mechanisms	3	Shop 105L Sheet Metal Work	3
Shop 60L Cabinet Work	3	Shop 104L Adv. Patt. Making	3
Shop 64L Pattern Making	3	A. E. 55L Arch. Drafting	3
Elective	5	Econ 105 Prin. of Econ.	3
	17	Elective	2
			17

COLLEGE OF ENGINEERING

SENIOR YEAR

E. E. 109L Appl. Elect.	3	E. E. 110 Appl. Elec.	3
M. E. 104L Elem. of Thermo.	4	Shop 109L Arc & Acet. Welding	3
Shop 107L Foundry Practice	3	M. E. 156 Ind. Engr.	3
Econ. 141 Labor Problems	3	Electives	8
Electives	5		
	<hr/> 18		<hr/> 17

NOTE: Twelve (12) hours of above electives must be technical electives.

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DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, lower division, normally open to freshmen; from 50-99 lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors and graduates; 200-400 open to graduates only. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee.

Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr.—course offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; ()—semester hours credit; credit hours separated by a dash (1-3) indicate variable credit in the course; []—former course number or title.

A schedule of course offerings, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

ENGINEERING

Professors Farris (Dean), Castonguay, Ellis, Ford, Tapy, Wagner; Associate Professors Foss, Grace, Heimerich, Steen; Assistant Professors Bailey, Huzarski, Jacobson, Keely, May, Thompson, Wager-Smith; Instructors Adams, Bickley, Blankley, Clough, Dove, Gafford, Hoover, Johnston, Martinez, Mead, Mullins, Ralls, Reiff, Rightley, Starr, Thomas, Trujillo; Graduate Assistants Burris, Koulas.

ARCHITECTURAL ENGINEERING

10X. INTERMEDIATE ALGEBRA. (0) Prerequisite: 1 unit of high school algebra.

11L. ENGINEERING DRAWING. (3) The essentials of drafting, including the use of instruments, lettering, projection, dimension-

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ing; auxiliary views, sections, pictorial views, and theory and science of engineering drawing. Approved drawing equipment required.

2L. DESCRIPTIVE GEOMETRY. (3) Problems involving the point, line and plane, and practical problems involving the above principles with emphasis on developing the student's ability to visualize objects in space. Approved drawing equipment required. Prerequisite: A. E. 1L.

3. ORIENTATION. (1) Orienting beginning engineering students in the various phases of engineering.

4L. ENGINEERING PROBLEMS. (3) Use of the slide rule and presentation of various engineering problems.

51L. SHADES, SHADOWS AND PERSPECTIVE. (3) A fundamental course involving the principles of shades, shadows and perspective. Prerequisite A.E. 2L.

52L. ARCHITECTURAL DRAFTING. (3) Preparation of complete small-scale working drawings for small buildings. Prerequisite: A.E. 2L.

101L. ELEMENTS OF ARCHITECTURE I. (3) A beginning study of architectural planning and designing: including plans, elevations and sections of small buildings, proceeding to more difficult problems in architectural compositions. Prerequisites: A.E. 51L, 52L, Art 5, 6, 42, 61, 62.

102L. ELEMENTS OF ARCHITECTURE II. (3) A continuation of A.E. 101L. Prerequisite A.E. 101L.

151L. WORKING DRAWINGS I. (5) A continuation of A.E. 102L, and the working drawings of buildings, including structural and mechanical details. Prerequisite: A.E. 102L.

152L. WORKING DRAWINGS II. (5) A continuation of A.E. 151L. Prerequisite: A.E. 151L.

161. BUILDING MATERIALS AND CONSTRUCTION I. (3) A study of the properties, uses, and costs of building materials, methods of construction and frequent visits to buildings under construction. Prerequisite: A.E. 102L.

162. BUILDING MATERIALS AND CONSTRUCTION II. (3) A continuation of A.E. 161. Prerequisite: A.E. 161.

168. SPECIFICATION WRITING. (2) Writing specifications for various types of building construction. Prerequisites: A.E. 151L, 161.

171, 172. SEMINAR. (1, 1) Prerequisite: senior standing.

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CHEMICAL ENGINEERING

51. **CHEMICAL CALCULATIONS.** (2) More extensive problem work in the stoichiometric principles of chemistry, including composition changes; the material balance; units and dimensions. Prerequisite: Chemistry 2L or 4L or the equivalent.
52. **INDUSTRIAL STOICHIOMETRY.** (3) The application of the fundamental laws of chemistry, physics, and mathematics to industrial chemical calculations. Prerequisites: Ch. E. 51, Physics 51L and Math. 53.
111. **PRINCIPLES OF CHEMICAL ENGINEERING.** (4) A study of the unit operations and their application to the chemical industry. Problems in the flow of fluids, heat transfer, evaporation, filtration, crushing and grinding, mechanical separation, and related topics. Prerequisite: Ch. E. 52.
112. **PRINCIPLES OF CHEMICAL ENGINEERING.** (4) A continued lecture and recitation study of the unit operations and their applications to the chemical industries. Problems in air conditioning, drying, distillation, gas absorption, extraction, crystallization, and similar topics. Prerequisite: Ch. E. 113L.
- 113L. **UNIT OPERATIONS, LABORATORY I.** (2) Laboratory practice and experimental study of unit operations covered in Ch. E. 111. Prerequisite: must accompany course Ch. E. 111. 6 hrs. lab.
- 114L. **UNIT OPERATIONS, LABORATORY II.** (2) Experimental laboratory study of the unit operations covered by course Ch. E. 112. Prerequisite: Ch. E. 113. Must accompany Ch. E. 112. 6 hrs lab.
- 151, 152. **SEMINAR.** ($\frac{1}{2}$, $\frac{1}{2}$) Senior year. Reports on selected topics and surveys. Presentation and discussion of papers from current technical journals, and topics of interest to the chemical engineer.
161. **ORGANIC UNIT PROCESSES.** (3) A study of the theoretical basis and application of unit processes to the organic chemical industry. Studies involving nitration, halogenation, sulfonation, oxidation, alkylation, hydrolysis, polymerization, and similar topics. Prerequisites: Chemistry 103L, 104L, and Ch. E. 112.
162. **INORGANIC UNIT PROCESSES.** (2) A study of the processes and manufacturing methods used in the more important industries based on inorganic chemistry. Prerequisites: Chemistry 111L, and Ch. E. 112.
171. **CHEMICAL ENGINEERING ECONOMICS.** (2) Discussion of factors other than engineering and chemical which determine the feasi-

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bility of putting a chemical on the market. Particular reference to control of raw materials, markets, competition, patent, situation, and related topics. Prerequisite: Economics 105.

- 181L. CHEMICAL ENGINEERING PROCESS LABORATORY I. (2) Experimental laboratory studies employing a series of unit operations and unit process to produce small quantities of chemicals by pilot plant methods. Emphasis on literature review, laboratory notebook, and reports. Prerequisites: Chemistry 111L, and Ch. E. 161 or Ch. E. 162. 6 hr. lab.
- 182L. CHEMICAL ENGINEERING PROCESS LABORATORY II. (2) Continuation of Ch. E. 181L; but may be taken as an independent unit. Prerequisites: Chemistry 111 and Ch. E. 161 or Ch. E. 162. 6 hrs. lab.
191. PRINCIPLES OF CHEMICAL PROCESSES AND THERMODYNAMICS I. (3) A study of the energy relations in chemical processes. Application of thermodynamics, chemical kinetics to operations involved in the chemical industry. Prerequisites: M. E. 104L, Chemistry 111L and Ch. E. 112.
192. PRINCIPLES OF CHEMICAL PROCESSES AND THERMODYNAMICS II. (3) Continuation of Ch. E. 191. Prerequisite: Ch. E. 191.
- 194L. CHEMICAL ENGINEERING DESIGN. (2) Selection and design of process equipment, layout of building and cost estimates. Prerequisites: Ch. E. 112, 191. 1 hr. lecture, 3 hrs. lab.
- 196L. LUBRICANTS, FUELS, AND COMBUSTIONS. (3) Laboratory examinations, analysis and testing of water, fuels, and lubricants, and the evaluation of their properties as applied in the chemical industry. Prerequisites: Chemistry 53L and Ch. E. 51. 2 lectures, 3 hrs. lab.
198. FIELD TRIP. (0) Required for graduation. Annual inspection tour to leading chemical plants in different sections of the country. Approximately one week is spent on these visits. Prerequisite: senior standing.

CIVIL ENGINEERING

- 4L. SURVEYING. (2) Lectures and field practice in plane surveying with emphasis on the use of the plane table for topographic mapping. For non-engineering students only. 1 lecture, 3 hrs. lab.
- 53L. ELEMENTARY SURVEYING. (3) Lectures and field practice in leveling, traversing, determination of areas, stadia measurements,

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and care and adjustment of instruments. Prerequisite: Math. 16. 1 lecture, 6 hrs. lab.

- 54L. ADVANCED SURVEYING. (4) Lectures and field practice in precise leveling, base line measurements, triangulation, rural and urban land surveying, construction layout, probable errors, solar observations, elementary photogrammetry, and office computations. Prerequisite: C.E. 53L or C.E. 4L. 2 lectures, 6 hrs. lab.
60. APPLIED MECHANICS. (Statics) (3) Principles of statics, friction, centroids and moment of inertia of areas. Co-requisite: Math. 54; prerequisite: Physics 51L.
102. [102L] STRENGTH OF MATERIALS. (3) Stresses and strains in elastic materials. Topics considered include axial stress, riveted joints, thin cylinders, torsion of circular bars, beams, columns, and simple combined stresses. Prerequisite: C.E. 60.
- 103L. [102L] STRENGTH OF MATERIALS LABORATORY. (1). A series of laboratory experiments in which the student examines and verifies the fundamental principles of the theories as taught in C.E. 102. Co-requisite: C.E. 102. 3 hrs lab.
- 104L. CURVES AND EARTHWORK. (3) Lectures and field practice in computing and laying out highway and railroad curves, determination of earthwork quantities and preparation of mass diagrams, right-of-way computations. Prerequisite: C.E. 53L or C.E. 4L. 2 lectures, 3 hrs. lab.
- 110L. HYDRAULICS. (4) The study of the laws which govern the flow of fluids and their behavior at rest. Hydrostatics, application of fluid pressures and buoyancy. Hydrokinetics, applications to pipes, canals, and conduits. Co-requisite: M.E. 105. 3 lectures, 3 hrs. lab.
- 112L. FLUID MECHANICS. (4) Flow net, hydrostatics and fundamental properties affecting fluid motion. Prerequisite: M.E. 105. 3 lectures, 3 hrs. lab.
- 115L. PLAIN CONCRETE I. [Masonry Materials] (3) The manufacture and properties of lime, clay products, and cement; occurrence and properties of stone, sand and gravel; design and tests of concrete and mortars. Prerequisite: junior standing. 2 lectures, 3 hrs. lab.
- 118L. HIGHWAY MATERIAL LABORATORY. (2). Properties of materials used in highway construction with particular attention to the bituminous materials. 6 hrs. lab.
119. [118L] HIGHWAY ENGINEERING. (2) Theory and practice in design, construction and maintenance of low cost, intermediate

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and high type road surfaces. Financing, operation, and comparative study of road types. Prerequisite: C.E. 118L.

122L. [111L] STRUCTURAL ANALYSIS. [Stresses] (2) Analytical and graphical methods of stress analysis in framed buildings, roof trusses, girders and bridges. A study of moving loads and influence lines. Prerequisite: C.E. 102. 1 lecture, 3 hrs. lab.

124. [114L] STRUCTURAL DESIGN I. [Theory of Simple Structures] (2) The study of the methods of design of tension, compression and flexure members, riveted and welded connections, including the study of current design specifications. Prerequisite: C.E. 102.

152. CONSTRUCTION SPECIFICATIONS AND COSTS. (2) Preparation of contract documents, quantity survey, cost estimates, and cost reports. Prerequisite: senior standing.

155L. [158L] STRUCTURAL DESIGN II. [Steel and Wood Structures] A continuation of C.E. 124. The design of complete structures. The laboratory work consists of drafting room practice in actual design problems of framed structures consistent with the lecture work and current modern practice. Prerequisites: C.E. 122L and 124. 1 lecture, 6 hrs. lab.

157F. FIELD SURVEYING. (2) Summer camp, two weeks. Practice in topographic surveying. Complete surveys of projects are made and the notes used for mapping. Prerequisites: C.E. 54L, 104L.

158. [117L] REINFORCED CONCRETE DESIGN I. [Reinforced Concrete] (2) The theory of reinforced concrete, the design of elementary members, including the study of current design specifications. Prerequisite: C.E. 122L.

159L. REINFORCED CONCRETE DESIGN II. [Masonry Structures] (3) The analysis and design of complete reinforced concrete structures and masonry structures consistent with the current modern practice. Prerequisite: C.E. 158. 1 lecture, 6 hrs. lab.

160L. INDETERMINATE STRUCTURES. [Rigid Frames] (3) An introduction to statically indeterminate structures; a thorough training of slope and deflection and moment distribution in continuous beams and rigid frames. A study of the deformation of trussed structures by angle changes and virtual work. Prerequisite: C.E. 122L. 2 lectures, 3 hrs. lab.

161L. WATER SUPPLY. (3) A study of works for collection, storage, purification and distribution of municipal water supplies; sources of supply—streams, lakes, impounding reservoirs, wells. Prerequisite: C.E. 110L. 2 lectures, 3 hrs. lab.

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162L. SEWERAGE. [Sanitary Engineering] (3) A study of the principles of sewage—both storm and sanitary; design and construction of sewerage systems and disposal plants. Prerequisite: C.E. 110L. 2 lectures, 3 hrs. lab.

167L. SOILS. (3) Origin, characteristics, and classification of soils for engineering purposes; sampling; compaction of embankments; frost action; and laboratory practice in testing of soils. Prerequisite: Geol. 4. 2 lectures, 3 hrs. lab.

170. ADVANCED STRENGTH OF MATERIALS. [Advanced Mechanics of Materials] (3) Continuation of C.E. 102. A study of thick-walled cylinders, unsymmetrical bending, curved flexural members, flat plates, bars, and shafts. Also localized stress, stress concentrations, and elastic strain energy. Prerequisite: C.E. 102.

171. BUILDING CONSTRUCTION. (3) A resumé of various types of buildings and appurtenances; construction methods and details. Preparation of quantity surveys and estimates of cost. Planning of cost control during construction. Prerequisite: senior standing. 2 lectures, 3 hrs. lab.

184. WATER POWER. (2) Problems in design and construction relating to reservoirs, dams, conduits, and general hydraulic engineering. Prerequisite: C.E. 110L.

185. HYDROLOGY. (3) Occurrence and movement of water by natural processes. Analysis of rainfall, runoff, evaporation and infiltration data.

190L. MUNICIPAL ENGINEERING. (3) City planning; street systems; subdivisions; housing; zoning; building codes and design of municipal details. 1 lecture, 6 hrs. lab.

191. HIGHWAY ADMINISTRATION AND FINANCE. (3) Design, financing, and administration of rural highways and city street improvements; highway bond issues; taxes and special assessments; Federal aid to highway construction.

195L. PLAIN CONCRETE II. [Plain Concrete] (3) Use of admixtures in concrete and critical review of research in the field of concrete mixes. Prerequisite: C.E. 115L. 1 lecture, 6 hrs. lab.

204. FLOOD CONTROL. (3) Flood runoff, retarding basin, spillway and conduit design, channel improvements. Prerequisite: C.E. 185.

205. SOIL MECHANICS. (3) Properties of soils and their ability to exert and resist loads, with applications toward foundation

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designs for all types of structures. Prerequisite: C.E. 167L or its equivalent.

206. HYDRAULICS OF OPEN CHANNEL FLOW. (3) Backwater curves and the hydraulic jump. Prerequisite: C.E. 185.
- 209L. INDETERMINATE STRUCTURES. [Theory of Indeterminate Structures] (3) A continuation of C.E. 160L. 1 lecture, 6 hrs. lab.
- 210L. STRUCTURAL DESIGN III. [Theory of Indeterminate Structures] (3) A continuation of C.E. 155L. 1 lecture, 6 hrs. lab.
- 211L, 212L. RESEARCH AND TESTING OF BUILDING MATERIALS. (3, 3) Special research studies of non-metallic constructional materials for strength, effect of moisture, insulating value, and comparative costs. 1 lecture, 6 hrs. lab.
- 213L, 214L. RESEARCH AND TESTING OF HIGHWAY MATERIALS. (3,3) Special research studies of highway materials. Design of rigid and non-rigid pavements, bituminous mixes, soil aggregate stabilization mixes, and load distribution on subgrades. 1 lecture, 6 hrs. lab.
- 215L. REINFORCED CONCRETE DESIGN III. [Advanced Masonry Design] (3) A continuation of C.E. 159. 1 lecture, 6 hrs. lab.
- 216L. FOUNDATIONS. [Advanced Masonry Design] (3) Design of substructures to meet various soil conditions. Prerequisite: C.E. 205. 1 lecture, 6 hrs. lab.
- 251, 252. PROBLEMS. (3, 3) Advanced reading, design or research.
300. THESIS. (4-6).

ELECTRICAL ENGINEERING

- 51L. ELECTRICAL ENGINEERING COMPUTATIONS. (3) Problems in electrical engineering involving the use of determinants, series, complex numbers, hyperbolic functions. Prerequisite: Math. 22. 2 lectures, 3 hrs. lab.
- 54L. ELECTRIC AND MAGNETIC CIRCUITS. (5) Direct current electric and magnetic circuits under steady state and transient conditions. Co-requisite: Math. 53. 3 lectures, 6 hrs. lab.
- 101L. DIRECT CURRENT MACHINES. (4) Theory and application of D. C. motors and generators and their control equipment. Prerequisite: E.E. 54L. 3 lectures, 3 hrs. lab.
- 105L. ELECTRICAL APPLICATIONS. (3) Theory and application of D.C. motors and generators. Prerequisites: Math. 54 and Physics 52L. 2 lectures, 3 hrs. lab.

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- 106L. ELECTRICAL APPLICATIONS. (3) Theory and applications of A.C. circuits and machines to industrial problems. Prerequisite: E.E. 105L. 2 lectures, 3 hrs. lab.
- 108L. ELECTRIC CIRCUITS AND WIRING. (4) Direct and alternating current circuit wiring as applied to houses and small shops and stores. Prerequisite: junior standing. 3 lectures, 3 hrs. lab.
- 109L, 110L. APPLIED ELECTRICITY. (3, 3) Direct and alternating current circuits and machines and their practical application to the machines in small shops. Prerequisites: Physics 52L or equivalent, and Math. 22. 2 lectures, 3 hrs. lab.
111. ENGINEERING ECONOMY. (2) The elements of economics as applied to engineering problems. Prerequisite: Economics 105.
- 113L. ELECTRIC AND MAGNETIC CIRCUITS. (4) Single phase and polyphase circuits, wave analysis, coupled circuits, steady state and transient solutions. Prerequisites: E.E. 54L and Math. 54. 3 lectures, 3 hrs. lab.
- 115L [115] ELECTRIC AND MAGNETIC FIELDS. (4) Study of fields associated with electric and magnetic circuits. Co-requisite: E.E. 113L. 3 lectures, 3 hrs. lab.
- 132L. ELECTRONICS. (4) Electron ballistics, electron emission, and conduction through vacuums, gasses, and vapors. Theory and application of high vacuum and gas tubes. Prerequisite: E.E. 113L.
146. ELECTRICAL ENGINEERING ANALYSIS. (3) A course emphasizing the fundamentals of electric and magnetic circuits and their solution by Heaviside. Prerequisite: E.E. 113L.
- 151L, 152L. ALTERNATING CURRENT MACHINERY. (4,4) Prerequisites: E.E. 106L, 113L. 3 lectures, 3 hrs. lab.
- 153L. ELECTRONICS AND CONTROL. (3) Application of electro-magnetic and electronic control to industrial problems. Prerequisites: E.E. 105L, 106L. 2 lectures, 3 hrs. lab.
- 162L. ELECTRICAL ENGINEERING DESIGN LABORATORY. (3) Design and testing of electrical circuits and machines. Prerequisite: senior standing; co-requisite: E.E. 152L. 9 hrs. lab.
- 172L. INDUSTRIAL APPLICATIONS. (3) Application and control of direct and alternating current machines. Prerequisite: E.E. 106L; co-requisite: E.E. 152L. 2 lectures, 3 hrs. lab.
186. GENERATING STATIONS. (3) The engineering and economic considerations governing the location, design, and operation of

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electric power plants, and the elementary principles of corporate finance and rate-making. Prerequisites: Economics 105 and E.E. 151L.

193L. COMMUNICATION ENGINEERING. (4) Theoretical treatment of networks, resonant, circuits, transmission lines, filters, couples circuits, equalizes, and basic ultra-high frequency theory. Prerequisite: E.E. 132L. 3 lectures, 3 hrs. lab.

194L. COMMUNICATION ENGINEERING. (4) Theory, design, and application of class A, AB, and B, C amplifiers, frequency and amplitude modulators and demodulators to telephone and radio communication circuits. Prerequisite: E.E. 193L. 3 lectures, 3 hrs. lab.

195L. INDUSTRIAL ELECTRONICS. (4) Electronics as applied to industrial problems. Rectifiers, speed and voltage regulators, automatic synchronizers, industrial X-ray, high frequency heating, etc. Prerequisite: E.E. 132L; co-requisite: 151L. 3 lectures, 3 hrs. lab.

196L. POWER TRANSMISSION AND DISTRIBUTION. (4) Electrical and mechanical characteristics; economics of transmission and distribution systems. Prerequisites: E.E. 115L and 151L. 3 lectures, 3 hrs. lab.

203L. TECHNIQUES OF SOLVING ENGINEERING PROBLEMS (4)

204L. ELECTRO-DYNAMICS. (4)

212L. ELECTRIC AND MAGNETIC FIELDS. (4) Advanced electric and magnetic fields. Prerequisite: permission of instructor.. 3 lectures, 3 hrs. lab.

251, 252. PROBLEMS. (3, 3) Advanced reading, design, or research.

300. THESIS. (4-6)

MECHANICAL ENGINEERING

53. ENGINEERING MATERIALS. (3) Characteristics of metals, alloys, wood, and concrete, and of the manufacture and heat treatment of iron and steel. Prerequisite or co-requisite: Chemistry 2L.

55L. MECHANISMS. (3) Displacements, velocities, and accelerations of such machine elements as links, cams, gears, chains, and belts. Not for mechanical engineers. Prerequisites: A. E. 1L, 2L. 1 lecture, 6 hrs. lab.

56L. MACHINE DRAWING. (3) Detail and assembly drawing of machine parts. Prerequisites: A.E. 1L, 2L. 1 lecture, 6 hrs. lab. For Mech. Engineers only.

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60. MECHANICS. (3) For Industrial Arts students. Fundamental principles of statics and dynamics.
- 101 [101L]. HEAT POWER ENGINEERING. (3) Theory and characteristics of heat engines and heat power equipment. Prerequisites: Physics 51L and 52L, Math. 54 and Chem. 2L.
102. THERMODYNAMICS. (3) Prerequisite: M.E. 101.
- 103L. HEAT POWER LAB. (2) Co-requisite: M.E. 101. 6 hrs. lab.
- 104L. ELEMENTS OF THERMODYNAMICS. (3-4) Principles of heat engines and thermodynamics. Not for mechanical and chemical engineers. Prerequisites: Physics 52L, Math. 54. 3 lectures, 3 hrs. lab., but course may be taken for 3 hrs. credit without lab.
105. MECHANICS. (2) Principles of dynamics. Prerequisite: C.E. 60.
- 107L. [C.E. 107L] STRENGTH OF MATERIALS. (3) For Industrial Arts students. The mechanics of materials; theory of beams, columns and shafts. Prerequisite: M.E. 60. 2 lectures, 3 hrs. lab.
- 114L. MECHANISMS. (4) Displacements, velocities, and accelerations of such machine elements as links, cams, gears, chains. Prerequisites: A.E. 1L, 2L, junior standing. 2 lectures, 6 hrs. lab.
- 115L. ELEMENTARY MACHINE DESIGN. (4) Introduction to transmission of power by gears, belting, and shafting; proportioning for strength of fastenings, coupling, shafts, and frames; design of gears for strength and wear; specification of fits and tolerances; principles of lubrication and bearing design. Prerequisites: M.E. 114L and C.E. 102. 3 lectures, 3 hrs. lab.
- 151L. MECHANICAL ENGINEERING LABORATORY. (2) Tests of steam boilers, engines, turbines, pumps and compressors. Prerequisite: M.E. 102; co-requisite: M.E. 155. 6 hrs. lab.
- 152L. MECHANICAL ENGINEERING LABORATORY. (2) Tests of internal combustion engines, their fuels and lubricants. Prerequisite: M.E. 102; co-requisite: M.E. 160. 6 hrs. lab.
- 153L, 154L. MECHANICAL ENGINEERING DESIGN. (3, 3) Analysis and design of some piece of equipment selected from the field of mechanical, aeronautical, or petroleum engineering. Prerequisites: M.E. 56L, M.E. 114L and C.E. 102, M.E. 115L. 1 lecture, 6 hrs. lab.
155. POWER PLANTS. (3) Types and equipment. Prerequisite: M.E. 102.

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156. INDUSTRIAL ENGINEERING. (3) The principles of management applied to the general operation of engineering projects and manufacturing plants. Prerequisite: senior standing.
160. INTERNAL COMBUSTION ENGINES. (3) Theories of Otto and Diesel type engines. Prerequisite: M.E. 102.
162. [162L] REFRIGERATION. (3) The theory of refrigeration and the testing of refrigerating equipment. Prerequisite: M.E. 102.
165. AIR-CONDITIONING. (3) Methods used to heat, cool, humidify, clean, and distribute air in buildings. Prerequisites: M.E. 102, 162.
- 167, 168. AERODYNAMICS. (3, 3) Application of the fundamental principles of mechanics and hydrodynamics to the study of air-plane design and performance. Prerequisites: M.E. 102, 167.
171. AIRPLANE STRUCTURES. (2) Application of fundamental principles of structural theory to practical airplane design. Prerequisites: M.E. 102L, 167.
- 181, 182. PETROLEUM PRODUCTION. (3, 3) Oil field development, methods of drilling and oil recovery, preliminary refining, storage, and transportation. Prerequisite: senior standing.
202. MECHANICS OF MACHINERY. (3) Study of static and dynamic forces in machines, with special emphasis on high speed machinery, advanced velocity and acceleration analysis, balancing of rotating and reciprocating machine elements.
204. MECHANICAL VIBRATIONS. (3) Topics of study include: Kinematics of Vibration; The Single Degree of Freedom; Two Degrees of Freedom; Many Degrees of Freedom; Natural Frequency; Forced Vibration; Effect of Dry and Viscous Damping; Torsional Vibrations of Crankshafts and Geared Systems; Suppression and Elimination of Vibration.
206. ADVANCED THERMODYNAMICS. (3)
211. ADVANCED HEATING AND AIR-CONDITIONING. (3)
- 251, 252. PROBLEMS. (3, 3) Advanced reading, design, or research.
300. THESIS. (4-6)

SHOP

- 1, 2. SHOP COMPUTATIONS. (3, 3) Practice in the solution of problems encountered in shop and building construction.
- 10L. WOODWORK. (3) Instruction in proper use of hand tools, knowledge of common tools, joinery, and the setting up, and the operation, of woodworking power machinery. 6 hrs. lab.

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- 12L. GENERAL SHOP. (1) General shop work for E.E.'s only. 3 hrs. lab.
- 20L. MACHINE SHOP. (3) Bench work such as filing, tapping, and simple layouts, and the operation of engine lathes, drill presses, shapers, grinders, and milling machines. 6 hrs. lab.
- 60L. CABINET WORK. (3) Working knowledge of all types of joints and finishes, construction of some article built complete, and the study of styles of furniture. Prerequisite: Shop 10L. 1 lecture, 6 hrs. lab.
- 61L. WOOD TURNING. (3) The proper use and care of wood-turning tools and lathes. Spindle and faceplate turning, kinds of woods used and their finishing. 1 lecture, 6 hrs. lab.
- 62L. CARPENTRY. [Woodwork] (3) Use of steel square in building framing and elementary construction. Prerequisite: Shop 10L. 1 lecture, 6 hrs. lab.
- 64L. PATTERN MAKING. (3) Construction of patterns such as one-piece, two-piece, straight and irregular parting; core box design and construction; and the methods of marking and storage. 1 lecture, 6 hrs. lab.
- 70L. MACHINE SHOP. (3) Advanced machine-shop processes on all machines and the machining and assembling of some machine such as wood lathe, permanent mold, sub press, wood vise. 1 lecture, 6 hrs. lab.
- 102L. FORGING AND ORNAMENTAL IRON WORK. (3) Instruction in building forge fire. Hand forging operations in drawing, upsetting, bending, and welding. Construction of wrought iron work. 1 lecture, 6 hrs. lab.
- 104L. PATTERN MAKING. (3) Construction of master patterns, plaster models, metal patterns and core boxes, gated patterns, and plated patterns of both wood and metal. Prerequisite: Shop 64L. 1 lecture, 6 hrs. lab.
- 105L. SHEET METAL WORK. (3) Construction of forms used in heating, ventilating, and air conditioning; development of intersections; and the proper uses of hand tools and turning machines. Prerequisite: junior standing. 1 lecture, 6 hrs. lab.
- 107L. FOUNDRY PRACTICE. (3) Bench molding, core making, and sand tempering; the melting and casting of ferrous and non-ferrous metals; and the cleaning of castings. 1 lecture, 6 hrs. lab.
- 109L. ARC AND ACETYLENE WELDING. (3) Use of arc and oxy-

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acetylene welding, the brazing of ferrous and non-ferrous metals, and torch cutting. 1 lecture, 6 hrs. lab.

151L, 152L. HEAT TREATING AND WELDING. (1, 1) Prerequisite: senior standing. Open to mechanical engineering students only. 3 hrs. lab.

