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For further information on the University program, address inquiries as follows:

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STUDENT EMPLOYMENT (Women) .............................Dean of Women

PERSONAL WELFARE ..................................Dean of Women or Men

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EXPENSES ......................................................Comptroller

VOCATIONAL INFORMATION, COUNSELING, TESTING ........Director of Admissions

CORRESPONDENCE AND EXTENSION COURSES ............Extension Division

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Art .....................................................Head of the Department of Art

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SCHOOL OF LAW .......................................Dean of the School of Law

INTER-AMERICAN AFFAIRS ...........Director of the School of Inter-American Affairs

HOUSING—MARRIED STUDENTS .................Director of Housing Project
The University of New Mexico

BULLETIN

Fifty-Eighth Catalog Issue
1949-1950

Whole Number 426

Catalog Series, Volume 62, No. 3

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

1949
CAMPUS OF THE UNIVERSITY OF NEW MEXICO

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. Hodgin Hall
12. Hokona Hall (Women's Dormitory)
13. Inter-American Affairs
14. Library
15. Lecture Hall
16. Men's New Dormitory
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 Reynolds Hall
25. Music Building
26. Stadium
27. Swimming Pool
28. Tennis Courts
29. Printing Plant
30. Chemical Engineering
31. Baseball Field
32. Pharmacy Building
33. Publications Building
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
R-1 Art, Home Economics
T-6 to T-21 Women's Dormitories
T-10 Infirmary
T-20 Women's Recreation Building
Y-1 Classrooms
### CALENDAR OF THE UNIVERSITY

#### 1949

<table>
<thead>
<tr>
<th>JANUARY</th>
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#### FEBRUARY

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### SUMMER SESSION, 1949

New Students, Tests & Instructions, Thursday-Friday, June 9-10
Registration, Saturday, June 11
Instruction Begins; Late Registration Fee Applies, Monday, June 13, 7:00 a.m.
Registration Closes; Last Day for Additions to Programs of Study; Change of Program Fee Applies, Saturday, June 18
Independence Day, Holiday, Monday, July 4
Session Ends, Saturday, August 6, 10:00 p.m.

### FIELD SESSIONS, 1949

#### Anthropology:
- General Field Session, Thursday-Friday, June 9-July 22
- Advanced Field Session (6 weeks), Thursday-Friday, June 9-July 22
- Advanced Field Session (4 weeks), Saturday-Saturday, August 6-September 3

#### Art:
- Taos Field School of the Arts, Friday-Saturday, June 10-August 6

### SEMESTER I, 1949-50

New Students, Tests and Instructions, Monday-Tuesday-Wednesday, September 14-15
Registration, Thursday-Friday, September 16-17
Late Registration Fee Applies, Saturday, September 17
Instruction Begins, Monday, September 19
Registration Closes; Last Day for Additions to Programs of Study; Change of Program Fee Applies, Saturday, October 1
Mid-Semester, Saturday, November 12
Homecoming, Holiday, Saturday, November 19
Thanksgiving Recess Begins, Wednesday, November 23, 10:00 p.m.
Classes Resume, Monday, November 28, 7:00 a.m.
End of Twelfth Week; Last Day for Removal of Incomplete Grades, Saturday, December 10
Christmas Recess Begins, Saturday, December 17, 16:00 p.m.
Classes Resume, Tuesday, January 3, 7:00 a.m.
Pre-examination Week, Monday-Monday, January 16-23
Semester Final Examinations, Monday-Saturday, January 23-28
Semester Ends, Saturday, January 28, 10:00 p.m.
**CALENDAR OF THE UNIVERSITY**

**SEMESTER II, 1949-50**

- **New Students, Tests and Instructions,** Tuesday-Wednesday, January 31-February 1
- **Registration,** Thursday-Friday, February 2-3
- **Late Registration Fee Applies,** Saturday, February 4
- **Instruction Begins,** Monday, February 6
- **Registration Closes; Last Day for Additions to Programs of Study; Change of Program Fee Applies,** Saturday, February 18
- **Mid-Semester, Saturday,** April 1
- **Easter Recess Begins,** Wednesday, April 5, 10:00 p.m.
- **Classes Resume,** Monday, April 10, 7:00 a.m.
- **End of Twelfth Week; Last Day for Removal of Incomplete Grades, Saturday,** April 29
- **Pre-examination Week,** Monday-Monday, May 22-29
- **Semester Final Examinations,** Monday-Saturday, May 29-June 3
- **Semester Ends,** Saturday, June 3, 10:00 p.m.
- **Baccalaureate Service,** Sunday, June 4, 8:00 p.m.
- **Commencement Exercises,** Monday, June 5, 8:00 p.m.

**SUMMER SESSION, 1950**

- **New Students, Tests and Instructions,** Thursday-Friday, June 8-9
- **Registration,** Saturday, June 10
- **Instruction Begins; Late Registration Fee Applies,** Monday, June 12, 7:00 a.m.
- **Registration Closes; Last Day for Additions to Program of Study; Change of Program Fee Applies,** Saturday, June 17
- **Independence Day, Holiday,** Tuesday, July 4
- **Session Ends,** Saturday, August 5, 10:00 p.m.

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</table>

---
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Regents of the University</td>
<td>8</td>
</tr>
<tr>
<td>Administrative Offices and Officers</td>
<td>9</td>
</tr>
<tr>
<td>Faculty</td>
<td>11</td>
</tr>
<tr>
<td>General Information</td>
<td>26</td>
</tr>
<tr>
<td>Admission</td>
<td>38</td>
</tr>
<tr>
<td>Student Expenses</td>
<td>46</td>
</tr>
<tr>
<td>Student Personnel Services</td>
<td>54</td>
</tr>
<tr>
<td>General Academic Regulations</td>
<td>73</td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>84</td>
</tr>
<tr>
<td>School of Inter-American Affairs</td>
<td>90</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>100</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>154</td>
</tr>
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<td>Departments of Instruction</td>
<td>156</td>
</tr>
<tr>
<td>College of Education</td>
<td>182</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>188</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td>214</td>
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<tr>
<td>Departments of Instruction</td>
<td>216</td>
</tr>
<tr>
<td>College of Pharmacy</td>
<td>242</td>
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<tr>
<td>Departments of Instruction</td>
<td>245</td>
</tr>
<tr>
<td>College of Business Administration</td>
<td>249</td>
</tr>
<tr>
<td>Department of Instruction</td>
<td>254</td>
</tr>
<tr>
<td>General College</td>
<td>261</td>
</tr>
<tr>
<td>College of Law</td>
<td>268</td>
</tr>
<tr>
<td>Department of Instruction</td>
<td>276</td>
</tr>
<tr>
<td>The Graduate School</td>
<td>282</td>
</tr>
<tr>
<td>Naval Reserve Officers' Training Corps</td>
<td>284</td>
</tr>
<tr>
<td>Other Divisions of the University</td>
<td>285</td>
</tr>
<tr>
<td>Summer Session</td>
<td>285</td>
</tr>
<tr>
<td>Field Sessions</td>
<td>285</td>
</tr>
<tr>
<td>Extension Division</td>
<td>285</td>
</tr>
<tr>
<td>Degrees and Awards</td>
<td>286</td>
</tr>
<tr>
<td>Enrollment Statistics</td>
<td>297</td>
</tr>
<tr>
<td>Index</td>
<td>299</td>
</tr>
<tr>
<td>Applications for Admission and Housing</td>
<td>(End of Catalog)</td>
</tr>
</tbody>
</table>
THE REGENTS OF THE UNIVERSITY

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Charles Rose, State Superintendent of Public Instruction of New Mexico, ex officio ..................Santa Fe

Judge Sam G. Bratton, President ....................Albuquerque

Jack Korber, Vice-President .........................Albuquerque

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Comptroller's Office
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EDWARD FRANKLIN CASTETTER, B.S., Lebanon Valley College; M.S., Pennsylvania State College; Ph.D., Iowa State College. Professor of Biology, Head of the Department of Biology.
RAYMOND N. CASTLE, B.S., University of Idaho; M.A., Ph.D., University of Colorado. Assistant Professor of Pharmaceutical Chemistry.
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FACULTY

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RANDALL DAVEY, N.A.; Study in the United States, Holland, France, and Spain. Associate Professor of Art.

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GWENDOLYN DAWSON, Juilliard Graduate School. Instructor in Piano.

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THOMAS C. DONNELLY, B.A., Marshall College; M.A., Ph.D., New York University. Dean of the College of Arts and Sciences and of the General College, Professor of Government and Citizenship, Head of the Department of Government and Citizenship.

Cecil A. Dooley, Instructor in Physical Education.

Marjorie L. Dooley, Instructor in Physical Education.

Ralph W. Douglass, B.A., Monmouth College. Professor of Art.

John W. Dunbar, B.S., Indiana State Teachers College; M.S., Detroit Institute of Technology; C.P.A. Assistant Professor of Business Administration.

Julian Smith Duncan, B.A., M.A., University of Mississippi; B.D., Emory University; Ph.D., Columbia University. Professor of Economics, Head of the Department of Economics.

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FACULTY

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KURT FREDERICK, Graduate of the State Academy of Music and State College of Music in Vienna; student of Sevcik, Odnosoff (Violin), Primrose (Viola), Franz Schmidt (Theory). Associate Professor of Music.

STEPHAN SHOLOM FRIEDLAND, B.A., Brooklyn College; M.A., University of Pennsylvania; Ph.D., New York University. Assistant Professor of Physics.

DAROL KENNETH FROMAN, B.Sc., M.Sc., University of Alberta; Ph.D., University of Chicago. Consulting Professor of Physics.

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CHARLES THERON GRACE, B.S., University of Colorado; M.S., University of Illinois. Associate Professor of Mechanical Engineering.

DOUGLASS M. GRAGG, B.A., University of Texas. Instructor in Mathematics.

ALFRED M. GRANUM, Captain, U.S.N.; B.S., United States Naval Academy; M.S., Harvard University. Professor of Naval Science; Commanding Officer, Navy R.O.T.C. Unit.

† On leave of absence, 1948-49.
FACULTY

MERCEDES GUGISBERG, B.S., M.S., University of Minnesota. Associate Professor of Physical Education, Head of the Department of Physical Education for Women.

LEZ LEWIS HAAS, B.A., M.A., University of California. Associate Professor of Art, Head of the Department of Art.

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FLORENCE MAY HAWLEY, B.A., M.A., University of Arizona; Ph.D., University of Chicago. Assistant Professor of Anthropology.

LUCY LOCKWOOD HAZARD, B.A., University of Redlands; M.A., Ph.D., University of California. Assistant Professor of English.

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** For the academic year 1949-50.
FACULTY

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DOUGLAS HUMM, B.S., Yale University; Ph.D., Stanford University. Assistant Professor of Biology.

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RAYMOND JONSON, Chicago Academy of Fine Arts; Art Institute of Chicago; Portland, Oregon, Art School; Chicago Little Theatre. Associate Professor of Art.

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ESTHER E. KNIGHT, B.S., Colorado State College; M.S., Iowa State College. Assistant Professor of Home Economics.

† On leave of absence, 1948-49.
FACULTY

CLINTON H. S. KOCH, B.A., Hamline University; M.A., University of New Mexico. Assistant Professor of Modern Languages.

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WILLIAM MARTIN KUNKEL, Kimball School of Music; student of Angelo Lanciers, Fred Guilford, flutists; student of violin under Isador Tootswyk of Yale Music School; flute soloist with John Philip Sousa’s Band. Assistant Professor of Music.

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Elma Harrison Richardson, B.S., University of Texas; M.A., University of Southern California. Instructor in Physical Education.

Jesse LeRoy Riebsomer, B.A., DePauw University; Ph.D., Cornell University. Professor of Chemistry, Director of the Summer Session.

Harold Orville Reid, B.A., Nebraska Wesleyan University; M.A., Ph.D., University of Nebraska. Assistant Dean of the College of Arts and Sciences and of the General College, Assistant Professor of Speech.

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George Robert, Student of piano with Edward Steuermann, of music theory with Anton von Webern; concert pianist; member of "First Piano Quartet"; played over NBC network for two years; accompanist for several well-known concert artists. Associate Professor of Music.

William H. P. Robertson, Lieutenant, U.S.N.; B.S., United States Naval Academy. Assistant Professor of Naval Science.

Harold Fitzman Rogers, B.S., Illinois College; M.A.; University of Illinois. Assistant Professor of Mathematics.

Richard John Runge, B.S., University of Chicago. Instructor in Physics.

William Barton Runge, B.S., M.Ed., Colorado State College. Assistant Professor of Distributive Education.

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†Lyle Saunders, B.A., M.A., University of New Mexico. Assistant Professor of Sociology.

Morton Gerald Schoenfeld, B.Mus., Rollins College; M.Mus., University of Wisconsin. Assistant Professor of Music.

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VICTOR VIO SEARCY, B.S., M.S., Oklahoma Agricultural and Mechanical College. Instructor in Chemistry.

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RAMÓN JOSÉ SENDER, B.A., Instituto de Zaragoza; Licenciado en Filosofía y Letras, Universidad de Madrid. Visiting Professor of Spanish.

WILMA L. SHELTON, B.A., B.L.S., University of Illinois. Librarian Emeritus. Professor of Library Science, Head of the Department of Library Science, Readers’ Adviser.

KENNETH G. SIMMONS, Lieutenant Commander, U.S.N.; B.S., United States Naval Academy. Assistant Professor of Naval Science.

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Winfred George Steglich, B.A., Concordia Seminary; M.A., University of Texas. Instructor in Sociology.

Richard Earl Strahlem, B.S., M.S., Indiana University. C.P.A., State of Indiana. Professor of Business Administration, Acting Comptroller of the University.

Maud Summers, B.A., M.A., University of New Mexico. Instructor in Art.

John Francis Suttle, B.A., University of Colorado; Ph.D., Western Reserve University. Assistant Professor of Chemistry.

Ralph Wilver Tapy, B.S. in E.E., E.E., Rose Polytechnic Institute; M.S. in EE., University of Michigan. Professor of Electrical Engineering, Head of the Department of Electrical Engineering.

John Tatsch, M.A., Academy of Fine Arts, Vienna. Assistant Professor of Art.

† On leave of absence, 1948-49.

* Deceased, November 12, 1948.
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DONALD DAVID THOMAS, B.S., M.S., University of Wyoming. Instructor in Civil Engineering.

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GUS TOM ZORN, B.S., Oklahoma Agricultural and Mechanical College. Department of Physics.
GENERAL INFORMATION

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.

ACCREDITING

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 1948, the College of Pharmacy was accredited by the American Council on Pharmaceutical Education. The College of Law was provisionally approved by the American Bar Association in February, 1948, and was admitted to membership in the Association of American Law Schools in December, 1948.

SITUATION

The University is situated in Albuquerque, a metropolitan area of 100,000 inhabitants. The campus lies a mile above sea level on a plateau overlooking the Rio Grande, and about 12 miles from the lofty Sandia mountains. Albuquerque is noted for its dry and sunny climate. Although the weather undergoes the normal seasonal changes, temperatures are not extreme.

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 of the same year. Its development in the sixty years since its incep­tion has been extraordinary. The 20 acres allotted by the Territorial Legislature for a campus have become more than 400; buildings have increased from a single structure to sixty-five. Enrollment has grown from one college enrollee in 1895-96 to 4,921 registered in the fall of 1948.

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 27 departments, and toward the doctor's degree in eight.

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.
GENERAL INFORMATION

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: Hodggin 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 Reynolds 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; Pharmacy Building; Chemical Engineering Building; and several temporary buildings housing classrooms, laboratories and offices. A dormitory to accommodate 400 men students, and a new Press and Journalism building are under construction.

THE LIBRARY

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 250,000 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.

RESOURCES. Library collections include 163,000 cataloged and accessioned volumes, several thousand other cataloged serials and
pamphlets, 3,000 filing boxes of manuscripts, documents and other archival material, 854 reels of microfilm, 32,000 maps, several thousand pamphlets and pictures, and 472 sound recordings. These 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 20,226 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
GENERAL INFORMATION

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

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 7:45 a.m. to 6:00 p.m. and 7:00 to 10:00 p.m., Mondays through Fridays; from 7:45 a.m. to 5:00 p.m. Saturdays; and Sundays, from 1:30 to 5:30 p.m.

MUSEUMS AND EXHIBITIONS

ANTHROPOLOGY MUSEUM

Pending the erection of the new Science Building, the anthropological collections are temporarily on exhibit in the halls of the Administration Building. 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, includes five annual exhibitions as follows: Albuquerque Artists, The General Student Exhibi-
GENERAL INFORMATION

Exhibitions, Faculty Exhibition, Graduate Student, and visiting summer session professors' exhibition. There are also numerous group and individual shows. New Mexico stands among the first of the states in the number of recognized artists resident within its borders and their presence makes it possible for the University to maintain high standards of excellence in its exhibitions.

Four important murals also 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, at one time Latin-American Artist in residence.

RESEARCH ACTIVITIES

THE BUREAU OF BUSINESS RESEARCH

Ralph L. Edgel, Assistant Professor of Economics and Business Administration, Director; 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. So that businessmen and others may keep abreast of the current economic situation, the Bureau publishes New Mexico Business, a monthly bulletin which carries indexes of business activity and short articles concerning business conditions in New Mexico. The Bureau also acts in the capacity of consultant.
GENERAL INFORMATION

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; Vincent Kelley, Professor of Geology, Secretary; Richard E. Strahlem, Acting 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 coordinate research activities involving more than one department when such coordination is necessary.

THE DIVISION OF RESEARCH OF THE DEPARTMENT OF GOVERNMENT

Jack E. Holmes, Instructor in 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 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.

The Division has completed and published nineteen studies on subjects pertinent to education, finance, government and public lands in New Mexico.

Other functions of the Division include the training in research of 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 cooperate 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 METEORLITICS
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. Frederick C. Leonard, Professor of Astronomy, University of California, Los Angeles, California.
Dr. Fletcher Watson, Harvard College Observatory, Cambridge, Massachusetts.
Dr. Helmut E. Landsberg, Research and Development Board, Pentagon Building, Washington, D. C.
GENERAL INFORMATION

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

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, but also to stimulate the use of meteoritical knowledge in such practical subjects as high altitude ballistics, rocketry, and other mili-
tary 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 photodryer 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 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, 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.

Recreational activities in the city include a Little Theatre, several concert series, an ice-skating arena, a public beach, riding stables, and various sports events.
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 2½ units of mathematics which must include 1½ units of Algebra and 1 unit of Plane Geometry. (See Removal of Entrance Deficiencies, p. 40.)

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.
ADMISSION

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. If a deficiency is removed by college credit, such credit must be earned in the field in which the deficiency occurs. 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 veterans and, in the case of civilians, is used as the matriculation fee when the student registers in the University; it is not refundable.

It is not possible to give any information in regard to standing until the required credentials are on file. After the application, transcripts, and evaluation fee have been received, a notice of acceptance or rejection will be sent to the student. An evaluation of the transferred credit will be made as soon thereafter as possible. If the student receives his evaluation prior to registration, he should retain it for use at that time.

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. 39) 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.

Applicants from unaccredited institutions must have a 1.5 index in order to be eligible for transfer. 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
ADMISSION

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
ADMISSION

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.

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 apportioned as follows: First Aid, two semester hours; Hygiene, two semester hours; Physical Education Activity, four semester hours. 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
ADMISSION

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 "Graduate School."

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.

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 associates. 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.

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 of $10.00 is required of all students who desire University housing and who were not enrolled in the University of New Mexico during the semester immediately preceding the one to which they are applying for admission. The deposit will be held in deposit status so long as the student retains such housing; and it will be reduced by charges for any damage to his living quarters.

REGISTRATION FEES, GRADUATE AND UNDERGRADUATE STUDENTS, PER SEMESTER *

<table>
<thead>
<tr>
<th></th>
<th>More than six hours</th>
<th>Four to six hours</th>
<th>Three hours or less</th>
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<tbody>
<tr>
<td>Tuition **</td>
<td>$40.00</td>
<td>$20.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Contingency Fee†</td>
<td>10.00</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Activities Fee‡</td>
<td>12.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bond Fee</td>
<td>5.00</td>
<td>5.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Building Fee</td>
<td>10.00</td>
<td>10.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Library Fee</td>
<td>5.00</td>
<td>5.00</td>
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<tr>
<td></td>
<td>$82.50</td>
<td>$45.00</td>
<td>$26.00</td>
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<tr>
<td>**If a non-resident, add tuition . . .</td>
<td>$100.00</td>
<td>50.00</td>
<td>25.00</td>
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<td></td>
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<tr>
<td></td>
<td>$182.50</td>
<td>$95.00</td>
<td>$51.00</td>
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</tbody>
</table>

Note: Graduate students enrolled only for thesis pay a $10.00 tuition fee and a $5.00 contingency fee.

* Tuition, in the case of all new students, includes a $5.00 matriculation fee, no part of which is refundable.
† Covers normal breakage and, in the case of students taking more than 6 hours, a health fee. Health service is not provided for part-time students.
‡ Not required of graduate students. (Includes 80¢ of Federal Tax).
STUDENT EXPENSES

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
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

†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.
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.

Contingency 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. The contingency fee also provides for a nominal or "normal" amount of breakage in laboratory or other courses. Excessive breakage will be billed separately to the students responsible therefor.

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 $5.00 for matriculation, will be refunded to students voluntarily withdrawing from the 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 only, less $5.00 for matriculation. Students withdrawing after the eighth week and students withdrawing at any time under discipline or because of academic deficiencies, will be entitled to no refund.

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 ........................................... $260.00
- Laundry (sent off campus) .............................. 30.00

Non-resident students should add $100.00 to the tuition costs. 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. 58.

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 $10.00 check or money order as an advance deposit, if he desires University housing. This remittance should be made to the Cashier, Business Office, University of New Mexico. (All freshmen must live in University housing if their homes are not in Albuquerque.)

2. When the student's remittance is received at the University, the Office of 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 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, and by women to the Office of the Dean of Women. Upon arrival at the University, the man should report directly to the Housing Project office. The receipt 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 Manager of Women's Housing. Both men and women students should plan to arrive between 8:00 a.m. and 10 p.m.
STUDENT EXPENSES

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.

STUDENTS CONTINUING ATTENDANCE

Students in attendance are required to make housing reservations for the following year not less than three weeks before the ending of the spring term. Student occupancy in residential halls, including the Kirtland Housing Project, is on a school-year basis. Unless advance notice of intention to remain for the following year is made in writing to the Office of the Dean of Women or to the 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. Students in attendance during the spring term of 1949, who expect to return for the fall term, must pay a $10.00 advance deposit not later than July 1, 1949 or their reservations for rooms will be cancelled.

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 Office of the Dean of Women or the Housing Project office not later than two weeks before the first day of registration. In such cases one-half of the advance deposit will be refunded not later than one month after the request for refund is received. If no notice is given by the applicant, the total advance deposit will be forfeited.

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 in three installments as described later.

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 Residence Halls. Charges for room and board per semester (payable in 3 installments):

50
STUDENT EXPENSES

Hokona Hall (North and South Halls)
- Single rooms ........................................... $273.00
- Double rooms, per person .......................... 261.00
- 3 or 4 to a 3-room suite, per person ............... 255.00

Hokona Hall (Center Hall)
- Single rooms ........................................... 264.00
- 3 or 4 to a 3-room suite, per person ............... 246.00

Marron Hall
- Single rooms ........................................... 273.00
- Double rooms, per person .......................... 261.00

Bandelier Hall
- Double rooms, per person .......................... 261.00
- 3 or 4 to a room, per person ........................ 252.00

Mesa Vista Hall
- Double rooms, per person .......................... 255.00

Dorm D
- Single rooms ........................................... 273.00

MEN'S RESIDENCE HALLS. Rates per semester for room and board in the new men's dormitory, upon completion, will be:
- Double rooms, per person .......................... $267.00
- 3 or 4 to a room, per person ........................ 261.00

The University maintains a housing project for single men students at Kirtland Field and operates a dining hall at the field. It is expected that single men students will be housed at Kirtland Field until the new men's dormitory is completed (sometime during the fall semester) and then transferred to said dormitory. The rates for room and board at Kirtland Field, prior to such transfer will be:
- Single rooms ........................................... $249.00
- Double rooms, per person .......................... 243.00

All of the foregoing rates for University Housing (men or women) will provide for University-supplied bed linens. Towels and other personal linen must be provided by each student.

All freshmen, men and women, and all undergraduate women who are not residents of Albuquerque must live in University housing as long as it is available.

FAMILY UNITS. A small number of family dwelling units are maintained for married veterans. Rates for these units per month are:
- 1 bedroom, unfurnished ................................... $ 35.00
- 2 bedroom, unfurnished .................................. 40.00
STUDENT EXPENSES

RATES—DINING HALL

To the extent that facilities permit, students living off-campus are permitted to eat at the University dining hall. For such students the rates for board only are:

Per semester, per person ........................................ $180.00

Single meals (cash):

Breakfast ......................................................... .40
Luncheon ......................................................... .60
Dinner ............................................................ .80
Dinner (noon Sundays and holidays) ......................... 1.15

GUESTS

With the consent of the Director or Chaperon, students may have overnight guests at the residence halls (for a maximum of seven nights). The guest will be charged 75¢ a night. When a guest is to have meals in the dormitory or dining hall, there must be advance notification and payment for the meals.

PAYMENT OF ROOM AND BOARD CHARGES

Semester charges for room and board (or for board only in the case of students living off-campus) are payable in three installments. Students who live in the residence halls must include $15.00 in the first installment for room and board as a guarantee that they will remain in residence throughout the academic year. If students move out of the halls this $15.00 guarantee will be forfeited. It will be applied to the final installment for room and board in the case of students who remain in the halls throughout the year.

The first installment on room and board (or board only) is due and payable during the first week of the fall semester, when the student moves into a residence hall, and on the first day of the spring semester. The second and third installments are due and payable on the first day of the sixth and eleventh weeks, respectively, of each semester.

EXAMPLE OF ROOM AND BOARD PAYMENTS. If a student signs for room and board for which the semester rate is, say $267.00, his payments will be as follows:

<table>
<thead>
<tr>
<th></th>
<th>1st Payment</th>
<th>2nd Payment</th>
<th>3rd Payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td>$104.00*</td>
<td>$ 89.00</td>
<td>$ 89.00</td>
</tr>
<tr>
<td>Second semester</td>
<td>89.00</td>
<td>89.00</td>
<td>74.00</td>
</tr>
</tbody>
</table>

All students who live in University residence halls must use the University dining facilities.

* Includes $15.00 guarantee, applied to last payment of the year if the student remains in the residence hall.
STUDENT EXPENSES

REFUNDS

Refunds of room and board will be calculated on the basis of 19 weeks per semester for room rent and four months per semester for board. (Rates for board do not provide for meals during the Thanksgiving, Christmas and Spring Vacation periods. Students who remain on the campus at these times must pay cash for their meals.)

Whenever a room is occupied for less than two weeks, the student will be charged for a minimum of two weeks. Whenever the room is occupied for more than two weeks but less than four weeks, the student will be charged for a minimum of four weeks.

As noted above, a student who moves out of a residence hall will forfeit his $15.00 guarantee.

The $10.00 advance deposit paid by all students who engage University housing will be refunded after the close of each school year (or when the student is obliged to withdraw from the University) after deduction for any damage caused by the student to his quarters.
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.
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 to aid in the solution of any and all problems that may arise in the
STUDENT PERSONNEL SERVICES

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. Men students interested in obtaining part-time work on and off campus during semesters as well as seniors and alumni seeking professional employment are urged to register with the Bureau, Room 104, Administration Bldg.

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.

Any man student requiring part-time employment is requested
to file an application with the Bureau. (Women applicants are re­
ferred to the Personnel office.) Applications for campus employ­
ment must be renewed each semester. 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 $1.00, 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, upon the applicant's attitude toward placement.

HEALTH SERVICE

The University Health Service, with a staff of three 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 meas­
ures 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 benefits of professional diagnosis of any illness. If needed,
hospitalization and treatment for acute illness 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.

RESIDENTIAL HALLS—REGULATIONS

Living quarters in residential halls are available to undergraduate men and women students (see pp. 49-53). 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. All freshmen 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; and students who are working for board and/or room in approved homes.

All students must register their correct addresses with the Personnel office, and notify that office of any change immediately.

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 the holiday begins.

Animals or other pets are not permitted in University buildings or on University premises for sanitary and health reasons. Exceptions will be made for special individual cases such as seeing-eye dogs.

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 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 Kappa Psi—national honorary commerce fraternity
Alpha Phi Omega—national service organization for men
Kappa Mu Epsilon—national honorary mathematics fraternity
Kappa Omicron Phi—national professional fraternity for students of home economics
Kappa Psi—national pharmaceutical professional fraternity for men
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
Phi Sigma Iota—national Romance Languages honor society
Pi Lambda Theta—national organization for women in the College of Education
Pi Sigma Alpha—national honorary fraternity for students of political science
Pi Sigma Tau—national honorary mechanical engineering fraternity
Sigma Alpha Iota—national professional organization for the recognition of merit of students in the music department
STUDENT PERSONNEL SERVICES

Sigma Tau—national honorary fraternity for students in the College of Engineering
Spurs—national honorary organization for sophomore women
Tau Kappa Alpha—national honorary debating society
Vigilantes—honorary organization for sophomore men
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, Phi Kappa Tau, Pi Kappa Alpha, Sigma Chi, Sigma Phi Epsilon, Sigma Alpha Epsilon
Sororities: Alpha Chi Omega, Alpha Delta Pi, Chi Omega, Delta Delta Delta, Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi
Other social groups: Independent Men, Townsmen, Phrateres, and Town Club
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.

The following religious organizations hold regular meetings on the campus, and information as to time and place of such meetings may be found in the Handbook:

Baptist Student Union, Canterbury Club, Christian Science Organization, Deseret Club, Hillel Counsellorship, Lutheran Stu-
dent Association, Newman Club, and United Student Christian Fellowship.

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.

ALUMNI ASSOCIATION

The Association is maintained through the cooperative 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 4500 alumni monthly.

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

The Alumni Association Managing Director also coordinates 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

All students desiring part-time campus employment must clear through the Personnel office. Women students may fill out application blanks for part-time employment in Room 105, Administration Bldg., and men students in General Placement office, Room 104, Administration Bldg. The following principles are used in the assignment of part-time jobs:

1. actual need of the student
2. scholarship

Continued employment is based on satisfactory service and scholarship. All applications for part-time campus employment must be renewed each year.

In addition to campus employment, the Personnel office also maintains a list of prospective employers of women in the city of Albuquerque who desire students to work part-time. In a similar manner, lists for men are maintained in the General Placement office. Applications for these positions should be made to the respective offices.

LOAN FUNDS

The University administers, under the direction of the Student Loan Committee, its own Student Loan Fund and cooperates in the administration of several others. Applications and information concerning all loan funds are available in the Personnel office.

The maximum amount available from this fund is $100.00. General rules applying to the University loan funds are:

1. Usually preference is given to the student who has 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.
3. Students receiving loans will be required to give notes with endorsers, if requested.