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EDUCATION**

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THE PURPOSE of the College of Education is to correlate the forces of the University in order to meet the needs of the state in the preparation and certification of teachers, supervisors, and administrators. The college sets for itself these tasks: the thorough training of elementary and high school teachers and of supervisory and administrative officers, and the provision of courses in the various fields of education, and opportunities for research.

The curricula are based upon the assumption that the teacher or supervisory officer should have a broad and liberal education; that he should be master of the subject or group of subjects that he expects to teach; and that his training should be supplemented by professional education designed to give a knowledge of the pupils to be taught, the problems to be met in teaching, and the new meaning of the subjects of instruction. For the prospective teacher this policy has the effect of placing the emphasis upon the subjects he intends to teach.

STANDARDS

Graduation from the College of Education meets the requirements of the New Mexico State Board of Education for certification of high school and elementary teachers, and the recommendations of the North Central Association of Colleges and Secondary Schools as to professional subjects in education and the proper subject matter courses for purposes of high school teaching. Because of the tendency in various states to increase the number of credit hours in education for certification, students are advised to secure credit in not less than twenty-four semester hours in education, including general psychology.

PRINCIPLES GOVERNING THE COLLEGE OF EDUCATION IN ITS TEACHER EDUCATION PROGRAM

1. The direction of the programs of all students expecting to receive a Bachelor's degree in Education should be under the supervision of the College of Education.

2. Although it shall be the general policy of the College of Education to accept the recommendation of the department concerned, the College of Education reserves the right of final approval of the specific courses within fields as suitable majors or minors for students enrolled in the College of Education.

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3. All courses in education methods are to be taught by persons approved by the Dean of the College of Education.

4. For those students who desire to prepare themselves to teach music or art in the elementary, junior high, and senior high schools, majors in Music Education and Art Education are offered.

5. Instructors teaching courses in both methods and subject matter courses are considered members of the faculty of the College of Education as well as of the college in which the subject matter courses are represented.

ADMISSION

For the quantitative requirements for admission to the College of Education, see "Admission."

In the admission of applicants to the College of Education, the following points will be considered: (1) good moral character, (2) physical and intellectual fitness, and (3) personal qualities necessary for success in some field of education.

A student intending to prepare for teaching should register in the College of Education, in order that he may be educationally guided and be enabled to make the necessary professional adjustments.

MAXIMUM NUMBER OF HOURS

No student in this College may enroll for more than 17 semester hours, plus one hour of physical education (or military drill in the case of N.R.O.T.C. students), unless his standing for the previous semester was at least B in two-thirds of his studies, with no grade below C; and then only by presenting a written petition to the Committee on Scholarship, which may, in its discretion, grant permission to enroll for extra work up to a maximum of 19 hours.

EXTRA-CURRICULAR ACTIVITIES FOR TEACHERS

In choosing teachers, principals and superintendents are always eager to find candidates who are able to handle extra-curricular activities or who have developed some particular ability which will contribute to the life of the school. From the point of view of getting a position and becoming indispensable after the position has been secured, such specialized abilities as those which enable teachers to direct glee clubs, coach athletics and debating teams, manage student publications, and sponsor school clubs of various kinds are extremely important. There are many opportunities at the University for securing training and experience in these fields. It is strongly recommended that prospective teachers take advantage of them.

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PRACTICE TEACHING FACILITIES

The College of Education has made arrangements with the Albuquerque public school authorities whereby student teaching is carried on under the personal direction of selected teachers, who act as critic teachers under the general direction of a professor of education in the College of Education.

The facilities of the city school system furnish an excellent opportunity for students to work in a practical laboratory where the principles and best practice in teaching can be exemplified and applied. The practice teaching is correlated with the subjects taught in the University.

LABORATORIES

LABORATORY FOR THE DEPARTMENT OF SECONDARY EDUCATION. The facilities of the Department of Secondary Education have been materially increased by the equipment of a workroom, or laboratory, in which will center all work connected with the professional training of high school teachers. The major publishing houses are keeping this room supplied with textbooks and other materials of secondary education with which students will wish to become familiar. Here, too, will be found various types of research materials for students in this department.

LABORATORY AND MATERIALS FOR THE DEPARTMENT OF ELEMENTARY EDUCATION. A large workroom is available for students. It is equipped with apparatus and materials to assist in constructing units of work for practice teaching and classwork.

LABORATORY IN COMMERCIAL EDUCATION. A laboratory in commercial education is now available for those who are preparing to teach in that field. This laboratory has been added to meet a recognized need in the public schools.

LONGFELLOW SCHOOL. Through a coöperative arrangement with the Albuquerque Public Schools, the University is enabled to use the Longfellow School for demonstration and practice teaching. Here in typical situations the beginning teacher is assisted in solving her problems by experienced critic teachers. The work is under the direction of the school principal and the director of practice teaching in the College of Education.

EDUCATION PLACEMENT BUREAU

A placement bureau, one function of which is to assist students and graduates of the University in obtaining positions in the teaching profession, is maintained by the University. The bureau aims to keep on file a complete record of the scholarship, experience, and

COLLEGE OF EDUCATION

personal qualifications of each candidate for a position. Copies of these records will be mailed to school officials at their request. The University reserves the right to refuse to extend its coöperation to students who apply for positions for which they are manifestly unfit.

Blanks for registration may be obtained from the Placement Bureau. A fee of \$2 is charged each registrant and includes permanent registration. No commission is charged by the Bureau. Communications should be addressed to the Education Placement Bureau.

SCHOLARSHIP REGULATIONS

See pp. 74-75.

REQUIREMENTS FOR GRADUATION

Upon the completion of all specified requirements, candidates for degrees in the College of Education who major in commercial work, educational administration, home economics, mathematics, or a science, receive the degree of Bachelor of Science in Education; those who major in physical education receive the degree of Bachelor of Science in Physical Education; those who major in industrial arts receive the degree of Bachelor of Science in Industrial Arts Education; and those who major in other subjects receive the degree of Bachelor of Arts in Education.

Candidates for degrees in the College of Education are required to comply with the following regulations:

1. Students who plan to be high school teachers should complete a major and a minor in subjects usually taught in high schools.

2. A major is the principal subject which the student desires to teach in high school. It consists of a minimum of twenty-four semester hours above freshman grade in the subject selected. It must be chosen with the advice of the dean.

A minor should be selected in a subject which the student plans to teach, and whenever possible, the student should secure a second minor. The specific requirements for majors and minors are listed under the several departments; the work in these fields must be of at least C quality, and courses in which the grade of D is earned are accepted only as electives.

3. It is often necessary for the teacher of science to teach classes in more than one field. The same is true of teachers of social science. This makes it impossible for students to make adequate preparation for teaching in these fields by completing a major in any one department of the University.

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Therefore, students preparing to teach in one of these fields will be permitted to complete either a general Major in Science or a general Major in Social Science as follows:

A. **MAJOR IN SCIENCE IN SECONDARY EDUCATION.** The major in science shall consist of 48 hours, including freshman courses, in the Departments of Biology, Chemistry, Geology, and Physics. The student shall offer a minimum of 12 hours in each of three of these departments. No minor is required, but one is strongly recommended. Survey courses will not be accepted toward the major. Necessary deviation from the rule requiring 40 hours above 100 will be approved in individual cases.

B. **MAJOR IN SOCIAL STUDIES IN SECONDARY EDUCATION:** Students preparing to teach the social studies in secondary schools may be permitted to offer a major in general social studies. Such general social studies major shall consist of at least 48 hours, including freshman courses, of which 18 hours must be in the Department of History, 9 hours in the Departments of Government and Citizenship and Economics, 9 hours in the Departments of Sociology, Anthropology, and in Geography courses, 12 hours in electives from social studies departments. No minor is required with the general social studies major, but one is strongly recommended.

4. The demand for teachers of commercial subjects has steadily increased in recent years. Students preparing to teach in high schools may now offer a major or minor in this field. Upon graduation, they will receive the degree of Bachelor of Science in Education.

5. Students preparing to teach should follow the curriculum as outlined. A minimum of 124 semester hours, plus physical education (or equivalent N. R. O. T. C. credits), is required for graduation. This amount is based upon an average quality of work done. Ninety hours of the total must be C grade or better, and, in addition, students transferred from other institutions must make a grade of C or better in three-fourths of the hours earned in the University of New Mexico.

6. In addition to the required work in majors and minors, professional courses in education are required as outlined in the various curricula. All candidates for degrees are required to take a course in observation and practice teaching.

7. Students who desire to prepare for administrative or supervisory positions should major in the curriculum for administrators and supervisors, and should minor in some subject which has bearing upon their chosen field of work.

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8. Students who plan to teach in the elementary schools are not required to have a major or a minor, nor meet the group requirements listed below. They will be expected to follow the curriculum as outlined on p. 186.

9. Each candidate for a degree must complete at least 40 semester hours in courses numbered above 100.

10. No student shall be recommended for graduation unless he shows ability to write and speak clear and correct English.

11. For minimum residence requirements, see p. 79.

GROUP REQUIREMENTS

Students must complete the following requirements in the various groups. As much of this work as possible should be done in the freshman and sophomore years, and professional work and major and minor requirements should be completed in the junior and senior years. For required courses in physical education, see p. 79.

I. ENGLISH. As evidence of proficiency in oral and written English a student must earn 12 semester hours. Six hours must be earned in English 1, 2 and 6 additional hours must be earned in courses numbered above 50. (In the elementary curriculum, these additional hours must be in literature: In the secondary and administrative curricula some courses in public speaking are suggested.)

II. FOREIGN LANGUAGE. A student who has been admitted with no credit in a foreign language, or who begins a language in which he has done no work in high school is required to complete four semesters, or twelve hours credit in one foreign language.

Other students continuing a language begun in high school will be tested and assigned to courses according to ability shown. Such students will then complete the remainder of the twelve hours required. Substitutions may be made as follows:

(1) Administrators and supervisors may substitute an equal number of hours of professional subjects.

(2) Students preparing to teach in high school may substitute an equal number of hours in courses approved by the adviser in addition to the regular requirements. This additional work must be of C grade or better.

(3) Students preparing to teach in the elementary schools are advised to take Spanish, but no foreign language is required.

III. SOCIAL STUDIES. Nine semester hours (not more than 6 from one department) must be completed in approved* courses in

* For approved courses, see departments of instruction.

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the Departments of Anthropology, Economics, History, Government and Citizenship, Philosophy, or Sociology. A student admitted with less than one unit in social science is required to complete 12 hours in this group.

IV: MATHEMATICS AND SCIENCES. Eleven semester hours (not more than 8 from one department, and including 6 hours in courses that require laboratory work) must be completed in approved* courses in the Departments of Biology, Chemistry, Geology, Home Economics, Mathematics, Physics, or Psychology. A student admitted with high school deficiencies in both mathematics and science is required to complete a total of 17 hours in this group.

CURRICULA

The following curricula have been outlined for the purpose of directing students in their chosen fields of work. There are curricula for students preparing to teach in high schools and for students who wish to teach in the elementary schools.

Special curricula are provided for students preparing to teach art, music, physical education, home economics, commercial subjects or industrial arts in public schools.

The course in the Department of Naval Science and Tactics may be substituted during each semester of each school year for courses in required Physical Education. The course in Naval Science may also be substituted for courses in each of the curricula as prescribed by the dean.

CURRICULUM FOR STUDENTS PREPARING TO TEACH IN HIGH SCHOOL

(Leading to the degree of Bachelor of Arts in Education or Bachelor of Science in Education.)

FRESHMAN YEAR			
First Semester		Second Semester	
English 1	3	English 2	3
Mathematics or Science	3-4	Mathematics or Science	3-4
Social Studies	3	Social Studies	3
**Foreign Language	3	**Foreign Language	3
Physical Education	1	Physical Education	1
Electives	3	Electives	3
SOPHOMORE YEAR			
English	3	English	3
Psychology 51	3	†Education 54 (Psychology)	3
Social Studies	3	**Foreign Language	3
**Foreign Language	3	Physical Education	1
Physical Education	1	Electives or Science	6-7
Electives	3		

*For approved courses, see departments of instruction.

**For substitution see Group Requirements for Graduation.

† If not taken during the sophomore year, an advanced course must be substituted according to the advice of the Dean.

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JUNIOR YEAR

First Semester		Second Semester	
†Education 101	3	†Education 102	3
Education 141	3	Education 153	3
¶Majors and Minors	8-9	§Teachers Course	3
		¶Majors and Minors	10-11

SENIOR YEAR

§Teachers Course	3	Education 156	5
¶Majors and Minors	13	¶Majors and Minors	11

CURRICULUM FOR STUDENTS PREPARING TO TEACH IN ELEMENTARY GRADES

(Leading to the degree of Bachelor of Science in Education.)

FRESHMAN YEAR

English 1	3	English 2	3
Biology 1L	4	Biology 2L	4
History 1 or 11	3	History 2 or 12	3
Art Educ. 17	3	Art Educ. 18	3
Physical Education	1	Physical Education	1
Elective: Language or Anthro.	3	Elective: Language or Anthro.	3

SOPHOMORE YEAR

English 53	3	English 54	3
Geology 1	3	Geology 2 or 54	3-2
History 51	3	History 52	3
Language or Mathematics 1	3	Language or Child Study, H. E. 138	3
Psychology 51	3	Education 72	2
Music Education 93	2	Music Education 94	2
Physical Education	1	Physical Education	1

JUNIOR YEAR

Education 121	3	Education 122	3
Physical Education 119	2	Education 135	2
Education 124	3	Education 183 (Psych.)	3
Sociology 110	2	Sociology 81	3
Elective:	7	Elective: Same, plus Child Study	6
Dramatic Art			
Corrective Speech			
Geology 54			
Anthropology			
*College Arithmetic			
Sociology 71			
Library Science			

SENIOR YEAR

Education 107	2	Education 102	3
Education 123	2	Education 136	5
English 82	3	Education 120	2
Government 103	3	Electives	4
Elective: Child Psychology, Art or Music	6		

All programs must be approved by Head of Department.

CURRICULA IN PHYSICAL EDUCATION, see pp. 202-205.

† One of these courses is required.

¶ For required courses see departments of instruction.

§ One teacher's course, according to the advice of the Dean.

* For those who fail to pass an achievement test.

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CURRICULUM FOR STUDENTS PREPARING TO TEACH HOME ECONOMICS

(Leading to the degree of Bachelor of Science in Education.)

FRESHMAN YEAR

First Semester		Second Semester	
English 1	3	English 2	3
Biology 12L	4	Biology 36	3
Art 3	2	Art 4	2
Lib. Science 2	3	Intro. to Soc. Sci. 1	3
Home Economics 1	3	Home Economics 12L	2
Home Economics 2L	2	Home Economics 53L	3
Physical Education	1	Physical Education	1
	<hr/> 18		<hr/> 17

SOPHOMORE YEAR

Intro. to Soc. Sci. 2	3	English	3
Chemistry 41L	5	Chemistry 42L	5
Psychology 51	3	Psychology 54	3
Home Economics 54L	3	Home Economics 63L	3
Home Economics 60L	3	Elective	3
Physical Education	1	Physical Education	1
	<hr/> 18		<hr/> 18

JUNIOR YEAR

Education 141	3	Education 153	3
Biology 93L	4	English	3
Home Economics 64L	3	Home Economics 132	3
Home Economics 127L	4	Home Economics 108	2
Electives	3	Home Economics 109	2
	<hr/> 17	Elective	3
			<hr/> 16

SENIOR YEAR

Home Economics 138L	4	Home Economics 196	1
Home Economics 107L	3	Home Economics 128	3
Electives	9	Home Economics 133L	3
	<hr/> 16	Education 155d	3
		Education 156	5
			<hr/> 15

CURRICULA FOR STUDENTS PREPARING TO TEACH MUSIC EDUCATION

(Leading to the degree of Bachelor of Arts in Education.) The following courses will satisfy the requirements for a major study in Music Education. Candidates must complete a minor study in some other teaching subject, and follow the curriculum for Elementary or Secondary Education. Applied music must include voice and piano study, the number of hours in each to be determined upon consultation with the Head of the Department of Music Education.

If electives are selected in the Music Department, the following courses are recommended: Music 95, 96, 61, 62, 157, 158, 109, 110, Dramatic Art 89, 90, or applied music.

Curriculum for students preparing to teach music in the elemen-

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tary grades: (Students preparing to teach music in the elementary schools should follow the elementary curriculum as outlined on p. 186, and should take the required number of hours and courses to complete their major in lieu of the electives provided in the elementary curriculum.)

Music 5, 6	10	*Music 45, 46	2
Music 55, 56	4	Applied Music	6
*Music 39, 40	4	Ensemble Music	2

Curriculum for students preparing to teach music in the secondary schools:

Music 5, 6	10	Music 153, 154	4
Music 61, 62	6	Music Education 94, 155f	5
*Music 39, 40	4	Ensemble Music	4
*Music 45, 46	2	Applied Music	8
Music 55, 56	4	Dramatic Art 89	3
Music 157, 158	4		

The following music courses will satisfy the requirements for a minor study in Music Education. Students who minor in Music Education must pass a satisfactory examination in piano and voice, or take one hour each in voice and piano class instruction.

Music 5, 6	10	Music Education 94 or 155f	2-3
Music 55, 56	4	Ensemble Music	2
Music 39, 40	4		

CURRICULUM FOR ADMINISTRATORS AND SUPERVISORS

(Leading to the degree of Bachelor of Science in Education.) Twenty-four semester hours of work in courses numbered above 50 are necessary for a major. The following courses are acceptable toward meeting the requirements for a major study in administration and supervision. Candidates must also complete a minor in some field other than education.

Educational Psychology	3	City School Administration	3
History of Education	3	Problems of Education in N. M.	2
Educational and Psychological Tests	3	Elementary Educ.	3
Child Psychology	3	Educational and Vocational Guid.	3
		The Principal and His School	3

CURRICULUM FOR ART TEACHERS AND ART SUPERVISORS

(Leading to the degree of Bachelor of Arts in Education.)

FRESHMAN YEAR

First Semester		Second Semester	
English 1	3	English 2	3
Math. or Science	3-4	Math. or Science	3-4
Art 1	2	Art 2	2
Art 3	2	Art 4	2
Art 5	2	Art 6	2
Physical Education	1	Physical Education	1
General Electives	2-3	General Electives	2-3

* Music 39, 40 and 45, 46 are to be taken concurrently.

COLLEGE OF EDUCATION

SOPHOMORE YEAR

First Semester		Second Semester	
English	3	English	3
Psychology 51	3	Education 54 (Psych.)	3
Social Studies	3	Social Studies	3
Art Education 48	3	Art Education 49	3
Art 27	2	Art 63 (or 64)	2
Art 53	2	Physical Education	1
Physical Education	1	General Electives	2

JUNIOR YEAR

Education 102	3	Education 141	3
Education 107	3	Education 153	3
Art Education 128	3	Art Education 129	3
Philosophy 102	3	Art 79 (or 89)	2
Art 37 (or 157)	2	Drama 30	3
Art Electives	3	Art Electives	3

SENIOR YEAR

Education 151	3	Education 156	5
Education 155a	3	Art Electives	10-12
General Electives	10-11		

CURRICULUM FOR STUDENTS PREPARING TO TEACH COMMERCIAL WORK

(Leading to the degree of Bachelor of Science in Education.)

FRESHMAN YEAR

English 1	3	English 2	3
Lab. Science	4	Lab. Science	4
Social Studies	3	Social Studies	3
Physical Education	1	Physical Education	1
†Foreign Language	3	Math. 14	3
Business Administration 5	3	†Foreign Language	3
		Business Administration 6	3

SOPHOMORE YEAR

Psychology 51	3	English 55	3
Social Studies	3	Education 54 (Psych.)	3
Physical Education	1	Physical Education	1
Business Administration 11 #	2	Business Administration 12	2
Business Administration 13 #	3	Business Administration 14	3
†Foreign Language	3	†Foreign Language	3
		B.A. 65	3

JUNIOR YEAR

Business Administration 53	3	Business Administration 54	3
*Education 101	3	*Education 102	3
Education 141	3	Education 153	3
Education 143	3	Business Administration 52	2
Business Administration 51	2	Minor and Electives	6
Minor and Electives	3		

† Substitutions for Foreign Language may be deferred to the Junior Year and should be approved by the major department head.

Certain elementary courses may be waived on the basis of a placement test if the student has had shorthand or typewriting in high school.

* One of these courses is required.

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SENIOR YEAR

First Semester		Second Semester	
Teachers' Course (Educ. 155g)	3	Business Administration 157	4
Business Administration 106	3	Education 156	5
Minor and Electives	6-8	Business Administration 107	3
		Minor and Electives	7-9

CURRICULUM FOR STUDENTS PREPARING TO TEACH INDUSTRIAL ARTS

(Leading to the degree of Bachelor of Science in Industrial Arts Education.)

FRESHMAN YEAR

English 1	3	English 2	3
Shop 1 Shop Computations	3	Engr. 2L Desc. Geometry	3
A.E. 1L, Engr. Drawing	3	Shop 2 Shop Computations	3
Shop 10L Woodwork	3	Shop 20L, Machine Shop	3
Science, Elective	3-4	Science Elective	3-4
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

English 64	3	English	3
Psych. 51	3	Psych. 54	3
Physics 11L	4	Physics 12L	4
Shop 61L Wood Turning	3	Shop 60L Cabinet Work	3
Shop 64L Pattern Making	3	Shop 70L Machine Shop	3
Physical Education	1	Physical Education	1

JUNIOR YEAR

Education 141	3	Education 153	3
E.E. 109L	3	E.E. 110L	3
Shop 105L Sheet Metal	3	Shop 104L Pattern Making	3
Shop 62L Carpentry	3	Shop 102L Forging	3
Education 107	2	Elective:	3
Economics 105	3	Social Science-Hist. 51-52, Sociology, Education 105, 106	

SENIOR YEAR

Education 115	3	Education 156	5
Education 155i	3	Shop 109L Arc & Acet. Weld.	3
Shop 107L Foundry	3	Elective Technical	3
A.E. 52L Arch. Draft.	3	Elective:	3
Elective General	3	Social Science-Hist. 51-52, Sociology, Education 105, 106	
		Elective General	3

For description of shop courses see pp. 176-178.

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DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, lower division, normally open to freshmen; from 50-99, lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors, and graduates; 200-400, open to graduates only. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee.

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Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr—course offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; *—course open to General College students; †—course offered for General College credit only; () semester hours' credit; credit hours separated by a dash (1-3) indicate variable credit in the course; []—former course number or title.

A schedule of course offerings, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

EDUCATION

Professors Nanninga (Dean), Clauve, Diefendorf, Fixley, Cowles (Visiting), Reid, Tireman, White; Associate Professor Moyers, Masley; Assistant Professors Israel, Runge; Graduate Assistants Hardisty, Wittich.

GENERAL EDUCATION

72. HEALTH EDUCATION. (2) Health instruction in elementary schools. White
95. SOCIAL ARTS. (2) SS Standards of social behavior.
101. HISTORY OF EDUCATION IN EUROPE. (3) Moyers
102. HISTORY AND PHILOSOPHY OF AMERICAN EDUCATION. (3) Moyers
- 105, 106. ADULT EDUCATION (3, 3) Origin, development, philosophy, objectives, methods, and materials.
107. PROBLEMS OF EDUCATION IN NEW MEXICO. (2) New Mexico school system. Nanninga
109. EDUCATIONAL SOCIOLOGY. (3) Sociological aspects of school problems. Reid
110. THE USE OF AUDIO-VISUAL AIDS IN TEACHING. (2) Chief attention will be given to the aims and techniques of audio-visual aids in the classroom; illustrative use of films; types of aids explored. Reid
112. CURRENT EDUCATIONAL PROBLEMS. (2) Staff
115. EDUCATIONAL AND VOCATIONAL GUIDANCE. (3) Principles and methods. Fixley

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116. PROFESSIONAL ADJUNCTS. (1) Attention to personality traits, the interview and written application, effective speech, personal budget, community relationships. For juniors and seniors only.
Fixley
151. PROBLEMS. (1-3) Staff
251. PROBLEMS. (1-3) Graduate Staff
300. THESIS. (4-6) Graduate Staff

ELEMENTARY EDUCATION

42. CLASSROOM ORGANIZATION AND MANAGEMENT. (3) SS Reid
52. TEACHING ENGLISH TO NON-ENGLISH SPEAKING CHILDREN. (2) SS For pre-first and first grade teachers. Tireman
61. TEACHING READING IN THE PRIMARY GRADES. (3) SS Methods and materials in pre-first to the fourth grades. Tireman
62. TEACHING OF LANGUAGE AND SOCIAL STUDIES. (3) SS Materials and methods in grades one to four. Tireman
64. PRACTICE TEACHING IN ELEMENTARY GRADES. (4) SS Pre-requisites: an observation course and 61. Co-requisite: 62
Tireman
- 93, 94. MUSIC EDUCATION. (2, 2) Music fundamentals for elementary teachers; methods and materials for elementary grades.
Clauve
119. TEACHING OF PHYSICAL EDUCATION IN ELEMENTARY GRADES. (2) Gugisberg
120. CHILDREN'S LITERATURE. (2) Materials and techniques of teaching. Tireman
121. SUPERVISION OF PRE-FIRST AND PRIMARY READING. (3) Staff
122. SUPERVISION OF ENGLISH AND SOCIAL STUDIES. (3) Supervision of language, and social studies. If Education 61 has been taken, consult instructor before enrolling in this course. Tireman
123. SUPERVISION OF INTERMEDIATE READING. (2) Supervision of reading in the fourth, fifth, and sixth grades. Diagnosis and remedial work. Prerequisite: 61 or 122. Tireman
124. SUPERVISION OF ELEMENTARY SCIENCE. (3) Tireman
- 129k. SOCIAL STUDIES CURRICULUM WORKSHOP. (1-5) Curriculum units in the social studies field. The student must spend in the workshop two hours per week for one semester per hour of credit



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earned. Enrollment is limited to those who have over 60 hours and are teaching or have had teaching experience. Moyers

135. SUPERVISION OF ARITHMETIC. (2) Moyers
136. PRACTICE TEACHING IN ELEMENTARY GRADES. (5) Prerequisites: an observation course, 121, 122, and 123. 90 clock hours minimum of practice teaching. Tireman
221. INVESTIGATIONS IN PRIMARY LANGUAGE ARTS. (2) Graduate Staff
222. INVESTIGATIONS IN INTERMEDIATE LANGUAGE ARTS. (2) Graduate Staff
232. INVESTIGATIONS IN SOCIAL STUDIES. (2) Graduate Staff
233. PHILOSOPHY OF THE ACTIVITY PROGRAM. (2) Graduate Staff
235. INVESTIGATIONS IN ARITHMETIC. (2) Moyers
237. THE ELEMENTARY SCHOOL CURRICULUM. (2) Graduate Staff
238. SUPERVISION OF THE ELEMENTARY SCHOOL. (3) Graduate Staff
- 251, 252. PROBLEMS. (1-3 each semester) Graduate Staff
252. BILINGUAL EDUCATION. (2) Tireman
274. STUDY OF EDUCATION CLASSICS. (2) Graduate Staff
300. THESIS. (4-6) Graduate Staff

SECONDARY EDUCATION

1290. WORKSHOP IN DISTRIBUTIVE EDUCATION. (2) SS Survey of functions and duties of coordinator-teachers of Distributive Education. Emphasis on giving class members individual help that may be needed in starting or developing local school programs in this field. Runge
141. PRINCIPLES OF SECONDARY EDUCATION. (3) Diefendorf
143. PRINCIPLES AND PRACTICES OF DISTRIBUTIVE EDUCATION. (3) Traces the development of vocational business distributive education under the federal George-Deen and Smith-Hughes acts. Shows how to organize, set up and carry on secondary coöperative part-time retail selling classes, pre-employment sales courses and adult programs for workers employed in distributive occupations. Runge
147. EXTRA-CURRICULAR ACTIVITIES IN THE SECONDARY SCHOOL. (3) The guiding principles of pupil participation in the extra-curricular life of the junior and senior high school. Fixley

COLLEGE OF EDUCATION

148. SOURCE MATERIALS IN DISTRIBUTIVE EDUCATION. [Development of Instructional Materials in Distributive Education]. (3) Examination made of texts, workbooks, pamphlets, sales manuals, outlines, government publications, trade journals, and all types of instructional materials available for use in Distributive Education classes. Runge
149. CURRICULUM CONSTRUCTION IN DISTRIBUTIVE EDUCATION. [Retail Store Operation and Management] (3) Construction of teaching outlines and daily lesson plans for coöperative retailing class units and adult extension courses. Runge
153. HIGH SCHOOL METHODS. (3) Prerequisite: Psychology 54 or 183. Diefendorf
155. THE TEACHING OF HIGH SCHOOL SUBJECTS. All specific methods courses are listed under the general number, Education 155, with the designating subscripts as indicated. These courses carry credit in education only, not in the subject matter departments. Required of students following secondary curricula. Prerequisite: 153.
 - a. SEE ART EDUCATION
 - b. THE TEACHING OF BIOLOGY IN HIGH SCHOOL. (3)
 - c. THE TEACHING OF ENGLISH IN HIGH SCHOOL. (3) Prerequisite: English 2. Keleher
 - d. THE TEACHING OF HOME ECONOMICS IN HIGH SCHOOL (3)
 - e. THE TEACHING OF MATHEMATICS IN HIGH SCHOOL. (3)
 - f. THE TEACHING OF MUSIC IN HIGH SCHOOL. (3) Prerequisite: 94. (Offered only on demand.) Clauve
 - g. THE TEACHING OF COMMERCIAL SUBJECTS IN HIGH SCHOOL. (3)
 - h. THE TEACHING OF SCIENCES IN HIGH SCHOOL. (3)
 - i. THE TEACHING OF INDUSTRIAL ARTS IN HIGH SCHOOL. (2) Bailey
 - k. THE TEACHING OF SOCIAL STUDIES IN HIGH SCHOOL. (3) Moyers
 - m. THE TEACHING OF SPANISH IN HIGH SCHOOL. (2) (Offered in alternate years.)
 - n. THE TEACHING OF READING IN THE JUNIOR HIGH SCHOOL. (2)
 - o. THE TEACHING OF DISTRIBUTIVE EDUCATION IN HIGH SCHOOL. (3) Runge
 - p. THE TEACHING OF PHYSICAL EDUCATION IN HIGH SCHOOL. (3)