62
STUDENT PERSONNEL SERVICES

4. In order for a student to be eligible to apply for another student loan, it will necessary for him to have paid at least one-half of any previous loan which he has obtained.

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 Ph rate res Loan Fund; The G. Perry Steen Memorial Student 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
STUDENT PERSONNEL SERVICES

must be made and case accepted before obligation for tuition has been made.

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. Usually tuition scholarships to out-of-state students are not granted until the applicant has been on the campus for at least one semester. 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 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 should be made through the Personnel office.

The University provides a limited number of scholarships in applied music. These may be obtained upon written application by the student to the head of the Music Department after having obtained the recommendation of at least one member of the Music faculty.

For information on scholarships in Inter-American Affairs and in Pharmacy, see those respective sections of this catalog.

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.

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.

**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.

**Daughters of Penelope Memorial Scholarship.** An annual scholarship in the amount of $50 established in memory of Alexandria Carrigan and Anastasia Ipiotes, to be awarded to a sophomore woman in the College of Education, who is a resident of New Mexico and who plans to teach in elementary or secondary schools.

**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) recipients must be legal residents of the State of New Mexico; (2) recipients must have been in full-time attendance at the University during their sophomore year; (3) recipients shall not have completed more than 66 semester hours by the end of the semester in which they are awarded the scholarships; (4) at least three of the four scholarships shall be awarded to students who declare at
the time of application their intention to major in the Department of History or the Department of Government and Citizenship. A subsequent change in the major from either of these two departments to another department may terminate the award; (5) in selecting the recipients, consideration shall be given to their general scholarship and to their financial need.

**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.

**Kappa Kappa Gamma Memorial Scholarship.** A scholarship of $150 is given each year by Kappa Kappa Gamma Fraternity to a woman student who has earned a minimum of 30 semester hours at the University of New Mexico, who has creditable scholarship, and who has need of financial assistance.

**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.

**Robert W. Korber Memorial Scholarship.** The Robert W. Korber Memorial Scholarship, an award of $270 ($30 per month for nine months) to be given to a worthy freshman who is a graduate of a New Mexico high school and who plans to specialize in physical education training at the University. The selection will be made by three members of the staff in the Department of Physical Education for Men and the award will be repeated each year for four years, if the student selected maintains a satisfactory scholastic record.

**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 Clyde Oden Memorial Scholarship.** A cash award of $800 established by Louis Ruffin in honor of Clyde Oden is
awarded to a young man who is a graduate of a New Mexico high school and who is entering the University of New Mexico as a freshman. $100 is paid each semester to the recipient provided he maintains creditable scholarship and satisfactory campus standing.

**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.

**The Robertson, Brown and Drummond Award in Accounting.** An annual award of $200 to the regularly enrolled Senior in the College of Business Administration who is concentrating in Accounting has been established by the accounting firm of Robertson, Brown and Drummond of Albuquerque. The award is based primarily on scholarship and is open to students who have completed three years of college work; who are residents of New Mexico as determined by the University; and who have been regularly enrolled in the College of Business Administration the year preceding the granting of the award. One-half the amount will be paid when the recipient registers for the first semester and one-half when he registers for the second semester.

**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.

**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
STUDENT PERSONNEL SERVICES

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 upperclasswoman, 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.

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.

**English Faculty Poetry Award.** In 1947, the Department of English established annual prizes in poetry to the amount of $50. Poetry for this contest is not limited to any one type, except that the sonnet is excluded.

**The Charles LeRoy Gibson Memorial Prize.** The interest from a trust fund created by students and colleagues of Charles LeRoy Gibson, Ph.D., Associate Professor of Chemistry, 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.

**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., Instructor in English, 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 to the student who, in the opinion of a special committee appointed by the Head of the Department of English, 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.
THE PHI KAPPA PHI PRIZES. Two cash prizes of $10 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, 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 as a memorial award is made 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.

SUMMER CREATIVE WRITING CONTEST. In 1948, a $25 prize for creative writing was established in the Summer Session by an anonymous donor. The award is given for the best manuscript in either poetry or prose submitted by a regularly enrolled undergraduate.

THE THUNDERBIRD AWARD. A sum of $10, made possible by the original Katherine Mather Simms Endowment is awarded each year for the outstanding article or poem dealing with Southwestern material which has been printed in The Thunderbird, student literary magazine of the University.

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

**Alpha Kappa Psi Key.** Professional Business Administration fraternity scholarship key for the graduating senior man enrolled in the College of Business Administration with the highest total scholarship index for the last three years in residence at the University of New Mexico.

**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 14 credit hours a semester.

**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 a master's thesis or doctor's dissertation.
NC, No Credit. NC is used to report unsatisfactory completion of master's thesis or doctor's dissertation.
GENERAL ACADEMIC REGULATIONS

PR, Progress. This grade is used to indicate that a thesis, dissertation, or a graduate problem, is in progress but not complete. When the problem is complete, a regular grade is reported. When the thesis or dissertation 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.

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

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

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 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 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.

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

* Exclusive of hours in non-theoretical physical education and ensemble music.
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 anytime 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. 79.

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 the basis of scholarship, is permitted to enter the General College exclusive of hours in non-theoretical physical education and ensemble music.
GENERAL ACADEMIC REGULATIONS

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. 82.

National Teachers Examination. See p. 82.

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.”

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

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

The Dean may suspend a student from the University, on the grounds of neglected duty, when he has thus been dropped from two courses.

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 re-admission.

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.

**SPECIFIC COURSES REQUIRED.** Four semester hours of required physical education shall be completed by all students in the University. Veterans, NROTC students, 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 to complete a major by presenting credit hours earned in residence
GENERAL ACADEMIC REGULATIONS

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-term 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.”

82
GENERAL ACADEMIC REGULATIONS

DIVISION OF HONORS WORK

The purpose of the Division of Honors is to afford able 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. Juniors and seniors 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. (HA), Reading for Honors. Projects which will extend Honors students' knowledge of their major or minor fields, especially by filling up the interstices between their regular courses. Each semester's work should be terminated with an examination covering such work.

(HB), Research for Honors. 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. Juniors should preferably undertake honors work projects of type HA, and seniors should preferably undertake honors projects of type HB. 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) Students 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.
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. Concerning the limited acceptance of work in business administration, education, engineering, law, medicine, pharmacy, 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.
ARTS AND SCIENCES

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. (Failure to pass this test requires the student to take English 68 the following semester.)

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 student 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.

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

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

Students presenting high school language credits and wishing to enter courses above the elementary level should consult the Head of the department concerned.

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.

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.

MAJOR AND MINOR STUDIES

A student admitted to the Upper Division shall declare a major and a minor subject, and his program of studies thereafter shall meet with the approval of the head of the 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:

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 accept-

† For approved courses, see Departments of Instruction.

* Except in the case of a Home Economics major, when a maximum of 34 hours will be accepted.
ARTS AND SCIENCES

able 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 Dean, who may, at his 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.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>†English 1</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>2-3</td>
</tr>
<tr>
<td>Natural Science or Mathematics</td>
<td>4-3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Additional group requirements</td>
<td>4</td>
</tr>
<tr>
<td>Naval Science</td>
<td>3 *</td>
</tr>
</tbody>
</table>

†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 CURRICULAS

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, to be outlined in each case, jointly, by the Deans of the two colleges. Any student interested in this curriculum should confer with the
ARTS AND SCIENCES

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 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 unless the student attends the Law College of the University of New Mexico in which case the 94 hours of residence is reduced to 64 and 4 P. E.; (2) 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; (3) 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. 91.**

**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. Candidates are urged to complete a major in either biology or chemistry. A year's work in more technical subjects and a year of practical hospital experience are also required for the professional degree. For more detailed information, students should consult the Department of Biology.

**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 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.
ARTS AND SCIENCES

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

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English 1, 2</strong></td>
<td><strong>English, and Psychology 51</strong></td>
</tr>
<tr>
<td><strong>French or German</strong></td>
<td><strong>French or German</strong></td>
</tr>
<tr>
<td><strong>Chemistry 1L, 2L</strong></td>
<td><strong>Social Science, Chemistry 53L</strong></td>
</tr>
<tr>
<td><strong>Biology 1L, 2L</strong></td>
<td><strong>Biology 71L and 121L</strong></td>
</tr>
<tr>
<td><strong>Math. 15, 16</strong></td>
<td><strong>Physics 11L, 12L</strong></td>
</tr>
<tr>
<td><strong>Physical Education</strong></td>
<td><strong>Physical Education</strong></td>
</tr>
</tbody>
</table>

*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.

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:

1. **Social Work:**
   - Government 170
   - Sociology 151, 152
   - Sociology 197
   - Social Welfare: Org. and Adm.
   - Introduction to Social Work
   - Field Observation and Participation

89
II. 24 Hours Elected from Sociology and one or more additional fields with preference for the following courses:

- Government 51, 52: American Government (3-5)
- Government 121: Public Administration (5)
- Economics 51: Principles of Economics (5)
- Economics 140: Economic Security (3)
- Economics 141: Labor Problems (3)
- Psychology 51: General Psychology (5)
- Psychology 60: Dynamics of Personality Adjustment (3)
- Psychology 101: Social Psychology (3)
- Psychology 131: Psychological and Educational Tests (3)
- Psychology 103: Abnormal Psychology (3)
- Psychology 187: Child Psychology (3)
- Sociology 51: The Family (3)
- Sociology 72: Social Pathology (3)
- Sociology 81: Rural Sociology (5)
- 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.

SCHOOL OF INTER-AMERICAN AFFAIRS

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.

*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.

90
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. 97.)

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 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.

SCHOLARSHIPS

All University Latin-American Scholarships. In the academic year 1949-50, 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 of 1949-50 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.
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 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.

**INTER-AMERICAN CURRICULA**

1. COLLEGE OF ARTS AND SCIENCES GROUP REQUIREMENTS

   **A. NATURAL SCIENCE AND MATHEMATICS.** 11 hours, no more than 8 in one department, and must include two courses with laboratory. See **RECOMMENDED COURSES** (below).

   **B. HUMANITIES AND SOCIAL SCIENCES.** 9 hours English (1, 2 and 3 credits in literature course numbered above 50), and 9 hours (no more than 6 from one department) in Anthropology, Economics, Government, Sociology, and History or Philosophy courses. This part of the requirement is met by I-AA Gateway Courses. (Below.)

   **C. FOREIGN LANGUAGE.** Maximum of 12 credits, met by Inter-American Language Requirement. (Below.)

2. GATEWAY* COURSES IN INTER-AMERICAN AFFAIRS

Prerequisite to the Basic Upper Division Courses and to be taken in the freshman and sophomore years.

*For fuller description of the courses see Departments of Instruction.
ARTS AND SCIENCES

**History 1, 2. Western Civilization** .................................................. 6

or

**History 11, 12. The Americas** .................................................. 6

History 11, 12 are recommended for all students except those who enter with no background in world or western civilization history.

**Social Science 1, 2. Introduction** ................................................. 6

†**Introduction to Latin America.** (Anthropology, Economics, Government, or Sociology 73) .................................................. 3

**Total** .......................................................................................... 15

**3. RECOMMENDED FRESHMAN, SOPHOMORE YEAR ELECTIVE COURSES**

According to individual needs and interests the student should elect from the following courses: (A minimum of 15 hours will be available for electives in the first two years.)

**A. SOCIAL SCIENCES.**

**Anthropology 1, 2. General** .......................................................... 6

**Anthropology 71. Survey** ............................................................. 2

**Economics 51. Introduction** ......................................................... 3

**Economics 63. Resources** ............................................................ 3

**Government 51. American Government and Politics** ...................... 3

**Sociology 81. Rural** ................................................................. 3

**Sociology 82. Urban** ................................................................. 3

**B. HUMANITIES.**

**English 77. Southwestern Literature.** (Meets the College's requirement for 3 hours of literature.) .................................................. 3

**History 51, 52. United States** .................................................... 6

**History 85. Modern Russia** ......................................................... 2

**Philosophy 1, 2. Introduction; Philosophy, Science and Religion** ....... 3

**Philosophy 56. Logic** ................................................................. 3

† 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.
# ARTS AND SCIENCES

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portuguese 1, 2. Elementary</td>
<td>6</td>
</tr>
<tr>
<td>Portuguese 51, 52. Intermediate</td>
<td>6</td>
</tr>
</tbody>
</table>

## C. NATURAL SCIENCES AND MATHEMATICS.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 5, 6. Introduction</td>
<td>6</td>
</tr>
<tr>
<td>Biology 48. Heredity</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 14. Introduction</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 42. Introduction to Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1, 2. (Introduction) General</td>
<td>6</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Psychology 51. General</td>
<td>3</td>
</tr>
</tbody>
</table>

## D. FINE ARTS.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 57. Crafts (Southwestern and Latin-American Emphasis)</td>
<td>2</td>
</tr>
<tr>
<td>Music 93. Folk Music of the Southwest</td>
<td>2</td>
</tr>
</tbody>
</table>

## 4. BASIC UPPER DIVISION COURSES

Of the following listed courses, Economics 121, 122, and Geography 101, 102 (total 10 hours) are required, while 14-15 hours additional will be elected according to need and interest from the other courses noted. This makes the total requirement of 24-25 hours from this group of courses.

### A. SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 105. American Indian: North American</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 150. Methods in Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 154. Nature of Language</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 182. Ethnology of Middle America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 184. Archaeology of Mexico, Central America and the West Indies</td>
<td>3</td>
</tr>
<tr>
<td>Economics 119. Principles of Foreign Trade</td>
<td>3</td>
</tr>
<tr>
<td>Economics 121, 122. Economics and Trade of Latin America</td>
<td>4</td>
</tr>
<tr>
<td>Economics 154. Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>Economics 160. History of Economic Thought</td>
<td>3</td>
</tr>
<tr>
<td>Economics 161. Economic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Geography 101, 102. Physical Geography of Latin America</td>
<td>6</td>
</tr>
<tr>
<td>Geography 189. Cultural Geography of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>Government 141. International Relations</td>
<td>3</td>
</tr>
</tbody>
</table>
Government 151. *American Diplomacy.* ........................................... 3
Government 155. *Governments of Latin America.* .......................... 3
Sociology 107. *Man and Society in Latin America.* ......................... 3
Sociology 111. *Social Problems of Latin America.* .......................... 3
Sociology 154. *Race and Culture Relations.* ..................................... 3
Sociology 166. *Methods.* ............................................................... 3

**B. Humanities.**

History 141. *International Relations.* (same as Government 141) .......... 3
History 151. *American Diplomacy.* (same as Government 151) .......... 3
History 161, 162. *Latin America.* .................................................. 6
History 163. *The A. B. C. Powers in Recent Times.* ........................ 3
History 165, 166. *Spain.* .............................................................. 4
History 167. *History and Civilization of Portugal.* ........................ 3
History 168. *Mexico and the Caribbean.* ......................................... 3
Philosophy 123. *Hispanic Thought.* ................................................ 2
Philosophy 191. *Philosophy of Language.* ....................................... 2
Philosophy 195. *Philosophy of Science.* ........................................... 3
Spanish 145. *Hispanic Civilization.* .............................................. 2
Spanish 146. *Ibero-American Civilization.* ..................................... 2

**C. Natural Science.**

Biology 105. *Ethnobiology of the New World.* ................................ 3

**D. Fine Arts.**

Art 141. *Art of the Americas.* ...................................................... 2
Art 142. *Spanish Colonial Art.* ....................................................... 2
Art 192. *Contemporary Mexican Painters.* ..................................... 2

**E. Spanish.**

The required courses in third and fourth year Spanish are:

Spanish 91, 92. *Introduction to Spanish Literature.* ........................................... 6
Spanish 93, 94. *Intermediate Conversation and Composition.* ................. 4

or

Spanish 95. *Spanish Business Letter Writing.* .................................... 2
Spanish 96. *Commercial and Industrial Language Practice in Hispanic Countries.* ........................................................................ 2

*The prerequisite of 4 hours of Biology is waived for majors in Inter-
American Affairs. This course can be applied toward the College's Group IV requirements in Mathematics and Science.*
ARTS AND SCIENCES

Spanish 131, 132. *Advanced Composition and Conversation* ..... 4
Spanish 157, 158. *Survey of Spanish-American Literature* ... 6

or

Spanish 163. *Mexican Literature* .................. 2
Spanish 164. *The Literatures of Argentina, Uruguay, and Chile* 2

COMPUTATION OF CREDITS (124 plus 4 P.E. required for graduation)

1. **College of Arts and Sciences Group Requirements.**
   - Group I. English 9 hrs.
   - Group II. Foreign Language 12 hrs.
   - Group III. “Social Sciences” (including Humanities) met by Gateway Course Requirements 9 hrs.
   - Group IV. Mathematics and Natural Science 11 hrs.
   - **Total** 41 hrs.

2. **Gateway Courses Beyond Group III (requirements above)** 6 hrs.

3. **Basic Upper Division Required Courses.** 10 hrs.

4. **Minimum Electives: Lower (14 hrs.) and Upper (35 hrs.) Divisions.** *49 hrs.*

5. **Spanish Requirements (Maximum Additional to A & S College Group II Requirements [Above])** 18 hrs.
   - **Total** 124 hrs.

**Sample Curriculum**

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
</tr>
<tr>
<td>Mathematics—Natural Science</td>
<td>Mathematics—Natural Science</td>
</tr>
<tr>
<td>Spanish 1</td>
<td>Spanish 2</td>
</tr>
<tr>
<td>Social Science 1</td>
<td>Social Science 2</td>
</tr>
<tr>
<td>History 1 or 11</td>
<td>History 2 or 12</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td><strong>16-17</strong></td>
<td><strong>16-17</strong></td>
</tr>
</tbody>
</table>

*The School’s requirement is 30 hours of Spanish for students with no background in Spanish on entering. Passing qualifying examinations will enable students to take more advanced Spanish courses or to increase the number of elective courses.
## ARTS AND SCIENCES

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Latin America</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 51</td>
<td>3</td>
</tr>
<tr>
<td>English Literature</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4-5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits:** 17-18

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish 92</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 94 or 96</td>
<td>2</td>
</tr>
<tr>
<td>Geography 102</td>
<td>3</td>
</tr>
<tr>
<td>Basic Upper Division Electives</td>
<td>4</td>
</tr>
<tr>
<td>Free Electives</td>
<td>4-5</td>
</tr>
</tbody>
</table>

**Total Credits:** 16-17

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish 158 or 164</td>
<td>2</td>
</tr>
<tr>
<td>Spanish 132</td>
<td>2</td>
</tr>
<tr>
<td>Economics 122</td>
<td>2</td>
</tr>
<tr>
<td>Basic Upper Division Electives</td>
<td>(See pp. 94-97)</td>
</tr>
<tr>
<td>Free Electives</td>
<td>7-8</td>
</tr>
</tbody>
</table>

**Total Credits:** 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 cases where the students have had Spanish in high school, 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.

### FOR THE TWO-YEAR COURSE FOR SECRETARY-INTERPRETERS
See the General College section of this Catalog.

### 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
ARTS AND SCIENCES

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.

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—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.

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 cooperation 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. Introduction to Latin America. ........................................ 3
   *Spanish or Portuguese .................................................. 6-10
Econ. 121, 122. Economics and Trade of Latin America ........ 4.
Geog. 101, 102. Physical Geography of Latin America ........ 6

Total ................................................................. 19-23

Elective Courses

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

EXTRA-CURRICULAR ACTIVITIES OF THE SCHOOL

The School operates a research Bureau on Latin America and Cultural Relations in the Southwest in cooperation with the Department of Sociology; organizes a series of 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; cooperates in various projects with other University units and organizations outside the

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

99
ARTS AND SCIENCES

University; and directs a program of publications under the title Inter-Americana Series.

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—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) 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; Visiting Professor Cooper; Associate Professors Hibben, Newman; Assistant Professors Hawley, Reiter; Graduate Assistants Cahill, Cotter, Dittert, Sloane.

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 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, at least six hours to be taken in courses numbered above 100.

1. **General Anthropology: Origin and Antiquity of Man.** (3) Hibben, Reiter


8. **Survey of Southwestern Anthropology.** (3) A non-technical course not credited toward the major or minor in Anthropology. Reiter

71. **Survey of Anthropology.** (2) The sub-divisions of anthropology. Not open to students who have credit in Anthropology 1 and 2. Hawley

73. **Introduction to Latin America** (3) (Same as Economics 73, Government 73, and Sociology 73.) For description see p. 93. Reiter

75F. **General Field Session.** (2-6) Introductory summer field course in archaeology or ethnology. Staff

76F. **Secondary Field Session.** (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) Newman

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 some reference to contemporary situations and problems. No prerequisites.
ARTS AND SCIENCES

103L. DENDROCHRONOLOGY. (3) Tech. The science of tree ring studies applied to archaeologic problems. Prerequisite: permission of the instructor. 1 lecture, 4 hrs. lab. Hawley

105. THE AMERICAN INDIAN: NORTH AMERICA. (3) Eth. Hill

106. THE AMERICAN INDIAN: SOUTH AMERICA. (3) Eth. Cooper, Newman, Hill

107L. PHYSICAL ANTHROPOLOGY: OSTEOLOGY. (3) Tech. Reiter

108L. PHYSICAL ANTHROPOLOGY: SOMATOLOGY. (3) Tech. Racial variation and constitution. Reiter

109. 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

115. THE NORTHEAST ALGONQUIAN INDIANS. (3) Eth. Cooper

119. RACES AND CULTURES OF EUROPE AND ASIA. (3) Eth. Reiter

136. ETHNOGRAPHY OF AFRICA. (3) Eth. Spier

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. 1 lecture, 4 hrs. lab. Reiter

147. OCEANIA. (3) Eth. Hill

150. METHODS IN CULTURAL ANTHROPOLOGY. (3) Top. Methods used in the collection and ordering of anthropological data for historical, scientific and administrative problems. Hawley

152. PRIMITIVE LITERATURE. (3) Top. Newman

154. THE NATURE OF LANGUAGE. (3) Top. Newman

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) For upper division and graduate students. Staff
182. **Ethnology of Middle America and the Caribbean.** (3) Eth. Newman
184. **Archaeology of Mexico, Central America, and the West Indies.** (3) Arch. 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. Prerequisite: permission of staff. Staff
205. **Pro-Seminar: Introduction to research.** (2) Required of all graduate students. Hill
206. **Current Anthropology.** [Survey of Current Anthropology] (2) Spier
208. **Processes of Culture Change.** (2) Spier
209. **Presentation of Field Research.** (2) Reiter
212. **Seminar: Ethnology.** (2) Hill, Cooper
251, 252. **Problems.** (2, 2) No more than 4 hours may be taken towards the M.A. nor more than 8 hours towards the Ph.D. degree.
257. **Seminar: Early Man in the New World.** (2) Hibben
282. **Seminar: American Archaeology.** (2) Reiter
ARTS AND SCIENCES

294. **Seminar: Southwestern Archaeology and Ethnology.** (2) Hawley

300. **Thesis.** (4-6)

400. **Dissertation.** (Credit arranged)

**BIOLOGY**

Professor Castetter (Head); Consulting Professor Langham; Associate Professors Dittmer, Johnson, Koster; Assistant Professors Fleck, Hoff, Humm; Instructors Ivey, Sims; Graduate Assistants Coburn, Goeke, Gordon, Lewis, Parker, Wheat, Williams, Wotkyns.

**GROUP REQUIREMENTS**

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

**MAJOR STUDY**

Biology 1L, 2L, 71L, 72L, 109, 130L, and 9 additional hours, 5 of which must be in courses numbered above 100. Courses 5, 6, 33L, 36, 39L, 41, 48, and 126L are not accepted toward a major. One year of chemistry is required of biology majors.

Students desiring to concentrate in some special field of biology such as bacteriology, ecology, or physiology, should consult the Head of the Department early in their college careers.

**MINOR STUDY**

Biology 1L and 2L, and 12 additional hours. 5 and 6 and 126L are not acceptable toward the minor.

**NOTE**

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

**CURRICULA PREPARATORY TO FORESTRY, MEDICAL TECHNOLOGY, OR MEDICINE**

See "College of 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, Fleck
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, Fleck

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.
Fleck

Fleck

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.
Staff

36. Human Anatomy and 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

71L. Invertebrate Zoology. (4) A comparative study of the structure, habits, and classification of the invertebrates. 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, and sanitation. 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; alternates with 114L.) 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


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; alternates with 96L.) 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 mammals. Prerequisites: 1L and 2L, Chemistry 1L and 2L. 3 lectures, 3 hrs. lab. Fleck, Humm

143L. General Cellular Physiology. [General Physiology] (4) A study of the more important fundamental concepts leading to an understanding of cellular metabolism and synthesis. Prerequisites: 130L and Chemistry 42L or 102L. 2 lectures, 4 hrs. lab. Humm

144L. General Physiology of Organs. [General Physiology] (4) The role of animal and plant organs on a comparative basis, with special reference to muscular contraction, excretion, secretion, nervous transmission, and digestion. Prerequisites: 130L and Chemistry 42L or 102L. 2 lectures, 4 hrs. lab. Humm
153L. **Sanitary Bacteriology.** (4) Microorganisms of milk, dairy products, and other foods, and their relation to spoilage and sanitation. Techniques and significance of the standard methods of bacteriological procedures for water and sewage. Prerequisite: 93L. 2 lectures, 4 hrs. lab. (Offered in alternate years; alternates with 155L.) Johnson

154L. **Pathogenic Bacteriology.** (4) The properties and characteristics of disease-producing bacteria and their relationship to disease. Prerequisite: 8 hours of bacteriology. 2 lectures, 4 hrs. lab. (Offered in alternate years; alternates with 156L.) Johnson

155L. **Systematic and Determinative Bacteriology.** (3) A history of bacterial classification and rules of nomenclature. The laboratory isolation, identification, and classification of bacteria. Prerequisite: 93L. 1 lecture, 4 hrs. lab. (Offered in alternate years; alternates with 153L.) Johnson

156L. **Immunity and Serological Methods.** (4) The use of antigen-antibody reactions in disease diagnosis and in the identification of bacteria. Prerequisites: 93L and Chemistry 42L or 102L. 2 lectures, 4 hrs. lab. (Offered in alternate years; alternates with 154L.) Johnson

158. **Dynamics of Biochemistry.** (3) Selected topics in physiological biochemistry including considerations of the quantitative enzymatic interconversion and synthesis of organic matter in the cell. Prerequisites: 130L and Chemistry 121L. (Offered in alternate years; alternates with 204L.) Johnson, Humm

163L. **Flora of New Mexico.** (4) Prerequisites: IL and 2L. 2 lectures, 4 hrs. lab. Dittmer

171L. **Terrestrial Ecology and Geography.** [General Ecology]. (4) Animals and plants in relation to the environment; a study of biotic communities; problems of plant and animal distribution. Field trips. Prerequisites: IL 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.) Dittmer

183L. **Animal Parasitology.** (3) A consideration of animal parasites with special reference to life cycles and classification; some attention given to the preparation of parasites for study. Prerequisite: 71L. 2 lectures, 3 hrs. lab. (Offered in alternate years; alternates with 184L.) Hoff
ARTS AND SCIENCES

184L. LIMNOLOGY. (3) A study of fresh-water habitats; aquatic invertebrates with special reference to problems of productivity. Field trips. Prerequisite: 71L. 2 lectures, 3 hrs. lab. (Offered in alternate years: alternates with 183L.) Hoff, Koster

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.

187L. ICHTHYLOGY. (4) Classification, phylogeny, natural history and literature of fishes. All day field trips required. Prerequisite: 185L. 2 lectures, one 4-hr. lab. (Offered in alternate years; alternates with 189L.) Koster

189L. MAMMALOGY. (4) Classification, phylogeny, natural history and literature of mammals. All day field trips and one or more over-night field trips required. Prerequisite: 185L. 2 lectures, one 4-hr. lab. (Offered in alternate years; alternates with 187L.) Koster

190L. HISTOLOGY AND MICROTECHNIQUE. (3) The preparation for microscopic examination of plant and animal structures, tissues, and cells. Additional emphasis on topics of special interest to individual students. Prerequisites: IL and 2L and consent of head of department. 1 lecture, 4 hrs. lab. Hoff

201, 202. SEMINAR: CURRENT TOPICS IN BIOLOGY. (2, 2) Graduate Staff

204L. INDUSTRIAL MICROBIOLOGY. (3) The role of microorganisms in industrial fermentations. Prerequisites: 8 hrs. of bacteriology, and Chemistry 121L. 1 lecture, 6 hrs. lab. (Offered in alternate years; alternates with 158.) Johnson

205L. EXPERIMENTAL EMBRYOLOGY. (4) A consideration of the recent advances in embryology from the point of view of the experimental alteration of normal development. Prerequisites: 112L and 130L. 2 lectures, 6 hrs. lab. Humm

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

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. (3) The
biotic effect of human settlement upon the vertebrates. Principles underlying management and control. Koster
300. Thesis. (4-6) Graduate Staff
400. Dissertation. (Credit arranged) 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 and 111, Mathematics 42, Business Administration 5, and 6 additional hours chosen from the following Business Administration courses: 6, 106, 108, 110, and 131. (For Business Administration course offerings, see College of Business Administration.)

CHEMISTRY

Professors Riebsomer (Head), Smith; Assistant Professors Castle, Kahn, Martin, Stauffer, Suttle; Instructors Holmen, Searcy; Graduate Assistants Carlisle, Ferm, Hopperton, Keenan, Kruse, McClendon, McGaughran, Muller, Pachter, Santfner, Shapira, Stillson, Williams, Zeltmann.

GROUP REQUIREMENTS

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

MAJOR STUDY

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

For the degree of Bachelor of Science: Chemistry 1L, 4L, 53L, 105L, 104L, 111L, 112L, 152L, 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. Credit suspended until 2L or 4L is completed. 3 lectures, 3 hrs. lab. Staff

2L. General Chemistry. (4) Continuation of 1L and including qualitative analysis. 3 lectures, 3 hrs. lab. Staff

109
ARTS AND SCIENCES

4L. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. (5) Continuation of 1L, with special emphasis on qualitative analysis. 3 lectures, 6 hrs. lab.

41L. ELEMENTS OF GENERAL CHEMISTRY. (5) A one-semester course in general chemistry. The lectures of this course and Chemistry 42L may be elected separately by those wishing a restricted course in chemistry. 4 lectures, 3 hrs. lab. (Not offered in 1949-50.)

42L. ELEMENTS OF ORGANIC CHEMISTRY. (5) A brief course in organic chemistry. Prerequisite: 41L or 2L. 4 lectures, 3 hrs. lab.

44L. ELEMENTS OF PHYSIOLOGICAL CHEMISTRY. (4) An introduction to the chemistry of food, nutrition and animal metabolism. Prerequisites: 41L and 42L or their equivalents. 3 lectures, 3 hrs. lab.

53L. QUANTITATIVE ANALYSIS. (5) Theory and techniques of volumetric and gravimetric analysis. Prerequisites: IL and either 2L or 4L. 2 lectures, 9 hrs. lab.

101L, 102L. ORGANIC CHEMISTRY. (4, 4) The chemistry of the compounds of carbon. Prerequisites: 1L and either 2L or 4L. 3 lectures, 3 hrs. lab.

103L, 104L. ORGANIC CHEMISTRY. (5, 5) A more extensive course than the above. Prerequisites: 1L and either 2L or 4L. 3 lectures, 6 hrs. lab.

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.

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.

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.

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.

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 111L or 51L; and Mathematics 53 and 54. 3 lectures, 3 hrs. lab.

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.

Kahn, 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.

116. COLLOID CHEMISTRY. (3) Theoretical and descriptive treatment of the principal types of colloids. Prerequisites: 102L or 104L, 111L.

121L. BIOCHEMISTRY. (4) The chemistry of carbohydrates, proteins, lipids and other dietary components; the compositions of blood and various tissues; the chemistry of metabolic products. Prerequisites: 42L, 102L or 104L. 3 lectures, 3 hrs. lab.

131. INORGANIC CHEMISTRY. (3) A systematic survey of the chemical behaviors of the elements and their inorganic compounds. Prerequisite: 102L or 104L.

136L. INORGANIC PREPARATIONS. (2) Synthesis and purification of typical inorganic compounds. Prerequisite: 102L or 104L. 6 hrs. lab.

152L. [54L] SPECIAL METHODS IN QUANTITATIVE ANALYSIS. (4) Theory and practice in electrolytic, electrometric and colorimetric analytical methods. Prerequisites: 53L, 111L. 2 lectures, 6 hrs. lab.

154L. INSTRUMENTAL ANALYSIS. (3) Application of instrumental methods to chemical analysis, including colorimetry, spectrophotometry, polarography and electrometric measurement. Prerequisites: 53L, 111L and 112L. 1 lecture, 6 hrs. lab.

181, 182. SEMINAR. (1, 1) Exposition and discussion of current topics in chemistry.

Staff
ARTS AND SCIENCES

197, 198. UNDERGRADUATE PROBLEMS. (2-5 each semester.) Staff

204. THEORETICAL ORGANIC CHEMISTRY. (3) The more important theories of organic chemistry. Prerequisites: 105L, 111L and 112L. Stauffer

208. ADVANCED TOPICS IN ORGANIC CHEMISTRY. (3) Prerequisite: 102L or 104L. Riebsomer

211, 212. CHEMICAL THERMODYNAMICS. (3, 3) Prerequisites: 111L and 112L. Kahn


214. RADIOCHEMICAL TECHNIQUES. (4) The preparation of radioactive samples. The construction and use of detecting devices. Tracer techniques and their applications. 2 lectures, 6 hrs. lab. Kahn

232. ADVANCED TOPICS IN INORGANIC CHEMISTRY. (3) Prerequisites: 111L and 131. Suttle

300. THESIS. (4-6) Graduate Staff

400. DISSERTATION. (Credit arranged) Graduate Staff

CLASSICS

Not a department.

Students who are contemplating attending a school of theology requiring an undergraduate degree should plan to take Greek 1 and 2 in the junior year and Greek 101 and 102 in the senior year. Consult the Classics professor.

MAJOR STUDY

Not offered.

MINOR STUDY

A minor may possibly be worked out if sufficient demand arises.

Greek 51, 52. [1, 2.] ELEMENTARY GREEK OF THE NEW TESTAMENT. (3, 3) Yr. Credit suspended for 51 until 52 is completed. (Offered only upon sufficient demand.) Staff

Greek 101, 102. [61, 62.] THE GREEK NEW TESTAMENT. (3, 3) Yr. Credit suspended

Latin 51, 52. INTERMEDIATE LATIN. (3, 3) Yr. Credit suspended
ARTS AND SCIENCES

for 51 until 52 is completed. Accepted in fulfillment of lower division foreign language requirement. Staff

ECONOMICS

Professor Duncan (Head); Associate Professors Crobaugh, Wollman; Assistant Professor Sloan; Graduate Assistant Calkins.

GROUP REQUIREMENTS

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

MAJOR STUDY

30 hours, including Economics 51, Mathematics 42, Business Administration 5, Economics 111, 161 and 198 or 199, and 12 hours selected from upper division courses.

MINOR STUDY

Economics 51, Mathematics 42, Business Administration 5, and 9 hours in upper division courses.

1. 2. INTRODUCTION TO SOCIAL SCIENCE. (3, 3) Yr. (Same as Government 1, 2, and Sociology 1, 2.) Credit suspended until both semesters are completed. Staff

51. INTRODUCTION TO ECONOMICS. (3) Basic economic concepts and the nature of the economic organization, the analysis of market price determination, national income, money and banking, international trade. Prerequisite: sophomore standing. Staff

52. MODERN ECONOMIC PROBLEMS [Introduction to Economics] (3) Application of economic principles to problems of modern society. Staff

53. ECONOMIC RESOURCES. (3) A general survey of the basic economic resources of the world. Sorrell

73. INTRODUCTION TO LATIN AMERICA. (3) (Same as Anthropology 73, Government 73, and Sociology 73.) For description see p. 93. Prerequisite: Economics 51.

80. ECONOMIC HISTORY. (3) Analysis of the factors underlying the development of the modern industrial society. Prerequisite: 51. Sloan

110. CORPORATION FINANCE. (3) (Same as Business Administration 110.) Evans

111. MONEY AND BANKING. (3) Principles of money, credit, and banking. Organization and operation of the banking system. Prerequisite: 51. Parish

121, 122. *Economics and Trade of Latin America.* (2, 2) Survey of economic life and foreign trade, investments, economic planning. Prerequisite: 73. Duncan

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. Prerequisite: 51. Wollman

143. *Transportation.* (3) (Same as Business Administration 143.) Principles and problems of transportation. Prerequisite: 51. Duncan

152. *Public Finance.* (3) Theory and practice of taxation, governmental borrowing, financial administration and public expenditures. Prerequisite: 51. Staff

154. *Comparative Economic Systems.* (3) A critical analysis of the proposed major reforms of the existing economic system. Prerequisite: 51. Crobaugh

160. *Economic Theory.* (3) Advanced economic analysis, with particular attention to problems of monopolistic competition, distribution of incomes, employment, and national income. Prerequisite: 51. Crobaugh

161. *History of Economic Thought.* (3) Development of the principal economic doctrines and schools of economic thought from the Physiocrats to Keynes. Prerequisite: 51. Crobaugh

165. *Public Utilities.* (3) (Same as Business Administration 165.)

178. *Recent History of the United States.* (3) (Same as History 178.) Accepted toward the major only. Reeve

180. *Government Control of Business.* (3) Governmental and social controls over business enterprise. Prerequisite: 51. Staff

198, 199. *Seminar in Current Economic Thought.* (3, 3) Staff

251, 252. *Seminar in Contemporary Economic Problems.* (3, 3) Graduate Staff

300. *Thesis.* (4-6) Duncan
ENGLISH

Professors Pearce (Head), Arms; Visiting Professor Grabo; Associate Professors Keleher, D. F. Smith, Wicker; Assistant Professors Albrecht, Crowell, Hazard, Jacobs, Kuntz, Simons, Tedlock; Instructors Baughman, Bidwell, Blessing, Fitzhugh, Fleming, Haight, Kluckhohn, Kroft, Kytle, Lash, Mowrer, Richards, Vogel, Wilburn; Teaching Assistants Dawkins, Delzell, Fuquay, Johns, Lueders; Graduate Assistants De Camp, Pearson, Perry, Shinn, E. W. Smith.

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:

College 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. 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; 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; 75; 91; 141 or 142; 151 or 154; two
ARTS AND SCIENCES

courses chosen from 132, 143, 146, 148, 157, 177, 178, 181, 182, 184; 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. Six hours in either Journalism or Speech may count toward the major in English.

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. (3) Fundamentals of English grammar and rhetoric.

1. INTRODUCTION TO RHETORIC. (3) Forms of discourse, expository planning, paragraph methods, the investigative paper, reading reports.

2. INTRODUCTION TO LITERATURE. (3) The types of literature with readings and reports.

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 course is repeated in a succeeding term. No credit allowed if credit is earned in English 1.

53. SURVEY OF EARLY ENGLISH LITERATURE. (3) From the Old English writings through Neo-classicism. Kelcher, 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. 
   Haight

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

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

91. History of the English Language. (2) The etymology, morphology, phonetics, and semantics of English; the relation between linguistic and cultural change. 
   Pearce, Smith

HA. Reading for Honors. (1-3 each semester) Staff

HB. Research for Honors. (1-3 each semester) Staff

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 the leading figures in contemporary poetry with analysis of style and critical theory. Prerequisite: 3 credit hours in literature. 
   Arms
ARTS AND SCIENCES

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 credit hours in literature. Pearce

160. PHONETICS. (3) (Same as Speech 160.)

161. THE FOLK TALE IN ENGLISH. (3) The tradition of folk motifs and themes in the development of the tale as a form of story-telling in English and American literature. Baughman

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 Neo-classicism. 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.

181. **Victorian Poets.** (3) The representative poets from 1830 to 1890. Prerequisite: 3 credit hours in literature.

182. **Nineteenth Century Prose.** [Victorian Prose] (3) The representative prose writers from 1830 to 1890. Prerequisite: 3 credit hours in literature.

184. **Major Poets in American Literature.** (3) An intensive study of the major poets from Freneau to Robinson.

185. **Early English Novel.** (3) From the beginnings through Dickens. (Offered alternately with English 186.) Grabo, Wicker

186. **Later English Novel.** (3) From Thackeray to the present. (Offered alternately with English 185.) Grabo, 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.

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.

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.

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.
211. TRANSCENDENTALISM IN AMERICAN LITERATURE. (3) Emerson and Thoreau; and their contemporaries, Hawthorne, Melville, and Poe. 

212. REALISM IN AMERICAN LITERATURE. (3) Howells, Clemens, Henry James; and their contemporaries, Whitman and Henry Adams. 

219. CARLYLE AND HIS CIRCLE. (3) The political, social and religious ideas of Thomas Carlyle, and their reflection in contemporary and later literature. 

247. STUDIES IN SHAKESPEARE. (3) Graduate Staff 

248. MARLOWE AND JONSON. (3) Seminar in romantic and realistic plot, characterization, and stagings. 

249. OLD ENGLISH. (3) Readings in Old English prose and poetry, exclusive of Beowulf. (Offered alternately with English 250.) 

250. BEOWULF. (3) Readings of the Old English epic, Beowulf. (Offered alternately with English 249.) 

251, 252. SEMINAR PROBLEMS FOR THE MASTER’S DEGREE. (1-3 each semester.) Studies in literature and philology. 

300. THESIS. (4-6) 

351, 352. SEMINAR PROBLEMS FOR THE DOCTOR’S DEGREE. (1-3 each semester) 

400. DISSERTATION. (Credit arranged) 

ENGLISH 

DIVISION OF JOURNALISM 

Assistant Professor Rafferty (Director); Instructor Conger. 

MAJOR STUDY 

Editorial Sequence—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. 

Community Newspaper Sequence—30 hours including 51, 52, 111, 122, 123, 130 and 190. Six hours may be chosen from the following: English 55, 91; Government 105; Business Administration 5. 

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

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. 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. Rafferty

2. INTRODUCTION TO JOURNALISM. (1) Same as above, but including an introduction to copy-editing and newspaper organization. Prerequisite: 1. Conger

51. NEWS WRITING AND REPORTING. (3) Spot news writing and opportunities for free-lance reporting and writing. Conger or Rafferty

52. NEWS WRITING AND REPORTING. [Newspaper Feature Writing] (3) The writing of newspaper feature stories in class and on assignment. Prerequisite: 51.

87, 88. PHOTOGRAPHY. (2, 2) (Same as Art 87, 88.) L. Haas or Conger

HA. READING FOR HONORS. (1-3 each semester) Staff

HB. RESEARCH FOR HONORS. (1-3 each semester) Staff

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. Conger

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. Rafferty

111. NEWSPAPER DESK WORK. (3) Practice in the assembling and editing of news copy, in dummying of newspaper pages, in headline writing, and in page makeup. Prerequisite: 51 and 52. Rafferty

112. NEWSPAPER DESK WORK. (3) Continuation of 111, with emphasis on wire copy and problems of typography. Rafferty

121. LAW OF THE PRESS. (2) Lectures, discussions, and case histories in the law of libel and the Constitutional guarantees, and
ARTS AND SCIENCES

in laws relating to contempt and injunction proceedings and other checks of law upon the press.  

Conger

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.  

Rafferty

130. ADVERTISING WRITING, COPY, AND LAYOUT. (4) The writing and laying-out of display advertisements. 3 lectures, 3 hrs. lab.  
Staff

132. GENERAL MAGAZINE WRITING. (2) Writing for professional magazine publication.  
Staff

187. NEWS PHOTOGRAPHY AND PICTURE EDITING. (3) The news approach to picture composition and production, including the taking of photographs with the standard news camera, and developing and printing; selection of pictures for newspaper and magazine use and instruction in their preparation for engraving, makeup in the page, and printed production. Prerequisite: 87. 1 lecture, 4 hrs. lab.  
Conger

190. PROBLEMS IN LOCAL AND NATIONAL ADVERTISING. (2) Lectures in, and discussions of, local retail and national-agency advertising problems and programs.  
Staff

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.  
Rafferty

ENGLISH

DIVISION OF SPEECH

Associate Professor Kelcher; Assistant Professors Allen (Director), Chreist, Ried; Instructors Adams, Hoffman, Law.

SPEECH LABORATORY

Every freshman and transfer student entering the University is required to take speech, voice, and hearing tests in the Speech Laboratory. If these tests show a significant defect or defects, the student may be required to take Speech A, Oral Communications, and possibly other work in the Speech Laboratory. In case of severe stuttering, stammering, lisping, speech blockage, lack of rhythm, and so on, the student may be required to take Speech 4, and to do additional work in the Speech Laboratory, 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, Argumentation and Debate.

MAJOR STUDY

35 hours, comprised of 29 hours completed in the Division of Speech, plus 6 hours in the Department of Drama. The 29 hours in the Division of Speech must include Speech 1 and 2 (or equivalent), 60 or 70, 91, 120, 135, 160, and 195. Majors and minors who are planning to teach should enroll in Education, The Teaching of English and Speech in the High School.

All students majoring or minoring in Speech must take a Speech Placement Test and must make a speech and voice recording. Students who have speech and/or voice defects must take Speech 4, and possibly further work, without credit, in the Speech Laboratory.

MINOR STUDY

20 hours completed in the Division of Speech, including Speech 1 and 2 (or equivalent), 91, 120, and 135. 10 hours must be in courses numbered above 50.

†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. Voice, posture, and speech personality are considered. Staff

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

4A. SPEECH EDUCATION. (3) Primarily for prospective teachers.

4B. SPEECH EDUCATION. (3) Primarily for students needing speech correction. Emphasis upon the more common types of speech disorders and their causes, and the various theories of treatment. 2 lectures, 2 hrs. lab.

†Credit allowed in General College only.
ARTS- AND SCIENCES

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

55. **Speech for Business and Professions.** (3) Speech for public occasions, the business conference, and the professions.

Keleher and Staff

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

59. **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

60. **Oral Reading (non-dramatic) and Choral Speaking.** [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

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.

Law

77. **Argumentation and Debate.** (3) A course for students interested in debate and intercollegiate forensics. Prerequisite: consent of instructor. — Ried

90. **Radio Production.** (3) A beginning in the nature and production of radio speech, techniques, direction, and production (excluding radio drama).

Allen

91. **History of the English Language.** (2) (Same as English 91.) — Pearce

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

135. **Articulatory Problems in Speech Correction.** (3) Sound substitutions, distortions, omissions, delayed speech, and problems of the deaf will be considered. Laboratory work using subjects from the University student body and from the public schools will be required. Prerequisites: 1, 2, 4, and permission of instructor. — Chreist
136. Stuttering Problems in Speech Correction. (3) The various theories of stuttering and other rhythmic disorders as well as corrective therapies will be studied. Laboratory work and observation will be required. Prerequisites: 1, 2, 4, and permission of the instructor. Chreist

155c. The Teaching of English and Speech in the High School. (3) (Same as Education 155c.) Keleher

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

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

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

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

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 Bollich, Davies, Emmanuel, Hendren, Noble, Smith, Stevenson.

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; either 109L and 110L or 111L and 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: Architectural Engineering 1L, 2L; Civil Engineering 4L, 54L, 60, 102, 110L, 120, 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

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. **Nonmetallic Deposits.** (3) Origin, properties, utilization, and classification of industrial minerals, rocks, and coal. Prerequisites: 6L and 74L.

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

103L. **Petrology.** (3) Classification, occurrence, origin, and hand-specimen recognition of common rocks. Prerequisites: 6L and 74L.

105. **New Mexico Geology.** (2) Prerequisites: 6L and 74L; 103L and 108L are strongly recommended.

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.

108L. **Structural Geology.** (3) Rock structures and their origins; problems. Prerequisite: 6L; mechanical drawing or descriptive geometry or both are strongly recommended. 2 lectures, 3 hrs. lab.

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.

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.

115L. **Geologic Interpretation of Aerial Photographs.** (2) Characteristics, photogrammetric computations, and stereoscopy. Preparation of planimetric and contour maps. Interpretation of geology and construction of photo-geologic maps. Prerequisites: Mathematics 16, Civil Engineering 4L, Geology 74L.
ARTS AND SCIENCES

108L and 181 are strongly recommended. 1 lecture, 3 hrs. lab.

Wengerd

121L, 122L. Optical Mineralogy and Petrography. (4, 4) 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. 2 lectures, 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. Petroleum Geology. (3) An inductive approach to the principles of oil origin, migration, and accumulation. Characteristics of oil and gas reservoirs; techniques of petroleum exploration. 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

181. Geomorphology. (3) Origin, development, and classification of land forms, with detailed consideration of gradational processes. Prerequisite: 108L.

Wengerd

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: 181. 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 Barrett, Cunningham, Thompson.

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.) Credit suspended until both semesters are completed. Staff

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. 93.) Barnard

HA. READING FOR HONORS. (1-3 each semester) Staff

HB. RESEARCH FOR HONORS. (1-3 each semester) Staff

101. LOCAL GOVERNMENT. (2) Special consideration of the organization, administration, and problems of counties, municipalities, metropolitan areas, and administrative districts. Cline

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. Judah
ARTS AND SCIENCES

121. Public Administration. (3) Introduction to the general problems of public administration in the modern state. 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.)

Westphal

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.

Jorrin

167. Political Theory. (3) Political thought from the Greek period through modern times. Prerequisites: 51, 52.

Jorrin

168. American Political Theory. (3) The origin and development of political ideas in the U.S. from colonial times to the present.

Judah

169. Comparative Government. (3) A survey and comparison of the leading governments of Europe. Prerequisites: 51, 52.

Westphal

170. Organization and Administration of Social Welfare. (3) The special application of the principles of public administration to the fields of social welfare. 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) Jorrin

300. Thesis. (4-6) Graduate Staff
ARTS AND SCIENCES

HISTORY

Professors Russell (Head), Dargan, Reeve, Sacks, Scholes; Associate Professor Woodward; Assistant Professor Lugo-Silva; Instructor Baylen; Teaching Assistants Armstrong, Bailey, Hood, Snyder, Westphall; Graduate Assistants Kenyon, Nutt.

GROUP REQUIREMENTS

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

MAJOR STUDY

Students entered before June, 1948, may choose either of the following programs; those entered 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.

1, 2. Western Civilization. (3, 3) European developments from the decline of Rome to the present.

Sacks, Russell, Baylen and Assistants

11, 12. History of the Americas. (3, 3)

Woodward, Lugo-Silva, and Assistants

31. History of New Mexico. (2) Reeve, Westphall

51, 52. History of the United States. (3, 3)

Dargan, Reeve, Lugo-Silva, Bailey

71, 72. History of England. (3, 3)

Russell

81, 82. History, and Political Institutions of Greece and Rome.

(3, 3) Snyder, Russell

85. History of Modern Russia. (2) Baylen

91. History of China. (3)

96. History of Japan. (3)

HA. Reading for Honors. (1-3 each semester)

Staff
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB. RESEARCH FOR HONORS. (1-3 each semester)</td>
<td>Staff</td>
</tr>
<tr>
<td>121. THE MIDDLE AGES. (3)</td>
<td>Russell</td>
</tr>
<tr>
<td>123. THE RENAISSANCE AND THE REFORMATION. (3)</td>
<td>Russell</td>
</tr>
<tr>
<td>131. ENGLISH CONSTITUTIONAL HISTORY. (3)</td>
<td>Russell</td>
</tr>
<tr>
<td>132. STUART ENGLAND. (2)</td>
<td>Russell</td>
</tr>
<tr>
<td>135. THE BRITISH EMPIRE. (3)</td>
<td>Sacks</td>
</tr>
<tr>
<td>141. INTERNATIONAL RELATIONS. (3) (Same as Government 141.)</td>
<td>Westphal</td>
</tr>
<tr>
<td>142. EUROPE, 1648-1774. (3)</td>
<td>Lugo-Silva, Sacks</td>
</tr>
<tr>
<td>143. FRENCH REVOLUTION AND NAPOLEON. (3)</td>
<td>Sacks</td>
</tr>
<tr>
<td>145. MODERN EUROPE, 1815-1914. (3)</td>
<td>Sacks</td>
</tr>
<tr>
<td>146. DICTATORSHIPS AND DEMOCRACY IN EUROPE SINCE 1914. (3)</td>
<td>Sacks</td>
</tr>
<tr>
<td>151. AMERICAN DIPLOMACY. (3)</td>
<td>Dargan</td>
</tr>
<tr>
<td>161, 162. HISTORY OF LATIN AMERICA. (3, 3)</td>
<td>Scholes, Woodward</td>
</tr>
<tr>
<td>163. THE A. B. C. POWERS IN RECENT TIMES. (3)</td>
<td>Woodward</td>
</tr>
<tr>
<td>165, 166. HISTORY OF SPAIN. (2, 2)</td>
<td>Russell, Lugo-Silva</td>
</tr>
<tr>
<td>167. HISTORY AND CIVILIZATION OF PORTUGAL. [History and Civil-</td>
<td>Woodward</td>
</tr>
<tr>
<td>ization of Portugal and Brazil] (3)</td>
<td></td>
</tr>
<tr>
<td>168. MEXICO AND THE CARIBBEAN. (3)</td>
<td>Woodward</td>
</tr>
<tr>
<td>171. THE AMERICAN COLONIES. (3)</td>
<td>Dargan</td>
</tr>
<tr>
<td>173, 174. AMERICAN BIOGRAPHY. (2, 2)</td>
<td>Dargan</td>
</tr>
<tr>
<td>175. THE SOUTH IN AMERICAN HISTORY, 1763-1865. (3)</td>
<td>Dargan</td>
</tr>
<tr>
<td>176. CIVIL WAR AND RECONSTRUCTION. (3)</td>
<td>Lugo-Silva</td>
</tr>
<tr>
<td>178. RECENT HISTORY OF THE UNITED STATES. (3)</td>
<td>Reeve, Lugo-Silva</td>
</tr>
<tr>
<td>179. CONSTITUTIONAL HISTORY OF THE UNITED STATES. (3)</td>
<td>Reeve</td>
</tr>
<tr>
<td>181. HISTORY OF THE AMERICAN FRONTIER. (3)</td>
<td>Dargan</td>
</tr>
<tr>
<td>183, 184. INTELLECTUAL AND SOCIAL HISTORY OF THE UNITED STATES. (2, 2)</td>
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</tr>
<tr>
<td>191, 192. HISTORY OF THE SOUTHWEST. (3, 3)</td>
<td>Reeve, Woodward</td>
</tr>
<tr>
<td>202. INTRODUCTION TO HISTORICAL RESEARCH. (3)</td>
<td>Woodward</td>
</tr>
<tr>
<td>251, 252. PROBLEMS. (1-3 each semester.)</td>
<td>Graduate Staff</td>
</tr>
</tbody>
</table>
ARTS AND SCIENCES

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 semester.) Scholes, Woodward
271, 272. Seminar in American History. (1-3 each semester.) Dargan, Reeve
300. Thesis. (4-6)

HOME ECONOMICS

(A department of the College of Education.)

GROUP REQUIREMENTS

Home Economics 53L and 54L count toward Science and Mathematics (Group IV).

MAJOR STUDY IN ARTS AND SCIENCES

Home Economics 1, 2L, 53L, 54L, 104, 107L, 109, 128, 132, 138L and two of the following courses: 12L, 60L, 63L. Chemistry 41L and 42L and Biology 12L, 36, and 93L are also required.

(For Home Economics course offerings, see College of Education.)

If a student majors in Home Economics in the College of Arts and Sciences, he may not have any other hours outside of the College.

For requirements for a major in dietetics consult the Dean of the College and the Home Economics Department Head.

MINOR STUDY IN ARTS AND SCIENCES

Home Economics 1, 2L, 53L, 54L and at least eight additional hours approved by the Head of the Department. At least three hours must be taken in a course numbered above 100.

(For Home Economics course offerings, see College of Education.)

ITALIAN

See Modern Languages.

JOURNALISM

See English.
ARTS AND SCIENCES

LIBRARY SCIENCE
Professor Shelton (Head)

MAJOR STUDY
Not offered.

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


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 Child, Gragg, Haas, Ingram, 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.)

MINOR STUDY
Mathematics 19 and 20, or equivalent, 53, 54, and at least 3 more hours in Mathematics courses numbered above 50.
NOTE TO BEGINNING STUDENTS

Students electing any freshman mathematics courses will take a placement test in Mathematics for the purpose of proper sectioning.

Courses for students who are not planning to take Mathematics 53-54: 1, 12, 14, 15, 16, 22.

Courses for students of Engineering, Physics majors, Chemistry majors (B.S.), Mathematics majors, and other eligible students who plan to take Mathematics 53-54: 19, 20.

Other courses open to all freshmen: 41, 42, 52.

X. [A.E. 10X] INTERMEDIATE ALGEBRA. (0) Prerequisite: 1 unit of high school algebra.

1. COLLEGE ARITHMETIC. (2) The intuitive and the logical background of arithmetic, drill in fundamental operations, critical study of methods of presentation, topics in college arithmetic. (No credit allowed in the Colleges of Engineering and Pharmacy.) Rogers, Child

12. ELEMENTS OF COLLEGE ALGEBRA. (3) Primarily for students of Business Administration.

14. AN INTRODUCTION TO MATHEMATICS. (3) A one-semester cultural course for students who plan to take no technical courses in mathematics, students of Education, or Fine Arts.

15. COLLEGE ALGEBRA. (3) For Premedics, Pharmacy, Chemistry (B.A.), N.R.O.T.C. students. Students with credit in Mathematics 12 get no additional credit for this course.

16. PLANE TRIGONOMETRY. (3)

19. ALGEBRA. (5) Prerequisite: A satisfactory grade on placement test. Students making an unsatisfactory grade are required to take an additional course without credit before enrolling for Mathematics 19.

20. PLANE TRIGONOMETRY AND PLANE AND SOLID ANALYTIC GEOMETRY. (5) Prerequisites: 19 or 15 and 16. (Mathematics 15, 16, and 20 to give a total of 9 hrs. credit.)

22. PLANE AND SOLID ANALYTIC GEOMETRY. [Analytic Geometry] (3) SS

41. [87] MATHEMATICS OF INVESTMENT. (3) Accepted for specific credit by the Department of Economics and the College of Business Administration. Prerequisite: 12 or equivalent.

Rogers, Gragg
ARTS AND SCIENCES

42. **INTRODUCTION TO STATISTICAL METHODS.** (3) A basic course especially for students specializing in the social sciences. Required for an Economics major. Some laboratory work required. Prerequisite: 12 or equivalent. Rogers

52. **DESCRIPTIVE ASTRONOMY AND METEORITES.** (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. Prerequisite: 20 or equivalent. Staff

61, 62. **SPHERICAL TRIGONOMETRY AND PRACTICAL ASTRONOMY.** (3, 3) Especially concerned with the mathematical foundation of navigation and related subjects. Prerequisite: 20 or equivalent. Staff

The courses which follow, except 131, are open only to students who have completed Mathematics 54 and who have the instructor's permission.

115. **THEORY OF EQUATIONS.** (3) Hildner

120. **PROJECTIVE GEOMETRY.** (3) Child

131. **MATHEMATICS OF STATISTICS.** (3) Prerequisites: 42 and 53. Rogers

132. **MATHEMATICAL PROBABILITY.** [Mathematics of Statistics] (3) LaPaz, Hendrickson

140. **NUMERICAL MATHEMATICAL ANALYSIS.** (3) Nomography, numerical differentiation and integration, interpolation, summation of series, finite differences. Staff

141, 142. [141, 151] **ADVANCED CALCULUS** [Differential Equations; Applied Mathematical Methods] (3, 3) Staff

143. **ORDINARY DIFFERENTIAL EQUATIONS** [Vector Analysis] *(3) Hendrickson

144. **PARTIAL DIFFERENTIAL EQUATIONS AND ORTHOGONAL SYSTEMS.** (3) Boldyreff

145. [143] **VECTOR ANALYSIS.** (3) Boldyreff

150. **DIFFERENTIAL GEOMETRY.** (3) LaPaz

161. **HISTORY OF MATHEMATICS.** (3) Hildner, Rogers

170. [107] **THEORY OF NUMBERS.** (3) LaPaz, Boldyreff
171. **Modern Algebraic Theories.** (3) Hildner

181. **Theory of Functions of a Real Variable.** (3) Hendrickson

182. **Theory of Functions of a Complex Variable.** (3) Boldyreff

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.

LaPaz

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

194, 195. **Pro-Seminar.** (2-3 hrs. each semester) Advanced study and independent reading. Staff

204, 205, 206, 207. **Seminar.** (2-3 hrs. each semester) Advanced reading and research. Graduate Staff

300. **Thesis.** (4-6) Graduate Staff

**MODERN LANGUAGES AND LITERATURES**

Professors Kercheville (Head), Jorrín, Lopes, Ortega, Sr. Sender; Associate Professors De Jongh, Duncan, Fenley, McKenzie; Assistant Professor Koch; Instructors Adams, Biondi, Campbell, Cobos, Nason, Pooler, Sra. Sender, Wallis; Teaching Assistants Bollard, Chase, Costales, Imbs, Scone, Stout, Ulibarri; Graduate Assistants Allen, Moseley, Mueller, Nelson.

**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 cooperation 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.

MODERN LANGUAGES

HA. Reading for Honors. (1-3 each semester) Staff
HB. Research for Honors. (1-3 each semester) Staff


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

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 Moliere. (2, 2) DeJongh

151, 152. Survey of French Literature from the Eleventh Century to the Revolution. (3, 3) DeJongh
ARTS AND SCIENCES

197, 198. Undergraduate Problems. (2, 2) DeJongh
251, 252. Graduate Problems in French Literature. (2, 2) DeJongh

GERMAN

Not offered.