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156. PRACTICE TEACHING IN HIGH SCHOOL. (5) Observation and teaching in Albuquerque High School. Prerequisite: 153. 1 lecture, 5 hrs. practice teaching a week. Diefendorf
159. DIRECTED STUDY. (3) Theory and practice of directing pupil study. Diefendorf
241. SEMINAR IN SECONDARY EDUCATION. (2) Diefendorf
242. HIGH SCHOOL CURRICULUM. (3) Trends and practical programs. Diefendorf
244. THE JUNIOR HIGH SCHOOL. (2) History of the junior high school movement and some of the problems arising from its organization and administration. Diefendorf
- 251, 252. PROBLEMS. (1-3 each semester) Graduate Staff
254. HEALTH EDUCATION METHODS FOR SECONDARY SCHOOLS. SS
258. HIGH SCHOOL SUPERVISION. (3) Moyers
270. DIAGNOSIS IN PHYSICAL AND HEALTH EDUCATION. SS
272. ADMINISTRATION OF HEALTH EDUCATION. SS
300. THESIS. (4-6) Graduate Staff

EDUCATIONAL ADMINISTRATION

164. CITY SCHOOL ADMINISTRATION. (3) Required of all administrative majors. Educational, financial, and administrative principles. Fixley
166. THE PRINCIPAL AND HIS SCHOOL. (3) Organization and administration, and supervision of a single school. Fixley
171. PROBLEMS OF THE TEACHING PROFESSION. (3) The principles of educational administration and organization as applied to the duties and responsibilities of the classroom teacher. Nanninga
- 201, 202. RESEARCH METHODS IN EDUCATION. (2, 2) Required of all candidates for a graduate degree in education. Fixley
206. SEMINAR IN EDUCATIONAL ADMINISTRATION. (2) Advanced reading and problems in educational administration. Fixley
- 251, 252. PROBLEMS. (1-3 each semester) Graduate Staff
261. SCHOOL LAW. (3) Legislation and court decisions, with special reference to New Mexico school law. Fixley
263. STATE SCHOOL ADMINISTRATION. (3) State school systems. Federal and state policy, and forms of control. - Nanninga

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268. PUBLIC SCHOOL FINANCE. (3) Special attention to New Mexico. Fixley
277. SCHOOL BUILDINGS AND EQUIPMENT. (3) Problems, standards, committee reports, field trips. Fixley
300. THESIS. (4-6) Graduate Staff

EDUCATIONAL PSYCHOLOGY

- *54. EDUCATIONAL PSYCHOLOGY. (3) An introductory course. Limited to sophomores. Prerequisite: Psychology 1L, 2L or 51. Keston
- *60. DYNAMICS OF PERSONALITY ADJUSTMENT. (3) Major principles underlying personality adjustment and their practical application to mental hygiene. Prerequisite: Psychology 2L or 51. Benedetti, Coleman
131. PSYCHOLOGICAL AND EDUCATIONAL TESTS. (3) Prerequisites: Psychology 2L or 51. Credit not allowed to those who have credit for Psychology 185. Shaklee
- 132L [190L]. DIAGNOSTIC TESTING. [Clinical Psychology] (3) Use of major psychological tests in clinical diagnosis and therapy. Includes practice with Binet, Arthur, Wechsler-Bellevue, Minnesota Multiphasic, and Thematic Apperception tests. Prerequisites: Psychology 60, 131, or consent of instructor. 1 lecture, 6 hrs. lab. Coleman
180. ADVANCED STATISTICAL METHODS IN PSYCHOLOGY. (3) Prerequisites: Psychology 51 and Math. 42 or equivalent. Shaklee
183. EDUCATIONAL PSYCHOLOGY. (3) Advanced course. Prerequisites: Psychology 1L, 2L or 51. Keston
187. CHILD PSYCHOLOGY. (3) The principles of human behavior in infancy, childhood, and adolescence. Prerequisites: Psychology 1L, 2L, or 51. Keston
- 251, 252. PROBLEMS. (2-3 each semester) Graduate Staff
300. THESIS. (4-6) Graduate Staff

ART EDUCATION

- 17, 18. CREATIVE ARTS AND CRAFTS IN CHILDHOOD EDUCATION. [Arts and Crafts with Elementary School] (3, 3) A contemporary experimental approach to the art needs and interests of the child from pre-school through the primary grades. This course is es-

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- pecially designed to meet the needs of all students and teachers planning to teach, or teaching, in the primary school. Masley
48. CREATIVE ART IN SECONDARY EDUCATION. (3) An introduction to art education through creative art activities related to junior and senior high school art classes. Masley
49. CONTEMPORARY ART EDUCATION. (3) A further development of Art Education 48, but emphasizing the importance of art in every day life. Masley
128. ART EDUCATION AND ART NEEDS. [The Curriculum in Art Education] (3) Interpretation of art education problems at the secondary school level as related to the art needs of students, school, and community. Masley
129. ART EDUCATION AND EXPERIENCE. (3) A further development of Art Education 128 but emphasizing experience. Masley
150. CREATIVE APPROACH TO HIGH SCHOOL ART PROBLEMS. (3) A thorough and personalized investigation of a variety of current art education problems as related to the needs of high school students and dealing with interests in techniques, materials, and processes in a wide range of media. Masley
151. PROBLEMS IN ART EDUCATION. (1-3) Extensive individual research in some specialized phase of art education. Masley
- 155a. THE TEACHING OF ART IN HIGH SCHOOL. (3) Planning, testing, and evaluating objectives and classroom procedures in art education today. Masley
251. PROBLEMS IN ART EDUCATION. (2) SS This course is especially planned to meet the needs of art teachers interested in continuing their studies at the graduate level as qualified majors in art education. Work may be done in the studio, in the field, or in intensive research. Masley
251. PROBLEMS IN ART EDUCATION. (1-3) Individual research of current art education problems at the graduate level. Masley
300. THESIS. (4-6)

HOME ECONOMICS

Professor Simpson (Head); Associate Professor Schroeder; Assistant Professor Hollen, Stofflet.

GROUP REQUIREMENTS

Home Economics 53L and 54L count toward Science and Mathematics (Group IV).

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MAJOR STUDY

See curriculum under "College of Education." For requirements for a major in dietetics in the College of Arts and Sciences, consult the Dean of the College.

MINOR STUDY

Home Economics 1, 2L, 12L, and 12 hours in courses numbered above 50, or 20 hours specified by the Head of the Department.

NOTE: The College of Education curriculum for students preparing to teach home economics is approved by the State Department of Vocational Education for the training of teachers of homemaking who desire to teach in the federally-aided schools of the state.

*1. CLOTHING SELECTION. [Homemaking] (3) Clothing selection from the standpoint of artistic, economic, and hygienic standards.

Stoflet

*2L. CHILD DEVELOPMENT. [Homemaking] (2) Child care and development; the infant. 2 lectures, 2 hrs. lab.

Schroeder

12L. CLOTHING CONSTRUCTION. (2) Basic construction problems of clothing for the individual. Prerequisite: 1. 4 hrs. lab.

Stoflet

53L, 54L. FOOD FOR THE FAMILY GROUP. (3, 3) Selection, preparation, and service of family meals: 1 lecture, 4 hrs. lab.

Hollen

60L. TEXTILES. (3) Construction, identification, use and care of clothing and household textiles. 2 lectures, 2 hrs. lab.

Stoflet

63L, 64L. DRESSMAKING. (3, 3) 63L: Pattern study; construction of clothing emphasizing fitting and techniques of finishing.

64L: Adaptation of patterns; problems in designing. Prerequisite: 1 and 63L, or permission of instructor. 1 lecture, 4 hrs. lab.

Stoflet

104. NUTRITION. (2) Primarily for physical education majors. The relation of nutrition to the health program; normal nutrition.

Simpson

107L. ADVANCED FOODS. (3) Food economics; household marketing; food laws; food preservation. Prerequisites: Home Economics 54L and Chemistry 41L, 42L. 1 lecture, 4 hrs. lab.

Simpson

108. HOUSE PLANNING. (2) Use of space within the house planned for comfort, economy and beauty. Historic styles and their relation to modern design.

Stoflet

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109. HOME FURNISHINGS. (2) Selection, use and care of home furnishings with emphasis on individual use. Stoflet
- 127L. NUTRITION AND DIETETICS. (4) Prerequisite: 107L. 3 lectures, 2 hrs. lab. Simpson
128. FAMILY RELATIONSHIPS. (3) Schroeder
132. HOUSEHOLD MANAGEMENT. (3) Schroeder
- 133L. HOME MANAGEMENT HOUSE. (3) Six weeks' residence required. Prerequisite: 132. Schroeder
- 138L. CHILD CARE AND DEVELOPMENT. (4) Pre-school through adolescence. Observation and assistance in the nursery school. 3 lectures, 2 hrs. lab. Schroeder
- 140L. NURSERY SCHOOL METHODS AND ADMINISTRATION. (3) Observation and practical experience in guidance of children in nursery school, including an investigation of play materials, literature, music, equipment, records, housing, and budget. 1 lecture, 4 hrs. lab.
196. HOME ECONOMICS SEMINAR. (1-2) Simpson

The following courses are primarily for students who wish to become dietitians.

- 150L. LARGE QUANTITY COOKERY. (3) Standard methods of food production in quantity; cost accounting; standardization of formulas; menu planning and table service. Prerequisites: 107L, 127L. 1 lecture, 4 hrs. lab. Dining Hall Staff
151. DIET IN DISEASE. (3) A study of the adaptation of diet in the treatment of impaired digestive and metabolic conditions. Prerequisites: 107L, 127L. Simpson
- 157L. QUANTITY PURCHASING. (3) Factors influencing quality, grade, and cost of food products. Current procedures in large quantity purchasing. Prerequisites: 107L, 127L, 150L. 1 lecture, 4 hrs. lab. Dining Hall Staff
159. INSTITUTIONAL MANAGEMENT. (3) Principles of scientific management applied to institutional administration. Experience in the food service and housing facilities on the campus. Prerequisites: 107L, 132, 157L. Dining Hall Staff

COLLEGE OF EDUCATION

DIVISION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Professors White (Head), Johnson (Head, Department of Health and Physical Education for Men); Associate Professor Gugisberg (Head, Department of Health and Physical Education for Women), Burley, Huffman; Assistant Professors Barnes, Clements, Petrol; Instructors Dooley, Dear, McGill, Milliken, Meservey, Nichols, Waters; Harris, M.D. (Director, University Health Service); Kling, M.D., (University Physician).

ALL UNIVERSITY REQUIREMENTS

Four semester hours of required physical education (or equivalent N.R.O.T.C. credits) shall be completed by all undergraduate students at the University. Veterans and students over thirty years of age are exempted from the physical education requirement. Not more than one hour may be earned in a semester except by physical education majors and minors. Not more than four semester hours of required physical education may count toward a degree. Men may substitute participation in major sports for required physical education for that part of the semester during which they are actively engaged in a sport, provided that they are enrolled in the section designated by the Department Head. Physical education majors and minors may not substitute their participation in sports for the required physical education classes.

The instructor in each course should be consulted concerning proper clothing or uniform.

There is a special fee of \$20.00 per semester for each course in riding. A special fee of \$10.00 is charged for lessons in skiing.

PHYSICAL EDUCATION ACTIVITY COURSES FOR MEN

M1. ACTIVITY COURSE. (1) This course is designed to get the men into the best possible physical condition through such activities as conditioning and coordination exercises, swimming, tumbling, gymnastics, apparatus, touch football, speedball, basketball, combatives, seasonal recreational sports and games. Sections as required. Staff

M2. ACTIVITY COURSE. (1) This course is designed to get the men into the best possible physical condition through such activities as basketball, combatives, volleyball, tennis, track and field, swimming, softball, seasonal recreational sports and games. Sections as required. Staff

M55. BEGINNING RIDING. (1) Dooley

M56. INTERMEDIATE RIDING. [Low Intermediate Equitation] (1) Dooley

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- M57. ADVANCED RIDING. [High Intermediate Equitation] (1) Dooley
- M58. HIGH ADVANCED RIDING. [Advanced Equitation] (1) Dooley
- M59. RIDING (RODEO). [High Advanced Equitation] (1) Dooley
- M61. BEGINNING GOLF. (1) Dear
- M62. INTERMEDIATE GOLF. (1) Dear
- M63. ADVANCED GOLF. (1) Dear
- M92. MEXICAN AND NEW MEXICAN DANCES. (1) Staff
- M93. AMERICAN COUNTRY DANCES. (1) McGill
- M94. CONTEMPORARY DANCE. (1) Modern Dance, Beginning Level. Waters
- M95. CONTEMPORARY DANCE. (1) Modern Dance, Intermediate Level. Waters

PHYSICAL EDUCATION ACTIVITY COURSES FOR WOMEN

Activity Courses for freshmen:

- W1. ORIENTATION. (1) Archery, volleyball, contemporary dance, basketball. Staff
- W2. ORIENTATION. (1) American country dancing, swimming, golf, tennis, badminton. Staff

Activity Courses for sophomores and upperclassmen:

- W51. BEGINNING TENNIS. (1) Staff
- W52. INTERMEDIATE TENNIS. (1) Staff
- W53. ADVANCED TENNIS. (1) Staff
- W55. BEGINNING RIDING. (1) Dooley
- W56. INTERMEDIATE RIDING. [Low Intermediate Equitation] (1) Dooley
- W57. ADVANCED RIDING. [High Intermediate Equitation] (1) Dooley
- W58. HIGH ADVANCED RIDING. [Advanced Equitation] (1) Dooley
- W59. RIDING (Rodeo) [High Advanced Equitation] (1) Dooley
- W61. BEGINNING GOLF. (1) Dear
- W62. INTERMEDIATE GOLF. (1) Dear
- W63. ADVANCED GOLF. (1) Dear

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W66. BEGINNING SWIMMING. (1)	Staff
W67. INTERMEDIATE SWIMMING. (1)	Staff
W68. ADVANCED SWIMMING. (1)	McGill
W69. LIFE SAVING AND WATER FRONT SAFETY. (1) Upon satisfactory completion of the requirements, the American Red Cross Senior Life-saving Certificate and the Water Front Safety Certificate is obtainable.	McGill
W71. BEGINNING SWIMMING, INDIVIDUAL AND TEAM SPORTS. (1)	Staff
W72. INTERMEDIATE SWIMMING, INDIVIDUAL AND TEAM SPORTS. (1)	Staff
W73. ADVANCED SWIMMING, INDIVIDUAL AND TEAM SPORTS. (1)	Staff
W79. FENCING. (1) (Not offered in 1948-49.)	Staff
W80. INDIVIDUAL AND TEAM SPORTS. (1)	Staff
W81. TEAM SPORTS. (1)	Milliken
W90. RECREATIONAL GAMES. (1)	Staff
W92. MEXICAN AND NEW MEXICAN DANCES. (1)	Staff
W93. AMERICAN COUNTRY DANCING. (1)	McGill
W94. CONTEMPORARY DANCE. (1) Modern Dance, Beginning Level.	Waters
W95. CONTEMPORARY DANCE. (1) Modern Dance, Intermediate Level.	Waters

MAJOR STUDY IN HEALTH AND PHYSICAL EDUCATION FOR MEN

Outlined for men preparing to teach physical education. This curriculum leads to the degree of Bachelor of Science in Health and Physical Education.

FRESHMAN YEAR

First Semester		Second Semester	
English 1	3	English 2	3
Biology 36 and 39L	5	Biology 12L	4
Social Science	3	Social Science	3
Physical Education M1	1	Business Administration 5	3
Electives	4	Physical Education M2	1
		Electives	2

SOPHOMORE YEAR

Speech 55	3	English	3
Social Science	3	Education 54	3
Psychology 51	3	Physical Education 62L	4
Physical Education 40L	2	Physical Education 41L	2
Physical Education M1	1	Physical Education M2	1
Physical Education 72	2	Physical Education 64	2
Electives	3		

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JUNIOR YEAR

First Semester		Second Semester	
Education 107	2	Biology 126L	3
Education 141	3	Home Economics 104	2
Education 101 or 102	3	Physical Education 136	2
Physical Education 104L	4	Physical Education 138	3
Electives	4	Electives	6

SENIOR YEAR

Education 164	3	Education 156	5
Education 153	3	Physical Education 172	3
Physical Education 167	3	Physical Education 186	2
Physical Education 183L	2	Health Education 185	3
Physical Education 171	3	Electives	3
Electives	2		

MAJOR STUDY IN HEALTH AND PHYSICAL EDUCATION FOR WOMEN

This curriculum leading to a degree of Bachelor of Science in Health and Physical Education is designed to prepare the student to teach health and physical education in the schools, to supervise physical education in the elementary schools, to serve as the health coordinator in a school system.

FRESHMAN YEAR

English 1	3	English 2	3
Social Science 1	3	Social Science 2	3
Fine Arts	3	Biology 12L	4
Biology 36 and 39L	5	Fine Arts	3
PE 49 Prof Activity 1	1	PE 72	2
PE W1	1	PE W2	1

SOPHOMORE YEAR

Speech 55	3	English	3
Social Science	3	Education 54	3
Psychology 51L	3	Physical Education 64	2
Physical Education 96	1	Physical Education 98	1
Physical Education 97	1	PE Elective Activity	1
PE Elective Activity	1	Electives	6
Electives	4		

JUNIOR YEAR

Education 101	3	Education 141	3
Physical Education 104L	4	Physical Education 109	2
Physical Education 107	2	Biology 126L	3
Physical Education 108	2	Physical Education 138	2
Physical Education 119	2	Physical Education 148	1
Physical Education 145	1	Home Economics 104	2
Physical Education 146	1	Electives	4

SENIOR YEAR

Education 153	3	Education 156	5
Physical Education 171	3	Physical Education 172	3
Physical Education 154	2	Physical Education 185	3
Physical Education 164	3	Physical Education 156	2
Physical Education 147	1	Electives or Educ. 155p	3
Electives	4		

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MINOR STUDY IN ATHLETIC COACHING FOR MEN

This minor of 24 semester hours is offered to qualify men to meet the demands of high schools and colleges for coaches and athletic supervisors who are also prepared to teach some academic subject. Practical work which is required, but given no academic credit, is to be arranged at the discretion of the Department according to the student's needs. Physical Education 40L and 41L are recommended for all minors although not required.

Home Economics 104	2	Physical Education 172	3
Physical Education 62L	4	Biology 12L	4
Physical Education 136	2	Biology 36 and 39L	5
Physical Education 104L	4		

MINOR STUDY IN PHYSICAL EDUCATION FOR MEN

This minor of 26 semester hours is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subjects. Physical Education 40L is recommended for all minors although it is not required.

Physical Education 72	2	Physical Education 172	3
Home Economics 104	2	Biology 12L	4
Physical Education 64	2	Biology 36 and 39L	5
Physical Education 41L	2	Physical Education 104L	4
Physical Education 42L	2		

MINOR STUDY IN PHYSICAL EDUCATION FOR WOMEN

This minor is designed to prepare students to teach physical education in the secondary schools.

Physical Education 171	3	Physical Education 64	2
Physical Education 172	3	PE 96, 98, 146, 148	1
Physical Education 109	2	PE 49, 97, 145, 149	1
Physical Education 108	2	Electives	2
Physical Education 107 or 156	2		

MINOR STUDY IN HEALTH EDUCATION

This minor in Health Education is designed to prepare the student to teach health education and to serve as a health coördinator.

Physical Education 72	2	Physical Education 64	2
Physical Education 138	3	Physical Education 185	3
Home Economics 104	2	Biology 36	3
Physical Education 164	3		

MINOR STUDY IN RECREATION LEADERSHIP

The recreation minor is designed to prepare students to serve as coördinators of recreation in the school; to lead recreation activities on the playground, in community centers, and in youth centers; to plan and direct recreation programs in service organizations, church groups and youth organizations such as Scouts, YMCA, YWCA, etc.; to serve as counselors in summer camps and to encourage further specialization in the field of recreation.

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Physical Education 105	3	Drama 1, 29, 30
Physical Education 175	3	Music 3, 4, 39, 40
Specialty in one area (in addition to major field)	8	Physical Education 62, 69, 80, 81, 90, 108, 109, 119, 172)
(Courses advised for Specialty: Art 3, 4, 7, 8		Electives

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ACADEMIC COURSES IN HEALTH, PHYSICAL EDUCATION AND RECREATION

33L. MICROBIOLOGY. (3) (Same as Biology 33L.)

*40L. GYMNASTIC TECHNIQUE AND PRACTICE. (Men) (2) Fundamental techniques of gymnastics and athletic activities, fieldball, games, aquatics, apparatus, gymnastics, tumbling. 2 lectures, 2 hrs. lab. Petrol

*41L. SPORTS TECHNIQUE AND PRACTICE. (Men) (2) Fundamental techniques of additional gymnastics and athletic activities, diamond and courtball games, individual sports, gymnastic drill, games, combatives. Prerequisite: 40L. 2 lectures, 2 hrs. lab.

Johnson

49. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in stunts, tumbling, pyramid building, and certain self-testing activities. Milliken

62L. [22L, 61L, 62L] THEORY AND PRACTICE IN MAJOR SPORTS. [Theory and Practice of Basketball; of Football; of Track, Field Athletics, and Baseball] (Men) (4) Fundamental techniques of football, basketball, track and field, baseball and tennis. 4 lectures, 4 hrs. lab. Johnson

64. [161] FIRST AID. (2) American Red Cross Standard Certificate will be granted upon satisfactory completion of the course. Staff

72. HEALTH EDUCATION. (2) (Same as Education 72.) White

96. PROFESSIONAL ACTIVITIES. (Women) (1) Directed observation and practice in group-work through one dual and one team sport. Staff

97. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in soccer and speedball. (Not offered in 1948-49.) Milliken

98. PROFESSIONAL ACTIVITIES. (Women) (1) Directed observation and practice in group-work through one individual sport and Mexican and New Mexican dances. Staff

104. NUTRITION. (2) (Same as Home Economics 104.) Simpson

104L. KINESIOLOGY. [Human Anatomy and Kinesiology] (4) Prerequisites: Biology 12L, 36, 39L. Burley

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105. COMMUNITY RECREATION THROUGH THE SCHOOL. [Recreational Leadership] (3) Basic course in planning school-community recreation. Discussion of objectives, facilities, activities, program planning, and leadership techniques. Prerequisite: proficiency in one area of recreation. McGill
107. TEACHING OF FOLK DANCE. (2) Prerequisites: 92, 93, 145. Staff
108. [65] TEACHING OF TEAM SPORTS. [Sports Technique and Practice] (Women) (2) Discussion of game techniques, strategy, rules, equipment, and teaching progression in softball, basketball, soccer, speedball, volleyball, and field hockey. Prerequisite: course in each sport. (Not offered in 1948-49.) Milliken
109. [155] TEACHING OF INDIVIDUAL AND DUAL SPORTS [Sports Technique and Practice] (Women) (2) Discussion of game techniques, strategy, rules, equipment, teaching progression and unit planning in archery, tennis, badminton, bowling, and recreational games. Prerequisite: course in each sport. (Not offered in 1948-49.) McGill
119. TEACHING OF PHYSICAL EDUCATION IN THE ELEMENTARY GRADES. (2) (Same as Education 119.) Gugisberg
121. OFFICIATING IN WOMEN'S AND GIRLS' SPORTS. (2) Discussion and practice in officiating techniques in soccer, speedball or field hockey, and basketball. Prerequisite: permission of instructor. McGill
122. OFFICIATING IN WOMEN'S AND GIRLS' SPORTS. (2) Discussion and practice in officiating techniques in volleyball, softball, and tennis. Prerequisite: permission of instructor. (Not offered in 1948-49.) McGill
125. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL PROGRAMS FOR GIRLS. (Women) (1-3) Theory and practice in organizing and directing intramural programs. Prerequisite: permission of instructor. McGill
- 126L. PHYSIOLOGY OF EXERCISE. (3) (Same as Biology 126L.) Fleck
136. THEORY OF COACHING, STRATEGY, AND TACTICS. (Men) (2) Prerequisite: P. E. 62L and Home Economics 104. Johnson
138. TEACHING OF HEALTH EDUCATION IN THE SCHOOLS. (3) Responsibilities of the teacher in providing certain health services, desirable environmental conditions, and health instruction in elementary and secondary grades. Also discussions on basic health

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- principles, unit planning, methods and use of community resources. Prerequisite: 72. Gugisberg
145. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in European folk dancing. (Not offered in 1948-49.) Staff
146. PROFESSIONAL ACTIVITIES. (Women) (1) Directed observation and practice in group work through swimming and American country dancing. Staff
147. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in field hockey. McGill
148. PROFESSIONAL ACTIVITIES. (Women) (1) Directed practice and observation in group work through contemporary dance. Staff
154. TEACHING OF SELF-TESTING ACTIVITIES. (Women) (2) Discussions on selection of content, unit planning, progression, safety measures, class organization and methods. Prerequisite: 49. (Not offered in 1948-49.) Milliken
- 155p. TEACHING OF PHYSICAL EDUCATION IN HIGH SCHOOL. (3) (Same as Education 155p.) Gugisberg
156. TEACHING OF CONTEMPORARY DANCE. [Dance Theory] (Women) (2) Selection of methods and materials for teaching modern dance. Waters
164. GENERAL SAFETY EDUCATION. (3) Safety in the home, on the farm, in industry, in play, in the school will be discussed. Stress on community organization, school responsibility and safety problems in New Mexico. Martin, Gugisberg
165. TRAFFIC SAFETY EDUCATION IN SECONDARY SCHOOLS. (3) SS Open to high school teachers, principals, supervisors, and those who are interested in the field. Those enrolling must be licensed drivers. Discussion includes improving traffic conditions, the school's part in the safety program, the need for high school courses, methods and equipment for skill tests; insurance, costs and records for behind-the-wheel training, classroom teaching methods, physical tests for drivers. Standard methods of road instruction in a dual-control car will be required. A complete library of tests, teaching aids, and courses of study will be available. Martin
167. PHYSICAL DIAGNOSIS, TESTS AND MEASUREMENTS. (3) Techniques to determine abilities, needs, and placement in physical education program. Burley

COLLEGE OF EDUCATION

171. [101] PRINCIPLES OF PHYSICAL EDUCATION. [Principles, History, Methods of Physical Education] (3) Approach to course of study construction through a study of aims and objectives, psychological, sociological, and physiological principles; the interrelationships between health, physical education, and recreation, and a brief review of historical backgrounds of modern physical education. Prerequisite: permission of the instructor. Gugisberg
172. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. (3) A study of program building including criteria for the selection of activities and progression, and a study of other factors affecting course of study construction such as facilities, equipment, budget, laws, policies, professional responsibilities, intramurals, and extramurals. Prerequisite: permission of instructor. Johnson, Gugisberg
175. [106] FIELD WORK IN RECREATION. [Recreational Leadership] (3) Theory and practice in recreation leadership in centers, playgrounds, etc. Prerequisite: 105. McGill
- 183L. PRACTICE COACHING. (Men) (2) 2 lectures, 2 hrs. lab. Johnson
185. ADMINISTRATION OF A SCHOOL HEALTH PROGRAM. (3) Prerequisite: 138. Gugisberg
186. PROBLEM METHODS IN PHYSICAL EDUCATION. (1-3) White and Staff
190. SUPERVISION OF HEALTH AND PHYSICAL EDUCATION PROGRAMS. (3) Supervisory techniques stressing cooperative planning will be applied to city and county programs in New Mexico. Each student will be required to develop a problem in terms of his particular needs and situation. Prerequisite: permission of instructor. Gugisberg
205. FOUNDATIONS FOR A PHILOSOPHY OF PHYSICAL EDUCATION. (3) Prerequisite: At least 3 hrs. in history, principles, or methods of Physical Education. Burley
207. FOUNDATIONS FOR A PHILOSOPHY OF RECREATION. (3) Burley
209. TESTS IN MEASUREMENTS IN PHYSICAL EDUCATION. (3) Burley
210. CURRICULAR CONSTRUCTION IN PHYSICAL EDUCATION. (3) Burley
214. REMEDIAL PROGRAM AND PHYSICAL EDUCATION. (3) Burley
- 271, 272. ADMINISTRATION OF HEALTH EDUCATION. (3, 3) Harris
300. THESIS. (4-6) White, Burley, Gugisberg, Harris

**College of
FINE ARTS**

COLLEGE OF FINE ARTS

THE COLLEGE of Fine Arts is established for the following purposes: (1) to stimulate a greater interest in the arts; (2) to offer those who wish to specialize in any of the fields of art an opportunity to do so; (3) to coördinate more efficiently the work in dramatics, music, and painting and design; and (4) to make a better use of the unique facilities afforded by the state of New Mexico for the study and practice of the arts.

DEPARTMENTS AND DEGREES OFFERED

As constituted, the departments of this college are: Art (Painting and Design), Dramatic Art, and Music.

Courses leading to the degree of Bachelor of Fine Arts in Dramatic Art, Music, and Art are offered; in the combined curriculum, successful candidates will receive the degree of Bachelor of Fine Arts.

GRADUATION REQUIREMENTS

Candidates for degrees must complete all requirements outlined in the respective curricula, and must maintain a C average to remain in the College of Fine Arts.

Courses in the Department of Naval Science and Tactics may be substituted in each of the curricula for courses as prescribed by the Dean.

CURRICULA

CURRICULUM IN ART-PAINTING AND DESIGN

(Leading to the degree of Bachelor of Fine Arts in Art. Hours required for graduation, 132.)