MAJOR 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 writing and speaking of German. May be taken concurrently with German 51 and 52.
   McKenzie

62. Scientific German. (3) Readings in psychology, chemistry, mathematics, biology and anthropology. Prerequisite: 51 or equivalent.
   McKenzie

105, 106. Contemporary German Literature. (2, 2) McKenzie

151, 152. Survey of German Literature. (3, 3) McKenzie

MINOR STUDY

No major or minor study offered.

ITALIAN

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

Not offered.

MAJOR STUDY

MINOR STUDY

12 hours in Portuguese in courses numbered above 50.
ARTS AND SCIENCES

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. CAMOES. (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 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. Students are required to prepare a weekly assignment in the Phonetics Laboratory.
   Lopes and Staff

51, 52. INTERMEDIATE SPANISH. (3, 3) 51 and 52 offered every semester.
   Campbell and Staff

53, 54. 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.
   Nason and Staff

55, 56. PRIMER CURSO PARA ESTUDIANTES DE HABL A 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
ARTS AND SCIENCES

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. Wallis 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 prerequisites for all literature courses listed below.

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

107. EARLY SPANISH NOVEL. [Spanish Novel] (2) Origins, development of the realistic and other types of prose fiction to the end of the seventeenth century. Sender

108. MODERN SPANISH NOVEL. [Spanish Novel] (2) The Spanish novel from 1700 to 1900. Sender

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

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

145. HISPANIC CIVILIZATION. [Ibero-American Civilization] (2) Sender or Ortega

146. IBERO-AMERICAN CIVILIZATION. (2) Jorrín

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) Required of candidates for a graduate degree. Lopes

163. MEXICAN LITERATURE. [Contemporary Spanish-American Literature] (2) Prerequisites: 157, 158 or the equivalent. Lopes

164. THE LITERATURES OF ARGENTINA, URUGUAY AND CHILE. [Contemporary Spanish-American Literature] (2) Prerequisites: Spanish 157, 158 or the equivalent. Lopes
ARTS AND SCIENCES

165. CERVANTES AND THE PROSE OF THE GOLDEN AGE. [Cervantes and the Spanish Golden Age] (3) Kercheville or Sender

166. LOPE DE VEGA AND THE DRAMA OF THE GOLDEN AGE. [Cervantes and the Spanish Golden Age] (3) Sender

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.

263, 264: SEMINAR: SPANISH-AMERICAN LITERATURE. (2, 2) Pre-requisites: Spanish 157, 158 or the equivalent. Lopes

271. SPANISH POETRY. (2) Required of candidates for a graduate degree.

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. (Credit arranged) Graduate Staff

FOLKLORE

97, 98. [115] SOUTHWESTERN HISPANIC FOLKLORE. [Southwestern Folklore] (1, 1) Cobos

161. HISPANIC FOLKTALES. [Folktales] (2) Staff

162. HISPANIC FOLK BALLADS AND SONGS. [Folk Ballads and Songs] (2) Staff

142
ARTS AND SCIENCES

PHILOSOPHY

Professors Alexander (Head), Bahm.

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. (3) Acquaintance with examples of philosophical literature, and with major types, problems, and terminology of philosophy. Alexander, Bahm

2. INTRODUCTION TO PHILOSOPHY. [Philosophy, Science and Religion] (3) Inquiry into the character and relation of science and religion in interpreting the nature of man and his universe. Bahm

45. THOUGHT AND EXPRESSION. (3) The processes of logical thought as reflected in linguistic structure. Alexander

53. ETHICS. (3) What makes acts right? What are the basic reasons for our choices? How far do these determine our decisions in business, politics, religion, and marriage? Bahm

56. LOGIC. (3) Rules and fallacies of deductive and inductive reasoning. Prerequisite: 45 or equivalent. Alexander

64. PHILOSOPHY OF RELIGION. (3) A study of the major religions, the nature of religion, and some problems of religion. Bahm

HA. READING FOR HONORS. (1-3 each semester) Staff

HB. RESEARCH FOR HONORS. (1-3 each semester) Staff

102. AESTHETICS. (3) An introduction to the philosophy of art and beauty. Alexander

123. HISPANIC THOUGHT. (2) Major philosophical influences in Spanish culture. Alexander

132. [72] AMERICAN THOUGHT. (3) The development of philosophical and religious concepts inherent in the American way of life. Bahm

141, 142. HISTORY OF IDEAS. (3, 3) Introduction to the history
ARTS AND SCIENCES

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 exemplified by selected outstanding thinkers. Prerequisite: 3 hours of philosophy. Bahm

185. ORIENTAL PHILOSOPHY. (2) Introduction to major philosophical concepts and movements in Oriental cultures. Bahm

187. METAPHYSICS. (2) Study of time, space, change, cause, relations, purpose, plurality, continuity, quality, novelty, and value. Prerequisite: 3 hours of philosophy. (Offered alternately with 185.) Bahm

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) Scientific attitudes, methods, problems, fundamental concepts, and social consequences. Prerequisite: 3 hours of philosophy. (Offered alternately with 176.) Bahm

241, 242, 243, 244. PERIODS OF SPECIAL PHILOSOPHICAL SIGNIFICANCE. (2 hours each semester) Plato, Aristotle; Descartes, Spinoza, Leibniz; Locke, Berkeley, Hume; or others to be chosen by the group. Prerequisites: 141, 142. Alexander

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

300. THESIS. (4-6) Graduate Staff

PHYSICS

Professor Regener (Head); Consulting Professor Froman; Associate Professor Thomas; Assistant Professors Breiland, Friedland; Research Associates Bowen, Kaplan, Martens; Instructors Pomerooy, Runge; Graduate Assistants Butler, Cowan, Lavine, Merner, Rollosson, Zorn.

GROUP REQUIREMENTS

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

MAJOR STUDY

Required courses: Physics 51L, 52L, 101, 102, 103, 104, 105, 106; 101L, 102L, 106L, 107L; Mathematics 53, 54, 141, 142, 143, 144;
Chemistry 1L and 4L; Engineering Drawing 1L, Industrial Arts 10L and 20L, or other drawing and shop experience approved by the Department Head; at least six additional hours taken from the following list of recommended courses: Physics 121, 131, 161, 166, 191, 192; Chemistry 53L, 103L, 111L, 112L.

MINOR STUDY

Physics 51, 52, 101, 102, 103, 105, and one of the laboratory courses numbered above 100; Mathematics 53, 54, 141.

COMBINED MAJOR STUDY IN PHYSICS AND METEOROLOGY

Required courses: Physics 51L, 52L, 101, 101L, 103, 104, 121, 131, 125L, 126L, 127, 128; Mathematics 53, 54-141, 142, 143; all other requirements are identical with those listed under major study in Physics, except for this list of recommended courses from which the required six additional hours should be chosen: Physics 102, 102L, 105, 106L, 107L, 161; Mathematics 142.

GRADUATE STUDY

Physics 101 through 107L do not carry graduate credit for students working toward an M.S. or a Ph.D. degree in Physics. Prerequisite for all courses numbered 200 and above: An undergraduate major in Physics equivalent to that outlined above.

1. FUNDAMENTALS OF PHYSICS. (2) A non-technical introductory course covering classical and contemporary physics. Open to all students; no prerequisites. For physics courses required by the curricula in certain fields see Physics 11 and 12 or 51 and 52. Two lectures, with demonstrations; no laboratory. Staff

3. [Anthro. 113; Physics 15] INTRODUCTION TO WEATHER AND CLIMATE. [Climatology; Descriptive Meteorology] (3) A non-technical introductory course dealing with the fundamental principles and methods of the study of weather and climate. Open to all students; no prerequisites. Breiland

11L. GENERAL PHYSICS. (4) Mechanics, heat, sound. Required of premedical, predental, and preoptometry students, also of N.R.O.T.C. students in A & S, of pharmacy students, and of students majoring in Industrial Arts in the Engineering College. 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, also of N.R.O.T.C. students in A & S, of pharmacy students, and of students majoring in Industrial Arts in the Engineering College.
ARTS AND SCIENCES

College. Prerequisites: Physics 11L, Mathematics 15 and 16. 3 lectures, 3 hrs. lab.

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.

52L. GENERAL PHYSICS. (4) Electricity and magnetism, optics. Required of students planning to major in the natural sciences or in engineering. Prerequisites: Physics 51L and Mathematics 53. Pre- or co-requisite: Mathematics 54. 3 lectures, 3 hrs. lab.

101. HEAT AND THERMODYNAMICS. (3) Kinetic theory; specific heats; conduction, convection, radiation; change of state; classical thermodynamics. (Offered in 1949-50 and alternate years.)

101L. HEAT LABORATORY: (2) Measurement of temperature; heat transfer; radiation; specific heat; vacuum technique; viscosity; molecular motion and Avogadro's number; change of state. 1 lecture, 3 hrs. lab. (Offered in 1949-50 and alternate years.)

102. PHYSICAL OPTICS. (3) Wave theory of light; Fresnel and Fraunhofer diffraction; polarization; dispersion; absorption and scattering; black-body radiation. (Offered in 1950-51 and alternate years.)

102L. OPTICS LABORATORY AND GEOMETRICAL OPTICS. (2) Interference and diffraction phenomena; spectroscopic and spectrographic methods with visible and ultra-violet light; scientific photography; photoelectric densitometry. 1 lecture, 3 hrs. lab. (Offered in 1949-50 and alternate years.)

103, 104. ANALYTICAL MECHANICS. (3, 3) Statics and dynamics of particles and rigid bodies; Lagrange's and Hamilton's equations; theory of vibration and sound; hydrodynamics. Pre- or co-requisites: Mathematics 141, 142. (Offered in 1950-51 and alternate years.)

105, 106. ELECTRICITY AND MAGNETISM. (3, 3) Electrostatic and electromagnetic field theory. Direct and alternating current circuit theory. Pre- or co-requisites: Mathematics 141, 142. (Offered in 1949-50 and alternate years.)

106L. ELECTRICITY LABORATORY: (2) Measurement of d.c. and a.c. circuit constants; charge; magnetic fields; power; resonance.
ARTS AND SCIENCES

1 lecture, 3 hrs. lab. (Offered in 1950-51 and alternate years.) Friedland

107L. ELECTRONICS LABORATORY AND ELECTRON PHYSICS. (3) Characteristics of vacuum tubes; amplifiers; oscillators; oscilloscopes; rectifiers; photoelectric cells; scaling circuits. 2 lectures, 3 hrs. lab. (Offered in 1950-51 and alternate years.) Friedland

121. GENERAL METEOROLOGY. (3) Instruments and observations; thermodynamics and statics; precipitation; radiation; wind; air masses; fronts and cyclones; forecasting techniques. Breiland

125L, 126L. SYNOPTIC METEOROLOGY. (3, 3) Weather analysis and forecasting from surface and upper air data. Prerequisite: 121. 2 lectures, 3 hrs. lab. (Offered in alternate years; alternates with Physics 127, 128.) Breiland

127, 128. DYNAMIC METEOROLOGY. (3, 3) Thermodynamics of dry and moist air; stability of hydrostatic equilibrium; atmospheric kinematics and dynamics. Pre- or co-requisite: 121. (Offered in alternate years; alternates with Physics 125L, 126L.) Breiland

131. ATMOSPHERIC PHYSICS. (3) Distribution of gases in the atmosphere; the ozone problem; distribution and variation of temperature; the ionosphere; aurora and the light from the night sky; atmospheric electricity. (Offered in 1949-50 and alternate years.) Kaplan, Regener

161, 162, 163, 164. EXPERIMENTAL RESEARCH METHODS. (2 hrs. each semester.) Advanced laboratory work. Prerequisite: approval of instructor. Friedland, Regener

166. METHODS OF THEORETICAL PHYSICS. (3) Problems in diffusion, heat conduction, wave motion and potential theory. Prerequisite: approval of instructor. Friedland, Thomas

190. INTRODUCTION TO CONTEMPORARY PHYSICS. (3) Occasionally offered during the summer session. Staff

191. CONTEMPORARY PHYSICS. (3) The theory of special relativity; early quantum theory with applications to specific heats and to atomic and molecular spectra. Regener

192. CONTEMPORARY PHYSICS. (3) An introduction to wave mechanics, to nuclear physics and to cosmic radiation. Regener

199. SEMINAR. (1 hr. each semester) Staff

201. STATISTICAL MECHANICS AND THERMODYNAMICS. (3) Classical and quantum statistics with applications to molecules and
elementary particles. (Offered in 1950-51 and alternate years.)

Thomas

211. ELECTRODYNAMICS. (3) Maxwell’s equations applied to radiation, scattering, micro-waves; Lorentz invariance. (Offered in alternate years.)

Thomas

221, 222. QUANTUM MECHANICS. (3, 3) Uncertainty principle; potential wells and barriers; perturbation theory; relativistic wave equation; quantization of the radiation field. Thomas

231. ATOMIC STRUCTURE. (3) Relativistic corrections; Zeeman and Stark effects; calculations for many-electron systems. Prerequisite: 221. (Offered in 1949-50 and alternate years.) Staff

233. MOLECULAR SPECTRA AND STRUCTURE. (3) Classical theory and quantum theory of infrared spectra; dissociation spectra; line broadening. (Offered in 1950-51 and alternate years.)

Kaplan

241. NUCLEAR PHYSICS. (3) Binding energies; scattering; photo-disintegration; compound nuclei; beta-decay; alpha decay; nuclear forces. Prerequisite: 221. (Offered in 1950-51 and alternate years.)

Thomas

251, 252. PROBLEMS. (2-4 each semester.) Staff

299. ADVANCED SEMINAR. (1-3 each semester.) Staff

300. THESIS. (4-6) Staff

350. RESEARCH. (6-12) Staff

400. DISSERTATION. (Credit arranged) Staff

PORTUGUESE

See Modern Languages.

PSYCHOLOGY

Professor Petérsen (Head); Visiting Associate Professor Heston; Assistant Professors Keston, Utter; Instructor Benedetti; Teaching Assistant Rigney; Graduate Assistants Easley, Fink, Holmen; McGiboney, Pinto, Suess.

GROUP REQUIREMENTS

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

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 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.

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. Utter

60. Dynamics of Personality Adjustment. (3) Major principles underlying personality adjustment and their practical application to mental hygiene. Prerequisite: 2L or 51. Benedetti, Heston

HA. Reading for Honors. (1-3 each semester) Staff

HB. Research for Honors. (1-3 each semester) Staff

101. Social Psychology. (3) The behavior of individuals as influenced by other human beings. Prerequisite: 2L or 51. Keston

103. Abnormal Psychology. (3) Dynamics of psycho-neurotic, psychotic, alcoholic, criminal and other maladjustive reactions. Prerequisite: 60 or consent of instructor. Benedetti

121L. Experimental Psychology of Sensory and Motor Processes. (3) Lectures and experiments in vision, hearing, psycho-motor performance and related topics. Prerequisite: 2L or 51. 1 lecture, 6 hrs. lab. Utter

122L. Experimental Psychology of Learning. (3) Lectures and experiments in learning, concept formation and reasoning. Prerequisites: 2L or 51. 1 lecture, 6 hrs. lab. Utter

131. Psychological and Educational Tests. (3) Prerequisite:
ARTS AND SCIENCES

2L or 51. Credit not allowed to those who have credit for 185.

182L. DIAGNOSTIC TESTING. (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.

180. ADVANCED STATISTICAL METHODS IN PSYCHOLOGY. (3) Prerequisites: a course in statistics or consent of instructor; 2L or 51.

183. EDUCATIONAL PSYCHOLOGY. (3) Advanced course. Not open to those who have credit for 54. Prerequisite: 2L or 51.

187. CHILD PSYCHOLOGY. (3) The principles of human behavior in infancy, childhood, and adolescence. Prerequisite: 2L or 51.

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.

193L. ANIMAL PSYCHOLOGY LABORATORY. (2) 6 hours lab.

196. PHYSIOLOGICAL PSYCHOLOGY. (3) Correlation of behavior and structure, with emphasis on the nervous system. Prerequisite: 2L or 51.

196L. PHYSIOLOGICAL PSYCHOLOGY LABORATORY. (2) 6 hrs. lab.

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.

198. HISTORY OF PSYCHOLOGY. (3) Prerequisite: 2L or 51.

199. UNDERGRADUATE PROBLEMS. (1-3) Prerequisite: 2L or 51.

221, 222. GRADUATE SEMINAR. (1-3 each semester)

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. Pre-
requisites: 103, 132L, or equivalent, and consent of instructor.  
1 lecture, 6 hrs. lab.

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 Steglich; Graduate Assistants Curtis, Franklin, Schulman.

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

Major Study
Sociology: 24 hours in Sociology courses numbered above 50, including 18 above 100.
Social Work: Combined major and minor; see Social Work Curriculum.

Minor Study
12 hours in Sociology courses numbered above 100.

1, 2. Introduction to Social Science. (3, 3) Yr. (Same as Economics 1, 2 and Government 1, 2). Credit suspended until both semesters are completed.
Staff

51. The Family. (3) 
Ellis

55. [122] Principles of Sociology. (3) Prerequisite to most advanced courses in the Department.
Staff

Ellis

Miller

71. Social Control. (3) Agencies and processes by which groups regulate their members. Prerequisite: 55 or equivalent.
Walter

72. Social Pathology. (3) Social problems as they impinge upon individual welfare. Prerequisite: 55 or equivalent. Miller

73. Introduction to Latin America. (3) (Same as Anthropology 73, Economics 73, and Government 73.) For description, see p. 93. Does not give credit toward a Sociology major. Jorrin

81. Rural Sociology. (3) Saunders
ARTS AND SCIENCES

82. **Urban Sociology.** (3) Saunders

HA. **Reading for Honors.** (1-3 each semester) Staff

HB. **Research for Honors.** (1-3 each semester) Staff

101. **Social Psychology.** (3) (Same as Psychology 101.) Walter

102. **Collective Behavior.** (3) Sociological approach to the analysis of human behavior. Prerequisite: 55 or equivalent. Walter

107. [107, 108] **Man and Society in Latin America.** (3) Pre-requisite: 73 or equivalent. Does not give credit toward a Sociology major or minor. Jorrín

109. **Criminology.** (3) Crime as a social phenomenon. Prerequisite: 71 or equivalent. Miller

110. **Juvenile Delinquency.** (2) Prerequisite: 55 or equivalent. Miller

111. [111, 112] **Social Problems of Latin America.** (3) Prerequisite: 73 or equivalent. Does not give credit toward a Sociology major or minor. Jorrín

117. **Social Problems of New Mexico.** (3) Saunders

140. **Economic Security.** (3) (Same as Economics 140.) Walter

151, 152. **Introduction to Social Work.** (3, 3) Prerequisite: 72 or equivalent. Ellis

154. **Race and Culture Relations.** (3) Saunders

163. **History of Social Thought.** (3) Prerequisite: 55 or equivalent. Miller

166. **Methods in Sociology.** (3) Prerequisite: 55 or equivalent. Walter

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, 152. Ellis

241. **Seminar: Social Organization.** (3) Graduate Staff

242. **Seminar: Social Processes.** (3) Graduate Staff
300. Thesis. (4-6)

SPANISH
See Modern Languages.

SPEECH
See English.
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.

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 receiv-
ing 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.

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.

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 and maintain a grade-point average of 1 on the total hours attempted in completing the curricula. Three-fourths of the semester hours offered toward a degree must be of C grade or better.

Electives, where permitted, are to be chosen with the consent of the Head of the department concerned.

The course of study for the first year is uniform for all departments except Industrial Arts. Near the end of the freshman year, the student must elect the course which he intends to follow, and report his choice to the Dean's office. Students may elect the course in Industrial Arts after the first year without loss of time.

CURRICULA OFFERED BY THE COLLEGE OF ENGINEERING

COURSES OF STUDY FOR ALL ENGINEERING STUDENTS

<table>
<thead>
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<th>FRESHMAN YEAR</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>First Semester</td>
<td>Second Semester</td>
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<td>Math 19</td>
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155
COLLEGE OF ENGINEERING

NOTES:

a. Students deficient in mathematics will be required to take a preparatory course in this subject before taking Mathematics 19.

b. Students deficient in English will be required to take English A in addition to English 1.

c. For a description of the freshman courses refer to page 135 for Mathematics; to page 116 for English; to page 109 for Chemistry; and to page 157 for Architectural Engineering (A.E.).

COLLEGE OF ENGINEERING

DEPARTMENTS OF INSTRUCTION

Courses numbering: from 1-49, normally open to freshmen; from 50-99, normally open to sophomores; from 100-199, 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.

ARCHITECTURAL ENGINEERING

Associate Professor Heimerich (Head), Assistant Professor Huzarski, Instructors Gafford, Nickell.

The curriculum in Architectural Engineering not only emphasizes the structural and mechanical phases of architecture, but also the architectural design of buildings, both public and private.

After graduation, opportunities for employment would be as a draftsman, architectural or structural designer, superintendent of building construction, estimating cost of construction, general contracting, and the many service organizations in the building field.

All work, drawings and designs made by the student and presented for credit will become the property of the department; their return will be at the discretion of the faculty.

ARCHITECTURAL ENGINEERING LABORATORY. The drafting and design rooms for engineering drawing and architecture, are housed in
COLLEGE OF ENGINEERING

a temporary building, B-2, near the main engineering buildings. Three well-equipped drafting rooms are provided for the work of this department, in addition to offices, a store room, and a blueprint room.

CURRICULUM IN ARCHITECTURAL ENGINEERING

SOPHOMORE YEAR

<table>
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<tr>
<th>Course</th>
<th>Hrs.</th>
<th>Lect.-Lab.</th>
<th>Course</th>
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<td>Physics 51L</td>
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JUNIOR YEAR

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SENIOR YEAR

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<td>P E</td>
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</table>

DESCRIPTION OF COURSES

When a prerequisite course number is not preceded by a department designation, "A E" is implied.

A. E.

1L. ENGINEERING DRAWING. (3) The essentials of drafting, including the use of instruments, lettering, projection, dimensioning, 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: 1L.
COLLEGE OF ENGINEERING

3. ORIENTATION. (1) Orienting beginning engineering students in the various phases of engineering.

4L. ENGINEERING PROBLEMS. (2) 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: 2L.

52L. ARCHITECTURAL DRAFTING. (3) Preparation of complete small-scale working drawings for small buildings. Prerequisite: 2L.


152L. WORKING DRAWINGS II. (5) A continuation of A.E. 151L. Prerequisite: 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: 102L.

162. BUILDING MATERIALS AND CONSTRUCTION II. (3) A continuation of A.E. 161. Prerequisite: 161.

168. SPECIFICATION WRITING. (2) Writing specifications for various types of building construction. Prerequisites: 151L, 161.

CHEMICAL ENGINEERING
Professor Castonguay (Head); Instructors Ferm, Hoover.

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 designed 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 processes, 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.

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 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 nitrification, 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 design laboratory are available. Shop facilities are in conjunction with the well-equipped Industrial Arts Shop.

Curriculum in Chemical Engineering

| Sophomore Year | | Junior Year | |
|----------------|-----------------------|-----------------------|
| Math 53        | 4 (4-0)               | Math 54               | 4 (4-0) |
| Physics 51L    | 4 (3-3)               | Physics 52L           | 4 (3-3) |
| Chem 53L       | 5 (3-3)               | Chem 101L             | 4 (3-3) |
| Ch E 51        | 2 (3-0)               | Ch E 52.              | 3 (3-0) |
| Econ 51        | 3 (3-0)               | C E 60                | 3 (3-0) |
| P E            | 18 (15-12)            |                       | 18 (16-6) |
| Ch E 111       | 4 (4-0)               | Ch E 112              | 4 (4-0) |
| Ch E 113L      | 2 (3-3)               | Ch E 114L             | 2 (3-3) |
| Chem 111L      | 4 (3-3)               | Chem 112L             | 4 (3-3) |
| Chem 102L      | 4 (3-3)               | M E 104L              | 3 (3-0) |
| M E 105        | 2 (2-0)               | C E 102               | 3 (3-0) |
|                | 16 (12-12)            | C E 103L              | 1 (0-3) |
|                |                       |                       | 17 (13-12) |
**COLLEGE OF ENGINEERING**

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<th>SEMIEN YEAR</th>
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**DESCRIPTION OF COURSES:**

When a prerequisite course number is not preceded by a department designation, "Ch E" is implied.

**Ch. E:**

51. **CHEMICAL CALCULATIONS.** (2) More extensive problem work in the stoichiometric principles of chemistry, including composition changes; the material balance; units and dimensions. Prerequisites: 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 or the equivalent, Physics 51L, and Mathematics 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: 52 or the equivalent.

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: 113L.

113L. **UNIT OPERATIONS, LABORATORY I.** (2) Laboratory practice and experimental study of unit operations covered in Ch.E. 111. Co-requisite: 111.

114L. **UNIT OPERATIONS, LABORATORY II.** (2) Experimental laboratory study of the unit operations covered by Ch.E. 112. Prerequisite: 113; co-requisite: 112.

151, 152: **SEMINAR.** (1/2, 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 industries. Studies involving nitration, halogenation, sulfonation, oxidation, alkylation, hydrolysis, polymerization, and similar topics. Prerequisites: Chemistry 101L, 102L, and Ch.E. 112.

162. INORGANIC UNIT PROCESSES. (2) A study of the processes and manufacturing methods used in 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 feasibility of putting a chemical on the market. Particular reference to control of raw materials, markets, competition, patent situation, and related topics. Prerequisites: Economics 51 or the equivalent, Ch.E. 111 and 112.

181L. CHEMICAL ENGINEERING PROCESS LABORATORY I. (2) Experimental laboratory studies employing a series of unit operations and unit processes to produce small quantities of chemicals by pilot plant methods. Emphasis on literature review, laboratory notebook, and reports. Prerequisite: Chemistry 111L; co-requisite: Ch.E. 161 or 162.

182L. CHEMICAL ENGINEERING PROCESS LABORATORY II. (2) Continuation of Ch.E. 181L; but may be taken as an independent unit. Prerequisite: Chemistry 111L; co-requisite: Ch.E. 161 or 162.

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: 191.

194L. CHEMICAL ENGINEERING DESIGN. (2) Selection and design of process equipment, layout of building and cost estimates. Prerequisites: 112, 191.

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. 191.

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.

201. **Chemical Engineering Seminar.** (1-2) Offered each semester. Individual study on advanced phases of chemical engineering and industrial chemistry. Research, reports, and conferences.


222. **Advanced Chemical Engineering II.** (3) Continuation of Ch.E. 221, but may be taken as an independent unit. Problems of distillation, absorption, and extraction.

231. **Refinery Process Engineering.** (3) Studies in the design of equipment for processing petroleum, with emphasis on the unit operation and thermodynamics of chemical engineering as applied to these processes.

241. **Catalysis and High Pressure.** (3) Principles involved in the use of catalysis and high pressure in the chemical industry.

242. **Advanced Chemical Engineering Thermodynamics.** (3) Advanced thermodynamics with reference to its application in chemical engineering.

300. **Thesis.** (4-6)

**Civil Engineering**

Professor Wagner (Head); Associate Professor Foss; Assistant Professors May, Thompson, Wager-Smith; Instructors Clough, Martinez, Thomas, Zwoyer; Graduate Assistants Hall, Vandertulip.

Civil Engineering, the oldest branch of Engineering, is constantly changing with the progress of science. The course in Civil Engineering is designed to provide the young engineer with the necessary foundation of basic knowledge and to acquaint him with the latest advances in this field. The aim is to train men who will have a professional attitude toward their work and not be mere technicians. 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.

**Civil Engineering Laboratories.** 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. All equipment and all tests conform to accepted standards of
engineering practice. A new 300,000 pound testing machine permits tests on large specimens.

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 equipment for design of both asphalt and road-oil paving mixtures.

Graduate civil engineers are needed wherever men build, operate or maintain civil structures. Many find their careers in industry while others devote themselves to public service in the Federal or state governments. The Southwest, with its rapidly expanding economy, has need for many such trained men especially in the fields of irrigation, flood control, sanitary, highway and municipal engineering.

**CURRICULUM IN CIVIL ENGINEERING**

**SOPHOMORE YEAR**

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**SENIOR YEAR**

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*NOTE: The Technical Electives will be chosen from the following courses: C. E. 160L, 170, 171, 183, 184, 186, 187, 188, 190L, 191, and 195L.*
DESCRIPTION OF COURSES:

When a prerequisite course number is not preceded by a department designation, "C. E." is implied.

C. E.

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.

53L. ELEMENTARY SURVEYING. (3) Lectures and field practice in leveling, traversing, determination of areas, stadia measurements, and care and adjustment of instruments. Prerequisite: Mathematics 16.

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: 53L or 4L.

60. APPLIED MECHANICS (STATICS). (3) Principles of statics, friction, centroids and moment of inertia of areas. Co-requisite: Mathematics 54; prerequisite: Physics 51L.

102. 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: 60.

103L. 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: 102.

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: 53L or 4L.

110L. FLUID MECHANICS. [Hydraulics] (4) Fundamental principles of hydrostatics, hydrokinematics with particular emphasis on application to practical hydraulic engineering problems. Flow net construction and experiments illustrating the principles of fluid motion.

115L. PLAIN CONCRETE I. (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.
COLLEGE OF ENGINEERING

118L. Highway Material Laboratory. (3) Properties of materials used in highway construction with particular attention to the bituminous materials.

119. Highway Engineering. (2) Theory and practice in design, construction and maintenance of low cost, intermediate and high type road surfaces. Financing, operation, and comparative study of road types. Prerequisite: 118L.

120. Hydrology. (3) Occurrence and movement of water by natural processes. Analysis of rainfall, runoff, evaporation and infiltration data.


124. Structural Design I. (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: 102.

152. Construction Specifications and Costs. (2) Preparation of contract documents, quantity survey, cost estimates, and cost reports. Prerequisite: senior standing.

155L. Structural Design II. (3) 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: 122L and 124.

158. Reinforced Concrete Design I. (2) The theory of reinforced concrete, the design of elementary members, including the study of current design specifications. Prerequisite: 122L.

159L. Reinforced Concrete Design II. (3) The analysis and design of complete reinforced concrete structures and masonry structures consistent with the current modern practice. Prerequisite: 158.

160L. Indeterminate Structures. (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: 122L.

161. [161L] Water Supply. (2) A study of works for collec-
COLLEGE OF ENGINEERING

tion, storage, purification and distribution of municipal water supplies; sources of supply—streams, lakes, impounding reservoirs, wells. Prerequisite: 110.

162. [162L] SEWAGE TREATMENT. [Sewerage] (2) A study of the principles of sewage and industrial waste treatment and the design and construction of sewage treatment works. Prerequisite: 110L.

164L. SANITARY ENGINEERING LABORATORY. (2) Physical and chemical tests used in water and sewage analysis and the application of these tests to water supply and sewage disposal. Procedures for estimating sewage quantities and storm water runoff, and principles of sewerage design and construction. Prerequisite: 161; co-requisite: 162.

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: Geology 4.

170. ADVANCED STRENGTH 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: 102.

171. BUILDING CONSTRUCTION. (3) A resume 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.

183. INTERMEDIATE FLUID MECHANICS. (3) A comprehensive study of fluid behavior with emphasis upon physical properties. Prerequisite: 110L.

184. WATER POWER. (3) Problems in design and construction relating to reservoirs, dams, conduits, and general hydraulic engineering. Prerequisite: 120.

186. [204] FLOOD CONTROL. (3) Flood runoff, retarding basin, spillway and conduit design, channel improvements. Prerequisite: 120.

187. IRRIGATION ENGINEERING. (3) Review of the field of irrigation from the engineering viewpoint, with problems on the design of projects. Prerequisite: 120.
188. **Hydraulic Measurements.** (3) An intensive study of the measurement of flowing liquids by means of weirs, orifices, venturi meters, pitot tubes, current meters, bends, hydrochemical, color-velocity and salt-velocity methods, and pressure measurements. Prerequisite: 110L.

190L. **Municipal Engineering.** (3) City planning; street systems; subdivisions; housing; zoning; building codes and design of municipal details.

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.** (3) Use of admixtures in concrete and critical review of research in the field of concrete mixes. Prerequisite: 115L.

205. **Soil Mechanics.** (3) Properties of soils and their ability to exert and resist loads, with applications toward foundation designs for all types of structures. Prerequisite: 167L or its equivalent.

206. **Hydraulics of Open Channel Flow.** (3) Backwater curves and the hydraulic jump. Prerequisite: 120.

207L. **Hydraulic Design.** (3) Design of various features of water power, irrigation, flood control, and navigation systems largely from the view point of the application of the science of hydraulics.

208L. **Hydraulic Structures.** (2) Analysis and design of structures representative of hydraulic and sanitary engineering construction, such as: dams, locks, gates, reservoirs, and conduits, with particular emphasis on the functions and hazards involved.

209L. **Indeterminate Structures.** (3) A continuation of C.E. 160L.

210L. **Structural Design III.** (3) A continuation of C.E. 155L.

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.

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, and load distribution on subgrades.

215L. Reinforced Concrete Design III. (3) A continuation of C.E. 159.

216L. Foundations. (3) Design of substructures to meet various soil conditions. Prerequisite: 205.

217L. Transportation and Deposition of Sediment. (3) Hydraulic engineering aspects of sediment transportation and deposition including physical properties of sediments and their measurements, measurements of sediment discharge, laws governing sediment movement and their application to engineering problems.

218. Hydraulic Turbines. (2) Theory, design and selection of hydraulic turbines and related equipment.

251, 252. Problems. (3, 3) Advanced reading, design or research.

300. Thesis. (4-6)

**ELECTRICAL ENGINEERING**

Professors Tapy (Head), Ellis; Assistant Professors Jacobson, Martin; Instructors Hessemer, Mullins, Reiff.

The Electrical Engineering course is designed to educate the student in the basic sciences of mathematics, physics, chemistry and engineering so that he can apply these basic principles to the practical problems of industry. These problems are usually varied and broad in nature. Therefore the curriculum is designed so that the student may obtain a maximum of related courses by using the technical electives in the senior year. Thus the research type of student can take work in mathematics and physics, or he might combine electronics and power courses for a better background in both power and communications, or he might combine some business administration courses with his basic electrical engineering.

Electrical Engineering Laboratories. 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.

The power laboratory is equipped with the common types of
D.C. and A.C. motors and generators and the necessary manual and automatic starters and controllers for performing all the standard tests on this equipment.

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 industrial electronics laboratory recently acquired material which will complete its integration and correlation with the theoretical presentation of the subject. Equipment in use includes 25 Kw ignitron converter, Thyatron motor control, speed regulators, voltage regulators, electronically controlled resistance welder, industrial X-ray unit, induction and dielectric heaters, precipitron, and so on. Facilities are available for demonstrating most of the circuits and techniques associated with industrial electronic control.

The electronics and communications laboratory comprises a series of more than sixty comprehensive experiments that are closely integrated with the courses in electronics, communications, and ultra-high frequency techniques. The tests performed, test equipment employed, and circuits tested are all insofar as is possible standard. This has been done in order to familiarize the student with accepted practices in this field and with the capabilities and limitations of the test equipment ordinarily available to him. Some special facilities are available for advanced study by graduate students and exceptional undergraduates, particularly in the U.H.F. field and in materials testing by electronics.

The experiments include the determination of tube characteristics, ranging from vacuum diodes to klystrons and magnetrons; network analysis with precision laboratory measuring equipment; behavior of standard circuits found in AM and FM radio, radar, television, sound on film recordings, carrier telephony, etc.

**CURRICULUM IN ELECTRICAL ENGINEERING**

**SOPHOMORE YEAR**

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169
# COLLEGE OF ENGINEERING

## JUNIOR YEAR

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Electives: 11 (7-12 Electives 8-3)

- Electives: 3-8

The following electives are intended to be suggestive. Other courses may be approved if they fit the student's needs in planning his career. Any electives selected must have the approval of the Department Head.

### DESCRIPTION OF COURSES:

When a prerequisite course number is not preceded by a department designation, "E. E." is implied.

### E. E.

**51L. ELECTRICAL ENGINEERING COMPUTATIONS.** (3) Problems in electrical engineering involving the use of determinants, series, complex numbers, hyperbolic functions. Prerequisite: Mathematics 22.

**54L. ELECTRIC AND MAGNETIC CIRCUITS.** (5) Direct current electric and magnetic circuits under steady state and transient conditions. Co-requisite: Mathematics 53.

**101L. DIRECT CURRENT MACHINES.** (4) Theory and application of D.C. motors and generators and their control equipment. Prerequisite: 54L.

**105L. ELECTRICAL APPLICATIONS.** (3) Theory and application of D.C. motors and generators. Prerequisites: Mathematics 54 and Physics 52L.

**106L. ELECTRICAL APPLICATIONS.** (3) Theory and applications...
of A.C. circuits and machines to industrial problems. Prerequisite: 105L.


109L, 110L. Applied Electricity. (3, 3) Direct and alternating current circuits and machines and their practical application to the machines in small shops.

113L. Electric and Magnetic Circuits. (4) Single and poly-phase circuits, wave analysis, coupled circuits, and symmetrical components. Prerequisites: Mathematics 54 and E.E. 54L.


132L. Electronics. (4) Basic applications of electron tubes; rectification; class A voltage and power amplifiers; push-pull amplifiers; class AB, B, and C amplifiers, oscillators; modulators; detectors. Prerequisite: 131L.

142L. Circuit Analysis. (4) Network theorems and functions; basic transmission line theory, bridges; transients, filters and impedance transformations. Prerequisite: 113L.

151L, 152L. Alternating Current Machinery. (4, 4) Prerequisites: 106L, 113L.

153L. Electronics and Control. (3) Application of electromagnetic and electronic control to industrial problems. Prerequisites: 105L, 106L.

155L. Electronics Laboratory. (1) Laboratory course for E.E. 132L. Prerequisite: 132L.

162L. Electrical Engineering Design Laboratory. (3) Design and testing of electrical circuits and machines. Prerequisite: senior standing; co-requisite: 152L.


174L. [172L] Industrial Applications. (4) Application and control of direct and alternating current machines. Prerequisite: 106L; co-requisite: 152L.
186. **Generating Stations.** (3) The engineering and economic considerations governing the location, design, and operation of electric power plants, and the elementary principles of corporate finance and rate-making. Prerequisites: Economics 51 and E.E. 151L.

193L. **Communication Electronics.** [Communication Engineering] (4) Electronic circuits fundamental to communication systems; amplitude, frequency, and phase modulation and demodulation; R.F. amplifiers, oscillators coupling to free space. Prerequisites: 132L and 142L.

194L. **Ultra High Frequency Engineering.** [Communication Engineering] (4) Transmission lines, wave guides, cavity resonators, horns, parabolas, timing circuits; video amplifiers, vacuum tubes at U.H.F., Klystron, magnetrons, radio propagation. Prerequisite: 193L.

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: 132L; co-requisite: 151L.

196L. **Power Transmission and Distribution.** (4) Electrical and mechanical characteristics; economics of transmission and distribution systems. Prerequisites: 115L and 151L.

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.

251, 252. **Problems.** (3, 3) Advanced reading, design, or research.

300. **Thesis.** (4-6)

**GENERAL ENGINEERING**

(Not a department).

Engr. 195. **Engineering Law.** (3) Prerequisite: senior standing.

**MECHANICAL ENGINEERING**

Professors Ford (Head), Farris; Associate Professor Grace; Assistant Professor Keely; Instructors Bates, Mead, Reed, Rightley; Graduate Assistants Hildebrandt, Ralls, Williams.
Mechanical Engineering is divided into three main fields, Design, Power, and Production. The courses in Mechanical Engineering present the theory and practice of the generation and utilization of power and of the design, construction, and operation of mechanical equipment of all kinds. In the laboratories, emphasis is placed on basic engineering principles, standard test procedures, and the economics of various types of equipment. In the mechanical engineering laboratory will be found representative examples of commercial machines and instruments used in the fields of heat power, fluid flow, refrigeration, aerodynamics, and fuel analysis and testing.

OPTIONS

Aeronautical—Theoretical and laboratory work in the field of aeronautical engineering, including wind-tunnel investigations, is offered as a senior option under the Department of Mechanical Engineering.

Petroleum Production—Theoretical and laboratory work in the field of petroleum production is offered as a senior option under the Department of Mechanical Engineering.

OPPORTUNITIES FOR GRADUATES

The graduate mechanical engineer will find many openings in a great variety of fields which fall within the three main classifications: power, design, and production. A short list of possible opportunities might include: test engineering; production control; tool design; machine design; heating and air conditioning design, production, installation, and operation; power plant design, construction, and operation; refrigeration engineering; research; sales and purchasing engineering; product design and development; consulting engineering; transportation; safety engineering; aeronautical engineering; petroleum production.

CURRICULUM IN MECHANICAL ENGINEERING

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**DESCRIPTION OF COURSES:**

When a prerequisite course number is not preceded by a department designation, "M. E." is implied.
M. E.

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. Prerequisites: A.E. 1L, 2L.

60. **Mechanics.** (2) For Industrial Arts students. Fundamental principles of statics and dynamics.

101. **Heat Power Engineering.** (3) Theory and characteristics of heat engines and heat power equipment. Prerequisites: Physics 51L and 52L, Mathematics 54 and Chemistry 2L.

102. **Thermodynamics.** (4) Prerequisite: 101.

103L. **Heat Power Laboratory.** (2) Co-requisite: 101.

104L. **Elements of Thermodynamics.** (3-4) Principles of heat engines and thermodynamics. Not for mechanical engineers. Prerequisites: Physics 52L, Mathematics 54. Course may be taken for 3 hrs. credit without lab.

105. **Mechanics.** (2) Principles of dynamics. Prerequisite: C.E. 60.

107L. **Strength of Materials.** (2) For Industrial Arts students. The mechanics of materials; theory of beams, columns and shafts. Prerequisite: 60.

114L. **Dynamics of Machinery.** (Mechanisms) (3) Velocity, acceleration, and force analysis of machines with special emphasis on high speed machinery, balancing of rotating and reciprocating machine elements. Prerequisites: A.E. 1L, 2L, M.E. 55L. Co-requisite: M.E. 105.

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.

151L. MECHANICAL ENGINEERING LABORATORY. (2) Tests of steam boilers, engines, turbines, pumps and compressors. Prerequisite: 102; co-requisite: 155.

152L. MECHANICAL ENGINEERING LABORATORY. (2) Tests of internal combustion engines, their fuels and lubricants. Prerequisite: 102; co-requisite: 160.

153L, 154L. MECHANICAL ENGINEERING DESIGN. (2, 2) Analysis and design of some piece of equipment selected from the field of mechanical, aeronautical, or petroleum engineering. Prerequisites: M.E. 55L, 114L, C.E. 102, and M.E. 115L.

155. POWER PLANTS. (3) Types and equipment. Prerequisite: 102.

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: 102.

162. REFRIGERATION. (3) The theory of refrigeration and the testing of refrigeration equipment. Prerequisite: 102.

165. AIR-CONDITIONING. (3) Methods used to heat, cool, humidify, clean, and distribute air in buildings. Prerequisites: 102, 162.

167, 168. AERODYNAMICS. (3, 3) Application of the fundamental principles of mechanics and hydrodynamics to the study of airplane design and performance. Prerequisites: 102, 167.

171. AIRPLANE STRUCTURES. (2) Application of fundamental principles of structural theory to practical airplane design. Prerequisites: 102, 167.

172, 173. SEMINAR. (1, 1) Preparation, presentation, and discussion of papers and reports from current technical magazines and journals. Prerequisite: senior standing.

175. METALS AND ALLOYS. (2) A study of the properties of the common metals and alloys as affected by mechanical working, heat treatment and composition. Prerequisite: senior standing.

181, 182. PETROLEUM PRODUCTION. (3, 3) Oil field development, methods of drilling and oil recovery, preliminary refining, storage, and transportation. Prerequisite: senior standing.

202. SPECIAL TOPICS IN ADVANCED DYNAMICS. [Mechanics of Machinery] (3).
204. Mechanical Vibration. (3) Topics of study include: kine-
matics 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 re-
search.

300. Thesis. (4-6)

DIVISION OF INDUSTRIAL ARTS

Associate Professor Bailey; Assistant Professors Brown, Davis; In-
structor Blankley.

The Industrial Arts program at the University of New Mexico
is divided into two curricula. The curriculum in Industrial Arts
is listed under the College of Engineering, and the curriculum in
Industrial Arts Education is listed under the College of Education.

The program in Industrial Arts is designed for those students
who are interested in going into the manufacturing field or into
business for themselves. Students with such training should be in
demand wherever shop processes are involved in industry.

The program in Industrial Arts Education is designed for those
students who are interested in teaching Industrial Arts in the
public schools. There is a demand for teachers in this field.

For the preceding programs the industrial arts courses are similar
and they are taught by men who have had experience in industry
as well as in teaching. Students with aptitudes along mechanical
lines should find a course in industrial arts to their liking.

N.R.O.T.C. students can substitute naval science courses in the
industrial arts curriculum so that the requirements for a degree can
be met in four years.

Industrial Arts Laboratories. The machine shop is equipped
with lathes, shapers, drill presses, vertical and horizontal milling
machines, and surface and universal grinders for working metal.
The sheet metal shop has a very good assortment of tools and equip-
ment. The wood-working equipment includes band, circular, and
jig saws; jointer, planer, lathes, hand tools and benches for pattern
making, carpentry, and cabinet work.

The welding shop contains A.C. and D.C. welding machines and
oxyacetylene welding and cutting equipment. The foundry has
molding benches and molding tools, and a furnace for melting non-ferrous metals.

CURRICULUM IN INDUSTRIAL ARTS

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DESCRIPTION OF COURSES:

[Former department designation was Shop]

When a prerequisite course number is not preceded by a department designation, "I. A." is implied.

I. A.

1. 2. Shop Computations. (3, 3) Yr. Practice in the solution of problems encountered in shop and building construction. Credit for 1 will be suspended until 2 is completed.

178
10L. Woodwork. (3) Instruction in proper use of hand tools, knowledge of common tools, joinery, and the setting up, and the operation of wood-working power machinery.


15L. General Shop II. (3) Jewelry, lapidary and art metal. Designing and construction of jewelry and art metal projects.

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.

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.

61L. Wood Turning. (3) The proper use and care of wood-turning tools and equipment. Spindle, faceplate, and special turning processes; kinds of woods used and their finishing. Prerequisite: 10L.

62L. Carpentry. (3) Use of steel square in building, framing, and elementary construction. Prerequisite: 10L.

63L. 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. Prerequisite: 10L.


65L. 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. Prerequisite: 20L.

70L. Machine Shop. (2) For Mechanical Engineers only. Bench work, operation of engine lathes, shapers, grinders, drill presses, milling machines, simple dies and punches.

75L, 76L. [Shop 151L, 152L] Heat Treating and Welding. (1, 1) Use of arc and oxyacetylene in welding, brazing, and cutting of metals. For Mechanical Engineers only.
COLLEGE OF ENGINEERING

102L. FORGING AND ORNAMENTAL IRON WORK. (3) Instruction in building forge fire. Hand forging operations in drawing, upsetting, bending, welding. Construction of wrought iron work.

104L. ADVANCED PATTERN MAKING. (3) Construction of master patterns, plaster models, metal patterns and core boxes, gated patterns, plated patterns for both wood and metal. Prerequisites: 10L, 63L.

105L. SHEET METAL. [Sheet Metal Work] (3) Construction of forms used in heating, ventilating, and air conditioning; development of intersections; and the proper use of hand tools and turning machines. Prerequisite: junior standing.

110L. CABINET WORK. (3) Advanced designing, construction and finishing of the various styles of furniture. Further development of skills in the use and care of woodworking tools and equipment. Prerequisites: 10L, 60L.

111L. MACHINE SHOP. (3) Tool and die work. A course for advanced machine shop students with emphasis on tool design and construction, and the study and construction of dies and punches for piercing, blanking, drawing, forming, and stamping. Prerequisites: 20L, 65L.

153. SHOP EQUIPMENT. (3) A study of shop layouts and the use of tools and equipment for more efficient production. Prerequisite: senior standing.

154. SHOP MANAGEMENT. (3) Personnel and supervisory training, techniques in use of job analysis, job planning, shop records, time and motion study, etc. Prerequisite: senior standing.

157L. [Shop 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. Prerequisite: 63L.

159L. [Shop 109L] ARC AND ACETYLENE WELDING. (3) Use of arc and oxyacetylene welding, the brazing of ferrous and non-ferrous metals, and torch cutting. Prerequisite: 20L.

160L. ADVANCED CARPENTRY. (3) Advanced work on building construction and inside finishing. To develop further knowledge and skills in carpentry. Prerequisites: 10L, 62L.

NAVAL SCIENCE—ENGINEERING

The program in Naval Science-Engineering will enable the NROTC student to complete the requirements for a Bachelor of Science Degree in Naval Science-Engineering in four years. A stu-
The student receiving the Naval Science Degree can complete the requirements for a Bachelor of Science Degree in Architectural Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, or Mechanical Engineering with either option, in two additional semesters.

The NROTC student can complete the requirements for a Bachelor of Science Degree in Industrial Arts in four years. The naval science courses can be substituted for certain courses in the Industrial Arts Curriculum.

The first two years of the Naval Science-Engineering curriculum will be uniform for all NROTC students and this part of the curriculum is listed below. The last two years of the curriculum will be worked out with the head of the department concerned. The student will be expected to complete all required engineering courses through the third year of the engineering curriculum for the field chosen.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<tr>
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<td>Chem 2L</td>
<td>4 (3-3)</td>
<td></td>
</tr>
<tr>
<td>N S 11</td>
<td>3 (3-0)</td>
<td>A E 2L</td>
<td>3 (3-3)</td>
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<tr>
<td></td>
<td>15 (12-9)</td>
<td>N S 12</td>
<td>3 (3-0)</td>
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<tr>
<td></td>
<td>18 (16-6)</td>
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### SOPHOMORE YEAR

<table>
<thead>
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<tbody>
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<td>Math 53</td>
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<tr>
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<td></td>
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</tr>
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</table>

**NOTE:** The notes under Freshman year for all engineering students, p. 156, apply to above freshman year.
COLLEGE OF EDUCATION

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.

182
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.
COLLEGE OF EDUCATION

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 co-operative 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 teach-
ing profession, is maintained by the University. The bureau aims to keep on file a complete record of the scholarship, experience, and 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 cooperation 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. 76-77.

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 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.
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.
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 pp. 193-194.

9. Each candidate for a degree must complete at least 40 semester hours in courses numbered above 100.

10. All students in the College of Education are required to pass the Sophomore Proficiency Examination in English before graduation.

11. Every candidate for graduation must take the National Teachers Examination, see p. 82.

12. No student shall be recommended for graduation unless he shows ability to write and speak clear and correct English.

13. For minimum residence requirements, see p. 81.

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. 80.

I. English. As evidence of proficiency in oral and written English a student must earn 12 semester hours and must pass the Sophomore Proficiency Examination. 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 the Departments of Anthropology, Economics, History, Government and Citizenship, Philosophy, or Sociology.

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.

CURRICULA

Curricula have been outlined under the respective departments 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.

COLLEGE OF EDUCATION

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

* For approved courses, see departments of instruction.
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.

**GENERAL EDUCATION**

Professors Nanninga (Dean), Clauve, Diefendorf, Fixley, Reid, Tireman, White; Associate Professors Crawford, Masley; Assistant Professors Israel, Runge; Graduate Assistants, Andrade, Finn, Thompson, Ullom.

72. **Health Education.** (2) Health instruction in elementary schools. White

95. **Social Arts.** (2) SS Standards of social behavior.

HA. **Reading for Honors.** (1-3 each semester) Staff

HB. **Research for Honors.** (1-3 each semester) Staff

101. **History of Education in Europe.** (3) Staff

102. **History and Philosophy of American Education.** (3) Staff

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

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

189
COLLEGE OF EDUCATION

129. WORKSHOP. All specific workshop courses are listed under the general number, Education 129, with the designating subscripts as indicated. A student may earn as many hours in workshop as he may wish but not more than five semester hours will be counted toward a degree.

a. Art Education
b. Music Education
c. Elementary Education
d. Secondary Education
e. School Administration
f. Health and Physical Education
g. [1290] Distributive Education
h. Home Economics
i. Adult Education

151. PROBLEMS. (1-3) Staff
251. PROBLEMS. (1-3) Graduate Staff
300. THESIS. (4-6) Graduate Staff

ART EDUCATION
Associate Professor Masley (Head).

CURRICULUM FOR ART TEACHERS AND ART SUPERVISORS
(Leading to the degree of Bachelor of Arts in Education.)

FRESHMAN YEAR

<table>
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<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
</tr>
<tr>
<td>Math. or Science</td>
<td>Math. or Science</td>
</tr>
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<td>Art 1</td>
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<td>Physical Education</td>
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<tr>
<td>General Electives</td>
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SOPHOMORE YEAR

| English         | 3 |
| Psychology 51   | 3 |
| Social Studies  | 3 |
| Art Education 48 | 3 |
| Art 27          | 2 |
| Art 63 (or 64)  | 2 |
| Physical Education | 1 |
| General Electives | 2 |

190
COLLEGE OF EDUCATION

JR NIOR YEAR

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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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<td>Education 107</td>
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<tr>
<td>Art Education 124</td>
<td>2</td>
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<tr>
<td>Philosophy 102</td>
<td>2</td>
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<td>Drama 29</td>
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<td>General Electives</td>
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SENIOR YEAR

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<td>Education 153</td>
<td>3</td>
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<tr>
<td>Art Education 125</td>
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<td>Art 79 (or 83)</td>
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<td>Art 37 (or 157)</td>
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<td>Education 156</td>
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<tr>
<td>Art Electives</td>
<td>7-9</td>
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</table>

DESCRIPTION OF COURSES

17, 18. CREATIVE ARTS AND CRAFTS IN CHILDHOOD EDUCATION. (3, 3) An experimental approach to the art needs and interests of the child from pre-school through the primary grades. Masley

30, 31. TECHNIQUES OF DESIGN EDUCATION. (3, 3) An introductory investigation of design in everyday life and the formulating of effective techniques for teaching design. Masley

48, 49. CREATIVE ARTS IN SECONDARY EDUCATION. [Creative Art in Secondary Education; Contemporary Art Education] (3, 3) An introduction to art education through creative art activities. Masley

124. [128] ART EDUCATION AND ART NEEDS. (3) An advanced study of creative art education. Prerequisite: 49. Masley


150. CREATIVE APPROACH TO HIGH SCHOOL AND COMMUNITY ART PROBLEMS. [Creative Approach to High School Art Problems] (3) The art teacher in the school and the community. Prerequisite: 125. Masley

151. PROBLEMS IN ART EDUCATION. (1-3) 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. (1-3) A research and activities course for teachers of art and qualified art education majors. Masley
**COMMERCIAL WORK**
Assistant Professor Israel.

**CURRICULUM FOR STUDENTS PREPARING TO TEACH COMMERCIAL WORK**
(Leading to the degree of Bachelor of Science in Education.)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>English 1</td>
<td>3</td>
<td>English 2</td>
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<td>4</td>
<td>Lab. Science</td>
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<td>Social Studies</td>
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<td>Social Studies</td>
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<td>Business Administration</td>
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<td>Business Administration 6</td>
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| 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 | |

| SENIOR YEAR | | |
|--------------|-----------------|
| 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 | |

**EDUCATIONAL PSYCHOLOGY**
Faculty: See Department of Psychology.

54. **Educational Psychology.** (3) An introductory course. Limited to sophomores. Prerequisite: Psychology 1L, 2L or 51.

†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.
60. **Dynamics of Personality Adjustment.** (3) Major principles underlying personality adjustment and their practical application to mental hygiene. Prerequisite: Psychology 2L or 51.
   Benedetti, Heston

131. **Psychological and Educational Tests.** (3) Prerequisites: Psychology 2L or 51. Credit not allowed to those who have credit for Psychology 185.
   Utter

132L. **Diagnostic Testing.** (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.
   Heston

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

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.
   Heston

251, 252. **Problems.** (2-3 each semester) Graduate Staff

300. **Thesis.** (4-6) Graduate Staff

---

**ELEMENTARY EDUCATION**

Professor Tireman (Head), and staff.

**CURRICULUM FOR STUDENTS PREPARING TO TEACH IN ELEMENTARY GRADES**

(Leading to the degree of Bachelor of Science in Education.)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
</tr>
<tr>
<td>Biology 1L</td>
</tr>
<tr>
<td>History 1 or 11</td>
</tr>
<tr>
<td>Art Educ. 17</td>
</tr>
<tr>
<td>Physical Education</td>
</tr>
<tr>
<td>Elective: Language or Anthro.</td>
</tr>
</tbody>
</table>

193
## College of Education

### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 53</td>
<td>3</td>
</tr>
<tr>
<td>Geology 1</td>
<td>3</td>
</tr>
<tr>
<td>History 51</td>
<td>3</td>
</tr>
<tr>
<td>Language or Mathematics 1</td>
<td>3-2</td>
</tr>
<tr>
<td>Psychology 51</td>
<td>3</td>
</tr>
<tr>
<td>Music Education 93</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Education 72</td>
<td>2</td>
</tr>
<tr>
<td>Music Education 94</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Language or Child Study, H. E. 138L</td>
<td>4</td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 121</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education 119</td>
<td>2</td>
</tr>
<tr>
<td>Education 122</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 110</td>
<td>2</td>
</tr>
<tr>
<td>Elective:</td>
<td>7</td>
</tr>
<tr>
<td>Dramatic Art</td>
<td></td>
</tr>
<tr>
<td>Corrective Speech</td>
<td></td>
</tr>
<tr>
<td>Geology 54</td>
<td></td>
</tr>
<tr>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
<td>Sociology 71</td>
<td></td>
</tr>
<tr>
<td>Library Science</td>
<td></td>
</tr>
<tr>
<td>Education 124</td>
<td>3</td>
</tr>
<tr>
<td>Education 135</td>
<td>2</td>
</tr>
<tr>
<td>Education 183 (Psych.)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 81</td>
<td>3</td>
</tr>
<tr>
<td>Elective: Same, plus Child Study</td>
<td>6</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Education 107</td>
<td>2</td>
</tr>
<tr>
<td>Education 123</td>
<td>2</td>
</tr>
<tr>
<td>English 82</td>
<td>3</td>
</tr>
<tr>
<td>Government 103</td>
<td>3</td>
</tr>
<tr>
<td>Elective: Child Psychology, Art or Music</td>
<td>6</td>
</tr>
<tr>
<td>Education 102</td>
<td>3</td>
</tr>
<tr>
<td>Education 136</td>
<td>5</td>
</tr>
<tr>
<td>Education 120</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td>Education 102</td>
<td>3</td>
</tr>
<tr>
<td>Education 136</td>
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<tr>
<td>Education 120</td>
<td>2</td>
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<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

All programs must be approved by Head of Department.

### Description of Courses:

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 Prerequisites: 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) Tireman

*For those who fail to pass an achievement test.*

194
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

125. Teaching Kindergarten and Pre-First. (2) SS Staff

135. Supervision of Arithmetic. (2) Staff

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) Graduate Staff

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

HOME ECONOMICS

Professor Simpson (Head); Associate Professor Schroeder; Assistant Professors Hollen, Knight.

GROUP REQUIREMENTS

Home Economics 58L and 54L count toward Science and Mathematics (Group IV).
COLLEGE OF EDUCATION

MAJOR STUDY

See curriculum below. For requirements for a major in dietetics in the College of Arts and Sciences, see p. 133.

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.

CURRICULUM FOR STUDENTS PREPARING TO TEACH HOME ECONOMICS

(Leading to the degree of Bachelor of Science in Education.)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>English 1</td>
<td>3</td>
<td>English 2</td>
</tr>
<tr>
<td>Biology 12L</td>
<td>4</td>
<td>Biology 35</td>
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<tr>
<td>Art</td>
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<td>Art</td>
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<tr>
<td>Lib. Science 21</td>
<td>3</td>
<td>Intro. to Soc. Sci. 1</td>
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<tr>
<td>Home Economics 1</td>
<td>3</td>
<td>Home Economics 12L</td>
</tr>
<tr>
<td>Home Economics 2L</td>
<td>2</td>
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<td>Physical Education</td>
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<thead>
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<th>SOPHOMORE YEAR</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro. to Soc. Sci. 2</td>
<td>3</td>
<td>English</td>
</tr>
<tr>
<td>Chemistry 41L</td>
<td>5</td>
<td>Chemistry 42L</td>
</tr>
<tr>
<td>Psychology 51</td>
<td>3</td>
<td>Psychology 54</td>
</tr>
<tr>
<td>Home Economics 54L</td>
<td>3</td>
<td>Home Economics 69L</td>
</tr>
<tr>
<td>Home Economics 69L</td>
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<td>Economics 51</td>
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<tr>
<td>Physical Education</td>
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<td>Physical Education</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>Education 141</td>
<td>3</td>
<td>Education 153</td>
</tr>
<tr>
<td>Biology 99L</td>
<td>4</td>
<td>English</td>
</tr>
<tr>
<td>Home Economics 64L</td>
<td>3</td>
<td>Home Economics 132</td>
</tr>
<tr>
<td>Home Economics 127L</td>
<td>4</td>
<td>Home Economics 108</td>
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<tr>
<td>Elective</td>
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<td>Home Economics 109</td>
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<td></td>
<td>17</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td>18</td>
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</tbody>
</table>

196
DESCRIPTION OF COURSES:

1. **Clothing Selection.** (3) Clothing selection from the standpoint of artistic, economic, and hygienic standards. Knight

2. **Child Development.** (2) Child care and development; the infant. 2 lectures, 2 hrs. lab. Schroeder

12. **Clothing Construction.** (2) Basic construction problems of clothing for the individual. Prerequisite: 1. 4 hrs. lab. Knight

53. **Food for the Family Group.** (3, 3) Selection, preparation, and service of family meals. 1 lecture, 4 hrs. lab. Hollen

60. **Textiles.** (3) Construction, identification, use and care of clothing and household textiles. 2 lectures, 2 hrs. lab. Knight

63, 64. **Dressmaking.** (3, 3) 63: Pattern study; construction of clothing emphasizing fitting and techniques of finishing. 64: Adaptation of patterns; problems in designing. Prerequisite: 1 and 63, or permission of instructor. 1 lecture, 4 hrs. lab.