FRESHMAN YEAR			
First Semester		Second Semester	
Art 1	2	Art 2	2
Art 3	2	Art 4	2
Art 5	2	Art 6	2
Art 7	2	Art 8	2
English 1	3	English 2	3
Foreign Language	3	Foreign Language	3
Physical Education	1	Physical Education	1
	15	Gen. Univ. Elective	2
			17
SOPHOMORE YEAR			
Art (Major Group)	4	Art (Major Group)	4
Art Group III	2	Art (Group other than Major)	2
Art (Group other than Major)	2	Social Science	3
Social Science	3	Physical Education	1
Physical Education	1	Gen. Univ. Elective	6
Gen. Univ. Elective	4		16
	16		

COLLEGE OF FINE ARTS

JUNIOR YEAR

First Semester		Second Semester	
Art (Major Group)	6	Art (Major Group)	6
Art Group III	2	Art Group III	2
Natural Science	3	Natural Science	3
Gen. Univ. Elective	6	Gen. Univ. Elective	6
	<u>17</u>		<u>17</u>

SENIOR YEAR

Art (Major Group)	4	Art (Major Group)	4
Art Group III	2	Art Group III	2
Art (Any Group)	3	Art (Any Group)	3
Literature	3	Literature	3
Gen. Univ. Elective	5	Gen. Univ. Elective	5
	<u>17</u>		<u>17</u>

All courses in the Art Department are divided into the following Groups:

Group I —Painting, Drawing and Sculpture

Group II —Crafts, Commercial and Photography Courses

Group III—Art History

Two major courses of study are set up in the curricula of art; the student majoring in art will choose at the end of his freshman year a major working field in either Group I or Group II courses.

For Group II Majors only, 18 hours of the following courses may be substituted for Group II courses: Art 89, 189.

Requirements in some I courses may be taken in the Field School of Art at Taos, which is recommended but not required for at least one summer.

Students are advised to choose their electives in fields which will broaden the scope of their education.

CURRICULUM IN DRAMATIC ART

(Leading to the degree of Bachelor of Fine Arts in Dramatic Art. Hours required for graduation, 132.)

FRESHMAN YEAR

English 1	3	English 2	3
Elective in Social Science	3	Elective in Social Science	3
Drama 10	3	Drama 11	3
Drama 1	3	Drama 2	3
Drama 29	3	Drama 30	3
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

Creative Design	2	Creative Design	2
Foreign Language	3	Foreign Language	3
Drama 75	3	Drama 76	3
Drama 85	3	Drama 86	3
Drama 89	3	Drama 90	3
Physical Education	1	Physical Education	1

COLLEGE OF FINE ARTS

JUNIOR YEAR

First Semester.		Second Semester	
English 53	3	Psychology 51	3
Drama 135	3	Drama 136	3
Drama 175	3	Drama 176	3
Drama 161	3	Drama 162	3
Philosophy Elective	2-3	English Elective	3
Other Electives	3-2	Other Electives	2
SENIOR YEAR			
Drama 185	3	Drama 186	3
Drama 197	3	Drama 198	3
English 141	3	English Elective	3
Electives	8	Other Electives	8

It is strongly urged that the student broaden his field of study by choosing electives from the curricula of other colleges of the University, especially courses in the social sciences, so as to gain better insight into the problems of contemporary society.

In addition to the planned course of study, students of the Department participate in all phases of production of three-act and one-act plays. So far as is possible, this work is correlated to class work.

In lieu of courses not offered during certain terms, substitution made with the advice of the Head of the Department will be accepted.

CURRICULA IN MUSIC

Leading to the degree of Bachelor of Fine Arts in Music. (See also curricula in Music Education, p. 187; General College, p. 257; and the Graduate School Bulletin).

Four major fields of concentration are offered: Theory; Applied Music (Instrumental); Applied Music (Vocal); and Music Literature. Hours required for graduation, 132.

FIELD OF CONCENTRATION—THEORY

FRESHMAN YEAR

Music 3 Sight Singing (2) (See Note on p. 214)		Music 4 (Sight Singing) (2) (See Note on p. 214)	
Music 5 Harmony	5	Music 6 Harmony	5
Music 55 Orchestral Instruments	2	Music 56 Orchestral Instruments	2
Music 1 Applied	2	Music 2 Applied	2
English 1 Intro. to Rhet.	3	English 2 Intro. to Lit.	3
Social Science	3	Social Science	3
Physical Education	1	Physical Education	11
	<u>16</u>		<u>16</u>

SOPHOMORE YEAR

Music 51 Applied	2	Music 52 Applied	2
Music 61 Music History	3	Music 62 Music History	3
Music 95 Counterpoint	3	Music 96 Counterpoint	3
Ensemble	1	Ensemble	1
Mathematics or Science	3	Mathematics or Science	3
Modern Language Elective	3	Modern Language Elective	3
Physical Education	1	Physical Education	1
	<u>16</u>		<u>16</u>

COLLEGE OF FINE ARTS

JUNIOR YEAR

First Semester		Second Semester	
Music 101 Applied	2	Music 102 Applied	2
Music 109 Form and Analysis	2	Music 110 Form and Analysis	2
Music 153 Orchestration	2	Music 154 Orchestration	2
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
Modern Language Electives	3	Modern Language Elective	3
Other Electives	5	Other Electives	5
	17		17

SENIOR YEAR

Music 151 Applied	2	Music 152 Applied	2
Music 157 Choral Conducting	2	Music 158 Orchestral Conducting	2
Music 191 Composition	2	Music 192 Composition	2
Music 197 (Style Criticism)	2	Music 198 Style Criticism	2
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
English Elective	3	English Elective	3
Other Electives	3	Other Electives	3
	17		17

FIELD OF CONCENTRATION—APPLIED MUSIC (INSTRUMENTAL)

FRESHMAN YEAR

Music 1 Applied	4	Music 2 Applied	4
Music 3 Sight Singing (2) (See Note on p. 214)		Music 4 Sight Singing (2) (See Note on p. 214)	
Music 5 Harmony	5	Music 6 Harmony	5
Music 49 Piano Repertory	0	Music 50 Piano Repertory	0
Music 55 Orchestral Instruments	2	Music 56 Orchestral Instruments	2
Ensemble	1	Ensemble	1
English 1 Intro. to Rhet.	3	English 2 Intro. to Lit.	3
Physical Education	1	Physical Education	1
	16		16

SOPHOMORE YEAR

Music 51 Applied	2	Music 52 Applied	2
Music 61 History of Music	3	Music 62 History of Music	3
Music 95 Counterpoint	3	Music 96 Counterpoint	3
Ensemble	1	Ensemble	1
Modern Language Elective	3	Modern Language Elective	3
Social Science	3	Social Science	3
Physical Education	1	Physical Education	1
	16		16

JUNIOR YEAR

Music 101 Major Instrument	4	Music 102 Major Instrument	4
Music 109 Form and Analysis	2	Music 110 Form and Analysis	2
Music 119 Minor Instrument	2	Music 120 Minor Instrument	2
Ensemble	1	Ensemble	1
Modern Language Elective	3	Modern Language Elective	3
Mathematics or Science	3	Mathematics or Science	3
Other Electives	2	Other Electives	2
	17		17

COLLEGE OF FINE ARTS

SENIOR YEAR

First Semester		Second Semester	
Music 151 Applied	4	Music 152 Applied	4
Music 157 Choral Conducting	2	Music 158 Orchestral Conducting	2
Music 197 Style Criticism	2	Music 198 Style Criticism	2
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
English Elective	3	English Elective	3
Others Electives	3	Others Electives	3
	<hr/>		<hr/>
	17		17

FIELD OF CONCENTRATION—APPLIED MUSIC (VOCAL)

FRESHMAN YEAR

Music 1 Voice	4	Music 2 Voice	4
Music 3 Sight Singing (2) (See Note on p. 214)		Music 4 Sight Singing (2) (See Note on p. 214)	
Music 5 Harmony	5	Music 6 Harmony	5
Music 19, Piano	2	Music 20 Piano	2
Music 47 Vocal Repertory	0	Music 48 Vocal Repertory	0
Ensemble	1	Ensemble	1
English 1 Intro. to Rhet.	3	English 2 Intro. to Lit.	3
Physical Education	1	Physical Education	1
	<hr/>		<hr/>
	16		16

SOPHOMORE YEAR

Music 51 Voice	4	Music 52 Voice	4
Music 61 History of Music	3	Music 62 History of Music	3
Music 69 Piano	2	Music 70 Piano	2
Music 95 Counterpoint	3	Music 96 Counterpoint	3
Ensemble	1	Ensemble	1
French or German	3	French or German	3
Physical Education	1	Physical Education	1
	<hr/>		<hr/>
	17		17

JUNIOR YEAR

Music 101 Voice	4	Music 102 Voice	4
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
English Elective	3	English Elective	3
French or German	3	French or German	3
Social Science	3	Social Science	3
	<hr/>		<hr/>
	16		16

SENIOR YEAR

Music 109 Form and Analysis	2	Music 110 Form and Analysis	2
Music 151 Voice	4	Music 152 Voice	4
Music 157 Choral Conducting	2	Music 158 Orchestral Conducting	2
Music 187 Vocal Coaching	1	Music 188 Vocal Coaching	1
Music 197 Style Criticism	2	Music 198 Style Criticism	2
Mathematics or Science	3	Mathematics or Science	3
Other Electives	3	Other Electives	3
	<hr/>		<hr/>
	17		17

COLLEGE OF FINE ARTS

FIELD OF CONCENTRATION—MUSIC LITERATURE

FRESHMAN YEAR

First Semester		Second Semester	
Music 1 Applied	2	Music 2 Applied	2
Music 3 Sight Singing (2) (See Note on p. 214)		Music 4 Sight Singing (2) (See Note on p. 214)	
Music 5 Harmony	5	Music 6 Harmony	5
Ensemble	1	Ensemble	1
English 1 Intro. to Rhet.	3	English 2 Intro. to Lit.	3
Social Science	3	Social Science	3
Physical Education	1	Physical Education	1
	<hr/> 15		<hr/> 15

SOPHOMORE YEAR

Music 51 Applied	2	Music 52 Applied	2
Music 55 Orchestral Instruments	2	Music 56 Orchestral Instruments	2
Music 61 History of Music	3	Music 62 History of Music	3
Music 95 Counterpoint	3	Music 96 Counterpoint	3
Mathematics or Science	3	Mathematics or Science	3
Modern Language Elective	3	Modern Language Elective	3
Physical Education	1	Physical Education	1
	<hr/> 17		<hr/> 17

JUNIOR YEAR

Music 101 Applied	2	Music 102 Applied	2
Music 109 Form and Analysis	2	Music 110 Form and Analysis	2
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
Modern Language Elective	3	Modern Language Elective	3
Other Electives	7	Other Electives	7
	<hr/> 17		<hr/> 17

SENIOR YEAR

Music 151 Applied	2	Music 152 Applied	2
Music 157 Choral Conducting	2	Music 158 Orchestral Conducting	2
Music 197 Style Criticism	2	Music 198 Style Criticism	2
Historical Music Literature	2	Historical Music Literature	2
Ensemble	1	Ensemble	1
English Elective	3	English Elective	3
Other Electives	5	Other Electives	5
	<hr/> 17		<hr/> 17

Students are advised to choose a part of their electives from fields such as English or foreign language literature, social science, mathematics, science, and art, to the end of obtaining a more liberal education. Before graduation every candidate for the Bachelor's degree must demonstrate a degree of proficiency at the piano equivalent to that expected of students completing Music 2 (one full year of piano).

NOTE: Music 3 and/or 4 will be required of all music students who fail to pass the entrance examination in elementary theory, in which case readjustment of curriculum will be necessary in order that elementary theory be taken before Music 5 and 6 (Harmony).

COLLEGE OF FINE ARTS

COMBINED CURRICULUM IN FINE ARTS

(Leading to the degree of Bachelor of Fine Arts.) Hours required for graduation, 132, including: -

- (a) Group requirements as listed under College of Arts and Sciences, or under the College of Education.
- (b) Four semester hours of physical education
- (c) Major study or its equivalent in Art, Dramatic Art, or Music; and
- (d) Minor study or its equivalent in Art, Dramatic Art, or Music (other than major field).

CERTIFICATION IN FINE ARTS

Any student wishing to qualify for teaching certification while working toward a B.F.A. in Art may do so by taking all required education courses, with the exception of Practice Teaching and Teaching Methods, as part of their electives toward graduation. These latter courses must be taken in excess of courses taken as credit toward graduation.

(New Mexico state requirements are approximately 18 hours of prescribed education courses.)

PRE-OCCUPATIONAL THERAPY

Occupational Therapy is described as "any physical or mental activity prescribed by the physician and supervised by the trained therapist to aid in recovery from disease or injury."

The training of students in these activities, which consist of manual skills, educational pursuits, and pre-vocation training, as well as training in courses that are primarily directed towards the medical functions involved are the two main purposes of the pre-occupational therapy courses.

PRE-PROFESSIONAL. The Pre-Occupational Therapy course at the University of New Mexico covers a period of two years. The University offers the following curriculum to equip the student with the basic academic and laboratory courses which will provide him with those prerequisites sought in the records of students applying to the accredited schools of Occupational Therapy. He will normally transfer to accredited schools of Occupational Therapy at the sophomore or junior level, although it is possible to enter these schools as an advanced standing student already possessing a degree.

The Philadelphia School of Occupational Therapy has established three or four scholarships a year for students from the University of New Mexico who have earned a degree in Fine Arts

COLLEGE OF FINE ARTS

(a degree in Education with a major in a Fine Arts field is also acceptable).

CURRICULUM. The following curriculum for freshmen in pre-Occupational Therapy is suggested:

First Semester		Second Semester	
Psych. 1L General	3	Psych. 2L General	3
Biology 1L General	4	Biology 2L General	4
Art 7, 8 General Crafts	4	Art 57 Woodwork, leather, tin, etc.	2
Chemistry 41L (Fundamentals inorganic and organic, standard requirement for modern work in P. E., H. E., and nursing)	5	Chem. 42L (Continuation)	5
		P. E. 64 First Aid	2

The following courses on pre-Occupational Therapy are also offered:

Educa. 115 (Educational and Vocational Guidance)	3
Biology 36 (Human Physiology)	3
Biology 93L (General Bacteriology)	4
Art 3, 4 (Creative Design) —per sem.	2
Art 27 (Lettering)	2
Psych. 196 (Physiological Psychology—correlation of behavior and structure with emphasis on the nervous system)	3
P. E. 104L (Human Anatomy and Kinesiology)	4
Psych. 101 (Social Psychology—behavior of individuals as influenced by human beings)	3
Psych. 103 (Abnormal Psychology)	3
Psych. 187 (Child Psychology)	3
Art 77 and 78 (General Commercial Art) per sem.	2
Art 157—(Latin-American Crafts) (Weaving textiles) per sem.	3
Home Economics 104 (Nutrition)	2
Sociology 72 (Social Pathology—diagnosis, remedial and prevention programs with functional failures of society)	3
Art 87, 88 (Photography) per sem.	2

SPECIALIZED OR PROFESSIONAL SCHOOLS. The curriculum prescribed by the American Medical Association sets up a minimum course length of 25 full-time calendar months totalling 60 semester hours. This curriculum includes a minimum of 30 hours devoted to theoretical training, 30 semester hours of technical training, and 9 months of clinical affiliations. The training schools divide this curriculum into 3 academic years, and examination of the various approved schools' catalogs will reveal amplifications of, and additions to, these minimum course requirements.

Registration of Occupational Therapists is controlled by the American Occupational Therapy Association and is the professional certification of therapists, designating them as qualified to practice. O.T.R. after the name of a therapist is comparable to an R.N. or an M.D. Eligibility to the Registry is met by graduation from an accredited school and entrance is by examination.

For further information about the Pre-Occupational Therapy

COLLEGE OF FINE ARTS

Program at the University of New Mexico, write: Mela Sedillo Koeber, Director, Pre-Occupational Therapy Program, Art Department, The University of New Mexico, Albuquerque.

COLLEGE OF FINE ARTS

DEPARTMENTS OF INSTRUCTION

Courses numbering from 1-49, lower division, normally open to freshmen; from 50-99, lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors, and graduates; 200-400, open to graduates only. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee.

Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr—course offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; *—course (or courses) open to General College students; ()—semester hours' credit, credit hours separated by a dash (1-3) indicate variable credit in the course; []—former course number or title; ‡—may be repeated without duplication of credit to the limit of 8 hours' credit for students of the College of Fine Arts, 4 hours for others.

A schedule of courses offered, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

ART (PAINTING AND DESIGN)

Professors Adams, Chapman, Douglass; Associate Professors Davey, Jonson, Koeber; Assistant Professors Haas (Head), Tatschl, Todd; Instructor Montenegro; Teaching Assistant Martin; Graduate Fellows Denniston, Watkins.

MAJOR STUDY

(For College of Education, see Art Education curriculum.)

(This major is otherwise limited to Combined Curriculum in the College of Fine Arts and, also, does not apply to candidates for the B.F.A. in Art.)

41 hours, including: Art 1, 2, 3, 4, 5, 6, 7, 8; 6 hours additional in Group I courses; 5 hours additional in Group II courses; 4 hours additional in Group III courses; with a total of 12 hours in courses numbered over 100. One summer in the Field School of Art in Taos is recommended.

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MINOR STUDY

20 hours in a field of particular interest, such as Commercial Art, Sculpture, Painting, Photography, etc. The student shall satisfy the following requirements: (1) Prerequisite courses shall be taken; (2) The advice of an Art adviser to be appointed by the department shall be followed and the advised program approved by the Dean of the student's college.

FIELD SESSIONS

Each summer, field sessions in art are normally conducted at Taos and many Group I courses are offered.

PRE-OCCUPATIONAL THERAPY

See curriculum on p. 216.

MATERIALS, STUDENT WORK

Students enrolling in art courses furnish their own materials, except certain studio equipment provided by the University.

All work when completed is under the control of the Department until after the annual exhibition of student work. *Each student* may be required to leave with the Department *one or two* pieces of original work to be added to the permanent collection.

CREDIT.

For one semester hour of credit it is expected that the student do approximately 48 clock hours of work (3 clock hours per week through the semester), which includes time spent in recitation, preparation, and laboratory. If full laboratory hours are not assigned in the schedule, they will be arranged by the instructor.

- *1. GENERAL ART HISTORY. (2) (Group III) Introductory study of the architecture, painting, sculpture and crafts of the prehistoric, ancient, and medieval periods. Todd
- *2. GENERAL ART HISTORY. (2) (Group III) Continuation of Art
1. Art of the periods from the Renaissance up to date. Todd
- *3, 4. CREATIVE DESIGN. (2, 2) (Group I) Introduction to line, color, form and composition. Haas, Koeber, Tatschl, Todd, Montenegro, Martin
- *5, 6. BEGINNING DRAWING. (2, 2) (Group I) Introduction to the methods and theories of drawing and painting. Adams, Douglas, Tatschl, Montenegro
- *7, 8. GENERAL CRAFTS. (2, 2) (Group II) Introduction to the processes involved in crafts. Art 3 and 4 prerequisites or taken concurrently. Koeber, Todd

COLLEGE OF FINE ARTS

- *21. ART APPRECIATION. (1) (Group III) Introduction to painting and design, applied art, graphic art, etc. (A course for general art information.) No prerequisites. Staff
- *27. MANUSCRIPT LETTERING. (2) (Group II) The essential form of the Roman alphabet and its derivatives as applied to calligraphy. No prerequisite. Douglass
- *28. COMMERCIAL LETTERING. (2) (Group II) Creative lettering with the brush and pen as used in advertising. No prerequisites. Douglass
- *31. INDIAN ART. (2) (Group III) Development and symbolism of the decorative art of the Pueblos and other tribes. No prerequisite. Chapman
- *37. BEGINNING CERAMICS. (2) (Group II) Study of ceramics, including practice in casting, shaping, wheel throwing, firing and glazing. No prerequisite. Todd, Tatschl
42. HISTORY OF ARCHITECTURE. (2) Survey of architectural forms and structural design of the period from pre-historic times to the beginning of the Renaissance.
- *45, 46. SKETCH. (2, 2) (Group I) Life sketching in choice of media. No prerequisite. Staff
- *52. ART HISTORY-RENAISSANCE. (2) (Group III) Analytical study of painters and painting of the Renaissance period. Prerequisites: 1, 2. Haas
- *53. BEGINNING PAINTING & DESIGN. (2) (Group I) Introductory study of the painter's craft. Prerequisites: 3, 4. Haas, Todd, Montenegro
- *55. DRAWING. (2) (Group I) Craftsmanship in drawing of life, cast and still life in various media. Prerequisites: 5, 6. Adams, Douglass, Tatschl
- *56. DRAWING. (2) (Group I) Continuation of Art 55. Prerequisites: 5, 6. Adams, Douglass, Tatschl
- *57. CRAFTS. (2) (Group II) General crafts with emphasis on the use of native materials of New Mexico. Research in Spanish design and Latin American methods. Of interest to teachers. Prerequisites: 3, 4, 7, 8. Koeber, Todd
61. HISTORY OF ARCHITECTURE. (2) Survey of architectural forms and structural design of the period from the beginning of the Renaissance to modern times.

COLLEGE OF FINE ARTS

62. HISTORY OF ARCHITECTURE. (2) Survey of architectural forms and structural design covering the modern period and community planning.

*63, 64. PAINTING & DESIGN. (2, 2) (Group I) Painting in choice of media, life, portrait and still life. Prerequisites: 3, 4, 5, 6.
Adams, Davey, Jonson

*65, 66. LIFE DRAWING. (2, 2) (Group I) Study of drawing from the human figure. Prerequisites: 5, 6. Adams,
Davey, Jonson, Martin

*67. GRAPHIC ART. (2) (Group II) Techniques and methods in lithography, etching and woodcuts. Prerequisites: 3, 4, 5, 6, and 55 or 56. Tatschl

*72. HISTORY OF SCULPTURE. (2) (Group III) An analysis of the development of sculpture—its media and approaches. Prerequisites: 1, 2. Todd, Tatschl

*77, 78. GENERAL COMMERCIAL ART. (2, 2) (Group II) Art and layout in advertising. Various techniques and methods of reproduction. Optional work in cartooning. Prerequisites: 3, 4, 5, 6, and 27 or 28. Douglass

*79. SCULPTURE. (2) (Group I) Technique, executed in various media of sculpture. Prerequisites: 3, 4, 5, 6. Tatschl

*87, 88. PHOTOGRAPHY. (2, 2) (Group II) Elementary photography including shooting, dark room procedure and photographic composition. (A camera is necessary for this course.) No prerequisite. Haas

*89. SCULPTURE. (2) (Group I) Technique, executed in various media of sculpture. Prerequisites: 3, 4, 5, 6; 79 not a prerequisite. Tatschl

*95, 96. SKETCH CLASS. (2) (Group I) Life sketching in choice of media. No prerequisite. Staff

103, 104. LANDSCAPE PAINTING. (2) (Group I) Landscape painting in watercolor, Gouache or oils. Prerequisites: 53 and 63 or 64. Haas, Douglass, Todd

107. COSTUME DESIGN. (2) (Group II) Designing of costumes and fashion illustration. Prerequisites: 3, 4, 5. Staff

113, 114. LANDSCAPE PAINTING. (2, 2) (Group I) Landscape painting in watercolor, Gouache, or oils. Prerequisites: 53 and 63 or 64. Douglass, Haas, Todd

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- 127, 128. CRAFTS. (3, 3) (Group II) Crafts with an emphasis on those typical of the Southwest and the Western Hemisphere. Prerequisite: 57. Todd, Koeber
132. INDIAN ART. (2) (Group III) Prerequisite: 31. Chapman
137. CERAMICS. (2) (Group II) Continuation of Art 37. Todd, Tatschl
141. ART OF THE AMERICAS. [History of Modern Art] (2) (Group III) Survey and discussion of art in the Western Hemisphere. Prerequisites: 1, 2. Koeber, Haas
- 147, 148. CRAFTS. (3, 3) (Group II) Crafts with an emphasis on those typical of the Southwest and the Western Hemisphere. Prerequisite: 56. Koeber, Todd
152. HISTORY OF MODERN EUROPEAN ART. (2) (Group III) Survey and discussion of art in Europe from the 17th century up to the present day. Prerequisites: 1, 2. Koeber, Todd
154. MATERIALS & MEDIA. (3) (Group I) Experimentation in the various media of painting, including tempera, mixed technique, Gouache, etc. Prerequisites: 53 and 63 or 64. Haas
- 155, 156. ADVANCED LIFE DRAWING. (3, 3) (Group I) Prerequisites: 56 and 65 or 66. Adams, Davey, Jonson
- 157, 158. CRAFTS. (3, 3) (Group II) Crafts with an emphasis on those typical of the Southwest and the Western Hemisphere. Prerequisites: 56 or 58. Koeber, Todd
159. ADVANCED SCULPTURE. (3) (Group I) Prerequisites: 79 or 89. Tatschl
161. HISTORY OF ORIENTAL ART. (2) (Group III) History of Oriental art from its inception to present day. No prerequisite. Haas
- 163, 164. ADVANCED PAINTING & DESIGN. (3, 3) (Group I) Prerequisites: 53, 63 or 64. Jonson
- 165, 166. ADVANCED LIFE DRAWING. (3, 3) (Group I) Prerequisites: 56 and 65 or 66. Adams, Davey, Jonson
167. GRAPHIC ARTS. (2) (Group II) Techniques and methods of etching, lithography and woodcut. Prerequisite: 67. Tatschl
169. ADVANCED SCULPTURE. (3) (Group I) Prerequisites: 79 or 89. Tatschl
- 173, 174. ADVANCED PAINTING & DESIGN. (3, 3) (Group I) Prerequisites: 53, 63 or 64. Davey

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- 177, 178. COMMERCIAL ART PROBLEMS. (3, 3) (Group I) Second year commercial art. Prerequisites: 77, 78. Douglass
179. ADVANCED SCULPTURE. (3) (Group I) Prerequisite: 79 or 89. Tatschl
- 183, 184. PAINTING & DESIGN. (3, 3) (Group I) Prerequisites: 53 and 63 or 64. Adams
- 187, 188. APPLIED PHOTOGRAPHY. (3, 3) (Group II) Including news, commercial and color. Prerequisites: 87, 88. Haas
189. ADVANCED SCULPTURE. (3) (Group I) Prerequisite: 79 or 89. Tatschl
192. CONTEMPORARY MEXICAN PAINTERS. (2) (Group III) Lectures and discussions on the main figures of the art movement in Mexico. No prerequisite. Koeber
199. SPECIAL PROBLEMS. (2 per semester to a maximum of 8) (Group I, II, III) Open to juniors, seniors and graduates only. Staff
- 251, 252. HISTORY OF ART. (2, 2) (Group III) A factual survey applied to the field of art. Haas
- 291, 292. SEMINAR. (2, 2) (Group III) The applied study of historical art periods through application, criticism and analysis. Graduate Staff
299. PROBLEMS. (2 per semester to a maximum of 6) (Group I, II, III). Graduate Staff
300. THESIS. (6, should be taken over two semesters). Graduate Staff

DRAMATIC ART

Associate Professor Snapp (Head); Instructors Blackburn, Miller.

MAJOR STUDY

College of Fine Arts: see Curriculum on p. 210.

For the purpose of combined curriculum in Fine Arts: 48 hours including Drama 1, 2, 10, 11, 29, 30, 75, 76, 85, 86, 89, 90, plus 12 hours to be chosen from Drama 135, 175, and 185. See also group requirements of College of Arts and Sciences and College of Education.

College of Education: 1, 2, 10, 11, 29, 30, 75, 76, 89, 90, 161, and English 141. Total 36 hours.

MINOR STUDY

1, 2, 10, 11, 29, 30, 89, 90, English 141. Total 27 hrs.

- *1, 2. FUNDAMENTALS OF SPEECH AND READING. (3, 3) The preparation and delivery of original and practical extempore speeches,

COLLEGE OF FINE ARTS

including a study of rhetorical principles, audience psychology, methods of presentation, and the basic principles of the physiology of speech and voice. Staff

- *10, 11. THEATRE HISTORY. (3, 3) The development of dramatic art from the Greeks to the present day, with a study of historical backgrounds of dramatic thought and with special emphasis on production techniques. Miller
- 29, 30. STAGE CRAFT. (3, 3) Methods, materials, and techniques of stage carpentry. Students construct scenery for season's productions. 3 lectures, 3 hrs. lab. Miller
40. MAKE-UP. (3) A practical course on the art of make-up for the stage, covering both basic principles and specific techniques. Simon
51. RADIO DRAMA PRODUCTION. (3) Adapting, editing, and producing dramatic radio programs; directing and production techniques. Radio workshop. Staff
- 60, 61. PLAY WRITING. (2, 2) Writing, reading and analysis of student plays is supplemented by a critical examination of their playing qualities as revealed in laboratory performance before invited groups. Snapp
- 75, 76. TECHNICAL PRODUCTION. (3, 3) Analysis, planning, and construction of stage scenery and properties. Study of the theatre plant. Prerequisite: minimum of one semester of stage craft. Miller
- 85, 86. ACTING TECHNIQUE. (3, 3) Methods of interpretation for both modern and historical productions. Prerequisites: 1, 2. Snapp
- 89, 90. REHEARSAL AND PERFORMANCE. (3, 3) Elementary techniques of both actor and director. Analysis of plays for methods of interpretation in production. Snapp
- 135, 136. STAGE LIGHTING. (3, 3) Theory and practice of present-day methods of lighting the stage. Simon
140. ADVANCED TECHNICAL PRODUCTION. (3) Theater architecture and theater planning, sight lines, acoustics, equipment, and installations. Advanced problems of the scene technician. Miller
150. THEATER ORGANIZATION AND MANAGEMENT. (3) A practical and correlated study of the University theater, the civic and community, and the professional theater. Principles of production, organization, programming, house management, budgets, advertising and box office. Miller

COLLEGE OF FINE ARTS

- 161, 162. **ADVANCED REHEARSAL AND PERFORMANCE.** (3, 3) Detailed study of directing techniques. Analysis of scripts. Rehearsal by students, under supervision, of one-act plays for class presentation. Prerequisite: 89, 90. Snapp
- 175, 176. **SCENE DESIGN.** (3, 3) Materials, techniques, and methods of scene design and scene painting. Student designs compete for season's productions. Simon
- 185, 186. **COSTUME DESIGN.** (3, 3) Historic, modern, and stylized costume and how to design it for the stage. Students execute costumes for season's productions. Simon
- 197, 198. **PROBLEMS.** (3, 3) Advanced work in any of the following fields: directing, lighting, or scene design. Prerequisites: the student must have completed, or give concrete evidence of mastery of all preliminary courses offered in his chosen field. Staff

MUSIC

Professors Robb (Dean), Miller; Associate Professors Frederick, Keller, Robert; Assistant Professors Ancona, Firlie, Kunkel, Redman, Schoenfeld; Instructors Burg, Dawson, Hines, Snow.