7. **Nutrition.** (2) Primarily for physical education majors. The relation of nutrition to the health program; normal nutrition. Simpson

107. **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. Knight

109. **Home Furnishings.** (2) Selection, use and care of home furnishings with emphasis on individual use. Knight

127. **Nutrition and Dietetics.** (4) Prerequisite: 107L. 3 lectures, 2 hrs. lab. Simpson

128. **Family Relationships.** (3) Schroeder
COLLEGE OF EDUCATION

132. Household Management. (3) Schroeder
133L. Home Management House. (3) Six weeks' residence required. Prerequisite: 132.
138L. Child Care and Development. (4) Pre-school through adolescence. Observation and assistance in the nursery school. 3 lectures, 2 hrs. lab.
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.

151L. Diet in Disease. (3) A study of the adaptation of diet in the treatment of impaired digestive and metabolic conditions. Prerequisites: 107L, 127L.


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.

INDUSTRIAL ARTS

CURRICULUM FOR STUDENTS PREPARING TO TEACH INDUSTRIAL ARTS

(Leading to the degree of Bachelor of Science in Industrial Arts Education.)

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>English 1</td>
</tr>
<tr>
<td>I A 1 Shop Computations</td>
</tr>
<tr>
<td>A E 1L, Engr. Drawing</td>
</tr>
<tr>
<td>I A 10L Woodwork</td>
</tr>
<tr>
<td>Science, Elective</td>
</tr>
<tr>
<td>Physical Education</td>
</tr>
</tbody>
</table>

198
## COLLEGE OF EDUCATION

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 64</td>
<td>3</td>
</tr>
<tr>
<td>Psych. 54</td>
<td>3</td>
</tr>
<tr>
<td>Physics 11L</td>
<td>4</td>
</tr>
<tr>
<td>I A 61L Wood Turning</td>
<td>3</td>
</tr>
<tr>
<td>I A 63L Pattern Making</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 141</td>
<td>3</td>
</tr>
<tr>
<td>E E 109L</td>
<td>3</td>
</tr>
<tr>
<td>I A 105L Sheet Metal</td>
<td>3</td>
</tr>
<tr>
<td>I A 62L Carpentry</td>
<td>3</td>
</tr>
<tr>
<td>Education 107</td>
<td>3</td>
</tr>
<tr>
<td>Economics 51</td>
<td>3</td>
</tr>
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</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Education 115</td>
<td>3</td>
</tr>
<tr>
<td>Education 155</td>
<td>3</td>
</tr>
<tr>
<td>I A 157L Foundry</td>
<td>3</td>
</tr>
<tr>
<td>A E 52L Arch. Draft.</td>
<td>3</td>
</tr>
<tr>
<td>Elective General</td>
<td>3</td>
</tr>
</tbody>
</table>

### DESCRIPTION OF COURSES:

See College of Engineering, pp. 178-180.

## MUSIC EDUCATION

Professor Clauve

### 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 elementary grades: (Students preparing to teach music in the elementary schools should follow the elementary curriculum as outlined on p. 193, and should take the required number of hours and courses to complete their major in lieu of the electives provided in the elementary curriculum.)
COLLEGE OF EDUCATION

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 5, 6</td>
<td>10</td>
</tr>
<tr>
<td>Music 61, 62</td>
<td>6</td>
</tr>
<tr>
<td>*Music 39, 40</td>
<td>4</td>
</tr>
<tr>
<td>*Music 45, 46</td>
<td>2</td>
</tr>
<tr>
<td>Music 55, 56</td>
<td>4</td>
</tr>
<tr>
<td>Music 157, 158</td>
<td>4</td>
</tr>
<tr>
<td>Music 153, 154</td>
<td>4</td>
</tr>
<tr>
<td>Music Education 94, 155f</td>
<td>5</td>
</tr>
<tr>
<td>Ensemble Music</td>
<td>4</td>
</tr>
<tr>
<td>Applied Music</td>
<td>24</td>
</tr>
<tr>
<td>Dramatic Art 89</td>
<td>3</td>
</tr>
</tbody>
</table>

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 at least one semester each in voice and piano class instruction.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 5, 6</td>
<td>10</td>
</tr>
<tr>
<td>Music 55, 56</td>
<td>4</td>
</tr>
<tr>
<td>Music 39, 40</td>
<td>4</td>
</tr>
<tr>
<td>Music Education 94 or 155f</td>
<td>2-3</td>
</tr>
<tr>
<td>Ensemble Music</td>
<td>2</td>
</tr>
</tbody>
</table>

DESCRIPTION OF COURSES:

93, 94. MUSIC EDUCATION. (2, 2) Music fundamentals for elementary teachers; methods and materials for elementary grades.

155f. THE TEACHING OF MUSIC IN HIGH SCHOOL. (3) Clauve

SCHOOL ADMINISTRATION
Professor Nanninga (Head), Fixley.

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>History of Education</td>
<td>3</td>
</tr>
<tr>
<td>Educational and Psychological Tests</td>
<td>3</td>
</tr>
<tr>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>City School Administration</td>
<td>3</td>
</tr>
<tr>
<td>Problems of Education in N. M.</td>
<td>2</td>
</tr>
<tr>
<td>Elementary Educ.</td>
<td>3</td>
</tr>
<tr>
<td>Educational and Vocational Guid.</td>
<td>3</td>
</tr>
<tr>
<td>The Principal and His School</td>
<td>3</td>
</tr>
</tbody>
</table>

DESCRIPTION OF COURSES:

164. CITY SCHOOL ADMINISTRATION. (3) Required of all administrative majors. Educational, financial, and administrative principles.

* Music 39, 40 and 45, 46 are to be taken concurrently.

200
COLLEGE OF EDUCATION

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

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

SECONDARY EDUCATION

Professor Diefendorf (Head); Associate Professor Crawford; Assistant Professor Runge.

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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
</tr>
<tr>
<td>Mathematics or Science</td>
<td>Mathematics or Science</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Social Studies</td>
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<tr>
<td><strong>Foreign Language</strong></td>
<td><strong>Foreign Language</strong></td>
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<td>Physical Education</td>
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<td>Electives</td>
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** For substitution see Group Requirements for Graduation.
### COLLEGE OF EDUCATION

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Psychology 51</td>
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<td>Social Studies</td>
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<td><strong>Foreign Language</strong></td>
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<td>Electives or Science</td>
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<tr>
<td>Electives</td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<td>Education 141</td>
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<td>Majors and Minors</td>
<td>8-9</td>
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<td>†Majors and Minors</td>
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#### SENIOR YEAR

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<td>13</td>
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<td>Teachers Course</td>
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### DESCRIPTION OF COURSES:

141. **PRINCIPLES OF SECONDARY EDUCATION.** (3) Diefendorf, Crawford

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 cooperative 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

148. **SOURCE 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.** (3)

Construction of teaching outlines and daily lesson plans for cooperative retailing class units and adult extension courses. Runge

153. **HIGH SCHOOL METHODS.** (3) Prerequisite: Educational Psychology 54 or 183. Diefendorf, Crawford

** For substitution see Group Requirements for Graduation.
† If not taken during the sophomore year, the advanced course Psychology 183 must be substituted.
†† One of these courses is required.
§ For required courses see departments of instruction.
§§ One teacher's course, according to the advice of the Head of the Department of Secondary Education.
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 and Speech in the 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.) Claive

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)

  Staff

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)

156. **Practice Teaching in High School.** (5) Observation and teaching in Albuquerque High School. Prerequisite: 153. 1 lecture, 5 hrs. practice teaching a week. Crawford

159. **Directed Study.** (3) Theory and practice of directing pupil study. Diefendorf

188. **Personnel Problems in High School.** (3) Aims to help classroom teachers, supervisors, principals, deans and advisers of students and guidance workers to understand the personal problems affecting success and failure of pupils. Staff

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

258. HIGH SCHOOL SUPERVISION. (3) Staff

300. THESIS. (4-6) Graduate Staff

DIVISION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Professor White (Head); Associate Professor Burley (Graduate Studies); Harris, M.D., (Director, University Health Service); Kling, M.D. (University Physician).

Department of Health and Physical Education for Men: Professor Johnson (Head); Associate Professor Huffman; Assistant Professors Barnes, Clements, Nichols, Petrol; Instructor Dear.

Department of Health and Physical Education for Women: Associate Professor Gugisberg (Head); Assistant Professors McGill, Milliken; Instructors Dooley, Richardson, Waters.

ALL UNIVERSITY REQUIREMENTS

Four semester hours of required physical education shall be completed by all undergraduate students at the University. Veterans, NROTC students, 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.

**PHYSICAL EDUCATION ACTIVITY COURSES**

M indicates that the course is for men only.

W indicates that the course is for women only.

M & W indicates that the course is coeducational.

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. Johnson and Staff

W1. **ORIENTATION.** (1) Archery, volleyball, contemporary dance, basketball. 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

W2. **ORIENTATION.** (1) American country dancing, swimming, golf, tennis, badminton. Staff

W51. **BEGINNING TENNIS.** (1) Milliken

W52. **INTERMEDIATE TENNIS.** (1) Milliken

W53. **ADVANCED TENNIS.** (1) McGill

M & W55. **BEGINNING RIDING.** (1) Dooley

M & W56. **INTERMEDIATE RIDING.** (1) Dooley

M & W57. **ADVANCED RIDING.** (1) Dooley

M & W58. **HIGH ADVANCED RIDING.** (1) Dooley

M & W59. **RIDING (RODEO).** (1) Dooley

M & W61. **BEGINNING GOLF.** (1) Dear

M & W62. **INTERMEDIATE GOLF.** (1) Dear

M & W63. **ADVANCED GOLF.** (1) Dear

W66. **BEGINNING SWIMMING.** (1) Staff

205
COLLEGE OF EDUCATION

W67. **Intermediate Swimming.** (1) Staff

W68. **Advanced Swimming.** (1) McGill

M & W69. **Life Saving.** [Life Saving and Water Front Safety] (1) Prerequisite: advanced swimming course or equivalent. American Red Cross Senior Life Saving Certificate awarded upon satisfactory completion of course. McGill

M & W70. **Water Front Safety.** (1) Technique of teaching swimming and life saving, organization of swimming programs, pool operation. Prerequisite: current Senior Life Saving Certificate. American Red Cross Water Safety Instructor's Certificate awarded for satisfactory completion of course. 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) McGill

W79. **Fencing.** (1) (Not offered in 1949-50) Staff

W80. **Individual and Team Sports.** (1) Staff

W81. **Team Sports.** (1) Milliken

M & W90. **Recreational Games.** (1) Staff

M & W91. **Ballroom Dancing.** (1) Richardson

M & W92. **Mexican and New Mexican Dancing.** [Mexican and New Mexican Dances] (1) Richardson, Sedillo

M & W93. **American Country Dance.** [American Country Dancing] (1) Richardson

M & W94. **Contemporary Dance.** (1) Modern dance, beginning level. Waters

M & W95. **Intermediate Contemporary Dance.** [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**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>Biology 36 and 39L</td>
<td>5</td>
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<tr>
<td>Social Science</td>
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<tr>
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</tr>
<tr>
<td>English 2</td>
<td>3</td>
</tr>
<tr>
<td>Biology 12L</td>
<td>4</td>
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<td>Business Administration</td>
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206
**SOPHOMORE YEAR**

<table>
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<tbody>
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<td>Social Science</td>
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<td>Psychology 51</td>
<td>3</td>
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<td>Physical Education 40L</td>
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<td>Physical Education M1</td>
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<td>Physical Education 72</td>
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**JUNIOR YEAR**

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<td>Education 141</td>
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<td>Education 101 or 102</td>
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**SENIOR YEAR**

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<td>Education 156</td>
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<td>Education 153</td>
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<td>Physical Education 167</td>
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<td>Physical Education 183L</td>
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<td>Physical Education 171</td>
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<td>Electives</td>
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**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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English 1</td>
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<tr>
<td>Social Science 1</td>
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<tr>
<td>Fine Arts</td>
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<td>PE 49 Prof Activity</td>
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<td>PE W1</td>
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**SOPHOMORE YEAR**

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<td>Speech 55</td>
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<td>Social Science</td>
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<td>Psychology 51</td>
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**JUNIOR YEAR**

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<td>Physical Education 119</td>
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<td>Physical Education 145</td>
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<tr>
<td>Physical Education 146</td>
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MINOR STUDY IN HEALTH EDUCATION FOR MEN OR WOMEN

This minor in Health Education is designed to prepare the student to teach health education and to serve as a health coördinator.

MINOR STUDY IN RECREATION LEADERSHIP FOR MEN OR WOMEN

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.

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.

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.
MINOR STUDY IN PHYSICAL EDUCATION FOR WOMEN

This minor is designed to prepare students to teach physical education in the secondary schools.

<table>
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<th>Course</th>
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<tr>
<td>Physical Education 171</td>
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<td>Physical Education 172</td>
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<tr>
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<tr>
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THEORY 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. Petrol

49. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in stunts, tumbling, pyramid building, and certain self-testing activities. Milliken

62L. THEORY AND PRACTICE IN MAJOR SPORTS. (Men) (4) Fundamental techniques of football, basketball, track and field, baseball and tennis. 4 lectures, 4 hrs. lab. Johnson

64. 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

209
COLLEGE OF EDUCATION

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. 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. (4) Prerequisites: Biology 12L, 36, 39L. Burley

105. Community Recreation Through the School. (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. Teaching of Team Sports. (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. Milliken

109. Teaching of Individual and Dual Sports. (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. 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. 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.

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 principles, unit planning, methods and use of community resources. Prerequisite: 72.
Gugisberg

145. PROFESSIONAL ACTIVITIES. (Women) (1) Proficiency in European folk dancing.
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.
Milliken

155p. TEACHING OF PHYSICAL EDUCATION IN HIGH SCHOOL. (3)
(Same as Education 155p.)
Gugisberg

156. TEACHING OF CONTEMPORARY DANCE. (Women) (2) Selection of methods and materials for teaching modern dance.
Waters

164. GENERAL SAFETY EDUCATION. (3) Safety in the home, 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)
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

211
COLLEGE OF EDUCATION

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

171. Principles of Physical Education. (3) Approach to course of study construction through a study of aims and objectives, psychological, sociological, and physiological principles; the inter-relationships between health, physical education, and recreation; 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. Field Work in Recreation. (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.

207. Foundations for a Philosophy of Recreation. (3) Burley
209. Tests and Measurements in Physical Education. (3) Burley
210. Curriculum Construction in Physical Education. (3) Burley
214. Remedial Program and Physical Education. (3) Burley
216. Seminar in Health, Physical Education and Recreation. (2) Burley
271, 272. Administration of Health Education. (3, 3) Harris
300. Thesis. (4-6) White, Burley, Gugisberg, Harris
THE COLLEGE of Fine Arts is established for the following purposes: (1) to stimulate a greater interest in and understanding of the arts as a part of a liberal education; (2) to offer those who wish to specialize in any of the fields of art an opportunity to do so; (3) to coordinate more efficiently the work of the College in dramatics, music, and painting and design; (4) to promote scholarship in the fields of learning embraced by the arts; and (5) to make 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, 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 receive a grade of C or better in all required courses in their major fields in order to receive credit for them toward graduation. Students must maintain a C average to remain in the College of Fine Arts.

Courses in Naval Science and Tactics may be substituted in each curriculum with approval of the Dean.

CERTIFICATION

Any student wishing to qualify for teaching certification while working toward a B.F.A. may do so (under the Rules and Regulations Governing the Certification of Teachers in New Mexico issued by the Department of Education in Santa Fe) by taking Education 54, Education 141, Education 153, Education 156 and 6 hours of Education Electives, 20 hours in all. Such Education courses may be counted as electives toward graduation.
COMBINED CURRICULUM

(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).

PRE-OCCUPATIONAL THERAPY CURRICULUM

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, (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:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Biology 1L—General Biology</td>
<td>Biology 2L—General Biology</td>
</tr>
<tr>
<td>Art 3 &amp; 4 (Design)</td>
<td>Art 7, 8 (Woodwork, leather, tin, etc.)</td>
</tr>
<tr>
<td>Chemistry 4L (Elements of General)</td>
<td>Chem. 42L (Elements of Organic)</td>
</tr>
<tr>
<td>P. E. (Correctives through rhythm)</td>
<td>P. E. 161 (First Aid)</td>
</tr>
<tr>
<td>Elective (as advised)</td>
<td>Elective (as advised)</td>
</tr>
</tbody>
</table>

215
The following courses relating to pre-Occupational Therapy are also offered:

Psych. 51—General Psychology 3
Educa. 115—Educational and Vocational Guidance 3
Art 57, 58 (Crafts—continuation of craft mediums) 4
Biology 36—Human Anatomy and Physiology 3
Biology 93L—General Bacteriology 4
Art 55 (Free hand drawing) 2 per semester
Art 27, 28 (Lettering) 2
Psych. 196—Physiological Psychology (Correlation of behavior and structure with emphasis on nervous system) 3
P. E. 104—Human Anatomy and Kinesiology 4
P. E. 135L—Corrective P. E. 2
Psych. 103—Abnormal Psychology 3
Psych. 101—Social Psychology 3
Art 87, 88 (Photography) 3 per semester

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 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

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; †—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

Professors Adams, Chapman, Douglass; Associate Professors Davey, Haas, (Head), Jonson, Koeber; Assistant Professors Bunting, Tatschl, Todd; Instructors Montenegro, Summers; Graduate Assistants Goldman, Silas.

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.

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 SESSION

Each summer, a field session in art is normally conducted at Taos and many Group I courses are offered.
COLLEGE OF FINE ARTS

PRE-OCCUPATIONAL THERAPY
See curriculum on p. 215.

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.

CURRICULUM IN ART
(Leading to the degree of Bachelor of Fine Arts in Art. Hours required for graduation, 132.)

FRESHMAN YEAR
(The course for all Art Majors is the same in the Freshman year.)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1</td>
<td>2 Art 2</td>
</tr>
<tr>
<td>Art 3</td>
<td>2 Art 4</td>
</tr>
<tr>
<td>Art 5</td>
<td>2 Art 6</td>
</tr>
<tr>
<td>Art 7</td>
<td>2 Art 8</td>
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<tr>
<td>English 1</td>
<td>3 English 2</td>
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<td>3 Foreign Language</td>
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<td>Physical Education</td>
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<tr>
<td></td>
<td>Gen. Univ. Elective</td>
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<td>15</td>
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<td>2</td>
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<tr>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

Three possible courses of study are offered by the Art Department and the student at the end of his Freshman year will select one of these fields in which to specialize (or Major). They are:

GROUP I—Painting, Sculpture and Drawing
GROUP II—Crafts and Commercial Art
GROUP III—Art History

218
### CURRICULUM FOR GROUP I OR GROUP II MAJORS

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (Major Group)</td>
<td>4 Art (Major Group)</td>
</tr>
<tr>
<td>Art Group III</td>
<td>3 Art (Other than Major)</td>
</tr>
<tr>
<td>Art (Other than Major)</td>
<td>2 Social Science</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 Physical Education</td>
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<td>Physical Education</td>
<td>1 Gen. Univ. Elective</td>
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<tr>
<td>Gen. Univ. Elective</td>
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**16**

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Art (Major Group)</th>
<th>6 Art (Major Group)</th>
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<tbody>
<tr>
<td>Art Group III</td>
<td>2 Art Group III</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 Natural Science</td>
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</table>

**17**

#### SENIOR YEAR

<table>
<thead>
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<th>Art (Major Group)</th>
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</thead>
<tbody>
<tr>
<td>Art Group III</td>
<td>2 Art Group III</td>
</tr>
<tr>
<td>Art (Any Group)</td>
<td>3 Art (Any Group)</td>
</tr>
<tr>
<td>Literature</td>
<td>3 Literature</td>
</tr>
<tr>
<td>Gen. Univ. Elective</td>
<td>5 Gen. Univ. Elective</td>
</tr>
</tbody>
</table>

**17**

For Group II Majors only, 18 hours of Sculpture may be substituted for Group II courses.

For Majors in Commercial Art, 8 hours of credit in painting or drawing courses may be substituted for Group II courses.

### CURRICULUM FOR GROUP III MAJORS

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (Major Group III)</td>
<td>3 Art (Major Group III)</td>
</tr>
<tr>
<td>Art (Other than Major)</td>
<td>2 Art (Other than Major)</td>
</tr>
<tr>
<td>Anthropology</td>
<td>3 Anthropology</td>
</tr>
<tr>
<td>History</td>
<td>3 History</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 Physical Education</td>
</tr>
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</table>

**16**

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Art (Major Group)</th>
<th>4 Art (Major Group)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (Other than Major)</td>
<td>4 Art (Other than Major)</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 Natural Science</td>
</tr>
<tr>
<td>Gen. Univ. Elective</td>
<td>6 Philosophy 102</td>
</tr>
</tbody>
</table>

**17**

219
COLLEGE OF FINE ARTS

SENIOR YEAR

| Art (Major Group) | 4 | Art (Major Group) | 4 |
| Art (Any Group)   | 3 | Art (Any Group)   | 3 |
| Literature        | 3 | Literature        | 3 |
| Gen. Univ. Elective | 7 | Gen. Univ. Elective | 7 |
|                    | 17|                    | 17|

DESCRIPTION OF COURSES

PAINTING, SCULPTURE AND DRAWING (GROUP I)

3, 4. **CREATIVE DESIGN.** (2, 2) Introduction to line, color, form and composition. Haas, Koeber, Tatschl, Todd, Montenegro

5, 6. **BEGINNING DRAWING.** (2, 2) Introduction to the methods and theories of drawing and painting. Adams, Douglass, Montenegro, Tatschl

45, 46. **SKETCH.** (2, 2) Life sketching in choice of media. No prerequisite. Staff

53. **BEGINNING PAINTING AND DESIGN.** (2) Introductory study of the painter's craft. Prerequisites: 3, 4. Haas, Montenegro, Todd

55. **DRAWING.** (2) Craftsmanship in drawing of life casts and still life in various media. Prerequisites: 5, 6. Douglass, Montenegro, Tatschl

56. **DRAWING.** (2) Continuation of Art 55. Prerequisites: 5, 6. Adams, Douglass, Tatschl

63, 64. **PAINTING & DESIGN.** (2, 2) Painting in choice of media, life, portrait and still life. Prerequisites: 3, 4, 5, 6. Adams, Davey, Jonson, Montenegro

65, 66. **LIFE DRAWING.** (2, 2) Study of drawing from the human figure. Prerequisites: 5, 6. Adams, Davey, Jonson

79. **SCULPTURE.** (2) Technique, executed in various media of sculpture. Prerequisites: 3, 4, 5, 6. Tatschl

89. **SCULPTURE.** (2) Technique, executed in various media of sculpture. Prerequisites: 3, 4, 5, 6; 79 not a prerequisite. Tatschl

95, 96. **SKETCH CLASS.** (2, 2) Life sketching in choice of media. No prerequisite. Staff

HA. **READING FOR HONOURS.** (1-3 each semester) Staff

HB. **RESEARCH FOR HONORS.** (1-3 each semester) Staff

103, 104. **LANDSCAPE PAINTING.** (2, 2) Landscape painting in water-color, gouache, or oils. Prerequisites: 53 and 63 or 64. Davey, Douglass, Haas

220
113, 114. Landscape Painting. (2, 2) Landscape painting in water-color, gouache, or oils. Prerequisites: 53 and 63 or 64. 
Davey, Douglass, Haas

154. Materials & Media. (3) Experimentation in the various media of painting, including tempera, mixed technique, gouache, etc. Prerequisites: 53 and 63 or 64. (Not offered in 1949-50.) 
Haas

155, 156. Advanced Life Drawing. (3, 3) Prerequisites: 56 and 65 or 66. 
Adams, Davey, Jonson, Tatschl

159. Advanced Sculpture. (3) Prerequisite: 79 or 89. 
Tatschl, Todd

163, 164. Advanced Painting & Design. (3, 3) Prerequisites: 53, 63 or 64. 
Jonson

165, 166. Advanced Life Drawing. (3, 3) Prerequisites: 56, 65 or 66. 
Adams, Davey, Jonson, Tatschl

169. Advanced Sculpture. (3) Prerequisite: 79 or 89. 
Tatschl, Todd

173, 174. Advanced Painting & Design. (3, 3) Prerequisites: 53, 63 or 64. 
Davey

179. Advanced Sculpture. (3) Prerequisite: 79 or 89. 
Tatschl, Todd

183, 184. Advanced Painting & Design. [Painting and Design] (3, 3) Prerequisites: 53 and 63 or 64. 
Adams

189. Advanced Sculpture. (3) Prerequisite: 79 or 89. 
Tatschl, Todd

199. Special Problems. (2 per semester to a maximum of 8) Open to juniors, seniors and graduates only. 
Staff

299. Problems. (2 per semester to a maximum of 4) 
Graduate Staff

300. Thesis. (6, should be taken over two semesters) 
Graduate Staff

Crafts and Commercial Art (Group II)

7, 8. General Crafts. (2, 2) Introduction to the processes involved in crafts. Art 3 and 4 prerequisites or to be taken concurrently. 
Koeber, Todd

27. Manuscript Lettering. (2) The essential form of the Roman alphabet and its derivatives as applied to calligraphy. No prerequisite. 
Douglass

221
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Commercial Lettering</td>
<td>Creative lettering with the brush and pen as used in advertising. No prerequisite.</td>
<td>---</td>
<td>Douglass</td>
</tr>
<tr>
<td>37</td>
<td>Beginning Ceramics</td>
<td>Study of ceramics, including practice in casting, shaping, wheel throwing, firing and glazing. No prerequisite.</td>
<td>---</td>
<td>Tatschl, Todd</td>
</tr>
<tr>
<td>57</td>
<td>Crafts</td>
<td>General crafts including jewelry, art woodwork, metal work, leather work and stencilling. Research in Spanish design and Latin-American methods. Of interest to teachers. Prerequisites: 3, 4, 7, 8.</td>
<td>---</td>
<td>Koeber, Todd</td>
</tr>
<tr>
<td>67</td>
<td>Graphic Arts</td>
<td>Techniques and methods in lithography, etching, and woodcuts. Prerequisites: 3, 4, 5, 6, and 55 or 56.</td>
<td>---</td>
<td>Tatschl</td>
</tr>
<tr>
<td>77, 78</td>
<td>General Commercial Art</td>
<td>Art and layout in advertising, various techniques and methods of reproduction. Optional work in cartooning. Prerequisites: 3, 4, 5, 6, and 27 or 28.</td>
<td>---</td>
<td>Douglass</td>
</tr>
<tr>
<td>87, 88</td>
<td>Photography</td>
<td>Elementary photography including shooting, dark room procedure and photographic composition. (A camera is necessary for this course.) 87 is prerequisite to 88.</td>
<td>---</td>
<td>Haas</td>
</tr>
<tr>
<td>HA</td>
<td>Reading for Honors</td>
<td>(1-3 each semester)</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>HB</td>
<td>Research for Honors</td>
<td>(1-3 each semester)</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>127, 128</td>
<td>Crafts</td>
<td>A study of crafts typical of the Southwest and the Western Hemisphere such as tinwork, jewelry, small woodwork or weaving. Prerequisite: 57.</td>
<td>---</td>
<td>Koeber, Todd</td>
</tr>
<tr>
<td>137</td>
<td>Ceramics</td>
<td>Continuation of Art 37</td>
<td>Tatschl, Todd</td>
<td></td>
</tr>
<tr>
<td>147, 148</td>
<td>Crafts</td>
<td>Crafts with an emphasis on those typical of the Southwest and the Western Hemisphere, such as tinwork, jewelry, small woodwork or weaving. Prerequisite: 57.</td>
<td>---</td>
<td>Koeber, Todd</td>
</tr>
<tr>
<td>157, 158</td>
<td>Crafts</td>
<td>Crafts with an emphasis on those typical of the Southwest and the Western Hemisphere such as tinwork, jewelry, small woodwork or weaving. Prerequisite: 57.</td>
<td>---</td>
<td>Koeber, Todd</td>
</tr>
<tr>
<td>167</td>
<td>Graphic Arts</td>
<td>Techniques and methods of etching, lithography and woodcut. Prerequisite: 67.</td>
<td>Tatschl</td>
<td></td>
</tr>
<tr>
<td>177, 178</td>
<td>Commercial Art Problems</td>
<td>Second year commercial art. Prerequisites: 77, 78.</td>
<td>Douglass</td>
<td></td>
</tr>
</tbody>
</table>
188. Applied Photography. (3) Commercial photography emphasizing color. Prerequisites: 87, 88. (Not offered in 1949-50.) Haas

199. Special Problems (2 per semester to a maximum of 8) Open to juniors, seniors and graduates only. Staff

299. Problems. (2 per semester to a maximum of 4) Graduate Staff

ART HISTORY (GROUP III)

1. General Art History. (2) Introductory study of the architecture, painting, sculpture and crafts of the prehistoric, ancient, and medieval periods. Todd

2. General Art History. (2) Continuation of Art 1. Art of the periods from the Renaissance up to date. Todd

21. Art Appreciation. (1) Introduction to painting and design, applied art, graphic art, etc. (A course for general art information). No prerequisite. Staff

42. History of Architecture. (2) Survey of architectural forms and structural design of the period from pre-history times to the beginning of the Renaissance. Bunting

61. History of Architecture. (2) Survey of architectural forms and structural design of the period from the beginning of the Renaissance to modern times. Bunting

62. History of Architecture. (2) Survey of architectural forms and structural design covering the modern period and community planning. Bunting

81. Art of the Renaissance & Baroque Periods. (3) History of the painting, sculpture and architecture of Italy and Northern Europe from the fifteenth century to the Napoleonic era. Prerequisites: 1, 2. Bunting

82. History of Modern Art. (3) History of modern painting, sculpture and drawing, tracing basic influences, trends and concepts from the Napoleonic era up to and including modern schools. Prerequisites: 1, 2. (Not offered in 1949-50.) Haas

HA. Reading for Honors. (1-3 each semester) Staff

HB. Research for Honors. (1-3 each semester) Staff

121. History of Ancient Art. (2) A study of the art of the peoples of Europe and the Mediterranean area from prehistoric to Christian times. Prerequisites: 1, 2. (Not offered in 1949-50.) Todd
122. History of Medieval Art. (2) From the dissolution of late Roman art to the sixteenth century with emphasis upon the religious art forms of the twelfth and thirteenth centuries. Prerequisites: 1, 2. (Not offered in 1949-50.) Bunting

131. Pre-Cortesian Art. (2) A study of the arts of the Americas prior to the conquests of the Spanish in the fifteenth century. Todd

132. History of American Indian Art. [Indian Art] (2) Development and symbolism of the decorative art of the Pueblos and other tribes. No prerequisites. Chapman

141. Art of the Americas. (2) Survey and discussion of art in the Western Hemisphere. Prerequisites: 1, 2. Koeber

142. Spanish Colonial Art. (2) History of the architecture, sculpture and painting of the period of Spanish colonization and the relation of these art forms to both the Spanish and the native Indian traditions. Prerequisites: 1, 2. Bunting

151. Art History Renaissance. (2) Analytical study of painters and painting of the Renaissance period. Prerequisites: 1, 2. (Not offered in 1949-50.) Haas

152. History of Modern European Art. (2) Survey and discussion of painting in Europe from the seventeenth century to the present. Prerequisites: 1, 2. Koeber

161. History of Oriental Art. (2) History of Indian, Chinese and Japanese art from its inception to the present. No prerequisite. (Not offered in 1949-50.) Haas

192. Contemporary Mexican Painters. (2) Survey of the main figures of the art movement in Mexico. No prerequisite. Koeber

199. Special Problems. (2 per semester to a maximum of 8) Open to juniors, seniors and graduates only. Staff

251, 252. History of Art. (2, 2) A critical investigation of influences on present-day art movements. Haas

291, 292. Seminar. (2, 2) The applied study of historical art periods, through application, criticism and analysis. Graduate Staff

299. Problems. (2 per semester to a maximum of 4) Graduate Staff

300. Thesis. (6, should be taken over two semesters) Graduate Staff
## MAJOR STUDY

Professor Snapp (Head); Assistant Professors Miller, Yell; Instructor Blackburn.

College of Fine Arts: see Curriculum below.

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.

## CURRICULUM IN DRAMATIC ART

(Leading to the degree of Bachelor of Fine Arts in Dramatic Art. Hours required for graduation, 132.)

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>3 English 2</td>
</tr>
<tr>
<td>Elective in Social Science</td>
<td>3 Elective in Social Science</td>
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<tr>
<td>Drama 10</td>
<td>3 Drama 11</td>
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<td>Drama 1</td>
<td>3 Drama 2</td>
</tr>
<tr>
<td>Drama 29</td>
<td>3 Drama 30</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 Physical Education</td>
</tr>
<tr>
<td>Creative Design</td>
<td>2 Creative Design</td>
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<tr>
<td>Foreign Language</td>
<td>3 Foreign Language</td>
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<tr>
<td>Drama 75</td>
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<td>Drama 85</td>
<td>3 Drama 86</td>
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<tr>
<td>Drama 89</td>
<td>3 Drama 90</td>
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<tr>
<td>Physical Education</td>
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### SOPHOMORE YEAR

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<td>English 57</td>
<td>3 Psychology 51</td>
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<tr>
<td>Drama 135</td>
<td>3 Drama 136</td>
<td>3</td>
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<td>Drama 175</td>
<td>3 Drama 176</td>
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<tr>
<td>Drama 161</td>
<td>3 Drama 162</td>
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<td>Philosophy Elective</td>
<td>2-3 English Elective</td>
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<td>2-3 English Elective</td>
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### JUNIOR YEAR

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<tbody>
<tr>
<td>Drama 185</td>
<td>3 Drama 186</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drama 197</td>
<td>3 Drama 198</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English 141</td>
<td>3 English Elective</td>
<td>3</td>
<td>3 English Elective</td>
</tr>
<tr>
<td>Electives</td>
<td>8 Other Electives</td>
<td>8</td>
<td>8 Other Electives</td>
</tr>
</tbody>
</table>

It is strongly urged that the student broaden his field of study.
COLLEGE OF FINE ARTS

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.

DESCRIPTION OF COURSES

1, 2. FUNDAMENTALS OF SPEECH AND READING. (3, 3) 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.

Yell

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.

Blackburn

51, 52. RADIO DRAMA PRODUCTION. (3, 3) Adapting, editing, and producing dramatic radio programs; directing and production techniques. Radio workshop.

Yell

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. Yell

135, 136. **Stage Lighting.** (3, 3) Theory and practice of present-day methods of lighting the stage. Blackburn

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

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. Prerequisites: 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. Yell

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. Blackburn

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 Miller (Head), Robb. Associate Professors Frederick, Keller, Robert; Assistant Professors Ancona, Firlie, Kunkel, Redman, Schoenfeld; Instructors Burg, Dawson, 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 below and College of Education.
COLLEGE OF FINE ARTS

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. 199. 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 will 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.

CURRICULA IN MUSIC
Leading to the degree of Bachelor of Fine Arts in Music. (See also curricula in Music Education, p. 199; General College, p. 263; 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

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228
FIELD OF CONCENTRATION—APPLIED MUSIC (INSTRUMENTAL)

FRESHMAN YEAR

First Semester

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<td>Music 5 Harmony</td>
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<td>Music 55 Orchestral Instruments</td>
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Second Semester

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<tr>
<td>Music 50 Piano Repertory</td>
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<td>Music 56 Orchestral Instruments</td>
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SOPHOMORE YEAR

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JUNIOR YEAR

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<td>Music 109 Form and Analysis</td>
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<td>Music 119 Minor Instrument</td>
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COLLEGE OF FINE ARTS

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

SENIOR YEAR

Music 151 Applied 4  Music 152 Applied 4
Music 157 Choral Conducting 2  Music 158 Orchestral Conducting 2
Music 157 Style Criticism 2  Music 158 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 (VOCAL)

FRESHMAN YEAR

First Semester
Music 1 Voice 4  Music 2 Voice 4
Music 3 Sight Singing (2) 5  (See Note on p. 232) 5
Music 5 Harmony 2  Music 10 Piano 2
Music 10 Piano 2  Music 47 Vocal Repertory 2
Ensemble 1  Ensemble 1
English 1 Intro to Rhet 5  English 2 Intro to Lit 5
Physical Education 1  Physical Education 1

16 16

SOPHOMORE YEAR

Music 51 Voice 4  Music 52 Voice 4
Music 61 History of Music 5  Music 62 History of Music 5
Music 62 Piano 3  Music 70 Piano 3
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

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

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

230
### COLLEGE OF FINE ARTS

**Music 187 Vocal Coaching**
1
**Music 197 Style Criticism**
2
**Mathematics or Science**
3
**Other Electives**
3

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#### FRESHMAN YEAR

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Second Semester

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#### SOPHOMORE YEAR

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#### JUNIOR YEAR

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#### SENIOR YEAR

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<td>Music 197 Style Criticism</td>
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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
COLLEGE OF FINE ARTS

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).

DESCRIPTION OF COURSES

INSTRUMENTAL ENSEMBLE

27, 28. WIND ENSEMBLE. (1, 1) Various ensembles of solo wind instruments will be formed. Enrollment limited. 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, Schoenfeld

41, 42. UNIVERSITY BAND. (1, 1) Study and performance of marches and concert band literature. Appearance and performance in uniform at football games, Commencement, 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, Schoenfeld

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) Firlie

23, 24. WOMEN'S GLEE CLUB. (1, 1) Firlie
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. Firlie, Redman, Snow

†43, 44. **University Mixed Chorus.** (1, 1) Firlie

†121, 122. **Men's Glee Club.** (1, 1) Prerequisite: two years in 21, 22. Firlie

†123, 124. **Women's Glee Club.** (1, 1) Prerequisite: two years in 23, 24. Firlie

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

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**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 sixteenth 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 the twentieth century contrapuntal idioms. Prerequisites: 5, 6, or equivalent. Frederick

109, 110. **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: 55, 56, 95, 96. Kunkel
COLLEGE OF FINE ARTS

191, 192. COMPOSITION. (2, 2) Creative work in original composition, primarily in the smaller homophonic forms, but also including some contrapuntal writing. Prerequisites: 109, 110.

Robb

205, 206. ADVANCED COMPOSITION. (2, 2) Individual guidance in composing for various instrumental and vocal ensembles; survey of techniques in appropriate fields. Completion of one or more major works for public performance.

Robb

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: 109, 110.

Firlie

158. ORCHESTRAL CONDUCTING AND SCORE READING. (2) The technique of conducting orchestras and studying orchestral scores. Prerequisites: 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. 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. 61: from antiquity through the Baroque; 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 (except for 82, 83, and 84).

Students may be required to attend listening periods of one to three hours each week at the option of the instructor.
COLLEGE OF FINE ARTS

COMPOSERS

82. Ludwig Van Beethoven. (2) A comprehensive study of the forms, styles, and historical significance of Beethoven's music. No prerequisite. (Not offered in 1949-50.) Staff

181. Johann Sebastian Bach. (2) A comprehensive study of the forms, styles, and historical significance of Bach's music. Schoenfeld

PERIODS

84. The Romantic Period. (2) A comprehensive study of the musical forms, styles, principal composers, and general historical and cultural background of the nineteenth century. No prerequisite. (Not offered in 1949-50.) 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. (Not offered in 1949-50.) Miller

172. Contemporary Music Literature. (2) Stylistic tendencies of the twentieth century and the study of representative works of the most important composers. (Not offered in 1949-50.) Robb

180. The Renaissance. (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.

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. (Not offered in 1949-50.) Robb

193. Composers of the United States. (2) A study of creative trends in the art music of the United States from the eighteenth century to the present. Special emphasis upon the style and contributions of the most important composers. Robb

194. French Composers. (2) A study of the characteristic musical traits of French music of the nineteenth and twentieth centuries, with special emphasis upon the works and contributions of certain prominent French composers. (Not offered in 1949-50.) Robb
COLLEGE OF FINE ARTS

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. No prerequisite. (Not offered in 1949-50.) 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. Miller

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. 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. (Not offered in 1949-50.) Miller

HA. READING FOR HONORS. (1-3 each semester) Upon the recommendation of the Head of the Department. Staff

HB. RESEARCH FOR HONORS. (1-3 each semester) May include projects in composition. Upon the recommendation of the Head of the Department. Staff

MUSICOCOLOGY

171. INTRODUCTION TO MUSICOCOLOGY. (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 MUSICOCOLOGY. (2, 2) Individual problems in research and documentary examination of the entire field. Miller
COLLEGE OF FINE ARTS

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 hr. 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

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 advisers before enrolling for applied music.

In applied music, the Department offers degree courses, 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 elsewhere will take a placement examination.
COLLEGE OF FINE ARTS

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)

169, 170. SENIOR COURSE. (2 each semester)

PIANO Ancona, Dawson, 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, Polonaise 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, Carnaval; and the more difficult compositions of Brahms, Chopin, and Liszt; compositions by standard modern composers such as Debussy, Ravel, Rachmaninoff, Scriabin, Hindemith, Bartok, etc.

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, elim-
COLLEGE OF FINE ARTS

ination 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 groups 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).

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.
COLLEGE OF FINE ARTS

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 Music Department and passed on by the Music faculty before the 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.

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. Prerequisites: 3, 4. Kunkel

‡155, 156. Orchestral Instruments. (2, 2) Prerequisites: 55, 56 Kunkel
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 selection, identification, analysis, purification, combination, standardization, preservation, and usage.

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 be considered. For this reason students in pharmacy are required to pursue such courses in these physical and biological sciences, where they have the advantage of close association with students in other departments of the University.

A School of Pharmacy was 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 for pharmacist licensure of all State Boards of Pharmacy in the United States because the College and its curriculum are fully accredited and approved by the American Council on Pharmaceutical Education, the official national accrediting agency in pharmaceutical education.

ADMISSION

The requirements for admission to the College of Pharmacy for both freshmen and transfer students are outlined on p. 39 of this
COLLEGE OF PHARMACY

Catalog. It is particularly desirable that the preliminary preparation include physics, chemistry, biology, physiology, Latin, modern languages, and such applied courses as typing, bookkeeping, accounting, and commercial arithmetic.

MAXIMUM NUMBER OF HOURS

Students in the College of Pharmacy may enroll for not 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," (p. 76).

ADVANCED STANDING

The general requirements for advanced standing are those listed in this Catalog on p. 40 under the heading "Transferring Students." In addition, any student entering the College of Pharmacy with advanced standing is required to complete not less than six full semesters 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. This is in accordance with a ruling adopted by the American Association of Colleges of Pharmacy at the Dallas, Texas, meeting in 1937.

PHARMACIST REGISTRATION

Since the College of Pharmacy is included in the approved list of colleges of the American Council on Pharmaceutical Education, the degrees it grants are recognized as meeting the college requirements for pharmacist licensure in all of the states in the nation. Persons registered as Pharmacists in New Mexico are entitled to reciprocity privileges with 45 states, the District of Columbia, Alaska, and Puerto Rico.

SCHOLARSHIPS AND LOANS

The College of Pharmacy will grant tuition scholarships to ten deserving New Mexico high school graduates for both semesters of the academic year. Other scholarships and loans are available to those who qualify. For information apply 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
COLLEGE OF PHARMACY

students at the University. Veterans and students over thirty years of age are exempted from the physical education requirements.

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 is a standard college curriculum leading to the degree of Bachelor of Science in 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 (Remedial English) and Mathematics X (Intermediate Algebra) must do so in addition to the regularly prescribed courses in English and Mathematics. No credit will be granted for these courses.

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

Courses of Study—Recommended Sequence

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1 (Intro to Rhet)</td>
<td>3 English 2 (Intro to Lit) 3</td>
</tr>
<tr>
<td>Pharm 1L (Pharm Orientation)</td>
<td>3 Pharm 2 (Pharm Calculations) 2</td>
</tr>
<tr>
<td>Chem 1L (General)</td>
<td>4 Chem 2L (General) 4</td>
</tr>
<tr>
<td>Biol 1L (General)</td>
<td>4</td>
</tr>
<tr>
<td>Math 15 (College Algebra)</td>
<td>3 Chem 4L (General) 5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1 Biol 2L (General) 4</td>
</tr>
<tr>
<td>18 Physical Education</td>
<td>1 Math 16 (Plane Trig) 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Pharm Chem 132L (Inorg Med)</td>
<td>3 Pharmacognosy 72L 4</td>
</tr>
<tr>
<td>Physics 11L (General)</td>
<td>4 Physics 12L (General) 4</td>
</tr>
<tr>
<td>Chem 101L (Organic)</td>
<td>4 Chem 102L (Organic) 4</td>
</tr>
<tr>
<td>or Chem 103L (Organic)</td>
<td>5 Chem 104L (Organic) 5</td>
</tr>
<tr>
<td>Pharm 121 (Hist of Pharmacy)</td>
<td>1 Bus Ad 5 (Prin of Acctg) 3</td>
</tr>
<tr>
<td>Option of:</td>
<td>Option of:</td>
</tr>
<tr>
<td>Soc Sci 1 (Intro)</td>
<td>3 Soc Sci 2 (Intro) 3</td>
</tr>
<tr>
<td>German</td>
<td>(3) German</td>
</tr>
</tbody>
</table>

244
COLLEGE OF PHARMACY

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; 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; [ ]—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), Hocking; Assistant Professor Castle; Instructor Curry.

PHARMACY

I. 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 PREPARATIONS 1.** (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 102L.

Credit suspended until 152L is completed. 2 lectures, 6 hrs. lab.

Bowers, Curry

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.

Hocking

122. **PHARMACEUTICAL LAW.** (2) A study of the laws and regulations relating to the practice of pharmacy, together with a 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 cooperation with public and private health agencies, and includes 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, Curry

155. **DRUG STORE MANAGEMENT.** (2) Management of retail pharmacies including a description and analysis of the operating problems encountered in the successful conduct of a retail store, professional shop and hospital pharmacy.

Curry

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)
COLLEGE OF PHARMACY

This course is designed to familiarize the pharmacist with the problems and methods of control of insects, fungi, animal parasites, rodents, etc. Prerequisite: Biology 2L. Hocking

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, Curry

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, Curry

197, 198. Problems in Pharmacy. (1-3 each semester) Experimental and library problems in any phase of pharmacy. Prerequisite: permission of the instructor. Staff

PHARMACEUTICAL CHEMISTRY

103L. Organic Medicinals. (5) A study from the chemical and pharmacological viewpoint of the official and non-official organic substances of both synthetic and natural origin used in medicine or in the preparation of medicinals. Prerequisite: 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. Inorganic Medicinals. (3) A study of the chemical and
pharmaceutical properties of the official and non-official inorganic substances used in medicine or in the preparation of medicinals. Prerequisites: Chemistry 2L. 2 lectures, 3 hrs. lab. Castle

154L. Drug Analysis. (4) A course embracing the fundamental analytical operations 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

PHARMACOGNOSY AND PHARMACOLOGY

72L. Pharmacognosy. (4) A study of the history, source, cultivation, collection, preparation, geographical distribution, commerce, identification, composition, morphology and histology, purity, and preservation of drugs of vegetable origin. Prerequisites: Chemistry 2L and 101L, Biology 2L. 2 lectures, 6 hrs. lab. Hocking

172. Biological Therapy. [Biological Therapeutics] (3) A study of medicinals obtained from animals, and prepared from micro-organisms. These include sera, vaccines, antitoxins, antibiotics, etc. Included are such topics as allergens, venoms, and glandular products. Prerequisite: senior standing. Hocking

191, 192. Pharmacognosy Problems. (1-3 each semester). Experimental and library problems in any phase of pharmacognosy. Prerequisite: permission of instructor. Hocking

195L. Pharmacology. (3) A study of the effects produced by drugs on the living organism and the mechanisms whereby these effects are produced. The actions of the more important drugs are demonstrated upon living animals. It includes the subdivisions of pharmaco-dynamics, therapeutics, posology, toxicology, and bioassay. Prerequisite: senior standing. 2 lectures, 3 hrs. lab. Hocking

196L. Pharmacology. [Pharmacology, Toxicology, Bioassay] (3) A continuation of 195L. 2 lectures, 3 hrs. lab. Hocking

197, 198. Pharmacology Problems. (1-3 each semester). Experimental and library problems in any phase of pharmacology. Prerequisite: permission of instructor. Hocking
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. 31.)

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.
BUSINESS ADMINISTRATION

DEGREES OFFERED

For the degree of 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.

For the degree of Master of Business Administration, the student should consult the Graduate Catalog.

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. 76-77). 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 descriptions 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.

5. To receive the B.B.A. degree, transfer students must take a minimum of 18 hours in Economics and Business Administration subjects while enrolled in the College of Business Administration.

DEGREE REQUIREMENTS

Requirements for the degree of Bachelor of Business Administration:

A. General Requirements—

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>English 1 and 2 (6 hrs.) Literature (3 hrs.) and Speech 55 (3 hrs.) 12</td>
</tr>
<tr>
<td>2.</td>
<td>Social Science (other than Economics): American Government (6 hrs.) Additional 6 hours (ordinarily Introduction to Social Sciences) 12</td>
</tr>
<tr>
<td>3.</td>
<td>Laboratory Science (1 yr.) 6-8</td>
</tr>
<tr>
<td>4. Option: Either a single foreign language (12 hrs.), or additional mathematics or science (9 hrs.) plus additional social science (3 hrs.) 12</td>
<td></td>
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<tr>
<td>5.</td>
<td>College Algebra 3</td>
</tr>
<tr>
<td>6.</td>
<td>Physical Education 4</td>
</tr>
<tr>
<td>7.</td>
<td>Philosophy 2-3</td>
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<tr>
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<td>Total 51-54</td>
</tr>
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B. Specific requirements in economics and business courses, common to all concentrations—

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
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<tbody>
<tr>
<td>Math 42, Introduction to Statistical Methods 3</td>
<td></td>
</tr>
<tr>
<td>B A 5, 6, Principles of Accounting 3-3</td>
<td></td>
</tr>
<tr>
<td>B A 65, Business Writing 3</td>
<td></td>
</tr>
<tr>
<td>B A 105, 107, Business Law 3-3</td>
<td></td>
</tr>
<tr>
<td>B A 108, Marketing 3</td>
<td></td>
</tr>
<tr>
<td>B A 109, Statistics 3</td>
<td></td>
</tr>
<tr>
<td>B A 110, Corporation Finance 3</td>
<td></td>
</tr>
<tr>
<td>B A 130, Business Organization and Management 3</td>
<td></td>
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<tr>
<td>Econ 51, 52, Intro to Economics, Modern Economic Problems 3-3</td>
<td></td>
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<tr>
<td>Econ 111, Money and Banking 3</td>
<td></td>
</tr>
<tr>
<td>Additional business administration or economic courses 12</td>
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<td>Total 51</td>
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C. Free Electives—

<table>
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<tr>
<th>Credit</th>
<th>Description</th>
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<tbody>
<tr>
<td></td>
<td>Total hours of credit for degree 128</td>
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</table>

COMMON FRESHMAN AND SOPHOMORE PROGRAM

All candidates for the B.B.A. degree, regardless of their field of special interest should complete the following common freshman and sophomore years:
B U S I N E S S  A D M I N I S T R A T I O N

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credit</th>
<th>Second Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl 1 Intro to Rhet</td>
<td>3</td>
<td>Engl 2 Intro to Lit</td>
<td>3</td>
</tr>
<tr>
<td>B A 5 Principles of Acctg</td>
<td>3</td>
<td>B A 6 Principles of Acctg</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>3-4</td>
<td>Laboratory Science</td>
<td>3-4</td>
</tr>
<tr>
<td>Foreign Language (or electives*)</td>
<td>3</td>
<td>Foreign Language (or electives*)</td>
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</tr>
<tr>
<td>Physical Education</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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SOPHOMORE YEAR

| Math 12 College Algebra | 3 | Math 42 Intro to Stat Meth | 3 |
| Econ 51 Intro to Econ | 3 | Econ 52 Mod Econ Probs | 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 | 2 | **Total** | **16** |
| **Total** | **16** | **Total** | **16** |

FIELDS OF CONCENTRATION

Not later than the beginning of the junior year, students in the College of Business Administration should choose one of the available fields of concentration: General Business, Accounting, Marketing, Industrial Administration, Finance, and Secretarial-Office Management.

GENERAL BUSINESS CONCENTRATION

JUNIOR YEAR

| Econ 111 Money & Banking | 3 | B A 110 Corp 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 130 Prin of Org & Mgt | 3 | Electives or Gen Req | 7 |
| Electives or Gen Req | 4 | **Total** | **16** |
| **Total** | **16** | **Total** | **16** |

* 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.

2 Students who are taking the General Business, Marketing, Finance, or Industrial Administration 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. 19) and Beginning Dictation (B.A. 14) as sophomores, deferring a like number of hours of general requirements until the junior or senior year.

252
### BUSINESS ADMINISTRATION

#### SENIOR YEAR

<table>
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Electives or Gen Req

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**Recommended Electives:** B.A. 113, 115, 114, 123, Econ. 63, 119, 152.

#### ACCOUNTING CONCENTRATION

**JUNIOR YEAR**

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<td>Statistics</td>
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<td>B A 106</td>
<td>Business Law</td>
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Electives or Gen Req

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**Recommended Electives:** B.A. 115, 116, Econ. 163, 141.

**SENIOR YEAR**

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**Recommended Electives:** B.A. 102, 120, 122, 118, 123.

#### FINANCE CONCENTRATION

**JUNIOR YEAR**

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Electives or Gen Req

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**Recommended Electives:** B.A. 115, 116, Econ. 163, 141.

**SENIOR YEAR**

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Electives or Gen Req

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**Recommended Electives:** B.A. 143, 166, Econ. 163, 141.

#### SECRETARIAL-OFFICE MANAGEMENT CONCENTRATION

**JUNIOR YEAR**

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253
### BUSINESS ADMINISTRATION

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**Recommended Electives:** B. A. 113, 114, 131, Econ. 63.

#### MARKETING CONCENTRATION

##### JUNIOR YEAR

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**Recommended Electives:** B. A. 123, 165, Econ. 63, 119, 152.

#### INDUSTRIAL ADMINISTRATION CONCENTRATION (Management)

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#### SENIOR YEAR

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**Recommended Electives:** B. A. 63, 113, Econ. 143, 152, 180, 140.

### COLLEGE OF BUSINESS ADMINISTRATION

#### DEPARTMENT 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; 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.

BUSINESS ADMINISTRATION

Professors Sorrell (Dean), Strahlem; Associate Professor Parish; Assistant Professors Damgaard, Dixon, Dunbar, Edgel, Evans, Harmeyer, Huber, Israel; Instructors Carey, Reva, Williams; Teaching Assistant Hafen.

5, 6. PRINCIPLES OF ACCOUNTING. (3, 3) Introductory accounting; statements, accounts, journals, adjusting and closing entries, the worksheet; the voucher system, payroll accounting, departmentalization, 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. Staff

*7. OFFICE MACHINES AND FILING. (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: B. A. II or equivalent. Israel

†11, 12. BEGINNING TYPEWRITING. (2, 2) The learning of the key-board 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 type-

* Credit in General College only.
† No credit allowed toward degrees in Colleges of Arts and Sciences and Business Administration.
BUSINESS ADMINISTRATION

writing in high school or business school should take 51 or 52.

Israel, 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. Prerequisites: 11 and 13 or equivalent. 4 one-hour classes per week.

Israel, Reva

41. **MATHEMATICS OF FINANCE.** (3) (Same as Mathematics 41.)

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.

Israel, Reva

53, 54. **TRANSCRIPTION; SPEED DICTATION.** (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 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 partnerships 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. Prerequisite: 5 and 6 with a minimum grade of "C" in 6.

Harmeyer, Williams

65. BUSINESS 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

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: 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: 63.

Harmeyer.

104. COST ACCOUNTING. (3) Principles of industrial and distribution cost accounting; job order and process cost systems; standard costs; cost reports. Prerequisite: 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 instruments. 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.

Edgel

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

113. CREDITS AND COLLECTIONS. (2) Principles and practices of
BUSINESS ADMINISTRATION

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 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: 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. Prerequisites: 115 and 63. Evans

117, 118. INCOME TAX ACCOUNTING. (3, 3) Study of federal and state income tax laws and regulations; history and background; 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: 64. Credit may be obtained in 117 without continuing in 118. Dunbar

119. [112] AUDITING. (3) Auditing principles and procedure: preliminary considerations, planning the audit program, classes of audits, audit reports, professional ethics and legal responsibility; case problems. Prerequisite: 64. Dunbar

120. AUDITING. (2) Audit practice case: complete audit of a corporation, including examination and verification of original vouchers, journal and ledger entries; preparation of working papers, adjusting entries, financial statements and report of examination; illustrative audit work papers. Prerequisite: 119. Dunbar

121, 122. ADVANCED ACCOUNTING. (3, 3) Problems, partnership dissolution and liquidation, consignments, installment sales, insurance, correction of errors, the statement of affairs, realization
BUSINESS ADMINISTRATION

and liquidation statement, estates and trusts, budgets; branch accounting, consolidated statements, foreign exchange. Prerequisite: 64. Credit can be obtained in 121 without continuing in 122.

Harmeyer

123. INSURANCE. (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.

Huber

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: 102, 104, 117, 119, 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.

Damgaard

131. PERSONNEL MANAGEMENT. (3) 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: 130.

Damgaard

132. SALARY AND WAGE ADMINISTRATION. (2) Determination of wage rates and pay practices, evaluation of jobs, the wage structure, employer-employee cooperation and control. Prerequisite: 131.

Damgaard

133. MANAGEMENT-UNION RELATIONS. (3) Management characteristics and functions; labor union policy and operation; collective bargaining procedure; labor contract provisions, settlement of grievances, conciliation, mediation, arbitration. Prerequisite: 131.

Damgaard

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 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. TRANSPORTATION. (3) Principles and problems of transportation. Prerequisite: Economics 51.

Duncan

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: 12 and 14 or equivalent.

Israel

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

201. FISCAL POLICY AND BUSINESS. (3) An integration of the fields of monetary theory and public finance applied to the problems of fluctuations in production and employment. (Required of all graduate students working toward the degree of Master of Business Administration)

Parish

203. RESEARCH IN BUSINESS. (3) This course is designed to provide experience in assembling, analyzing and interpreting information for business use and in presenting results of such studies. Prerequisites: a degree in Business Administration or a major in Economics including statistics.

Edgel

205. ACCOUNTING SYSTEMS. (3). Design and installation of accounting records; basic problems of system designed as related to business functions; independent research evidenced by a comprehensive system report. Prerequisite: 21 hours in accounting.

Harmeyer

206. ADVANCED COST ACCOUNTING. (3) Advanced theory and problems in standard and process costs; analysis and control of costs; costing practices of specific industries; distribution costs; representative cost problems from C.P.A. examinations; cost practice case. Prerequisites: 21 hours in accounting including 104.

Dunbar

251, 252. PROBLEMS. (2-4 each semester)

Graduate Staff

300. THESIS. (4-6)

Graduate Staff
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 general education courses.

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.

A student with more than 60 semester hours, exclusive of activity
GENERAL COLLEGE

credits in physical education, is not permitted to enter the General College.

SCHOLARSHIP REGULATIONS

See pp. 76-77.

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.

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.

CURRICULA*

ACADEMIC COURSE

FRESHMAN YEAR

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ART

FRESHMAN YEAR

<table>
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<tbody>
<tr>
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<tr>
<td>Intro to Soc Sci</td>
<td>Intro to Soc Sci</td>
</tr>
<tr>
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<td>Art 2</td>
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<tr>
<td>Art 3</td>
<td>Art 4</td>
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SOPHOMORE YEAR

<table>
<thead>
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* Students in the General College are limited to lower division courses without special permission of the General College Dean.
### GENERAL COLLEGE

#### CLERICAL

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<thead>
<tr>
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<tbody>
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<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>English 1</td>
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<td>Intro to Soc Sci</td>
<td>3 Intro to Soc Sci</td>
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<tr>
<td>Bus Adm 11</td>
<td>2 Bus Adm 12</td>
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<tr>
<td>Psych 1L</td>
<td>3 Psych 2L</td>
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<tr>
<td>Math 14</td>
<td>3 Electives</td>
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<td>P E</td>
<td>1 P E</td>
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<tr>
<td>Bus Adm 5</td>
<td>3 Bus Adm 6</td>
</tr>
<tr>
<td>English 55</td>
<td>3 Speech 55</td>
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<tr>
<td>Econ 63</td>
<td>3 Bus Adm 65</td>
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<tr>
<td>Bus Adm 51</td>
<td>2 Bus Adm 52</td>
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### SOPHOMORE YEAR

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<th><strong>SOPHOMORE YEAR</strong></th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>English 1</td>
<td>3 Home Ec 53L</td>
</tr>
<tr>
<td>Intro to Soc Sci</td>
<td>3 Home Ec 63L</td>
</tr>
<tr>
<td>Home Ec 1</td>
<td>3 P E</td>
</tr>
<tr>
<td>Psychology 1L</td>
<td>3 Psychology 2L</td>
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<tr>
<td>P E</td>
<td>1 Biology 36</td>
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<td>Home Ec 2L</td>
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### HOME MAKING

<table>
<thead>
<tr>
<th><strong>FRESHMAN YEAR</strong></th>
<th><strong>SOPHOMORE YEAR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>English 1</td>
<td>3 Home Ec 54L</td>
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<td>Electives</td>
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<tr>
<td>Sociology 51</td>
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### INDUSTRIAL ARTS

See first two years Industrial Arts Curriculum, College of Engineering. Some adjustments to fit individual needs may be arranged.