MAJOR STUDY

For purposes of combined curriculum in Fine Arts: 42 hours including 5, 6 and 39, 40; 16 hours of applied music and 4 hours of ensemble music. See also curricula under College of Fine Arts and College of Education.

MINOR STUDY

College of Arts and Sciences: 16 hours of theoretical courses (including 5, 6) and 4 hours of applied music. College of Education: see curriculum on p. 188. For purposes of combined curriculum in Fine Arts: 24 hours including 39, 40, 5 and 6, and 4 hours of applied music and 2 hours of ensemble music.

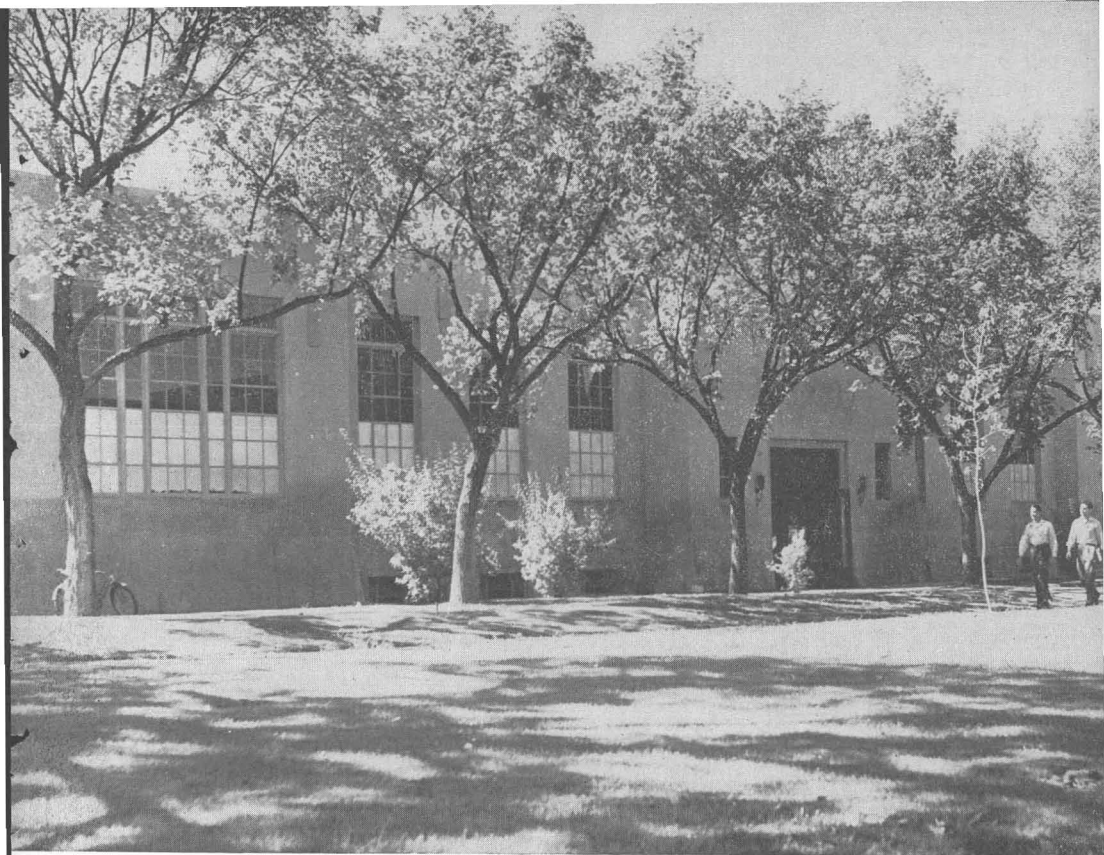
RECITALS AND PUBLIC PERFORMANCE

Music majors and minors are required to attend all student and faculty recitals, and to participate in certain specified recitals and public performances. Loss of credit may result from failure to observe either of these requirements.

Students are not to perform in public without the consent of the Department.

ENSEMBLE

One credit hour represents from 2 to 4 hours a week of rehearsal, plus necessary preparation.



FINE ARTS BUILDING

COLLEGE OF FINE ARTS

INSTRUMENTAL ENSEMBLE

*27, 28. WIND ENSEMBLE. (1, 1) Various ensembles of solo wind instruments will be formed. Enrollment limited. Credit toward ensemble requirement. Kunkel

†*37, 38. PIANO ENSEMBLE. (1, 1) Study and performance of literature for two or more pianos; selected from all periods including the contemporary. Open to qualified piano students with consent of instructor. Special fee. Robert, Ancona, and Staff

†*41, 42. UNIVERSITY BAND. (1, 1) Study and performance of marches and concert band literature. Appearance and performance in uniform at football games and other similar University functions. Kunkel

*127, 128. WIND ENSEMBLE. (1, 1) See description of 27, 28. Kunkel

†131, 132. CHAMBER MUSIC. (1, 1) The practice, performance, and study of chamber music in various ensemble groups. Frederick

†*137, 138. ADVANCED PIANO ENSEMBLE. (1, 1) See description of 37, 38. Robert, Ancona, Staff

†*141, 142. UNIVERSITY BAND. (1, 1) See description of 41, 42. Prerequisite: two years in 41, 42. Kunkel

VOCAL ENSEMBLE

The various vocal ensemble groups listed below take up the study and performance of sacred and secular compositions covering a wide variety of styles. Concert and radio appearances required; Participation in public functions encouraged as a community service.

†*21, 22. MEN'S GLEE CLUB. (1, 1) Firle

†*23, 24. WOMEN'S GLEE CLUB. (1, 1) Firle

25, 26. VOCAL QUARTET. (1, 1) Ensembles of solo voices, such as men's, women's, and mixed quartets and trios, will be formed. Enrollment limited. Credit toward ensemble requirement. Firle, Redman, Snow

†*43, 44. UNIVERSITY MIXED CHORUS. (1, 1) Firle

†*121, 122. MEN'S GLEE CLUB. (1, 1) Prerequisite: two years in 21, 22. Firle

†*123, 124. WOMEN'S GLEE CLUB. (1, 1) Prerequisite: two years in 23, 24. Firle

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125, 126. VOCAL QUARTET. (1, 1) See description of 25, 26.
Firlie, Redman, Snow

143, 144. UNIVERSITY MIXED CHORUS. (1, 1) Prerequisite: two
years in 43, 44. Firlie

THEORY

*3, 4. SIGHT SINGING AND EAR TRAINING. (2, 2) Notation, scales, intervals, key signatures, triads, sight reading, ear training, simple dictation. Required of all music students who fail to pass the entrance examination in elementary theory. Redman

*5, 6. HARMONY. (5, 5) An applied study of traditional harmony in advanced sight singing, ear training, dictation, written and keyboard harmony, and harmonic analysis. Includes the study of chord construction, chord progression, nonharmonic tones, chromatic harmony, and modulation. Prerequisites: 3, 4, or equivalent. Robert, Frederick, Schoenfeld

*95, 96. COUNTERPOINT. (3, 3) 95 deals with the analysis and technique of writing in the contrapuntal forms and styles of the 16th Century. 96 deals with the analysis and techniques of writing in the contrapuntal forms and styles of the period of Bach. Some attention is also given to the study of 20th-Century contrapuntal idioms. Prerequisites: 3, 4, or equivalent. Frederick

109, 110. [159, 160]. FORM AND ANALYSIS. (2, 2) Analysis of the structural, harmonic and contrapuntal elements of music from the primary forms through the symphony and concerto. Study of phonograph recordings and scores. Prerequisites: 95, 96.
Keller

153, 154. ORCHESTRATION. (2, 2) Properties and limitations of orchestral instruments; the orchestral score; detailed score study of orchestral techniques from the past and present. Scoring of complete works; carrying through to completion of projects for actual performance. Prerequisites: 5, 6, 55, 56. Kunkel

191, 192. COMPOSITION. (2, 2) Creative work in original composition, primarily in the smaller homophonic forms, but also including some contrapuntal writing. Prerequisites: 5, 6, 95, 96, 159, 160. Robb

205, 206. ADVANCED COMPOSITION. (2, 2) Individual guidance in composing for quartet, symphony, and vocal ensemble; survey of techniques in appropriate fields. Completion of one or more major works for public performance. Robb, Keller

COLLEGE OF FINE ARTS

207, 208. ADVANCED COUNTERPOINT. (2, 2) Advanced studies in applied counterpoint, canon and fugue. Frederick

209, 210. ADVANCED ORCHESTRATION. (2, 2) Applied study of the resources of the modern orchestra. Frederick

CONDUCTING

157. CHORAL CONDUCTING. (2) The technique of organizing and conducting choral groups for church and school. Prerequisites: 5, 6. Firlie

158. ORCHESTRAL CONDUCTING AND SCORE READING. (2) The technique of conducting orchestras and studying orchestral scores. Prerequisites: 5, 6, 109, 110. Frederick

HISTORY AND APPRECIATION

*39, 40. MUSIC APPRECIATION. (2, 2) Designed for the general student who wishes to supplement his academic training with an introduction to music literature. Listening periods are provided. Ancona

*61, 62. [35, 36] SURVEY OF MUSIC HISTORY. (3, 3) The history of music from ancient Greece to the present. Emphasis is placed upon the development of forms, styles, schools and principal composers, and upon the study of musical scores and phonograph records. Music 61: from antiquity through the Baroque; Music 62: from the Classical period through the contemporary scene. Students are required to attend from three to five listening periods each week of approximately one hour each. Prerequisites: 3, 4, or equivalent. Miller

HISTORICAL MUSIC LITERATURE

Prerequisites: 61, 62.

Students may be required to attend listening periods of one to three hours each week at the option of the instructor.

COMPOSERS

82. LUDWIG VAN BEETHOVEN. [Life and Works of Ludwig Van Beethoven] (2) A comprehensive study of the forms, styles, and historical significance of Beethoven's music. Staff

181. JOHANN SEBASTIAN BACH [Music of Johann Sebastian Bach] (2) A comprehensive study of the forms, styles, and historical significance of Bach's music. (Not offered in 1948-49.)

Schoenfeld

COLLEGE OF FINE ARTS

PERIODS

84. THE ROMANTIC PERIOD. [Nineteenth Century Romanticism] (2) A comprehensive study of the musical forms, styles, principal composers, and general historical and cultural background of the 19th century. Staff
161. THE BAROQUE. (2) A comprehensive study of the musical forms, styles, schools, principal composers, and general historical background of the period roughly from 1600 to 1750. Miller
172. CONTEMPORARY MUSIC LITERATURE. [Comparative Study of Contemporary Music Literature] (2) Stylistic tendencies of the 20th Century and the study of representative works of the most important composers. Robb
180. THE RENAISSANCE. [Palestrina, Victoria, Des Pres, Their Predecessors and Contemporaries] (2) A comprehensive study of the musical forms, styles, schools, principal composers, and general historical and cultural background of the period roughly from 1450 to 1600. (Not offered in 1948-49.)

SCHOOLS, NATIONALITIES, REGIONS

93. FOLK MUSIC OF THE SOUTHWEST. (2) A detailed study of examples of the indigenous Anglo-American, Spanish-American, and Indian folk music of the Southwest. Robb
193. COMPOSERS OF THE UNITED STATES. (2) A study of creative trends in the art music of the United States from the 18th century to the present. Special emphasis upon the style and contributions of the most important composers. (Not offered in 1948-49.) Robb
194. FRENCH COMPOSERS. (2) A study of the characteristic musical traits of French music of the 19th and 20th centuries, with special emphasis upon the works and contributions of certain prominent French composers. Robb

MEDIA

83. EIGHTEENTH AND NINETEENTH-CENTURY OPERA. (2) A survey of operatic developments in style and form in Italy, France, Germany, and Russia. Scores and recordings are provided for special detailed study of certain operas. Robb
175. SYMPHONIC LITERATURE. (2) A survey of the developments in orchestral music from Bach to the present. Certain important and representative works will be studied in detail. Trends of form and style are observed. Assignments in listening and score study will be made. (Not offered in 1948-49.) Miller

COLLEGE OF FINE ARTS

176. CHORAL LITERATURE. (2) A survey of the principal developments in choral music from the early Renaissance to the present. Certain important and representative works will be studied in detail. Trends of form and style are observed. Assignments in listening and score study will be made. (Not offered in 1948-49.) Schoenfeld
178. THE HISTORY OF THE STRING QUARTET. (2) A survey of the field of string quartet music from Haydn to the present. Attention will be paid to formal and stylistic developments. Assignments in listening and score study will be made. Miller

MUSICOLOGY

171. INTRODUCTION TO MUSICOLOGY. (2) A survey of the fields of musical research. Attention given to bibliographical methods, examination of important reference works in music, periodical literature, important musicological works, editions and collections. Emphasis upon historical musicology. Miller
- 197, 198. SYSTEMATIC STYLE CRITICISM. (2, 2) The technical approach to the analysis of musical elements; application of technique to representative music of historical periods, schools, media, and individual composers. Miller
- 203, 204. SEMINAR IN MUSICOLOGY. (2, 2) Individual problems in research and documentary examination of the entire field. Miller
- 251, 252. PROBLEMS IN MUSIC HISTORY. (2, 2) One or more special problems in music history, selected by the student and approved by the instructor. Culmination of work represented by full-length written report by student. Miller
300. THESIS. (6) Robb, Miller, Keller

COACHING AND ACCOMPANYING

- 187, 188, 189, 190. VOCAL COACHING. (1 each semester). One half-hour of private instruction per week carries one hour of credit. Required of all senior voice students and open to juniors with consent of instructor. Credit will not be allowed for more than two semesters' work except by special written approval of the Head of the Department on recommendation of the instructor. Special fee. Robert
- 195, 196. ACCOMPANYING. (1, 1) One half-hour of private instruction per week carries one hour of credit. Students accompany other students in practice and at recitals as part of the requirement for receiving credit. Special fee. Robert

COLLEGE OF FINE ARTS

PEDAGOGY

- 45, 46. METHODS IN MUSIC APPRECIATION. (1, 1) Appropriate literature and its presentation to elementary school pupils; to junior and senior high school pupils. May be taken concurrently with 39 and 40 or subsequently. Ancona

APPLIED MUSIC (Private Instruction)

One half-hour lesson per week earns two hours' credit per semester. Additional fee. A student whose field of concentration is applied music is required to give a public recital in the junior year and another in the senior year. Students should consult the appropriate advisors before enrolling for applied music.

The Department offers degree courses for students electing the curricula in applied music, and also secondary courses for students desiring a cultural background in music. The secondary courses are open to beginners in applied music in all fields. The student may continue these courses through four years.

Students electing applied music as a field of concentration who have had no previous training in piano will be required to enroll in the secondary course in piano.

Students who have had previous training in piano will take a placement examination.

REPERTORY COURSES

- 47, 48. VOCAL REPERTORY. (0) One hour a week each semester; required of all voice majors. A survey of important and representative literature for solo voice. Staff
- 49, 50. PIANO REPERTORY. (0) One hour a week each semester; required of all piano majors. A survey of important and representative literature for piano. Staff

DEGREE COURSES

- 1, 2. FRESHMAN COURSE. (2-4 each semester)
- 51, 52. SOPHOMORE COURSE. (2-4 each semester)
- 101, 102. JUNIOR COURSE. (2-4 each semester)
- 151, 152. SENIOR COURSE. (2-4 each semester)
- 201, 202. GRADUATE COURSE. (2-4 each semester)

SECONDARY COURSES

- *19, 20. FRESHMAN COURSE. (2 each semester)
- *69, 70. SOPHOMORE COURSE. (2 each semester)
- 119, 120. JUNIOR COURSE. (2 each semester)

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169, 170. SENIOR COURSE. (2 each semester)

PIANO Ancona, Dawson, Hines, Keller, Robert, Schoenfeld

ORGAN (Students enrolling for organ are required to have a foundation in piano) Ancona

VIOLIN AND VIOLA Burg, Frederick

CELLO AND GUITAR Burg

WIND INSTRUMENTS Kunkel

VOICE Firlie, Redman

REQUIREMENTS IN THE FIELDS OF APPLIED MUSIC. PIANO.

Entrance requirements for Piano majors: an ability to play major and minor scales correctly in moderately rapid tempo, also broken chords in octave position in all keys; studies such as Czerny's School of Velocity; Bach, Little Preludes; a few Bach Two-Part Inventions and compositions corresponding in difficulty to Mozart, Sonata C major (K.545), Beethoven, Sonata Op. 49, No. 1, Schubert, Impromptu, Op. 142, No. 2, Scherzo in B flat.

At the end of the second year (Music 1, 2 and 51, 52) the student should have acquired a technique sufficient to play scales in parallel and contrary motion and in thirds, sixth, and tenths, and arpeggi and octaves in rapid tempo. He should have studied compositions of at least the following grades of difficulty: Bach, at least one complete French Suite; Beethoven, Sonatas or movements from Sonatas such as Op. 2, No. 1, Op. 10, No. 1, Op. 10 No. 2, Op. 14, No. 2; Haydn, Sonata E flat, No. 3; Mozart, Sonata F Major (K.332), Fantasia in D minor; Mendelssohn, Song Without Words; Chopin, Polanaise C sharp minor, Valse in A minor; Schumann, Novelette, Op. 21, No. 1; and some compositions by standard modern composers. The student should demonstrate his ability to read at sight accompaniments and compositions of moderate difficulty.

At the end of the fourth year (Music 101, 102 and 151, 152), the candidate must have acquired the principles of tone production and velocity and their application to scales, arpeggi, chords, octaves, and double notes. He must have a repertory comprising the principal classics and romantic and modern compositions, such works, for example, as: Bach, several preludes and fugues from the Well-Tempered Clavichord, Italian Concerto, Chromatic Fantasia and Fugue, an English Suite or Partita; Mozart, Sonata A major (K.331), a concerto; Scarlatti, Sonatas; Beethoven, Sonatas such as Op. 31, No. 3, Op. 53, Op. 57; Schumann, Carnival; and the more difficult compositions of Brahms, Chopin, and Liszt; compositions by standard modern composers such as Debussy, Ravel, Rachmaninoff, Scriabin, Hindemith, Bartók, etc.

COLLEGE OF FINE ARTS

Candidates are required to give a junior and senior recital and they must have considerable experience in ensemble and as accompanists.

VIOLIN. Entrance requirements for Violin students: an ability to play etudes of the difficulty of the Kreutzer Etudes, up to 32, and the Rode or Kreutzer concerti. An elementary knowledge of the piano is desirable.

By the end of the second year the student should be able to play at least works corresponding in difficulty to the Viotti Concerto No. 22 or the Spohr Concerto No. 2.

By the end of the fourth year the student should be able to perform works such as the Mendelssohn E Minor Concerto, the Wieniawski Concerto in D minor, or the Bruch G Minor.

VOICE. To enter the four year degree course in voice a student must be able to sing standard songs in English, with good phrasing and musical intelligence shown.

1, 2. Emphasis is placed upon the skillful use of the breath, elimination of tension, and amplification of resonance. Songs suited to the capacity of the pupil are studied as follows:

Eight songs from Early Italian Songs and Airs or from Italian Anthology, Vols. I & II.

Three songs from "Bergerettes" by Weckerlin (for those who have had high school French).

Three songs in German by Schubert, Schumann, Brahms or other masters. (for students who have had German in high school).

For those who are not qualified to do group 2 & 3, six old English songs may be substituted.

Six songs by modern composers.

Four songs suitable to the individual voice.

Total—24 songs in freshman year.

51, 52.

Six additional songs from Early Italian Songs and Airs or from Italian Anthology, Vols. I & II.

Aria from Mozart operas.

Three recitatives and arias from the less difficult oratorios.

Eight songs by German or French composers (according to the language studied).

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Six songs by modern American composers.

Total—24 songs in sophomore year.

101, 102.

Four arias suited to the individual voice, from operas.

Four recitatives and arias suited to the individual voice from sacred oratorios.

Eight French songs of the Nineteenth and Twentieth Centuries.

Eight German songs from the Nineteenth and Twentieth Centuries.

Eight songs in English by modern composers.

Total—32.

Junior Recital

151, 152.

Four additional arias in Italian, German, French, or English.

Four additional arias from sacred oratorios.

Eight French songs of the Nineteenth and Twentieth Centuries.

Eight German songs from the Nineteenth and Twentieth Centuries.

Eight songs in English by modern composers.

Total—32.

Senior Recital.

A total repertoire of 112 songs should be completed by the end of the fourth year of voice study. A list of such repertoire should be compiled by each student of voice and turned in to the Head of the Voice Department and passed on by the music faculty before candidate shall receive his degree. Correct diction in English, Italian, French and German should be mastered during the study of the above repertoire. A poised stage manner and a pleasing personality should be thoroughly acquired, as a voice pupil is called on frequently to sing in music assemblies beginning with the freshman year.

OTHER FIELDS OF APPLIED MUSIC. Instruction in Applied Music is offered also in the following fields of instruments: Bassoon, Cello, Flute, Horn, Oboe, Organ, Percussion, Trombone, Trumpet, and Tuba. For requirements in these fields, see the instructor.

COLLEGE OF FINE ARTS

GROUP INSTRUCTION

*†55, 56. ORCHESTRAL INSTRUMENTS. (2, 2) Group instruction in the playing of woodwind, brass, and stringed instruments. Of special importance to the prospective instrumental teacher and conductor. Kunkel

†155, 156. ORCHESTRAL INSTRUMENTS. (2, 2) Continuation of 55, 56. Kunkel

**College of
PHARMACY**

COLLEGE OF PHARMACY

PHARMACY is the science which treats of medicinal substances. It embraces not only a knowledge of medicines and the art of preparing and dispensing them but also their identification, selection, preservation, combination, analysis, and standardization.

The purpose of the College of Pharmacy is to provide a thoroughly scientific foundation for the pursuit of the profession of pharmacy in all its branches; to prepare students not only to operate drug stores but to fit them as well for other phases of pharmaceutical activities—to become hospital pharmacists, pharmacists in the Army or Navy, state or federal service, to take up pharmaceutical manufacturing in its many phases, to engage in pharmaceutical research or teaching. The elements of the fundamental natural sciences, biology, chemistry, mathematics, and physics, must be studied and their principles understood before their applications to pharmacy can naturally be considered. For this reason students in pharmacy are required to pursue courses in these fundamental sciences, where they have the advantage of close association with students in other departments of the University.

A School of Pharmacy was first established in the University in 1894, but it functioned for only two years. Three students were granted the standard pharmacy degree of the time, Graduate in Pharmacy. The present College of Pharmacy was organized in the autumn of 1945, and instruction in pharmacy was initiated in the fall term of the same year.

The College of Pharmacy is an integral part of the University and is governed by the same general policy that characterizes that institution.

STANDARDS

Graduation from the College of Pharmacy meets the college requirements of the New Mexico State Board of Pharmacy for licensure as pharmacist. The College and its curriculum are partially and provisionally accredited by the American Council on Pharmaceutical Education, the official national accrediting agency in pharmaceutical education.

ADMISSION

The requirements for admission to the freshman class are the same as those for the College of Arts and Sciences, except that one and one-half units of algebra and one unit of geometry are required. It is particularly desirable that the preliminary preparation include

COLLEGE OF PHARMACY

physics, chemistry, botany, physiology, Latin, typing, and commercial arithmetic.

MAXIMUM NUMBER OF HOURS

At no time may students in the College of Pharmacy enroll for more than nineteen hours per semester including physical education (or military drill in the case of N.R.O.T.C. students).

SCHOLASTIC REGULATIONS

Students in the College of Pharmacy will be governed by the scholastic regulations given under "General Academic Regulations."

ADVANCED STANDING

The general requirements are those for the College of Arts and Sciences. In accordance with a ruling adopted by the American Association of Colleges of Pharmacy at the Dallas, Texas, meeting in 1937, any student entering a school or college of pharmacy with advanced standing is required to complete three full years of resident study for the degree of Bachelor of Science in Pharmacy, unless such advanced standing was earned in a school or college of pharmacy.

PHARMACIST REGISTRATION

Licensure as a pharmacist is under control of the New Mexico State Board of Pharmacy.

SCHOLARSHIPS AND LOANS

Scholarships and loans will be available to those who qualify. For information write to the Dean, College of Pharmacy.

ALL UNIVERSITY REQUIREMENT

Four semester hours of required physical education (or equivalent N.R.O.T.C. credits) shall be completed by all undergraduate students at the University. Veterans and students over thirty years of age are exempted from the physical education requirement.

REQUIREMENTS FOR GRADUATION

The degree of Bachelor of Science in Pharmacy is granted upon the completion of all of the specified requirements. The candidate for graduation must have completed a total of not less than 134 credit hours plus 4 hours of physical education or its equivalent, and must have completed all the work outlined in the pharmacy curriculum. The total number of grade points in the hours offered for graduation must equal the total number of hours.

CURRICULUM

The following curriculum leading to the degree of Bachelor of Science in Pharmacy is a standard college course for the practice of

COLLEGE OF PHARMACY

pharmacy. Electives, where permitted, are to be chosen with the advice and consent of the student's adviser.

Students who are required to take English A must do so in addition to the regular courses in English. No credit will be granted for Mathematics 14 and Architectural Engineering 10X.

The professional courses in pharmacy are not open to election for credit by non-pharmacy students without permission of their respective deans.

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

COURSES OF STUDY. Recommended Sequence.

FRESHMAN YEAR

First Semester		Second Semester	
English 1 (Intro. to Rhet.)	3	English 2 (Intro. to Lit.)	3
Pharmacy 1L (Orientation)	3	Pharmacy 2 (Calculations)	2
Chem. 1L (General)	4	Chem. 2L (General)	4
Biology 1L (General)	4	Biology 2L (General)	4
Math. 15 (College Algebra)	3	Math. 16 (Plane Trig.)	3
Physical Education	1	Physical Education	1
	18		17

SOPHOMORE YEAR

Pharmacy 51Ls (Pharm. Preps. I)	4	Pharmacognosy 72L	4
Physics 11L (General)	4	Physics 12L (General)	4
Chem. 53L (Quant. Analysis)	5	Psychology 51 (General)	3
Option of		Bus. Ad. 5 (Prin. of Accounting)	3
Sociology 1 (Intro. to Soc. Science)	3	Option of	
German	3	Sociology 2 (Intro. to Soc. Science)	3
French	3	German	3
Spanish	3	French	3
History (Lower Division)	3	Spanish	3
Physical Education	1	History (Lower Division)	3
	17	Physical Education	1
			18

JUNIOR YEAR

Chem. 101L (Organic)	4	Chem. 102L (Organic)	4
or		or	
Chem. 103L (Organic)	5	Chem. 104L (Organic)	5
Biology 93L (Bacteriology)	4	Biology 130L (Animal Physiology)	4
Economics 105 (General)	3	Pharmacy 152L (Pharm. Preps. II)	4
Speech 2 (Fund. of Speech)	3	Pharmacy 122 (Pharm. Law)	1
Elective	2-3	Pharm. Chem. 132L (Inorg. Med.)	3
	17	Pharmacy 142 (First Aid)	1
			17-18

SENIOR YEAR

Pharm. 181L (Disp. Pharm. I)	4	Pharm. 182L (Disp. Pharm. II)	4
Pharm. Chem. 103L (Organic Med.)	5	Pharm. Chem. 154L (Drug Analysis)	4
Pharmacology 195L	3	Pharmacology 196L	3
Pharmacy 155 (Drug Store Manag.)	2	Biological Therapeutics 172L	3
Electives	3-5	Pharmacy 121 (Hist. of Pharm.)	1
	17-19	Electives	2-4
			17-19

COLLEGE OF PHARMACY

COLLEGE OF PHARMACY

DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, lower division, normally open to freshmen; from 50-99, lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors, and graduates.

Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr—course offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; *—course open to General College students; ()—semester hours' credit; []—former course number or title; s—suspended credit.

A schedule of course offerings, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

FACULTY

Professors Bowers (Dean), George M. Hocking; Assistant Professor Castle; Instructor Curry.

PHARMACY

*1L. PHARMACEUTICAL ORIENTATION. (3) A beginning course in the fundamental principles and processes of pharmacy, including background material in pharmaceutical history, literature, and terminology, and the practical application of mathematics to pharmacy. 2 lectures, 3 hrs. lab. Hocking

*2. PHARMACEUTICAL CALCULATIONS. (2) Metrology. A study of the systems of measurements and various calculations used in the practice of pharmacy. Prerequisite: 1L or concurrent registration. Staff

51L. PHARMACEUTICAL PREPARATION I. (4s) A course devoted to a study of the various classes of pharmaceutical preparations (official and non-official) including the preparation of typical examples of each. Included also are the fundamentals of Latin as used in pharmacy and medicine. Prerequisite: Chemistry 1L. Credit suspended until 152L is completed. 2 lectures, 6 hrs. lab. Bowers

121. HISTORY, LITERATURE AND ETHICS OF PHARMACY. (1) A study of the development of the science and profession and a survey of its past and present literature. Staff

122. PHARMACEUTICAL LAW. (1) A study of the laws and regulations relating to the practice of pharmacy, together with a

COLLEGE OF PHARMACY

consideration of the principles of constitutional law, statutory law, and common law which bear upon the work and responsibilities of the pharmacist. Staff

142. **FIRST AID, PUBLIC HEALTH AND HYGIENE.** (1) This course combines the standard Red Cross First Aid course with the principles of prevention and control of diseases, and the application of the pharmacist's knowledge and facilities to the promotion of public health and welfare in coöperation with public and private health agencies, and including a survey of municipal, state, and federal health regulations. Staff
- 152L. **PHARMACEUTICAL PREPARATIONS II.** (4) A continuation of Pharmacy 51L. 2 lectures, 6 hrs. lab. Bowers
155. **DRUG STORE MANAGEMENT.** (2) Management of retail pharmacies including a description and analysis of the operating problems which must be met in the successful conduct of a retail store, professional shop and hospital pharmacy. Staff
158. **VETERINARY PHARMACY.** (2) A study of medicinal substances used in the treatment of diseases in animals. Prerequisites: 51L, 152L. Staff
176. **INSECTICIDES, FUNGICIDES, PARASITICIDES, RODENTICIDES.** (1) This course is designed to familiarize the pharmacist with the problems and methods of control of insects, fungi, parasites, and rodents. Prerequisites: Biology 1L and 2L. Staff
- 181L. **DISPENSING PHARMACY I.** (4) Dispensing pharmacy is broadly defined as the translation of the sciences underlying pharmacy into the art of pharmacy. More specifically it is the application of the scientific and practical knowledge upon which the practice of pharmacy is based to the extemporaneous compounding of drugs and medicines and making these available under proper control. Prerequisite: senior standing. 2 lectures, 6 hrs. lab. Bowers
- 182L. **DISPENSING PHARMACY II.** (4) A continuation of 181L. A study of the compounding and dispensing of prescriptions, including incompatibilities. 2 lectures, 6 hrs. lab. Bowers
- 197, 198. **PHARMACY PROBLEMS.** (1-4 each semester) Experimental and library problems in any phase of pharmacy. Prerequisite: permission of the instructor. Staff

PHARMACEUTICAL CHEMISTRY

- 103L. [163L] **ORGANIC MEDICINALS.** [The Pharmacy of Medicinal Products II] (5) A study from the chemical and pharmacologi-

COLLEGE OF PHARMACY

cal point of view of the official and non-official organic substances of both synthetic and natural origin used in medicine or used in the preparation of medicinals. Prerequisites: Chemistry 102L or 104L. 3 lectures, 6 hrs. lab. Castle

106L. ORGANIC PREPARATIONS. (2-4) (Same as Chemistry 106L).

The synthesis of organic medicinal compounds utilizing the usual preparative reactions such as Grignard, Friedel-Crafts, etc. Prerequisites: Chemistry 102L or 104L, and permission of the instructor. 6 to 12 hrs. lab. Castle

107. THE CHEMISTRY OF THE ALKALOIDS. (2) (Same as Chemistry 107).

A study of the chemistry involved in the isolation, proof of structure, and synthesis of typical representatives of the different classes of alkaloids. Prerequisite: Chemistry 102L or 104L. Castle

109. THE CHEMISTRY OF ORGANIC MEDICINALS. (3) (Same as Chemistry 109.)

The study of chemical properties and methods of synthesis of some of the important organic compounds used in medicine. Prerequisite: Chemistry 102L or 104L. Castle

132L. [162L] INORGANIC MEDICINALS. [The Pharmacy of Medicinal Products I] (3)

A study of the chemical and pharmaceutical properties of the official and non-official inorganic substances used in medicine or used in the preparation of medicinals. Prerequisites: Chemistry 1L and 2L. 2 lectures, 3 hrs. lab. Castle

154L. [191L] DRUG ANALYSIS. [Pharmaceutical Chemistry] (4)

A course embracing the fundamental analytical operations as used in determining the identity, strength, and purity of drugs and chemicals. Prerequisites: Chemistry 53L, and 102L or 104L. 1 lecture, 9 hrs. lab. Castle

197, 198. PROBLEMS IN PHARMACEUTICAL CHEMISTRY. (2-5 each semester).

Experimental and library problems in any phase of pharmaceutical chemistry. Prerequisite: Permission of the instructor. Castle

PHARMACOLOGY AND PHARMACOGNOSY

72L. PHARMACOGNOSY. (4)

A study of the science which treats of the history, source, cultivation, collection, preparation, distribution, commerce, identification, composition, purity and preservation of drugs of vegetable and animal origin. Prerequisites: Chemistry 1L and 2L, Biology 1L and 2L. 2 lectures, 6 hrs. lab.

Hocking

COLLEGE OF PHARMACY

172. **BIOLOGICAL THERAPEUTICS.** (3) A study of medicinal preparations made from micro-organisms and their products, such as serums, vaccines, antitoxins, antigens. Also included are such topics as allergens, venoms, and glandular products. Prerequisite: senior standing. Hocking

195L. [196L] **PHARMACOLOGY.** (3) A study of the effect produced by drugs on the living organism and the mechanisms whereby these effects are produced. The action of the more important drugs is demonstrated upon living animals. It includes the relationships of pharmacology, posology, therapeutics, toxicology and bioassay. Prerequisite: senior standing. 2 lectures, 3 hrs. lab. Hocking

196L. **PHARMACOLOGY, TOXICOLOGY, BIOASSAY.** (3) A continuation of 195L. 2 lectures and 3 hrs. lab. Hocking

**College of
BUSINESS ADMINISTRATION**

COLLEGE OF BUSINESS ADMINISTRATION

THE PRIMARY function of the College of Business Administration is to provide business education on a professional plane. Its program is designed to develop initiative, independence, resourcefulness, and a professional regard for business ethics. Emphasis is placed upon development of effective work habits, of ability to analyze and solve problems, and of recognition of the interrelationships among the various factors, agencies, or influences which affect economic activity.

The College of Business Administration affords basic training to those who aspire to places of leadership in the business world, to the end that they may eventually make constructive contribution to the intelligent and enlightened direction of our national and world economy. The College further recognizes an immediate duty to contribute to economic progress through conducting business research, both independently and in cooperation with individual enterprises, associations of business, governmental agencies and other organizations.

The College of Business Administration is cognizant, too, of an obligation to render a maximum of service to the business community through conducting educational conferences, offering extension courses, publishing research bulletins, and similar activities. A Bureau of Business Research is maintained within the College in which advanced students may gain research experience. (For full statement of the Bureau's activities see p. 30.)

Finally, the College of Business Administration is an integral part of the University of New Mexico and is committed to the maintenance and improvement of its educational standards.

ADMISSION

Freshmen seeking admission to the College of Business Administration must satisfy the general requirements for admission to the University. Similarly the general requirements of the University will govern the admission to the College of Business Administration of special and unclassified students and those seeking admission with advanced standing.

Prospective graduate students in the College of Business Administration must satisfy the requirements of the Graduate School of the University.

COLLEGE OF BUSINESS ADMINISTRATION

DEGREES OFFERED

For the degree, Bachelor of Business Administration, the student is required to complete satisfactorily a four-year course including a chosen field of concentration and to maintain a 1.0 scholarship index. To receive the degree, the student must have completed satisfactorily at least 128 credit hours, and to have met all the requirements of the University and of the College of Business Administration.

DEGREES IN COMBINATION WITH OTHER PROFESSIONAL COLLEGES

If a student has met all other requirements for the B.B.A. degree, he may count as his free electives sufficient hours taken in the College of Law to make up the total of 124 (plus P. E.). For such students Business Law (B.A. 106, 107) may be waived. This rule applies whether the work is taken in law at the University of New Mexico or elsewhere.

The same rule will apply to other professional colleges (Education, Fine Arts, Engineering, Pharmacy), except that Business Law (B.A. 106, 107) will not be waived.

If a student wishes to secure a degree in another professional college, he is strongly advised to seek advice early in his college career from the deans of the colleges concerned. With care in selecting his program of studies, it is possible for a student to secure two professional degrees in one to two extra years, depending on the degrees he seeks.

SCHOLARSHIP REGULATIONS

The student should become familiar with the general academic and scholarship rules which apply to all students enrolled in the University (see pp. 74-76). Special attention is called to the rules on probation and suspension. Special rules for the College of Business Administration are as follows:

1. To graduate with the B.B.A. degree a student must have an over all "C" average (scholarship index of 1.0) except that for specified courses as indicated in the course description a certain minimum grade may be required in a prerequisite course.
2. The maximum load for beginning freshmen shall be 17 hours (not counting P. E.). Other students may petition to carry more than 17 hours.
3. The following will count as laboratory science: Physics, Chemistry, Biology, Geology, Psychology, and Home Economics courses 53L, 54L.
4. The sophomore proficiency examination in English is required. The scores will be used for guidance purposes only.

COLLEGE OF BUSINESS ADMINISTRATION

DEGREE REQUIREMENTS

Requirements for the degree of Bachelor of Business Administration:

		Hours
A. General Requirements—		
1. English 1 and 2 (6 hrs.), English Literature (3 hrs.), and Speech 55 (3 hrs.)		12
2. Social Science (other than Economics): American Government (6 hrs.) Additional (ordinarily Introduction to Social Sciences) (6 hrs.)		12
3. Laboratory Science (1 yr.)		6-8
4. Option: Foreign language (12 hrs.) or additional mathematics or science (9 hrs.) plus additional social science (3 hrs.)		12
5. College Algebra		3
6. Physical Education		4
7. Philosophy		2-3
B. Specific requirements in economics and business courses, common to all concentrations.		
Math. 42	Introduction to Statistical Methods	3
B.A. 5, 6	Principles of Accounting	3-3
B.A. 65	Business Writing	3
B.A. 106, 107	Business Law	3-3
B.A. 108	Marketing	3
B.A. 109	Statistics	3
B.A. 110	Corporation Finance	3
Econ. 51, 52	Principles of Economics	3-3
Econ. 111	Money and Banking	3
C. Additional hours:		37-40
1. 15 in economics and business administration which will include certain courses required in the various concentrations		
2. 23-25 electives		
Total hours of credit for degree		128

COMMON FRESHMAN AND SOPHOMORE PROGRAM

All candidates for the B.B.A. degree, regardless of their field of special interest, must complete the following common freshman and sophomore years:

FRESHMAN YEAR 1

First Semester		Second Semester	
Engl. 1 Intro. to Rhetoric	3	Engl. 2 Intro. to Literature	3
B.A. 5 Principles of Accounting	3	B.A. 6 Principles of Accounting	3
Laboratory Science	3-4	Laboratory Science	3-4
Econ. 1 Intro. to Soc. Sciences	3	Econ. 2 Intro. to Soc. Sciences	3
Foreign Language (or electives*)	3	Foreign Language (or electives*)	3
Physical Education	1	Physical Education	1
16-17		16-17	

* See Item 4 under General Requirements for the B.B.A. degree for courses which can be substituted for foreign language.

¹ Students in the Secretarial-Office Management Concentration, who have not had previous training in typing, will take Beginning Typewriting (B.A. 11 and B.A. 12) which does not carry credit toward a degree.

COLLEGE OF BUSINESS ADMINISTRATION

SOPHOMORE YEAR 1

First Semester		Second Semester	
Math. 15 College Algebra	3	Math. 42 Intro. to Statist. Methods	3
Econ. 51 Principles of Economics	3	Econ. 52 Principles of Economics	3
Literature	3	Speech 55 Speech for Bus. & Prof.	3
B.A. 65 Business Writing	3	Physical Education	1
Physical Education	1	Electives	6
Electives	3		16
	16		

FIELDS OF CONCENTRATION

Not later than the beginning of the junior year, students in the College of Business Administration must choose one of the available fields of concentration: General Business, Accounting, Marketing, Management, Finance, and Secretarial-Office Management.

Business Law, shown in the junior year in each of the concentrations, can be taken in either the junior or senior years.

GENERAL BUSINESS CONCENTRATION

JUNIOR YEAR

Econ. 111 Money and Banking	3	B.A. 110 Corporation Finance	3
B.A. 109 Statistics	3	B.A. 108 Marketing	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
B.A. 114 Advertising and Selling	3	B.A. 113 Credits and Collections	2
Other Electives or Gen. Req.	4	Other Electives or Gen. Req.	5
	16		16

SENIOR YEAR

B.A. 130 Prin. of Org. & Mngt.	3	Econ. 141 Labor Problems	3
Econ. 152 Public Finance	3	Econ. 143 Transportation	3
B.A. 123 Insurance	3	B.A. 115 Investments	3
Other Electives or Gen. Req.	7	Other Electives or Gen. Req.	7
	16		16

ACCOUNTING CONCENTRATION

JUNIOR YEAR

Econ. 111 Money and Banking	3	B.A. 110 Corporation Finance	3
B.A. 109 Statistics	3	B.A. 108 Marketing	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
B.A. 104 Cost Accounting	3	B.A. 112 Auditing	3
B.A. 121 Advanced Accounting	3	B.A. 122 Advanced Accounting	3
	15	Elective	2
			17

1 Students who are taking the General Business, Marketing, Finance, or Management concentrations will ordinarily take American Government (Govt. 51 and 52) in the sophomore year.

Students in the Accounting concentration (or other students who wish to take more than one year of accounting) will take Intermediate Accounting (B.A. 63 and 64) as sophomores, deferring the American Government until the junior or senior year.

Students in the Secretarial-Office Management concentration will take Advanced Typewriting (B.A. 51 and 52), Shorthand Theory (B.A. 13), and Beginning Dictation (B.A. 14) as sophomores, deferring a like number of hours of general requirements until the junior or senior years.

COLLEGE OF BUSINESS ADMINISTRATION

SENIOR YEAR *

First Semester		Second Semester	
B.A. 125 C.P.A. Review	3	B.A. 126 C.P.A. Review	3
B.A. 118 Tax Accounting	3	B.A. 102 Governmental Accounting	2
Other Electives or Gen. Req.	10	Other Electives or Gen. Req.	11
	<u>16</u>		<u>16</u>

MARKETING CONCENTRATION

JUNIOR YEAR

Econ. 111 Money and Banking	3	B.A. 110 Corporation Finance	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
B.A. 109 Statistics	3	B.A. 108 Marketing	3
Electives or Gen. Req.	7	Other Electives or Gen. Req.	7
	<u>16</u>		<u>16</u>

SENIOR YEAR

B.A. 114 Advertising	3	B.A. 113 Credits and Collections	2
B.A. 123 Insurance	3	B.A. 143 Transportation	3
Other Electives and Gen. Req.	10	B.A. 134 Sales and Sales Mngt.	3
	<u>16</u>	Other Electives or Gen. Req.	8
			<u>16</u>

MANAGEMENT CONCENTRATION

JUNIOR YEAR

Econ. 111 Money and Banking	3	B.A. 110 Corporation Finance	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
B.A. 109 Statistics	3	B.A. 108 Marketing	3
B.A. 130 Prin. of Org. and Mngt.	3	Psychology 58 Industrial Psy.	3
B.A. 104 Cost Accounting	3	Electives or Gen. Req.	4
	<u>15</u>		<u>16</u>

SENIOR YEAR

B.A. 114 Advertising	3	B.A. 113 Credits and Collections	2
Econ. 154 Comparative Econ. Sys.	3	Econ. 141 Labor Problems	3
Econ. 140 Economic Security	3	B.A. 131 Personnel Management	3
Other Electives and Gen. Req.	7	Other Electives or Gen. Req.	8
	<u>16</u>		<u>16</u>

FINANCE CONCENTRATION

JUNIOR YEAR

B.A. 109 Statistics	3	B.A. 110 Corporation Finance	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
Econ. 111 Money and Banking	3	B.A. 108 Marketing	3
B.A. 123 Insurance	3	B.A. 113 Credits and Collections	2
Other Electives or Gen. Req.	4	Other Electives or Gen. Req.	5
	<u>16</u>		<u>16</u>

SENIOR YEAR

B.A. 115 Investments	3	B.A. 165 Public Utilities	3
Econ. 152 Public Finance	3	Econ. 141 Labor Problems	3
Other Electives or Gen. Req.	10	B.A. 116 Security Analysis	3
	<u>16</u>	Other Electives or Gen. Req.	7
			<u>16</u>

* Students in the Accounting concentration who expect to sit for the C. P. A. examination should take all of the accounting courses offered.

COLLEGE OF BUSINESS ADMINISTRATION

SECRETARIAL-OFFICE MANAGEMENT CONCENTRATION

JUNIOR YEAR

First Semester		Second Semester	
Econ. 111 Money and Banking	3	B.A. 110 Corporation Finance	3
B.A. 109 Statistics	3	B.A. 108 Marketing	3
B.A. 106 Business Law	3	B.A. 107 Business Law	3
B.A. 53 Transcription	3	B.A. 54 Speed Dictation	3
Other Electives or Gen. Req.	4	Other Electives or Gen. Req.	4
	16		16

SENIOR YEAR

B.A. 157 Office Procedure	3	B.A. 158 Office Management	3
B.A. 114 Advertising	3	B.A. 113 Credits and Collections	2
Other Electives or Gen. Req.	10	Other Electives or Gen. Req.	11
	16		16

COLLEGE OF BUSINESS ADMINISTRATION

DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, lower division, normally open to freshmen; from 50-99, lower division, normally open to sophomores; from 100-199, upper division, normally open to juniors, seniors, and graduates; 200-400, open to graduates only. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee.

Symbols used in course descriptions: L—part of the course is laboratory work; F—course is given during field session; SS—course offered in eight weeks' summer session only; Yr—course offered throughout two semesters and credit for a single semester's work is suspended until the entire course is completed; *—course open to General College students; †—course offered for General College credit only; () semester hours' credit; credit hours separated by a dash (1-3) indicate variable credit in the course; []—former course number or title.

A schedule of course offerings, including hours of meeting, is issued at the opening of each session. The University reserves the right to cancel any listed course or to make a substitution in instructors when necessary.

BUSINESS ADMINISTRATION

Professor Sorrell (Dean); Associate Professors Parish, Strahlem; Assistant Professors Dunbar, Edgel, Evans, Harmeyer, Israel; Instructors Carey, Conway, Huber, Reva, Williams.

- 5, 6. PRINCIPLES OF ACCOUNTING. (3, 3) Introductory accounting; statements, accounts, journals, adjusting and closing entries, the worksheet; the voucher system, payroll accounting, depart-

COLLEGE OF BUSINESS ADMINISTRATION

- mentalization, accounting for proprietorship, partnership, and corporation capital; manufacturing accounts, budgets, valuation, statement analysis. Both semesters are required for a degree in Business Administration. The course is elective for Law, Engineering, Pharmacy, Home Economics, and other students. Credit in 5 can be obtained without continuing in 6. Strahlem and Staff
7. OFFICE MACHINES AND FILING [Machine and Office Training]
(2) Laboratory work in filing, transcription from recorded dictation, mimeograph, direct process and gelatine duplicators, listing and non-listing calculators. Class meets four hours a week. Prerequisite: 11 or equivalent. Israel
- *11, 12. BEGINNING TYPEWRITING. (2, 2) The learning of the keyboard by the touch system; reconstruction of basic skills. Some business forms including letter writing are studied. A speed of 40 words per minute is achieved. Students who have had typewriting in high school or business school will not receive credit. No credit allowed in Colleges of Arts and Sciences and Business Administration. Israel and Reva
- *13, 14. SHORTHAND THEORY; BEGINNING DICTATION. (3, 3) Mastery of theory and the essentials of writing. Dictation requirement of 80 for completion of course. Introduces transcription. Students with former credit in shorthand should enroll in 14 or in a more advanced class. Students who have had shorthand in high school or in business school will not receive credit in 13. Prerequisite: 11 and 13 or equivalent. 4 one-hour classes per week. Israel, Reva
- *51, 52. ADVANCED TYPEWRITING. (2, 2) Emphasis on speed, technique, and corrective drills. Letter writing, reports, manuscripts, tabulations, rough drafts, billing, corporation reports, legal documents, payroll and purchasing forms and other forms. There are opportunities for achieving individual-speed goals. No credit allowed in College of Arts and Sciences. Reva
- *53, 54. TRANSCRIPTION; SPEED DICTATION. [Dictation and Transcription] (3; 3) Review of shorthand theory. Dictation and transcription from shorthand notes correctly and speedily. Mailable letters are required. Prerequisite: 13 or equivalent. Class meets four hours a week. No credit allowed in College of Arts and Sciences. Israel
55. ADVANCED TYPEWRITING IN SPANISH. (2) Drill on letter combinations common in Spanish. Development of facility on the standard Spanish keyboard. Practice on letter styles used in

COLLEGE OF BUSINESS ADMINISTRATION

Spanish-speaking countries. Prerequisite: 12 or equivalent.

Staff

- 57, 58. SPANISH SHORTHAND THEORY. SPANISH SHORTHAND DICTATION. (3, 3) Gregg shorthand principles applied to the writing of Spanish words. Reading, dictation, and transcription of shorthand in Spanish. Class meets four hours a week. Prerequisite: 13, 14, 55, adequate knowledge of Spanish. Consult instructor.

Staff

59. ADVANCED SPANISH DICTATION AND TRANSCRIPTION. (3) Staff

- 63, 64. INTERMEDIATE ACCOUNTING. (3,3) Review of fundamentals; detailed consideration of partnership and corporation net worth; basic accounting theory; problems of control of, and accounting for, cash; receivables, inventories, fixed assets, intangibles, investments, liabilities, funds and reserve, comparative statements, analytical ratios; statement of application of funds. Credit can be obtained in 63 without continuing in 64. Prerequisites: 5 and 6 with a minimum grade of "C" in 6. Harmeyer, Williams

65. BUSINESS WRITING. [Business Letter Writing.] (3) A study of psychology of tone, structure, and form of business letters. Includes the writing of order, adjustment, credit, collection, sales application, and recommendation letters. Reva

87. MATHEMATICS OF FINANCE. (3) (Same as Mathematics 87.) General Prerequisite: Economics 51, 52, Business Administration 5, 6, unless otherwise stated.

101. ANALYSIS OF FINANCIAL STATEMENTS. (2) Comparative analysis of the balance sheets and income statements of both large and small enterprises; significant ratios, break-even charts, viewpoints toward analysis. Prerequisite: B.A. 63. Harmeyer

102. GOVERNMENTAL ACCOUNTING. (2) Essential principles of governmental accounting; account classification, budgets, statements, revenues and expenditures; general fund, bond and sinking funds, working capital and special assessment funds; utility accounts; cost accounting. Prerequisite: B.A. 63. Strahlem

104. COST ACCOUNTING. (3) Principles of industrial and distribution cost accounting; job order and process cost systems; standard costs; cost reports. Prerequisite: B.A. 64. Dunbar

- 106, 107. BUSINESS LAW. (3, 3) This course attempts to give an understanding of the basic legal institutions and a working knowledge of essential legal concepts. Attention is given to the following subjects: contracts, agency, and negotiable instru-

COLLEGE OF BUSINESS ADMINISTRATION

- ments. 107 is continued from 106 considering business organizations, real and personal property, security transactions and trade regulations. Prerequisite: upper division standing. Huber
108. **MARKETING.** (3) Principles of marketing; economic significance, functions, middlemen and channels of trade, competition, price policies, marketing management, market planning, budgets and cost, market research; consumer problems. Johnson
109. **BUSINESS STATISTICS.** (3) Collection, arrangement, and interpretation of statistical material relating to business operations. Prerequisite: Mathematics 42. Carey
110. **CORPORATION FINANCE.** (3) A survey of the organization and development of the modern profit-seeking corporation with emphasis on financial aspects. Problems of promotion, normal operation and reorganization are considered. Evans
112. **AUDITING.** (3) Auditing principles and procedures; preliminary considerations, planning the audit program, classes of audits, audit reports, professional ethics and legal responsibility; illustrative audit practice case. Prerequisite: B.A. 64. Dunbar
113. **CREDITS AND COLLECTIONS.** (2) Principles and practices of credit management. Taught primarily from the point of view of the credit man. Sorrell
114. **ADVERTISING.** (3) Basic advertising principles and practice. How the modern executive evaluates, buys, criticizes and controls advertising. Characteristics of effective advertising, selection of media, planning and executing of campaigns are surveyed. Evans
115. **INVESTMENTS.** (3) A detailed consideration of most types of of investment media from the investor's standpoint. Considerable attention given to psychological aspects of investment and speculation, and to building realistic individual investment programs. Prerequisite: B.A. 110 or the equivalent. Evans
116. **SECURITY ANALYSIS.** (3) Analyzing of investment and speculative securities is handled by both the conventional balance sheet and income statement comparative ratio approach, and by various methods of measuring comparative income and price performance in both long and short-run periods. Organized security markets, trading methods, and government control of the market are also considered. The course is designed for both investors and those who plan to enter the security business. Prerequisite: B.A. 115 and B.A. 63. Evans
- 117, 118. **INCOME TAX ACCOUNTING.** (3, 3) Study of federal and state income tax laws and regulations; history and background;

COLLEGE OF BUSINESS ADMINISTRATION .

sources of tax law; tax services; organization and procedures of the Bureau of Internal Revenue; tax returns, rates, and credits; deductions and exclusions; withholding provisions; capital gains and losses; community property clauses. Prerequisite: B.A. 64. Credit may be obtained in 117 without continuing in 118.

Dunbar

121, 122. **ADVANCED ACCOUNTING.** (3, 3) Problems, partnership dissolution and liquidation, consignments, installment sales, insurance, correction of errors, the statement of affairs, realization and liquidation statement, estates and trusts, budgets; branch accounting, consolidated statements, foreign exchange. Prerequisite: B.A. 64. Credit can be obtained in 121 without continuing in 122.

Harmeyer, Strahlem

123. **INSURANCE.** [Insurance Principles and Practices] (3) A survey of the problems of the insurance industry at the management level with special attention given to the fields of fire, transportation, casualty, and life insurance.

Parish

125, 126. **C.P.A. REVIEW.** (3, 3) Coaching for the C.P.A. examination, with emphasis upon solution of past problems in the examinations of the American Institute of Accountants; partnership, corporation, financial statements, auditing, cost accounting, insolvencies, receiverships and governmental accounting. Prerequisites: B.A. 102, 104, 117, 112, and 122. Credit in 125 is not dependent upon completing 126.

Strahlem

130. **PRINCIPLES OF ORGANIZATION AND MANAGEMENT.** (3) Development of modern management; plant location and layout; materials handling; physical factors in factory operation; product and process planning; production control; motion and time study; personnel organization, procurement and maintenance; employee health, safety, morale, and training; cost and budgetary control.

Strahlem

131. **PERSONNEL MANAGEMENT.** (2) The field of personnel administration; functions of a personnel department, employment methods, physical working conditions, employee training, transfers and promotions, grievances discharge; job analysis and specifications, production standards, labor turnover, employee rewards, profit-sharing; employee representation, collective bargaining; industrial government. Prerequisite: B.A. 130. Staff

134. **SELLING AND SALES MANAGEMENT.** (3) The role of selling in our economy, its functions, costs and the magnitude of the selling task; the various techniques of salesmanship which should prove

COLLEGE OF BUSINESS ADMINISTRATION

valuable to those planning to enter the selling field. Also consideration is given to the principles of sales management, covering sales research, management of salesmen, sales policies and similar problems. Evans

143. [Economics 143] TRANSPORTATION. (3) Inland transportation with special emphasis on the economics of rate making; problems of competition and coördination within the industry; regulation, its history and significance.

155g. THE TEACHING OF COMMERCIAL SUBJECTS IN HIGH SCHOOL. (3) (Same as Education 155g) Israel

157. OFFICE PROCEDURE. (4) Laboratory work in filing, transcription from recorded dictation, mimeograph, direct process and liquid duplicators, listing and non-listing calculators. Secretarial tools applied to office duties and procedures. 3 lectures, 4 hrs. lab. Prerequisites: B.A. 12 and 14 or equivalent. Israel

165. [Economics 165] PUBLIC UTILITIES. (3) Government control of public service industries with emphasis on the public utility concept, economics of rate making and monopoly, and problems of public utility management. Parish

251, 252. PROBLEMS. (2-4 each semester) Graduate Staff

300. THESIS. (4-6) Graduate Staff

GENERAL COLLEGE

GENERAL COLLEGE

THE GENERAL COLLEGE has been planned in terms of two-year programs. It makes provision for rather large numbers of students who, for one reason or another, do not find the four-year course advisable. Some of these groups are:

1. Those who are interested in general, instead of specialized, types of knowledge. Students of this sort prefer an overview of a field with emphasis upon general principles rather than upon techniques and details, and are to be taken care of to a large extent by survey courses. Even specialists in one field of knowledge, however, will find use for comprehensive surveys in others.

2. Those who wish to "explore." Interest in one or more of the fields of knowledge is a prime factor in college success; and this interest, together with greater efficiency in mental habits, can often be fostered through exploration.

3. Those who desire distinctly vocational courses of the semi-professional nature. Many capable young people want courses that lead to definite vocational techniques, even though they are not interested in general academic training.

4. Adults who have no interest in degrees or in technical courses, but who desire information and guidance in general or practical fields.

5. Young people who know from the beginning that either for financial or other reasons they must place a time limit upon their higher education. They may prefer either the general or the vocational type of training, but they are forced to look for that from which they can derive the most nearly finished and comprehensive results in less than four years.

6. Those who desire to complete a two year preparatory course leading to entrance into a professional or specialized college.

ADMISSION REQUIREMENTS

For admission requirements to the General College, see "Admission." Applicants for admission are held to the regulations as set down in the general admission section, except that the Committee on Entrance and Credits may accept an individual who has been recommended by the General College Committee for special consideration.

GENERAL COLLEGE

A student with more than 60 semester hours, exclusive of physical education, is not permitted to enter the General College.

SCHOLARSHIP REGULATIONS

See pp. 74-76.

TRANSFER

A student may be recommended by the Dean of the college concerned for transfer from the General College to one of the other colleges of the University at the end of any semester or summer session, after having been registered for twelve or more hours (six or more hours in summer session), (1) when the average for the first semester in the University is equal to 1.2 (not applicable to transfer students), or when, after the first semester, the number of points earned is at least equal to the total number of hours which he has attempted in college, or (2) after receiving the General College Diploma, on the same basis as any other transfer student.

COMPLETION OF COURSE

Sixty-four hours of passing work, exclusive of non-theoretical courses in physical education, must be completed in order to fulfill the requirements for the General College diploma. Normally, this work will be divided into four semesters as indicated below.

Students registering in the General College may pursue courses in the Department of Naval Science and Tactics only with the permission of the Dean of the General College and the Head of the Department of Naval Science and Tactics.

GENERAL COLLEGE*

Academic Course

FRESHMAN YEAR	
First Semester	Second Semester
English 1	English 2
Intro. to Soc. Sci.	Intro. to Soc. Sci.
Mathematics, Lang., or Science	P. E.
P. E.	Mathematics, Lang., or Science
Electives	Electives
16	16

Art

FRESHMAN YEAR	
English 1	English 2
Intro. to Soc. Sci.	Intro. to Soc. Sci.
Art 1	Art 2
Art 3	Art 4
Art 5 or 7	Art 6 or 8
Electives	Electives
P. E.	P. E.
1	1

* Students in the General College are limited to lower division courses without special permission of the General College Dean.

GENERAL COLLEGE

SOPHOMORE YEAR

First Semester		Second Semester	
Art Electives Group II	4	Art Electives Group II	4
Art Electives Group I	6	Art Electives Group I	6
Electives	6	Electives	6

Home Making

English 1	3	English 2	3
Intro. to Soc. Sci.	3	Intro. to Soc. Sci.	3
Home Ec. 1	3	P. E.	1
Psychology 1L	3	Psychology 2L	3
P. E.	1	Biology 36	3
Home Ec. 2L	2	Electives	4

FRESHMAN YEAR

SOPHOMORE YEAR

Home Ec. 53L	3	Home Ec. 54L	3
Home Ec. 63L	3	Home Ec. 64L	3
P. E. 64	2	Electives	10
Electives	5		
Sociology 51	3		

Industrial Arts

See first two years Industrial Arts Curriculum, College of Engineering. Some adjustments to fit individual needs may be arranged.

Music

FRESHMAN YEAR

English 1	3	English 2	3
Intro. to Soc. Sci.	3	Intro. to Soc. Sci.	3
Music 3	2	Music 4	2
Applied Music	2	Applied Music	2
Ensemble Music	1	Ensemble Music	1
Music 39	2	Music 40	2
Electives	3	Electives	3
P. E.	1	P. E.	1

SOPHOMORE YEAR

Dram. Art 1	3	Dram. Art 2	3
Music 35	3	Music 36	3
Ensemble Music	1	Ensemble Music	1
Music 5	3	Music 6	3
Electives	6	Electives	6

Secretarial

FRESHMAN YEAR

English 1	3	English 2	3
Intro. to Soc. Sci.	3	Intro. to Soc. Sci.	3
Bus. Adm. 11	2	Bus. Adm. 12	2
Bus. Adm. 13	3	Bus. Adm. 14	3
Psych. 1L	3	Psych. 2L	3
P. E.	1	P. E.	1
Elective	2	Elective	2

SOPHOMORE YEAR

Bus. Adm. 51	2	Bus. Adm. 65	3
Bus. Adm. 53	3	Bus. Adm. 52	2
English Lit.	3	Bus. Adm. 54	3
Mathematics 14	3	Econ. 63	3
Psych. 58	3	P. E.	1
Bus. Ad. 7	3	Elective	5-6
P. E.	1		

GENERAL COLLEGE

Pre-Optometry*

FRESHMAN YEAR

First Semester		Second Semester	
Mathematics 15	3	Mathematics 16	3
English 1	3	English 2	3
Biology 1L	4	Biology 2L	4
Chemistry 1L	4	Chemistry 2L	4
Elective	3	Philosophy 2	3
P. E.	1	P. E.	1

SOPHOMORE YEAR

Biology 36	3	Biology 36L	4
Biology 36L	2	Mathematics 22	3
Physics	4	Physics 12L	4
Economics 51	3	Economics 52	3
Psychology 1L	3	Psychology 2L	3
Elective	2	P. E.	1
P. E.	1		

Pre-Dentistry*

FRESHMAN YEAR

English 1	3	English 2	3
Chemistry 1L	4	Chemistry 2L	4
Mathematics 15	3	Mathematics 16	3
Mod. Lang.	3	Mod. Lang.	3
Psychology 1L	3	Psychology 2L	3
P. E.	1	P. E.	1

SOPHOMORE YEAR

Economics 51	3	Economics 52	3
Biology 1L	4	Biology 2L	4
Physics 11L	4	Physics 12L	4
Philosophy 2	3	Chemistry 42L	5
Soc. Sci. elective	3	P. E.	1
P. E.	1		

Pre-Forestry*

FRESHMAN YEAR

English 1	3	English 2	3
Geology 1	3	Mathematics 16	3
Geology 5L	1	Chemistry 2L	4
Mathematics 15	3	P. E.	1
Arch. Eng. 1L	3	Electives	6
Chemistry 1L	4		
P. E.	1		

SOPHOMORE YEAR

Economics 51	3	Economics 52	3
Biology 1L	4	Biology 2L	4
Physics 11L	4	Physics 12L	4
C. E. 4	2	Chem. 42L	5
Elective	2	P. E.	1
P. E.	1		

* The student should be mindful of the fact that the requirements vary considerably with different institutions. Therefore, it is always well for the student to obtain a catalog from the institution which he wishes to attend so that a schedule of classes can be arranged to meet specific requirements.

GENERAL COLLEGE

Clerical

First Semester	
English 1	
Intro. to Soc. Sci.	
Bus. Adm. 11*	
Psych. 1L	
Math. 14	
P. E.	
Bus. Adm. 5	

FRESHMAN YEAR

Second Semester	
English 2	3
Intro. to Soc. Sci.	3
Bus. Adm. 12*	2
Psych. 2L	3
Electives	3
P. E.	1
Bus. Adm. 6	3

SOPHOMORE YEAR

English 55	3	Speech 55	3
Econ. 63	3	Bus. Adm. 65	3
Bus. Adm. 51*	2	Bus. Adm. 52*	2
Bus. Adm. 7	3	Bus. Adm. 157#	3
P. E.	1	P. E.	1
Elective	5	Elective	5

Prelaw Course†—For Veterans Only

FRESHMAN YEAR

Intro. to Social Science 1	3	Intro. to Social Science 2	3
English 1	3	English 2	3
Psych. 1L	3	Psych. 2L	3
Phil. 1	2	Speech 2	3
Speech 1	3	History 2	3
Hist. 1	3	Elective	2

SECOND YEAR

English Lit.	3	Govt. 52	3
Govt. 51	3	Econ. 52	3
Econ. 51	3	Hist. 52	3
Hist. 51	3	B.A. 6	3
B.A. 5	3	Govt. 175	3
Electives	2	Electives	2

* No credit in College of Arts and Sciences.

Students who have not the prerequisite of B.A. 14 should arrange with the instructor to take the course.

† This kind of course is only suggestive and is subject to student changes. It is recommended that you plan on a three or four year prelaw program. If planning to attend the University of New Mexico Law School, you must be a veteran to take a two year prelaw course.

**College of
LAW**

COLLEGE OF LAW

THE STATE BAR of New Mexico having previously adopted a resolution to that end, and the Legislature of New Mexico having at its last session made financial provision, the Regents of the University of New Mexico, on March 31, 1947, as expressly authorized by Laws 1889, Ch. 138, §15, approved the establishment of a College of Law. Professor Alfred L. Gausewitz, then of the University of Wisconsin, was appointed Dean on June 18, 1947, and the College admitted its first class in September, 1947.

It is the democratic ideal, of which the Christian ethic of sympathy is a religious expression, that the human personality always be respected and that each individual be left as free to develop and express himself spiritually, politically, socially and materially, as is compatible with the general principle. For the law, this means that every individual shall be treated on his merits, on the basis of what he is and is capable of becoming, his past life being significant only as evidence of his character and potentialities. This also means that those who seek to make and administer the law must be properly motivated, well aware of social objectives and values and sensitive to human needs and aspirations.

The aim of the College of Law will be to insure, without efforts at indoctrinating the students with particular views, that its graduates understand the democratic ideal and the role of law and of the lawyer in our striving to attain it. To this end, it will be urged that students enter the law school with as broad a cultural and educational background as it is possible for them to have. At present, the minimum requirement is, as stated below, three years of college work, with certain exceptions for persons with a maturity gained from military service or otherwise. In the College of Law, the students will not only study the ideas, ideals and ways of life expressed in the substantive law and in legal literature, and the procedures provided for their application, but will also have kept before them the obligations of their profession.

The right of the lawyer to just compensation for his services will be recognized, but the duties of a lawyer as adviser, draftsman, negotiator, advocate, judge, legislator, teacher, official, and citizen, and the personal satisfaction to be gained from work well done, will continually be stressed as paramount to personal gain, especially to financial reward obtained for position and influence and not earned by professional services rendered.

COLLEGE OF LAW

Every effort will be made to promote technical skill and competence. But this will be done primarily by methods aimed at understanding and power of analysis through the case method and learning by doing, rather than by methods of learning how to do a particular type of work through imitation.

PRESENT PLANS

Only one class was admitted and only the first year of work given in 1947-48. A second year of work is added for 1948-1949 and the full three-year course will be given in 1949-1950.

STANDARDS OF AMERICAN BAR ASSOCIATION AND OF THE ASSOCIATION OF AMERICAN LAW SCHOOLS

The standards of the American Bar Association are as follows:

The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

It shall require as a condition of admission at least 2 years of study in a college.

It shall require its students to pursue a course of 3 years' duration, if they devote substantially all of their working time to their studies, and a longer course equivalent in the number of working hours, if they devote only part of their working time to their studies.

It shall provide an adequate library available for the use of the students.

It shall have among its teachers a sufficient number giving their entire time to the school to insure personal acquaintance and influence with the whole student body.

The College has met these standards and was approved by the American Bar Association on February 24, 1948. This approval was "provisional." The meaning and significance of "provisional" appears from the following excerpts from publications of the Section of Legal Education and Admissions to the Bar: "The approval first given is called 'provisional approval.' This means that the school fully meets the standards of the American Bar Association, but is subject to reinspection after the lapse of a period which is usually about two years." (1944 *Review of Legal Education*, p. 23.) "No school will be given provisional approval unless in the judgment of the Council it is found to be meeting the minimum standards of the American Bar Association. The graduates of provisionally approved schools are entitled, therefore, to the full recognition of their credits by bar examiners. (Factors Bearing on the Approval, etc., May 15, 1947, p. 2.)

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The standards of the Association of American Law Schools are set forth in Article Sixth of its Articles of Association. Its requirements relating to student work will be found in the Admission Requirements and Requirements for Degree set forth below, except that New Mexico will require more than the minimum amount of prelegal education required by either Association. Application has been made for membership in the Association of American Law Schools.

BAR EXAMINATIONS

The degree in law from this University will not confer the privilege of practicing law in New Mexico or elsewhere. It is expected, however, that the degree will satisfy the requirement of New Mexico, insofar as New Mexico requires graduation from a law school approved by the American Bar Association as a prerequisite for bar admission. Whether it will satisfy other states having such a requirement may depend upon the interpretation of the requirement in each state, in the cases of those students part of whose work was done before such approval was obtained.

FACULTY AND STAFF

Professor Gausewitz, (Dean); Associate Professor Seed; Assistant Professors Bauman, Poldervaart. Additional faculty will be added.

LAW BUILDING

Plans are being made for construction of a law building to be completed, it is expected, by the fall of 1949. Until then, the school will be housed in the Stadium Building, with classroom, library, reading room, and offices adjacent. The library and all facilities will be so administered as to be readily available to both students and faculty.

THE LIBRARY

Generous gifts made by Francis C. Wilson, of Santa Fe; Francis E. Wood, of Albuquerque; Milton J. Helmick, formerly of Albuquerque, now in Shanghai, China; Mrs. Ann Webster, of Santa Fe; Mrs. George R. Craig, of Albuquerque; Louis C. Ilfeld, of Las Vegas; Pearce Rodey, of Albuquerque; John Simms, of Albuquerque; and others, and provision made by appropriations, enabled the College to open with a library that more than met the requirements of the American Bar Association of seventy-five hundred well-selected, usable volumes; that included all of the books deemed essential by the Association of American Law Schools; and that had

COLLEGE OF LAW

over thirteen thousand volumes, instead of ten thousand volumes, not counting duplications, as required by the latter.

ADMISSION REQUIREMENTS

All communications regarding entrance should be addressed to the Dean of the College of Law. An applicant for admission to the College of Law from a college or university other than the University of New Mexico should file both the general application for admission and the specialized application for the College of Law (both forms to be found in the back of this Catalog) and should have a transcript of his credits sent, for evaluation, to the Director of Admissions of the University of New Mexico. No student is assured of entrance until he has received an official notice of admission from the Director of Admissions.

Beginning students will be admitted at the opening of the fall semester only.

A student should not attempt the law unless he has an interest in, and aptitude for, that type of study as demonstrated by his having ranked at least in the upper quarter of his class in high school and the upper half in college. Otherwise, he probably will be neither happy nor successful in the study or practice of law, both of which require earnest, careful, hard work, even of the most gifted.

RESIDENTS OF NEW MEXICO

Candidates for the degree of Bachelor of Laws must have (1) received a first degree; or (2) must have satisfactorily completed, in residence, before their admission to the College of Law, three full years of work equivalent to three-fourths of the course of study acceptable for the Bachelor of Arts degree or Bachelor of Business Administration degree at the University of New Mexico, or, in special cases, other degrees, or (3) at least three-fourths of a four-year course of study at some other college or university acceptable for a Bachelor of Arts or Bachelor of Business Administration or other equivalent degree at the state university of the state in which the prelegal work is taken, or in the event that there is no state university, then at a principal college or university located therein. Not more than 10 per cent of the credit presented for admission may include credit earned in non-theory courses in military science, hygiene, home economics, physical education, vocal or instrumental music, or other similar courses. All such prelegal work, exclusive of non-theory courses, must have been completed with an average of "C" or better and a scholastic average at least equal to the average required for graduation in the institution attended. If more than

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one institution has been attended, the scholastic requirements of the last institution will be applied, but based upon the entire pre-legal work, exclusive of non-theory credits, undertaken in all institutions attended.

Veterans of World War II who have served for a substantial period of time in the armed forces of the United States or of a co-belligerent and who have been discharged or released under conditions other than dishonorable may be admitted, who present credits acceptable to the University of New Mexico for a Bachelor of Arts degree, equal to one half of the work required for that degree.

Students desiring to be admitted to the College of Law should have their applications, together with a transcript of their pre-legal work, in the hands of the University Director of Admissions not later than September 1 for first-semester registration. Students completing their prelegal work in some other college or university must furnish, in addition to a transcript of their record, a certificate from the Registrar of the institution where such work was completed to the effect that the grade average attained is at least equal to the average required for graduation in that institution.

A written statement as to previous attendance at other law schools, and as to previous applications for admission to other law schools, is also required.

Credit earned through correspondence, or by examination, is not acceptable as prelegal credit for the College of Law.

NON-RESIDENT STUDENTS

A limited number of non-resident students who have a valid reason for desiring to come to New Mexico will be admitted. For the present, a first degree with a good record of scholarship is required of non-residents. Students who have taken at least the last two semesters of their prelegal work at the University of New Mexico are not considered non-residents for this requirement, though they may be non-residents for purposes of tuition and fees and for bar admission requirements.

SELECTION OF PRELAW PROGRAMS

Certain fields might be listed and recommended in which a lawyer should have at least an elementary knowledge, such as accounting, economics, English composition, speech and literature, government, history, philosophy, psychology, sociology and anthropology. Or specific subjects might be collected as required or elective subjects into a "Prelaw" program. It is believed, however, that the student's interest should be the dominant guide. It was chiefly because of the importance of student interest that a survey

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of recommendations of leaders of the profession to the prospective law student led to the following conclusion: "Next to be observed is a unanimous *opposition to required courses* in prelegal training." Vanderbilt, *Studying Law* (1945) 650. Also, a course may vary as to content and method at different times and places. Again, while it is well to have a central interest and an aim, too early specialization is not desirable, and a student should not think of himself as primarily a "prelaw" student. Moreover, a student may not decide to study law until it is too late to meet specific requirements, or may change his mind and decide not to study law after he has taken subjects in a "Prelaw" program in which he had no genuine interest. And many who finish a law course and are admitted to practice, eventually go into business, public office, or other fields in which a broad background is of great value.

For these reasons, no more specific recommendation is made at present than the broad cultural background that is afforded by the program of the College of Arts and Sciences or the cultural and business education of the College of Business Administration or a degree in any other field. There is no "Prelaw Curriculum."

One subject that is of special value to a lawyer not only because of the training in precision and clarity of thinking that it, like mathematics and the natural sciences, gives, but as a "tool," is accounting. Some schools list it as a subject in the law program. Obviously, an ability to think clearly, to read carefully and understandingly, and to speak and write well is essential. These abilities are also tools, indispensable tools. To read understandingly, and critically, requires a stock of information. But information is not as important as skills in reading, speaking, and writing, a capacity for, and a habit of, intensive application and carefulness, and high personal standards of accomplishment. If possible a student should take an Honors course or at least one course in which a competent job of independent writing and research is required. In these ways one will provide himself with a capacity for future development. Law touches life at so many points that one man simply cannot acquire all of the information that he may need. He can, however, equip himself with a capacity for acquiring and valuing special knowledge.

And while some courses, such as a natural science with laboratory work, or a language, are valuable for their informational content as well as for their disciplinary value, other courses are in their informational aspects more directly relevant to law—economics, ethics, government, American and English constitutional history, psychology, cultural anthropology and sociology, and logic for thinking.

COLLEGE OF LAW

Not every subject can be taken. One's interest should be his chief guide. And the college requirements will insure against too much concentration or too great diffusion.

SPECIAL STUDENTS

A limited number of students with fewer than the academic credits required of candidates for the law degree may be admitted as special students. An applicant for admission as a special student must be at least 23 years of age, and his experience and educational training must have been such as, in the judgment of the Law Faculty, to have specially equipped him for the successful study of Law. Application for admission as such a special student must be made to the Director of Admissions of the University well in advance of the beginning of the regular academic year for the purpose of submission to the Dean of the College of Law. Such applications will be considered and acted upon at the first meeting of the Law Faculty after September 1 of each year. Special students are not candidates for the law degree, and upon completion of their law study are not eligible for bar examinations in New Mexico nor in such other states as require graduation from a law school approved by the American Bar Association as a prerequisite for bar admission.

ADMISSION TO ADVANCED STANDING

Only the first two years of work will be given this year. Credit can be given for first work done elsewhere, if it fits into the curriculum.

A student transferring to the College of Law will not be given credit toward the law degree for credit earned at a school not a member of the Association of American Law Schools or provisionally approved by the American Bar Association, except that credit earned within three calendar years of provisional approval by the American Bar Association may be accepted. Time during which a person was in active military service will be disregarded in computing the three-year limitation.

Credit earned at a law school located outside the continental limits of the United States may be accepted, if

- a. The courses taken and completed were substantially equivalent in content and credit to courses given in an approved law school in the United States, and
- b. The school at the time of admission of the student required standards for admission substantially equivalent to those of approved law schools in the United States,

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but only to the extent of work successfully completed, and not in excess of

- a. two years if the curriculum was based primarily on Anglo-American common law,
- b. otherwise, not in excess of one year.

A transferring student must present:

1. An official transcript of his prelegal course of study, which must be sufficient to meet the requirements for admission to the College of Law of the University of New Mexico.
2. An official transcript of his law study.
3. A letter from the dean of the law school from which he transfers to the effect that he is presently eligible to reregister in that law school.

Admission will not be granted to a student who has been disqualified or placed on probation in another law school, or who has an average of less than "C" on all law work previously attempted.

REQUIREMENTS FOR BACHELOR OF LAWS DEGREE

To secure the degree in law from the University of New Mexico, a candidate for such degree must:

1. Have met fully all prelegal requirements established by the University of New Mexico for admission of degree candidates to its College of Law.
2. Have spent at least 3 full academic years in residence study of law in accredited law schools. The work of the third or last year, comprising not less than 24 semester hours of law credit, must be done in residence in this University. Residence study means a schedule of work represented by a minimum of 9 class hours of work per week successfully completed. For less than that, a student will receive residence credit in the ratio that the hours completed bear to nine.
3. Have secured by and during such 3 or more years of residence study, not less than 80 semester hours of credit of satisfactory grade in courses of law study, in which must be included the courses of law study that may be designated as "required." As to any student hereafter entering the College, *the right and power is reserved to increase* this requirement to not more than 90 semester hours at any time before a student has entered upon his third semester of work, and to require not to exceed an additional six months of appren-

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ticeship in an approved law office, or, in lieu thereof, successful completion of a summer session of practice work in the College.

4. In order that a student's final (sixth) semester of regular residence work may be accepted as a part of the required 3 full academic years of residence study of law, such student must register for, and successfully complete during such semester, not less than 9 semester hours of law study, even though a lesser number of units would enable such student to meet the quantitative requirement for the law degree.

COURSE OF STUDY

The course of study will be determined by the faculty and may be changed at any time. It will, as to both content and method, follow the standardized curricula of good law schools, with such modifications and additions as sound educational progress and conditions special to New Mexico indicate. Special work and services such as moot court and legal aid will be instituted as soon as possible. The tentative program of study is as follows:

TENTATIVE PROGRAM.

First Semester	FIRST YEAR	Second Semester	
Contracts	3	Contracts	3
Personal Property	2	Estates & Covenants	3
Torts	3	Torts	3
Civil Procedure	2	Civil Procedure & Exercises	3
Criminal Law	4	Agency and Partnership	3
Legal Bibliography	1		15
	15		
	SECOND YEAR		
Servitudes & Conveyancing	3	Trusts* **	3
Constitutional Law	3	Administrative Law**	3
Equity	2	Equity	2
Corporations	3	Evidence	3
Domestic Relations & Community Property**	2	Wills	2
Office Practice	1	Appellate Practice Court	1
Ethics***	1	Ethics***	1
	15		15
	THIRD YEAR		
Practice & Trial Practice Court	2	Practice & Trial Practice Court	2
Negotiable Instruments	3	Taxation**	3
Security (Suretyship and Mortgages)	3	Labor Law**	2
Legislation**	3	Conflicts**	3
Municipal Corporations**	2	Creditors Rights**	3
Irrigation Law**	1	Sales**	2
Mining, Oil and Gas	1		15
	15		

* Text and problem method.

** Elective. Substituted or added electives may later be selected by the faculty from Federal Jurisdiction and Procedure, International Law, Judicial Administration, Jurisprudence, Legal Method and Trade Regulation.

*** Ethics may be given for one hour every two weeks throughout the second and third years.

COLLEGE OF LAW

COMBINED COURSE OF STUDY LEADING TO TWO DEGREES

A candidate for the bachelor's degree in arts and sciences may offer (see page 87), in lieu of the last thirty hours at the University of New Mexico, the full first year's work (satisfactorily passed and properly certified) in the College of Law, provided:

(1) that written notice of this intention be submitted to the Dean of the College of Arts and Sciences before the end of the junior year; (2) that the first three years of work (94 semester hours and 4 P. E.) shall have been taken in residence at the University of New Mexico; (3) that, before entrance into the College of Law, the candidate shall have completed all specific and group requirements, and major and minor requirements, in accordance with University regulations; (4) that at least 75 per cent of the hours completed before entrance into the College of Law shall have been of "C" grade or better, and that the total of grade-points shall at least equal the total number of hours which the student has attempted.

OTHER DIVISIONS OF THE UNIVERSITY

THE GRADUATE SCHOOL

COMMUNICATIONS concerning graduate study should be sent directly to the Dean of the Graduate School. Communications in regard to admission to the Graduate School should be sent to the Director of Admissions. Transcripts in the possession of students are not acceptable, but should be sent to the Director of Admissions from each institution previously attended.

DEGREES OFFERED

Graduate work leading to the Master's degree is offered in the departments of Anthropology, Art Education, Biology, Business Administration, Chemistry, Economics, Education, Civil Engineering, Electrical Engineering, Mechanical Engineering, English, Geology, Government and Citizenship, History, Inter-American Affairs, Mathematics, Modern Languages and Literature, Music, Painting and Design, Philosophy, Physical Education, Physics, Psychology, Sociology, and a limited amount of work in Fine Arts.

The degree of Doctor of Philosophy is offered in American Civilization, Anthropology, Chemistry, English, History, Physics and Spanish.

Candidates should consult the head of the department concerned and the Dean of the Graduate School before registering.

ADMISSION

Graduates of any recognized college or university may apply for admission to the Graduate School, with a view to becoming candidates for degrees. Selection of advanced students is based on the scope and quality of the applicant's scholastic record, and his qualifications for independent study.

Graduates of institutions other than the University of New Mexico should file complete certified transcripts of their records with the Director of Admissions at least one month before registration. Any student may be refused admission if his previous college record is of such inferior quality as to indicate inability to pursue advanced work satisfactorily.

EXTENSION AND CORRESPONDENCE COURSES

The University accepts no graduate work by extension or correspondence from other institutions.

OTHER DIVISIONS

SCHOLARSHIPS, FELLOWSHIPS, AND ASSISTANTSHIPS

A number of scholarships, fellowships, and assistantships are available for graduate students. Application blanks may be obtained from the office of the Graduate School.

INFORMATION

For further information regarding advanced work and the conditions under which higher degrees may be obtained, consult the *Graduate Bulletin* or the Graduate Office.

SUMMER SESSION

A summer session of eight weeks is conducted each year on the campus. (For dates, see the Calendar.) Every attempt is made to meet specialized needs of the particular student group of the session. Emphasis is placed on advanced and graduate work. A special program is offered for teachers and school administrators. The summer climate is warm but delightful; nights are cool. The residential halls are regularly operated during the Summer Session. A separate bulletin on the Summer Session may be obtained by addressing the Director of the Summer Session, or the Director of Admissions.

FIELD SESSIONS

Field sessions are usually conducted each summer by the Departments of Anthropology, Art, and Engineering. Work in Biology and Geology is sometimes offered in the field. (For dates, see the Calendar.) Separate bulletins are published on the field sessions, and may be obtained by addressing the head of the department concerned.

EXTENSION DIVISION

The Division of Extension and Adult Education of the University is a member of the National University Extension Association. A special extension bulletin is issued each year, giving regulations and information concerning courses and services rendered by the Extension Division.

For a copy of the extension bulletin and further information, address the Director of Extension, Division of Extension and Adult Education, University of New Mexico, Albuquerque.

NAVAL RESERVE OFFICERS' TRAINING CORPS

THIS department is administered by officers of the United States Navy and Marine Corps under rules promulgated by the Navy Department.

The mission of the NROTC is to provide, by a permanent system of training and instruction in essential naval subjects at the University of New Mexico, a source from which qualified officers may be obtained for the Navy and Marine Corps; and for Naval Reserve and Marine Corps Reserve.

DEPARTMENT OF NAVAL SCIENCE

Captain Newsom, U.S.N., (Head), Professor; Commander Peterson, U.S.N., Associate Professor; Lieutenant Commander Bampton, U.S.N., Associate Professor; Lieutenant Commander Simmons, U.S.N., Assistant Professor; Lieutenant Robertson, U.S.N., Assistant Professor; Captain McLellan, U.S.M.C., Assistant Professor.

Students enrolled in the NROTC Unit, University of New Mexico, may be enrolled in any college in the University. NROTC students must pursue a course of study which will lead to a baccalaureate degree. Completion of the Naval Science requirements will constitute completion of a minor study in the College of Arts and Sciences.

FRESHMAN YEAR			
First Semester		Second Semester	
NS11 Naval Orientation & Seamanship	3	NS12 Communications, Ship Control & Naval Justice	3
SOPHOMORE YEAR			
NS51 Ordnance & Fire Control	3	NS52 Fire Control & Applied Naval Electronics	3
JUNIOR YEAR			
NS101 Piloting & Navigation	3	NS102 Navigation & Tactics	3
SENIOR YEAR			
NS151 Naval Machinery	3	NS152 Ship Construction & Stability Leadership and Latest Developments in Naval Science	3

Marine Corps subjects, given below, are substituted by Marine Corps applicants during junior and senior years.

JUNIOR YEAR			
NS101 Piloting & Navigation	3	NS102M Principles of War	3
SENIOR YEAR			
NS151M Tactics & Techniques	3	NS152M Amphibious Operations	3

INFORMATION FOR VETERANS

QUESTIONS AND ANSWERS ABOUT G. I. BILL 346

The following questions and answers are for veterans who are interested in filing claim under the G. I. Bill (346).

Q—Is there any way in which I can qualify for benefits under this bill on fewer than ninety days' active service?

A—Yes, if you were discharged on account of an injury or disability actually incurred while in service.

Q—What educational institutions may I select?

A—Any that will accept you if approved by The Governor's Approval Committee or The Veterans Administration.

Q—How soon must I claim my rights under the G. I. Bill?

A—Not later than four (4) years after date of your discharge from service or the close of World War II, whichever is the later.

Q—How long will this opportunity for training be open to me?

A—For nine (9) years after the close of World War II, but you must present your claims within four (4) years after your discharge or the close of the war, whichever is the later.

Q—What is the longest period for which a veteran may procure education for training under the G. I. Bill?

A—Four (4) years.

QUESTIONS AND ANSWERS ABOUT THE VOCATIONAL BILL

If you intend to apply under Public Law 16 (Vocational Rehabilitation), study the following questions and answers.

Q—How long must I have served in order to be eligible for vocational training under this bill?

A—So far as length of service is concerned, you are eligible if you have served in either the army or navy at any time between September 16, 1940, and the close of World War II.

Q—Must I be eligible to a pension before I can claim under this law?

A—Yes.

Q—Would such eligibility alone qualify me for benefits?

A—No. Your disability must be one which the Veterans Administration considers a vocational handicap.

Q—Must the disability have been incurred while I was in service?

A—Not necessarily. It might be a disability which existed when you entered the service, but has been aggravated by your service duties.

INFORMATION FOR VETERANS

Q—To how much vocational training am I entitled?

A—To whatever amount (not to exceed four [4] years) the Veterans Administration considers necessary to fit you for gainful employment.

Q—How long may I wait before applying for benefits under this bill?

A—The law goes out of effect nine (9) years after the close of World War II, but applications should be made early.

Q—What training institution may I enter?

A—Any one in your own state or in the region of the Veterans Administration in which your home is situated, or elsewhere if approved by the regional chief of the vocational rehabilitation and education division of the Veterans Administration.

Q—What studies or course of training may I select?

A—Any that the Veterans Administration will approve.

Q—To what financial benefits am I entitled while I am in training?

A—Allowance for all necessary tuition, fees, textbooks, supplies and equipment will be made to the institution or training agency in which you are enrolled. You are also entitled to subsistence allowance.

Q—Do I receive any compensation?

A—Yes, a monthly pension as approved by the Veterans Administration.

TYPICAL QUESTIONS FROM THE SERVICES

Q—Have you established any scholarships or loans to veterans?

A—The scholarships and awards of the University are listed on pp. 63-70. Although none of these is set up specifically for veterans a veteran would be eligible for them on the same basis as other students.

Q—May a veteran who has not been graduated from high school enter the University?

A—Yes. A veteran who is 19 years of age may enter as a special student, with permission of the Dean of his college; after two semesters he can petition to change to regular status. See p. 42.

Q—Will you admit a veteran who is not eligible, because of age, to enter under the "special student" ruling?

A—If a veteran is deficient in high school requirements but is not old enough to enter as a special student, he should write the Admissions office. Special consideration will be given to his case by the Committee on Entrance and Credits and he will be notified whether or not he is eligible for admission.

INFORMATION FOR VETERANS

Q—Will a veteran whose high school record is deficient be considered for admission if he demonstrates ability to do college work by examinations such as the general educational development test of the USAFI?

A—Yes.

Q—Will college credit be granted at the University of New Mexico to veterans for A.S.T.P., V-12, and other service training programs studied at colleges and universities?

A—Yes. Credit for college training programs will ordinarily be granted on the same basis as allowed by the offering college or university. The veteran should request that a transcript of his record be sent directly to the Admissions office wherever he expects to enroll. Such transcript will be considered on the same basis as the usual transfer of college credits.

Q—Does your institution give credit for basic or recruit training?

A—Yes. The University grants a maximum of eight semester hours credit for completion of basic or recruit training.

Q—Will college credit be granted for service courses, educational programs, and experience in the service?

A—If you received training in the armed forces in fields related to the educational program of the University, consideration will be given to the granting of college credit by examination. Application for such credit will be included in USAFI Form 47 intended for use while still in the service. Upon discharge, service personnel are issued papers which contain the information necessary for evaluation of service record (e. g., the Navy "Notice of Separation," the "Army Separation Qualification Record").

Q—May veterans enter at any time?

A—No. A student may not enter after the second week of the semester. (See the Calendar.)

Q—Does the veteran take a physical examination? Is medical attention provided? Does the University have an infirmary?

A—Veterans take the same physical examination as all new students. The University maintains a full-time physician and nurses, and an Infirmary. The local Veterans Hospital is conveniently located for services to veterans.

Q—Does your institution have a placement service?

A—A placement bureau is maintained for students preparing to be teachers. In other fields students are assisted through the General Placement Bureau and the departments in which they are majoring. Veterans under Public Law 16 are undergoing training for the specific purpose of restoring employability. Placement coun-

INFORMATION FOR VETERANS

seling given these veterans by the Veterans Administration helps find employment. For veterans under Public Law 346, the Manual of Advisement and Guidance, issued by the Veterans Bureau, states that Vocational Guidance will include placement counseling *if the veteran desires it*. In other words, a veteran will get assistance in his efforts to secure employment, suitable to his occupational capacities, as evaluated during the vocational advisement procedure. It will be noted that there is an Administrator of Retraining and Reemployment appointed by the President under Public Law 458, which is concerned with coördination of every federal state activity that has to do with vocational rehabilitation or education or training.

The veteran has at his disposal the services of the Veterans Employment Service and New Mexico State Employment Service, which is active in actually placing veterans in employment. The central state office of this service is located at 111 S. Sixth St., Albuquerque. The state's 13 local offices of this service for veterans are located at Albuquerque, 105 S. Sixth St., and in the following other cities: Santa Fe, Las Vegas, Raton, Clovis, Hobbs, Carlsbad, Roswell, Alamogordo, Las Cruces, Silver City, Gallup, Taos, and Tucumcari. There are, in addition, 10 full time detached offices located in Belen, Estancia, Socorro, Farmington, Española, Portales, Santa Rosa, Clayton, Hot Springs, and Reserve.

Q—Is physical education required of a veteran?

A—No.

Q—Does your institution provide campus employment for veterans?

A—Yes. Any student may apply for employment on the campus through the General Placement Bureau. Although the Bureau often places students in jobs off campus, such employment is usually obtained directly by the student.

DEGREES AND AWARDS

DEGREES CONFERRED

June Seventh, Nineteen Hundred Forty-seven

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

NAME:- MAJOR; MINOR

- Robert C. Aden: Anthropology; English/
Mable Price Alexander: Business Administration; English
Scott B. Anderson: Economics; English
Antonio Jose Apodaca: Inter-American Affairs; ———
Vito R. Armijo: Government; Spanish
• Robert Currie Barnard: Inter-American Affairs; ———
Elsie Myer Bell: Sociology; Psychology
Elizabeth Mary Benton: Inter-American Affairs; ———
Mitchell W. Bilderbeck: Government; History
John P. Bloom: Inter-American Affairs; ———
George Gordon Boyd: Economics; Physics, Mathematics
Gertrude Jane Bradt: History; English
Dorothy Strickland Brook: Business Administration; Biology
• LaVor Burnham: Government; History
Marion Burton: Business Administration; French
Eva S. Candelaria: Social Work; ———
C. Charles Castillo: Inter-American Affairs; ———
Abelicio M. Chavez: Government; Spanish, French
• Priscilla J. Chavez: Psychology; Philosophy
Judith Ann Cohn: Spanish; French
Walton W. Crymes: Sociology; Government
Sydney Lucas Curtis: Inter-American Affairs; ———
Rosalene Cutlip: Economics; Sociology
• Annelies Feil Dahlquist: Spanish; German
James Norman Daley: Government; Spanish
H. P. Daulton: English; Naval Science
Rupert C. Davies: Government; Naval Science, Economics
William E. Dickerson: Business Administration; Mathematics
M. Haydee DiDomenico S.: Inter-American Affairs; ———
Alfred Edward Dittert: Anthropology; Geology
Edward Dozier: Anthropology; Biology, History
• Laird J. Dunbar: Government; English
Joan Evans: Government; Sociology; English
William Fedorko: Economics; Sociology
Margaret Rose Fife: History; English
Jose Placido Garcia: Government; Naval Science, Economics
Eleanor Judith Gresser: Inter-American Affairs; ———
• John Wesley Gurley: Government; History
Avelino V. Gutierrez: Inter-American Affairs; ———
Josephine Gutierrez: Inter-American Affairs; ———
William Henry Hahn: Economics; Naval Science
• Kenneth Knowlton Harms: Inter-American Affairs; ———
Jack Windom Harris: Economics; Naval Science
Juanita Harrison: Social Work; ———
Jeannette Hurt Hereford: Inter-American Affairs; ———

- With distinction

DEGREES AND AWARDS

Jean Louise Hernandez: Inter-American Affairs; ———
 Ernest H. Hill, Jr.: Anthropology; English
 John Norman Hodges: Business Administration; Naval Science
 Suzanne Hodgman: Inter-American Affairs; ———
 Charles Kirby Hughes: Spanish; German
 David B. Keleher: Government; History
 Bettie Joe Kuykendall: Anthropology; History
 Ernest Lucero: Inter-American Affairs; ———
 Péter J. Lunardini: Spanish; Portuguese
 William F. McConnell: Anthropology; Sociology
 David R. McGiboney, Jr.: Spanish; English
 Marjorie A. Mach: Inter-American Affairs; ———
 Harold Bert Martin: English; History
 Alexander Hamilton Mencher: Anthropology; German
 Millicent Miller: Inter-American Affairs; ———
 Tomme Morris: Sociology; Psychology
 Findley Morrow: Government; History
 Nadine R. Mutch: Government; English
 Patricia Mutch: Anthropology; Geology
 Lafayette W. Newhouse: Inter-American Affairs; ———
 Boyd R. Ogden: English; Philosophy
 Virginia Lee Pendleton: Anthropology, History; ———
 Charles R. Pitchford: Business Administration; Naval Science
 Elizabeth Ann Roberts: Social Work; ———
 *Edward Joseph Simerka: Inter-American Affairs; ———
 Eleanor B. Sisty: Anthropology; Geology
 Elizabeth Grace Moore: History; Portuguese
 Orville Wade Smith: Business Administration; Naval Science
 Ronald O. Smith: Anthropology; Sociology
 Margaret Smith Starr: Government; English
 Valerie Ortrude Steger: Social Work; ———
 June C. Stejskal: Economics; Government
 Helen Louise Strickler: English; Drama
 Archer W. Stuart: Government; History
 Robert C. Taylor: Government; Naval Science
 Joseph Teeley: Business Administration; Mathematics
 Marilyn Terry: Business Administration; Mathematics
 John Daniel Vogel: English; History
 Jane Temple Watson: Anthropology; Art
 Glenn William White: Government, History; ———
 Charles G. Wiley: English; Naval Science
 Frances Miriam Wilson: Social Work; ———
 Joe W. Wood: Government; English

BACHELOR OF SCIENCE

NAME: MAJOR; MINOR

Patricia Bacon: Biology; Art
 Irby Gerald Bowen: Physics; Meteorology, Mathematics
 Janeanne Braun: Biology; English
 Jessie Virginia Chiles: Psychology; Sociology
 Andree F. Connery: Geology; Spanish
 Martin W. Eckert: Mathematics; Naval Science
 Robert Gafford: Biology; Chemistry
 Barbara Garst: Biology; Chemistry
 Herb Gerke: Psychology; Sociology
 Robert M. Gesler: Mathematics; Chemistry
 Walter Sam Henly: Chemistry; Biology

* With distinction

DEGREES AND AWARDS

Laura Edd Spencer Herrington: Biology; Spanish
 •Aileen C. Hibner: Biology; German
 Edwin McVay Kilian: Geology; Naval Science
 Mary Lou Lane: Biology; German
 •Leota Jean LaPaz: Geology; English
 Margaret V. Miller: Psychology; English
 Gerald James Mohr: Psychology; English
 Seth I. Neibaur: Chemistry; Mathematics
 Janet Evelyn Neumann: Biology; Psychology
 Jo Anne Perry: Geology, Biology; ———
 Charles E. Ruth: Biology; Psychology
 Mildred Louise Schaefer: Biology; English
 Gene Sumrell: Chemistry; Biology, Mathematics
 Maurine G. Trumble: Home Economics; Biology
 Karl L. Wehmeyer, Jr.: Geology; Naval Science
 Carleton Rex Williams: Mathematics; Naval Science
 George Timothy Younggren: Psychology; Naval Science

BACHELOR OF BUSINESS ADMINISTRATION

Lewis E. Alexander	Marvin O. Romme
John E. Anderson	Charles W. Sisty
Don Booth	Demetrius D. Sturges
Orren J. Bradley	Charles Quentin Underwood
Charles W. Cooper	Arthur L. Valdez (History minor)
Frederick L. Doar	Anthony Joseph Vasilakis (Government minor)
Bert L. Gentry	Helen Avis Watson
Martha Beth Hampton	William Conway White
Joseph Coats McCracken	Gordon G. Woods
John C. Marshall	Charles Robert Wyndham
Howard A. Romme	Frank Joseph Zellner

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Frederick S. Adams	Rudolph G. Gerdin
Darrell Francis Baker	Robert R. Hargett
William Harry Barricklow	William V. Hereford
Gunnar E. Dahlquist	Leo Katz
Donald H. Fairly	William M. Smalley
John Alexander Fairly, Jr.	*Leslie W. Wheeler
Eugene Milton Zwoyer.	

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Irwin A. Benson	Lee E. Johnson
John C. Cunningham	C. Donald Montgomery
Jose Flores	Norman W. Stunkard
John Jay Trammell	

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Roy F. Anderson	Paul Morgan Dugan
Val Gene Black	Herbert Otto Ellermeyer
Gregorio Brilovich	E. Price Hampson
Kenneth Brown	Weston Hale Mills
Frederick Freeman Carr	*Maxine Webb Rhien
Jo Oliver Davis	*Brenton N. Smith
Thomas Biard Yates, Jr.	

• With distinction

DEGREES AND AWARDS

BACHELOR OF SCIENCE IN NAVAL SCIENCE-ENGINEERING

George Arnot Mitchell

COLLEGE OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

NAME: MAJOR; MINOR; CURRICULUM

Frank D. Baca: Social Studies; ———; Elementary
Kathryne A. Ballweber: English; Home Economics, P.E.; High School
Esther Barry: History; Biology; Elementary
Lucille Boyle: History; English; High School
Edwina Candelaria: Music Education; Physical Education; High School
Aristides B. Chavez: Sociology; Government; High School
Lula Viola Cooper: Art Education; ———; High School
Lydia E. Costales: English; History; Elementary
Beverly Mae Covert: English; Psychology; High School
† Eleanor Suggs Crocker: Art Education; Home Ec., Physical Educ.; High School
Edith May Davenport: History; English; High School
Jean M. Degenford: Economics; History; High School
Pauline Dittmer DeKraker: Biology, English; ———; High School
Maria Dorothy Donkle: Art Education; ———; High School
Frank J. Donlin: Government; History; High School
Lawrence Raymond Felicetti: History; Government; High School
Patricia Irene Gallagher: English; Music Education; High School
Hulbert C. Hackett: History; Physical Education; High School
Mary Emily Hannett: English; History; High School
Orfa Lee Harrell: Government; English; High School
Hilda Lois Johnson: History; English; High School
Theodosia Killough: Government; History; Elementary
Anna L. Rafuse Lamb: Social Studies; ———; Elementary
Edwin Leupold, Jr.: Spanish; English; High School
Louise S. Lieberman: Spanish; Physical Education; Elementary
Anton V. Long: History, English; Spanish; High School
Manuel B. McBride: Government; Spanish; High School
C. W. McFall: Social Studies; ———; High School
Leon J. Marquez: Spanish; French; High School
Annette Nichols: History; Sociology; High School
Sarah Louise Palmer: Social Studies; Home Economics; High School
Maurice Pardue: Social Studies; ———; High School
Louise Primavera: Spanish; French; High School
Cosme Sanchez: Government; English; Elementary
Jesus E. Sanchez: Spanish; Economics; High School
Manuel S. Sanchez: Spanish; English; High School
Thomas B. Shaw: Spanish; History; High School
Maud Gilchrist Summers: Art Education; ———; High School
Sabine R. Ulibarri: Spanish; English; High School
Paul Valerio: English, Spanish; ———; High School
Geraldine Viola Vigil: History; English; High School
Margaret Jane Weir: English; Music Education; High School
George Whitener: Music Education; Business Administration; High School
Agnes M. Winkler: English; History; Elementary

BACHELOR OF SCIENCE IN EDUCATION

NAME: MAJOR; MINOR; CURRICULUM

Joan F. Anderson: Commercial Education; English; Commercial
Nellie Mier Brooks: Adm. and Superv.; Spanish; Adm. and Superv.

† With honors

DEGREES AND AWARDS

Charles Leslie Clawson: Adm. and Superv.; English; Adm. and Superv.
Antonio B. Cordova: Adm. and Superv.; Spanish; Adm. and Superv.
Hipolito B. Cordova: Adm. and Superv.; Spanish; Adm. and Superv.
Daisy E. Dickenson: Commercial Education; English; Commercial
Marjorie Walter Ermons: Commercial Education; Business Adm.; Commercial
Frances Bonnell English: Home Economics; ———; Home Economics
Mary Jean Gallagher: Elementary Education; ———; Elementary
John M. Keach: Geology; Biology; High School
Gertrude Kolb: Elementary Education; ———; Elementary
Joann Breech McClendon: Biology; History; High School
Naomi Helen Martinez: Home Economics; ———; Home Economics
Mary Edith Moran: Elementary Education; ———; Elementary
Rose B. Prieto: Elementary Education; Spanish; Elementary
Patricia Ann Reedy: Commercial Education; Economics; Commercial
Virgie Romero Sanchez: Adm. and Superv.; Spanish; Adm. and Superv.
Harriet Elizabeth Withers: Elementary Education; ———; Elementary
Ruby Lovina Wyper: Home Economics; ———; Home Economics
Thelma Loudon Hayes: Home Economics; ———; Home Economics

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

NAME: MAJOR; MINOR; CURRICULUM

Roy Lenard Anderson: Physical Education; History; Physical Education
Johnnie L. Caton: Physical Education; ———; Physical Education
Ethyle Stewart Mullins: Physical Education; ———; Physical Education
Fred Stanley Frogge: Physical Education; ———; Physical Education

COLLEGE OF FINE ARTS

BACHELOR OF FINE ARTS IN ART (PAINTING AND DESIGN)

Betty Lorena Caldwell	Charles S. Mondragon, Jr.
Frances Marian Fee	Willie Warder
Paul Ralph Lawrence	Rudolph F. Wedow

BACHELOR OF FINE ARTS IN DRAMATIC ART

John B. Conwell	*Orien L. Stein
Kathryn McIntosh Ely	Carolyn Tormoehlen

BACHELOR OF FINE ARTS IN MUSIC

Winifred V. Basey	Elizabeth M. Sisk
Marguerite Boyle	Barbara Stallard
	Lou Ann Wilton

BACHELOR OF FINE ARTS

Betty Lou Wilton

GRADUATE SCHOOL

MASTER OF ARTS

NAME: MAJOR

Harold Lindsay Amoss, Jr.: Anthropology
Frederick Mason Bacon: Education Administration
Grace G. Berry: Education Administration
Ira A. Bogard: History
Charles Orlando Bullock: Education Administration
Robert Northcutt Burlingame: English
Gloria Alberta Campbell: Education Administration

* With distinction

DEGREES AND AWARDS

Mrs. Jim Mae Coy: Psychology
John W. Coy: Mathematics
Robert L. Dowell: Education Administration
Robert W. Duke: History
George Lester Edie: Education Administration
Alice Belle Gordon: English
Philip J. Granato: Spanish
Sherman C. Hamar: Education Administration
Samuel Howell King: Psychology
Mary McFie Lackey: Secondary Education
Emilio Lopez: Education
Walter L. McNutt: Government
Fred Melton: Education Administration
Lewis Maxwell Middleton: Education
Frank Cecil Moore: Sociology
Charles Francis Renfro: Education Administration
Margaret Scheuer: Education
Gideon Sjoberg: Sociology
Omer S. Spurlock: Education Administration
Clory Tafoya: Education Administration
Eugene L. Thomson: Education Administration
Wilfred Ernest Torres: Government
Venturita P. Van Buskirk: Education
Eliud Vasquez: Government
Clarence Elvin Walter: Education Administration
Rufus Charles Waltrip: Education
Claude Wilson Webb: Education Administration
Victor Walter Westphall: History

MASTER OF SCIENCE

NAME: MAJOR

George Kenner Cantrell: Psychology
Earl B. Gerheim: Biology
Leonardo Gutierrez: Electrical Engineering
Josephine Mary Hawrylko: Zoology
George Leon Server: Civil Engineering

DOCTOR OF PHILOSOPHY

NAME: MAJOR

Hector H. Lee: American Civilization
Marie Pope Wallis: Spanish and Ibero-American Literatures

HONORARY DEGREES

NAME: DEGREE

Fray Angelico Chavez: Honorary Master of Arts
Ernest L. Blumenschein: Honorary Master of Fine Arts
Kirk Bryan: Honorary Doctor of Science
J. Robert Oppenheimer: Honorary Doctor of Science
Clarence Addison Dykstra: Doctor of Laws

TWO-YEAR CERTIFICATES AND DIPLOMAS

CERTIFICATE OF SECRETARY-INTERPRETER WITH SPECIALIZATION IN INTER-AMERICAN AFFAIRS

Bertha Catalina Gonzales

Josephine Gutierrez

DEGREES AND AWARDS

GENERAL COLLEGE DIPLOMAS

(Two-Year Course)

Alfred Coulloudon	Marvin D. Lewis
John T. Deming	Charles Lukens
Jeanette Devine	Leon Malkin
Meliton M. Gonzales	George Martin
Charles R. Greer	Hurald Miller
Louise Griffin	James R. Murray
Kean Griffith	Thomas St. John
Donald Hathaway	Burton C. Smith
Charles F. Headen	James H. Smith
James M. Holmes	Elizabeth Spelts
Edward Klein	George Sturgis

William F. Townsend

AWARDS AND SCHOLARSHIPS, 1947-48

The Association of University Women Scholarship—MRS. CONSTANCE SEARS
The Philo S. Bennett Scholarship—MISS ALICE CREECY
Clarence Milton Botts, Jr., Memorial Scholarship—MR. LARRY J. GORDON
James M. Doolittle Scholarship—MISS CAROL CRAWFORD
The Faculty Women's Club Scholarship—MISS BILLIE VERN LOWANCE
The Alfred Grunsfeld Memorial Scholarships—MR. SEYMOUR S. ROVNER, MR. ROBERT G. B. KENYON
The Miriam N. Grunsfeld Scholarships—MISS C. OLIVE FARNSWORTH, MISS JOAN TAUL
The Ives Memorial Scholarships—MISS BETTY LOU TROGAN, MISS BETTY RUTH COX, MISS DELORES HEATH
The Frederick Herbert Kent and Christina Kent Scholarships—MR. GEORGE JOHN-SON, MISS SUSANNE HERNANDEZ, MISS KATHLEEN KEPNER
The Newman Club Scholarship—MR. MARK SURFUS
The Phrateres Club Tuition Scholarship—MISS HELEN PATRICIA SWOPE
The Spur Sophomore Scholarship—MISS EILEEN KREFFT
Taos Art Scholarship—MISS AGNES MARTIN
The Thomas M. Wilkerson Memorial Scholarship—MR. CHARLES J. METZLER
Alpha Delta Pi Prize—MISS MARTHA PORTER
Dove Asch Prize—MISS EVELYN GLASEBROOK, MISS GRETCHEN SAMMIS
Honorable Mention—MISS JONNIE HIGHT, MISS MARILYN GLASEBROOK, MISS BILLIE VERN LOWANCE
George E. Breece Prize in Engineering—MR. LESLIE W. WHEELER
The Chi Omega Prize in Economics—MISS JOAN TAUL
The Charles Florus Coan Prize—MISS GERALDINE VIOLA VIGIL
The Marian Coons Kindness Prize—MISS HELEN NAOMI MARTINEZ
The Harry L. Dougherty Memorial Prize in Engineering—MR. MARVIN W. CAUSEY
The Charles Le Roy Gibson Prize—MR. WALTER SAMUEL HENLY
The H. J. Hagerman Prize—MISS JOAN TAUL
The Telfair Hendon, Jr., Memorial Prize—MRS. PAULINE DITTMER DEKRAKER
The William A. McCarthy Prize—MR. ROBERT W. DUKE
The Marcella Reidy Mulcahy Memorial Prize—MR. JOHN E. DORAN
The New Mexico Section of the American Society of Civil Engineers Award—MR. EUGENE M. ZWOYER
Phi Kappa Phi Prizes—NO AWARD
Phi Kappa Phi Senior Prize—MISS LEOTA JEAN LAPAZ
Rose Rudin Roosa Prize—MISS MILDRED FARIS
The George St. Clair Memorial Prize—MR. ORIEN STEIN
The Katherine Mather Simms Memorial Prize—MR. F. W. FULLER
Honorable Mention—MR. HUGH JENKINS, MR. JOHN TROWBRIDGE, MR. JOHN MASIT, MR. THOMAS CALKINS

DEGREES AND AWARDS

The "Thunderbird" Award—MR. STARR JENKINS

The Lenna M. Todd Memorial Prize—MR. MILTON GOLDBERG, MR. JOHN E. TROW-
BRIDGE, MR. MAURO A. MONTOYA, MR. L. B. WALLERSTEIN,
MR. EDGAR WARREN SMITH

Honorable Mention—MR. W. H. RICHARDSON, MR. I. A. GALLEGOS

The Sigma Alpha Iota Patroness Award—MISS GEORGIA GREEN

English Department Faculty Poetry Award—MR. GEORGE MATHER, MR. BOYD R.
OGDEN, MR. WID O. NEIBERT

The C. T. French Medal—MR. KENNETH KNOWLTON HARMS

The Phi Sigma Medal in Biology—MR. CARL F. CRAMER

ENROLLMENT STATISTICS

CLASSIFICATION OF STUDENTS

Classification of students in the various undergraduate colleges is based upon the following standards of credit hours earned toward a degree in the respective college:

	<i>Freshman</i>	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>
Arts & Sciences	0-28	29-60	61- 94	95-
Business Adm.	0-28	29-60	61- 94	95-
Education	0-28	29-60	61- 94	95-
Engineering	0-32	33-65	66-102	103-
Fine Arts	0-31	32-63	64- 97	98-
Pharmacy	0-32	33-65	66-102	103-
General	0-28	29-64		

STATISTICS FOR 1947-48

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Semester I, 1947-48	3304	1192	4496
Semester II, 1947-48	3241	1094	4335
Summer Session, 1947	1128	448	1576
Field Sessions, 1947	83	58	141
*Correspondence Courses	62	132	194
*Extension Courses	25	129	154

* February 1, 1947-November 30, 1947

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**UNIVERSITY OF NEW MEXICO
COLLEGE OF LAW**

Application for Admission
(For College of Law applicants only)

Name Date of Birth.....
 Home Address
 Local Address Telephone.....
 Marital Status Children..... Veteran?.....
 Are you a resident of this State, and if so, for how long?.....

Record of Pre-Legal Work:

All Colleges or Universities You Have Attended	Inclusive Dates	Grade Average	Total Hours *

* If a degree was received, please note the same under "Total Hours."

Are you expecting to receive your B.A. (or equivalent) in addition to your LL.B. Degree?

Have you at any time studied in a law school either as an undergraduate or a graduate, and if so, state where and dates?.....

Have you studied law apart from attending a law school?

Have you at any time applied for admission to any law school other than New Mexico? If so, give date of each such application and state whether granted or denied.

To what extent do you expect to engage in outside employment while attending law school?

Date

Signature

(College of Law applicants file also general application for admission)

APPROVAL:

Residence Credit Hours Grade Points

Requirements for A.B. or equivalent degree

THE UNIVERSITY OF NEW MEXICO

APPLICATION FOR ADMISSION

(This form is to be mailed to the Director of Admissions, University of New Mexico, Albuquerque, New Mexico)

No application will be acted upon until all necessary transcripts are received.

Name _____ (Last) _____ (First) _____ (Middle) _____ (Check) Mr. Miss Mrs.

Permanent Address _____

Present Address if Different from Permanent Address _____

Age _____ Date of Birth _____ Race _____ Married? _____

Have you been a member of the U. S. Armed Forces? _____

Are you applying for admission under the G. I. Bill 346? _____

Public Law 16? _____ Of What Country are you a citizen? _____

Nationality of Parents: Father _____ Mother _____

Underline the college you expect to enter:
Arts and Sciences, Education, Engineering, Fine Arts, Pharmacy,
Business Administration, General College (two-year),
Law † Graduate School

What will be your major field of study? _____ Minor? _____

Underline the session for which you expect to enroll: Semester I,
Semester II, Summer, Field Session in _____

Name of high school last attended _____ Date of graduation _____

Location of high school _____ City _____ State _____

If not a high school graduate, have you taken the USAFI Development Tests? _____ Where? _____ When? _____

Have you previously enrolled in the University of New Mexico? _____

Residence ☐, extension ☐, or correspondence ☐, courses? _____

In which session were you last enrolled? _____

List all other colleges or universities attended, and dates of attendance:
(Indicate extension or correspondence enrollment also)

(Failure to comply fully with this request will be considered a serious breach of honor)

† Law applicants file also "College of Law Application for Admission."

(Over)

Of what college or university are you a graduate? -----

What degree? ----- When conferred? -----

Are you eligible to return to the institution last attended if you desire to do so? ----- Do you plan to work toward a degree at the

University of New Mexico? ----- Are you having official transcripts sent to us from all institutions attended? -----

Parent's name and permanent address -----

or Guardian's name and permanent address -----

Of what city and state are you a resident? -----

If a resident of New Mexico, give dates of residence: -----

Will you need University housing? -----

*Are you enclosing the \$5.00 evaluation fee? (Required only of non-veteran applicants transferring from other colleges. See p. 39 of Catalog)

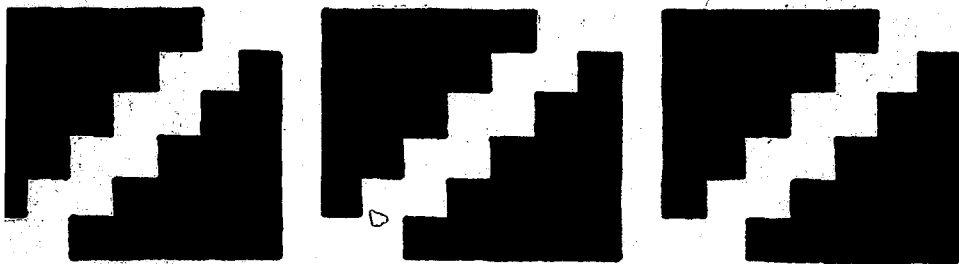
I certify that the above information is correct. Dated:-----

Signed: -----

(Applicant's usual signature)

* Non-refundable.

**POSTMASTER: Return within five days to the
University of New Mexico,
Albuquerque, New Mexico.
Return postage guaranteed.**



**To the Student: Retain this Catalog for
use in registration.**