### MUSIC

<table>
<thead>
<tr>
<th><strong>FRESHMAN YEAR</strong></th>
<th><strong>Second Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
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<td><strong>Second Semester</strong></td>
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<tr>
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<tr>
<td>Ensemble Music</td>
<td>1 Ensemble Music</td>
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<tr>
<td>Music 59</td>
<td>2 Music 49</td>
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<tr>
<td>Electives</td>
<td>3 Electives</td>
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<tr>
<td>P E</td>
<td>1 P E</td>
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# Students who have not the prerequisite of B.A. 14 should arrange with the instructor to take the course.
### General College

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Dram Art 1</td>
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<td>Music 61</td>
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<tr>
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<tr>
<td>Music 5</td>
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#### Sophomore Year

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<thead>
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<tr>
<td>Music 6</td>
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#### Pre-Dentistry*

#### Freshman Year

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<tbody>
<tr>
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</tr>
<tr>
<td>Chemistry 1L</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 15</td>
<td>3</td>
</tr>
<tr>
<td>Mod Lang</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1L</td>
<td>3</td>
</tr>
<tr>
<td>P E</td>
<td>1</td>
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#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Biology 1L</td>
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<td>Physics 11L</td>
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<td>Philosophy 2</td>
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<td>Soc Sci Elective</td>
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#### Pre-Forestry*

#### Freshman Year

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<tr>
<td>Chemistry 1L</td>
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#### Sophomore Year

<table>
<thead>
<tr>
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#### Prelaw Course†—

*For Veterans Only*

#### Freshman Year

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<tr>
<td>English 1</td>
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<tr>
<td>Psych 1L</td>
<td>3</td>
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<tr>
<td>Phil 1</td>
<td>2</td>
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</tbody>
</table>

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*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.

†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.
GENERAL COLLEGE

Speech 1
Hist 1

<table>
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SOPHOMORE YEAR

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PRE-OPTOMETRY*

FRESHMAN YEAR

First Semester

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<tr>
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Second Semester

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SOPHOMORE YEAR

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SECRETARIAL

FRESHMAN YEAR

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<th>Bus Adm 13</th>
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<th>Elective</th>
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SOPHOMORE YEAR

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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. It should be possible therefore to develop adequately in two years the student's proficiency in this five-angled field.

* 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.

† Credit allowed in General College only.

265
GENERAL COLLEGE

(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.

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

<table>
<thead>
<tr>
<th>First Half</th>
<th>Total credits</th>
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<tbody>
<tr>
<td>English 1. Intro. to Rhetoric</td>
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</tr>
<tr>
<td>Spanish 95. Spanish-Business Letter Writing (3rd Yr.)</td>
<td>2</td>
</tr>
<tr>
<td>Portuguese 1. Elementary Portuguese</td>
<td>3</td>
</tr>
<tr>
<td>History 11. History of the Americas</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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Second Half

<table>
<thead>
<tr>
<th>Second Half</th>
<th>Total credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 2. Intro. to Literature</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 96. Com'l. and Industrial Lang. Practice in Hispanic Countries (3rd Yr.)</td>
<td>2</td>
</tr>
<tr>
<td>Portuguese 2. Elementary Portuguese</td>
<td>3</td>
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<td><strong>Total</strong></td>
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SECOND YEAR

<table>
<thead>
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<th>Second Year</th>
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<tr>
<td>English 55. Vocabulary Building</td>
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<tr>
<td>Spanish 131. Advanced Comp. and Conv.</td>
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</tr>
<tr>
<td>Portuguese 51. Intermediate Portuguese</td>
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<tr>
<td>Bus. Adm. 55. Advanced Typewriting in Spanish</td>
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<td><strong>Total</strong></td>
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</table>

* 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.

266
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 may be pursued by college graduates who now enter business schools to gain secretarial training. Such students will already have credits in 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:

Bus. Adm. 7. *Office Machines and Filing* ....................... 2
Bus. Adm. 63, 64. *Intermediate Accounting* ................... 6
Bus. Adm. 108. *Marketing* ........................................ 3
Bus. Adm. 157. *Office Procedure* ................................. 4

**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.
COLLEGE OF LAW

THE STATE BAR of New Mexico having previously adopted a resolution to that end, and the Legislature of New Mexico having 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.
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.

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, but is subject to reinspection after the lapse of a period which is usually about two years." (Factors Bearing on the Approval, etc., May 15, 1947, p. 2.)

The College was admitted to membership in the Association of American Law Schools December 28, 1948.

The standards of the Association of American Law Schools are set forth in Article Sixth of its Articles of Association. Its require-
COLLEGE OF LAW

ments relating to student work will be found in the Admission Requirements and Requirements for Degree set forth below, except that New Mexico requires more than the minimum amount of prelegal education required by either the Association of American Law Schools or the American Bar Association.

BAR EXAMINATIONS

The degree in law from this University will not confer the privilege of practicing law in New Mexico or elsewhere.

LAW BUILDING

Plans are being made for construction of a law building. Until its completion, 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, and others, extensive exchanges with other law libraries, and provision through legislative appropriation, have provided the College with a library of over twenty thousand volumes, not counting unnecessary duplications. The library therefore exceeds the requirement of the American Bar Association of seventy-five hundred well-selected, usable volumes, and that of the Association of American Law Schools of ten thousand volumes, by substantial margins.

BULLETIN OF THE COLLEGE OF LAW

The most recent issue of the University of New Mexico Bulletin containing Announcements of the College of Law and constituting the special catalog of the College of Law will be mailed to any interested person upon request.

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 one institution has been attended, the scholastic requirements of the last institution will be applied, but based upon the entire prelegal 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 honorably discharged or released may be admitted, if they 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 prelegal work, in the hands of the University Director of Admissions not later than September 1 for first-semester registration. A student completing his prelegal work in some other college or university must furnish, in addition to a transcript of his 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**

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, except that veterans of World War II, as described above, will be admitted on three-fourths of the work toward a degree. 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 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.

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

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 under certain conditions.

A transferring student must present:

1. An official transcript of his prelegal course of 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 apprenticeship 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.

COMBINED COURSE OF STUDY LEADING TO TWO DEGREES

A candidate for the bachelor's degree in Arts and Sciences or in Business Administration may offer, in lieu of the last thirty hours at the University of New Mexico, the first full year's work (satisfactorily passed and properly certified) in the College of Law, pro-
COLLEGE OF LAW

vided that the requirements stated in the announcements of those colleges are met.

LAW

Professors Gausewitz (Dean), Weihofen; Visiting Professor Hoshour; Associate Professor Seed; Assistant Professors Bauman, Poldervaart; Instructor Clark; special lecturers.

COURSE OF STUDY

The course of study will be determined by the faculty and may be changed at any time. Special lectures and services such as legal aid are not listed as courses. Office Practice, Legal Writing, Practice Court, and all first-year subjects are required. All other subjects are elective. The Faculty may require any required or other course to be retaken if failed. First-year students may be required to serve as jurymen in Practice Court. All students may be required to attend special meetings called and are required to do special exercises assigned including such services as legal aid, even though no credit be given. Casebooks and other study materials listed are subject to change.

ALL YEARS

SPECIAL LECTURES. (0) It is expected that special lectures will be scheduled with two general aims: (1) to supplement pre-law education by refreshing the students in fields in which they have studied and to give the students some knowledge of content and method in fields in which they have not studied; and (2) to supplement the law course by lectures on subjects not included in the curriculum as well as on important statutes and contemporary problems.

ELECTIVES IN OTHER COLLEGES. Not to exceed 12 credits in courses in other colleges of this University or other fully accredited institutions of higher learning may be taken for elective law credit if permission of the Dean is secured before any such course is taken and the student has a well considered plan for specialization, or other valid reason. Grades secured in such courses will not be considered on questions of probation or suspension or scholastic honors.

FIRST YEAR

101: CRIMINAL LAW. (3) Michael & Wechsler, Criminal Law and its Administration, Cases, Statutes and Commentaries (1940) and supplementary materials. The criminal law viewed
as a means for the prevention of crime, the control of criminals, and the protection of individual liberty; the concepts used for the definition of criminal behavior and for prescribing the treatment of criminals; and judicial and administrative organization and procedures, all with particular attention to homicide, theft, harms to the person, potential harms, and criminal responsibility.

Gausewitz

103, 104. CONTRACTS. (3, 3) Williston, *Cases on Contracts* (4th ed.) The basic principles of the law of contracts. Mutual assent; consideration; the rights of third parties; the Statute of Frauds (relating to agreements not to be performed within a year); the Parol Evidence rule; conditions (express and implied); impossibility; illegality; discharge of contracts. Gausewitz


107, 108. TORTS. (3, 2) Shulman and James, *Cases on Torts*. A study of the different bases of tort liability, including intentional torts, negligence, and absolute liability. During the second semester, the course includes misrepresentation, defamation, and the liability of owners and occupiers of land, manufacturers and vendors of chattels, and owners of motor vehicles. Bauman

109. CIVIL PROCEDURE I. (3) Michael, *Elements of Legal Controversy*. An introduction to the study of procedural law, particularly pleading, including a study of the code cause of action, the complaint, and negative and affirmative defenses. Bauman

111. LEGAL BIBLIOGRAPHY. (1) Beardsley & Orman, *Legal Bibliography and the Use of Law Books* (2nd ed.) 1947. A course in the use of law books, with emphasis upon the important classes of law books, actual use of the more important sets, and methods of search, for the purpose of developing facility in legal research. Poldervaart

112. BRIEF AND ARGUMENT. (1) An introduction to appellate practice, preparation of briefs on appeal, and oral argument. Poldervaart

115. AGENCY AND PARTNERSHIP. (3) Mathews, *Cases and Materials on Agency and Partnership* (1940). Principal and agent, master and servant, and partnerships, with some attention to sub-partnerships, limited partnerships, joint stock companies, business trusts, and cooperatives. Weihofen

117. ESTATES AND COVENANTS. (3) Aigler, Bigelow & Powell, *Cases on Property*. Introduction to the law of real property,
estates, natural rights, profits, licenses, easements, covenants, rents, waste.


**Bauman**

122. **Equity II.** (2) Cook, *Cases on Equity* (3rd one-volume ed.) Quasi-contractual remedies (both legal and equitable) available because of duress, fraud, innocent misrepresentation, mistake, illegality, and economic compulsion in the formation and discharge of contracts and other transactions.

**Seed**

123. **Constitutional Law.** (4) Dodd, *Cases on Constitutional Law* (shorter selection) with Supp. The judicial interpretation and enforcement of written constitutions; separation and delegation of powers; the federal system; powers of the national government; the bill of rights, including due process and equal protection; retroactive laws.

**Weihofen**

124. **Corporations.** (4) Ballantine and Lattin, *Cases and Materials on the Law of Corporations*. The principles of the law relating to business corporations; corporations as compared with partnerships, joint stock companies, business trusts; formation of corporations; separate corporate capacity in entity; criminal and tort liability of corporations; directors and management; ultra vires; rights and powers of shareholders; issue, underwriting, and marketing of securities; stock structure and classes of shares; capital requirements and dividends; purchase by a corporation of its own shares; liability of shareholders, promoters and directors in connection with the issue of and payment for shares; transfer of shares; fundamental changes in the corporate structure; shareholders' actions.

**Hoshour**

125. **Family Law and Community Property.** (3) Jacobs, *Cases and Materials on Domestic Relations* (2nd ed.) Marriage, separation and divorce; solidarity and economic relations as between husband and wife; solidarity and economic relations as between parent and child.

**Seed**

126. **Office Practice.** (1) Law office management, legal work handled from the attorney's office, practical exercises and
lectures based on New Mexico practice, drafting of legal papers and examination of abstracts.

131. TRUSTS. (3) Bogert, *Cases on Trusts.* A study of the nature and creation of express trusts for private persons, charitable trusts and resulting and constructive trusts; the relationship between trustee and beneficiary, the relationship between trustee and third persons, and problems of trust administration.


135. ADMINISTRATIVE LAW. (3) McFarland & Vanderbilt, *Cases and Materials on Administrative Law.* The system of legal control exercised by the law administering agencies other than the courts; definition and forms of administrative agencies; their functions; their constitutional limitations; their statutory powers and limitations; administrative procedures; agency hearings and decisions; judicial control of administrative agencies.

141. LEGAL WRITING. (1) An exercise in legal writing to be done independently by each student with the supervision and assistance of a member of the faculty.

143. JURISPRUDENCE. (2) Paton, *A Text-book of Jurisprudence.* The nature of jurisprudence, law, and the state; the judicial method; sources of jurisprudence; the technique of the law; analysis of legal concepts, including legal personality, rights, criminal law, property, possession, procedure, and analysis on the basis of interests.

145. NEGOTIABLE INSTRUMENTS. (4) Britton, *Cases on Bills and Notes.* A study of the Negotiable Instruments Law and cases on the formal requisites of negotiable bills and notes, execution and transfer of negotiable paper and obligations arising therefrom; holder in due course, equities; defenses, discharge.

THIRD YEAR

136. CASE STUDIES IN ADMINISTRATIVE PROCEEDINGS. (2) The detailed study of one or more actual administrative proceedings, including an analysis and review of the record and briefs, both before the administrative agency or agencies involved and on appeal to the courts if an appeal was taken; a consideration of the business and regulatory problems involved; and a review of such business adjustments as may have been required as a result of the
final decision. The course will include a study of a proceeding originally brought by a Federal Commission involving the accounting for accruals under an industrial pension plan in a very large industry, including the appeal of the industry from the Commission decision to the Federal Courts; also an arbitration proceeding involving the seniority provisions of a contract between a large union and the management of a plant having approximately 2500 employees; also, if time permits, a New Mexico commission proceeding to be decided upon. Hoshour

139. LABOR LAW. (3) Cox, Cases on Labor Law. Historical introduction; the negotiation and administration of the collective bargaining agreement; the establishment of the collective bargaining relationship; recourse to economic weapons; the individual and the union. Weihofen

151, 152. CIVIL PROCEDURE II. (2, 2) Hays, Cases and Materials on Civil Procedure. A study of code procedure, including the commencement of an action, parties and joinder of actions, pleading, provisional remedies, discovery, pretrial hearing, trial practice, appellate review, judgments, and extraordinary remedies. Bauman

153. SECURITY. (3) (Casebook to be selected). Suretyship, guaranty, chattel and real estate mortgages, pledges, conditional sales contracts. Seed

155. CREDITORS RIGHTS. (3) Hanna & McLaughlin, Cases and Materials on Creditor's Rights, 3rd ed. An examination of the principal remedies of unsecured creditors including enforcement of judgments, attachment and garnishment, fraudulent conveyances, general assignments, creditors agreements, receivership and bankruptcy problems; acts of bankruptcy, problems of the trustee, provable claims, exemption and discharge. Clark

157. LEGISLATION. (2) Reed & Mac Donald, Cases and Other Material on Legislation, 1948. Problems of legislative bodies, drafting of bills and resolutions, and the construction and interpretation of statutes. Poldervaart

159. EVIDENCE. (4) Morgan and Maguire, Cases on Evidence (2nd ed.) 1942. The nature of the trial of an issue of fact, of evidence, and of the legal rules of evidence; a critical study of the legal rules compared with the proposed Model Code of Evidence of the American Law Institute; the study of cases to ascertain the issues of each case under the substantive law and the law of pleading, to evaluate the evidence offered on such issues, and to understand the effect of the legal rules; a particular study of judicial notice, burden of proof and presumptions, func-
tions of the judge and jury, and of testimonial, circumstantial, and real evidence.

Gausewitz

161, 162. PRACTICE COURT. (1, 1) Pleadings, motion papers, trial brief, and jury trial of an issue of fact. Special Lecturer

168. WATER LAW. (1) Underground and surface waters, interstate streams, irrigation, and matters of particular interest in New Mexico. Special Lecturer

167. TAXATION. (2) Bruton, Cases on Taxation (1948). Property, income, death and gift taxation. Special Lecturer

169. TRADE REGULATION. (3) Handler, Cases and Materials on Trade Regulation. Development of the modern economy; contracts and combinations in restraint of trade; Sherman Antitrust Act; regulation of advertising; predatory practices; interference with trade relations by boycott; inducing breach of competitor's contracts; resale price maintenance; exclusive dealing arrangements and tying agreements; price discrimination.

Weihofen

171. LAW OF OIL AND GAS. (2) Kulp, Cases on Oil and Gas (3rd ed.) Nature of the property interests in oil and gas; legal interests created by oil and gas leases; validity of leases; the habendum clause; the drilling and rental clauses; assignments of the interest of the lessor and lessee; rents and royalties. Seed
THE GRADUATE SCHOOL

DEGREES OFFERED

Graduate work leading to the master's degree is offered in the following fields: Anthropology, Art, Art Education, Biology, Business Administration, Chemical Engineering, Chemistry, Civil Engineering, Economics, Educational Administration, Electrical Engineering, Elementary Education, English, Geology, Government and Citizenship, History, Inter-American Affairs, Mathematics, Mechanical Engineering, Modern Languages and Literatures, Music, Philosophy, Physical Education, Physics, Psychology, Secondary Education, and Sociology.

The degree of Doctor of Philosophy is offered in American Civilization, Anthropology, Biology (beginning with the academic year 1949-50), Chemistry, 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. All communications regarding admission should be addressed to the Director of Admissions. All communications regarding graduate study should be addressed to the Dean of the Graduate School.

A formal application is required of all students, including graduates of the University of New Mexico, who seek admission to the Graduate School. Applicants from other institutions must have two transcripts of all undergraduate and graduate work sent directly to the Admissions office from each institution previously attended. Transcripts in the possession of students will not be accepted for entrance purposes. In order to be assured of consideration for admission, students must have their applications and transcripts on file in the Admissions office at least one month in advance of the beginning date of the session in which they plan to enroll. No student is assured of admission until he has received an official certificate of admission from the Director of Admissions.

Any student may be refused admission if his previous scholastic record indicates inability to pursue advanced work satisfactorily. The Graduate School also reserves the right to refuse admission to any student for other than scholastic reasons.

282
THE GRADUATE SCHOOL

EXTENSION AND CORRESPONDENCE COURSES

The University accepts no graduate work by extension or correspondence from other institutions.

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.
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 Granum, U.S.N., (Head), Professor; Commander Peterson, U.S.N., Associate Professor; Lieutenant Commander Woyke, U.S.N., Assistant Professor; Lieutenant Commander Simmons, U.S.N., Assistant Professor; Lieutenant Robertson, U.S.N., Assistant Professor; Major Humphreys, U.S.M.C., Assistant Professor.

Students enrolled in the NROTC Unit may be enrolled in any college in the University. Completion of the Naval Science requirements will constitute completion of a minor study in the College of Arts and Sciences.

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FRESHMAN YEAR

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JUNIOR YEAR

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<th>NS101 Navigation</th>
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SENIOR YEAR

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<td>NS152 Naval Administration &amp; Leadership</td>
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Marine Corps subjects, given below, are substituted by Marine Corps applicants during junior and senior years.

JUNIOR YEAR

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| NS102M Concepts of Military Policy, Power and Principles | |

SENIOR YEAR

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<td>NS152M Amphibious Operations</td>
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NROTC students are required to attend 2 hours of Naval Science drill and laboratory per week.

284
OTHER DIVISIONS OF THE UNIVERSITY

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.
DEGREES AND AWARDS

DEGREES CONFERRED

June Seventh, Nineteen Hundred Forty-eight

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

NAME: MAJOR; MINOR
Rhodes Felton Arnold, Jr.: Anthropology; Geology
William C. Babb, Jr.: Economics; Psychology
Frank L. Baird, Jr.: Inter-American Affairs; ---
Joy Louise Barrick: English; Music
Charles J. Bayard: History; Mathematics
Douglas Carleton Benton: English; History
John M. Biggins: Anthropology; History
John Alan Blair: History; English
Marjorie Cody Burris: Psychology; Home Economics
Jerry Burton: Inter-American Affairs; ---
Martha Jane Byrd: English; Psychology
Arlene B. Camm: English; History
Lois Meryl Coats: Sociology; English
Alfred H. Colbert: Anthropology; History
Carol Lee Tate Coppock: History; Art
W. D. Corkern: Government; English
Thomas W. Coy: Social Work; ---
William J. Cunningham: Government; Naval Science
Bette DeWitt: Inter-American Affairs; ---
Richard C. DeWitt: Philosophy; Anthropology
Theodore Allen Dickman: Economics; English
Ralph Eugene Dixon: Inter-American Affairs; ---
Dena Domenicali: English; Spanish
Sara Louise Drypolcher: English; Spanish, History
Marjorie Duriez: Business Administration; English
Mary Louise Edmondson: Inter-American Affairs; ---
Jean Stokes Fite: Sociology; Psychology
Eugene T. Frosio: Anthropology; German
E. LaVerne Gaddy: Inter-American Affairs; ---
Abran Gallegos: Inter-American Affairs; ---
James F. Garliepp: Economics; Naval Science
Claude Owen Garrett: Business Administration; Naval Science
Laura Alberta Gillon: Anthropology; Geology
† Milton Goldberg: Philosophy; English
A. F. Gonzales: Spanish; Music
Meliton M. Gonzales: Government; Sociology
Richard Russell Green: Economics; Government
Kathleen Greenan: Sociology; Economics
William C. Greene: English; History
Emma Jean Griffin: Spanish; Music
Martin Grothe: Economics; Mechanical Engineering
Zachary Gussow: Anthropology; Psychology
James Edward Hackett: Government; History
† With Honors
** With distinction
DEGREES AND AWARDS

Margaret Hannah: Social Work; ----
James L. Haslam: Business Administration; Naval Science
Clarice Helling: Inter-American Affairs; ----
Carmen Hernandez: Spanish; English
Jean Calvert Hildreth: English; Anthropology
Dean K. Hoffman: Psychology; Philosophy
Frank B. Hogan: Business Administration; Government
Martha Jean Hughes: Psychology; Home Economics
Samuel H. Hughes: Government; Economics

** Starr Jenkins: History; Mathematics, English
Antonio G. Jimenez, Jr.: Inter-American Affairs; ----
Carol Lorraine Johnson: Psychology; Sociology

** Florence Ann Johnson: History; Psychology
John Alan Jones: Anthropology; Biology
Ruth May Jones: Psychology; Music, Mathematics
Phyllis O. Keenan: History; Economics

** R. Gordon B. Kenyon: History; Economics
Charles Lester King: Spanish; History
Margaret M. Kleinhein: English; Business Administration
Lucille Ricks Knudson: Anthropology; English
Maxine Krohn: Inter-American Affairs; ----
Evelyn Jane Lackey: English; Government
Margaret A. Leib: Sociology; Art
Brent Robinson Locke: Anthropology; English
Martin J. Lucero: Inter-American Affairs; ----
Dorothy Elizabeth Luchini: Inter-American Affairs; ----
Melvin Mager: Economics; Speech
Noel Daniel Martin: Economics; Naval Science
William Harris Martin: Business Administration; Naval Science
George Victor Mather: English; History
Thomas White Mathews: Anthropology; Biology
Glenn W. Mayer: Business Administration; Government
Ruth E. Miller: Inter-American Affairs; ----
James T. Moran: Government, Economics; ----
Melvin Morris: History; English
Daniel Francis Mulvihill: History; English
Paula Ruth Oboler: Inter-American Affairs; ----
Edward L. Owensby: English; Economics
Gaspar M. Padilla: Social Work; ----
Joséph F. Pañaia: History; English
LaVerna Pendleton: Anthropology; History
Betty Lenore Peterson: Spanish; History
Bonnie Ruth Phillips: English; History
Ann Katharine Pierce: English; History
Helen Qualls: Sociology; English
Virginia Marie Quinn: Psychology; English
R. Roger Reeve: Government; History
Dolores J. Richard: English, Government; History

† Carroll L. Riley: Anthropology; History
Robert J. Rivin: Psychology; Philosophy
Harriett Elizabeth Rogers: Economics; History
Patricia Ruth Rogers: English; Psychology
Elia E. Romero: Inter-American Affairs; ----
Samuel Romero: Economics; Spanish
Marcos Salas: Government; Naval Science
Candido Leopoldo Salazar: Inter-American Affairs; ----
Elam Azur Sanchez: Inter-American Affairs; ----

† With Honors
** With distinction
DEGREES AND AWARDS

Ernest J. Sanchez: Inter-American Affairs; ———
Marjorie Anne Sanders: Sociology; Spanish
Martha Schiff: Anthropology; Geology
Helen Dargan Schmidt: History, Psychology; ———
** Sam Schulman: Inter-American Affairs; ———
Constance Schutte Sears: Anthropology; English
Robert P. Shamaskin: Government; Naval Science
Jo Etta Silkener: Psychology; English
Virginia Skerritt: Inter-American Affairs; ———
Billylee Smith: Economics; English
Willis A. Smith: Government; Naval Science
Murray D. Snyder: Government; Naval Science
Jean Stampfer: Spanish; English
Earl S. Stapleton: History; Government
Howell Erbie Stone: Government; Business Administration
Bernice B. Stoner: Sociology; Anthropology
Craig Summers: English; Music
Joan Taul: Government, Business Administration; ———
Jack Verne Temple: Government; Sociology, English
John D. Troop: Government; Naval Science
Francis E. Vieth: Government, History; ———
Janet M. West: Philosophy; Anthropology
Ralph Reeves Wil1, Jr.: Inter-American Affairs; ———
Bryan F. Withnell, Jr.: Economics; Mathematics
Michael Mildred Young: Anthropology; Biology
Benjamin Joseph S. Zerbey: Government; Naval Science
Sara Ann Zink: Government; Sociology

BACHELOR OF SCIENCE

NAME: MAJOR; MINOR
Ora Jean Antoine: Chemistry; Mathematics
George O. Bachman: Geology; Biology, English
Thomas William Beeson: Geology; Geography
Matthew E. Carlisle: Chemistry, Biology; ———
Phyllis Schreiner Compton: Biology; English
Curtis L. Espy: Geology; Mathematics
Robert L. Feather: Biology; Chemistry
Anna C. Gasparotti Felter: Biology; German
Everett H. Fixley, Jr.: Physics; Mathematics
Carl J. Gillespie, Jr.: Biology; English
Herbert J. Hammond, Jr.: Biology; Chemistry
Robert L. Harbour: Geology; Anthropology
John Norman Hodges: Chemistry; Biology
Owen Foster Kline, Jr.: Biology; Chemistry
Blanche Catherine Lane: Biology; Chemistry
Zelma Jean Lyles: Biology; English
Thomas Robert Lyons: Geology; Anthropology
Jean McClelland: Chemistry; Mathematics
** Mercedes Merner: Physics; Geology, Mathematics, Anthropology
Charles J. Metzler: Biology; Chemistry
Samuel Walter Miller: Psychology; Sociology
Ralph Albert Nobles: Physics; Mathematics
Robert H. Parker: Biology; English
Frank Joseph Primer: Geology; Engineering
Jack W. Reed: Mathematics; Meteorology
Mai Chain Robbins: Chemistry; Mathematics
** Juanito A. Salazar: Psychology; Business Administration
Henry Joseph Sanchez: Biology; Naval Science
** With distinction
DEGREES AND AWARDS

Robert G. Schrandt: Mathematics; Naval Science
Margaret Prevost Smith: Biology; History
James William Tyndall: Mathematics; Physics
Mead Wetherbe: Physics; German
June Marri Zumbro: Biology; Psychology

Bachelor of Business Administration

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Wilfred J. Brennan</td>
<td>William Harvey Huffman</td>
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<tr>
<td>Ralph N. Calkins</td>
<td>Edward John Nelf</td>
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<tr>
<td>Jane B. Gray</td>
<td>John Thomas Reilly</td>
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<tr>
<td>Kay Reed Hafen</td>
<td>Oscar Shirley, Jr.</td>
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College of Engineering

Bachelor of Science in Civil Engineering

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>John Francis Behrens</td>
<td>Thomas G. Morris</td>
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<tr>
<td>Stuart M. Bowman</td>
<td>Thomas J. Nesbitt</td>
</tr>
<tr>
<td>Edward T. Cooney</td>
<td>Carl Arvid Olson</td>
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<tr>
<td>Charles W. Davidson</td>
<td>William L. Patterson</td>
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<tr>
<td>James Robert Dial</td>
<td>Harold Oliver Reeder</td>
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<tr>
<td>Fernando Frias Beltran G. Vern O. Grantham</td>
<td>W. E. Rice, Jr.</td>
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<tr>
<td>Omer David Hall</td>
<td>Albert Sandoval</td>
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<td>** Frank Edward Hawley</td>
<td>Henry Peter Schultz</td>
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<td>S. L. Lamprose</td>
<td>George Leonard Smith</td>
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<tr>
<td>Hansel Elnor Lee</td>
<td>Orland B. Thorpe, Jr.</td>
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<tr>
<td>John Paul Logan</td>
<td>Leon R. Thygesen</td>
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<td>Henry W. Longfellow</td>
<td>John J. Vandertulip</td>
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<tr>
<td>James C. McKee</td>
<td>** Aza C. Wilson</td>
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<tr>
<td>Walter Leonard Mertz</td>
<td>Robert L. Winkler</td>
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<td>Ralph C. Wylie</td>
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Bachelor of Science in Electrical Engineering

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<tr>
<th>Name</th>
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<tr>
<td>George A. Arnot, Jr.</td>
<td>Robert Irving Liebman</td>
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<tr>
<td>John H. Baisley</td>
<td>Arthur L. Morrow</td>
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<tr>
<td>Frank William Benke</td>
<td>Victor Vern Myers, Jr.</td>
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<tr>
<td>Jessie Howard Burns</td>
<td>Chester Edward Otis</td>
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<tr>
<td>Bliss Murdoch Bushman</td>
<td>** Winton Benard Pafford</td>
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<tr>
<td>Donald D. Campbell</td>
<td>Kenneth Powers</td>
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<tr>
<td>Hugo Crowder</td>
<td>Frank Onofre Sandoval</td>
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<tr>
<td>Max Alden Enseleit</td>
<td>John Terry Shelton</td>
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<td>Robert Thomas Finnell</td>
<td>Lester Lloyd Smith</td>
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<td>Allan Leon Gruber</td>
<td>William Burt Stinchcomb</td>
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<td>Elmer P. Harvey</td>
<td>Dean L. Thomas</td>
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<td>Samuel Albert Lewis</td>
<td>Kenneth Westlake</td>
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<td>Waldo E. Starr, Jr.</td>
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Bachelor of Science in Mechanical Engineering

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Robin David Adair, Jr.</td>
<td>Charles Bultzo</td>
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<tr>
<td>James Duane Anderson</td>
<td>Robert Boyd Bunker</td>
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<tr>
<td>John H. Baisley</td>
<td>George E. Carty</td>
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<tr>
<td>Edward Vail Balcomb</td>
<td>Joseph Ralph Chavez</td>
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<tr>
<td>Leland K. Baxter</td>
<td>William S. Cooke, Jr.</td>
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<tr>
<td>James Bryan Bell, Jr.</td>
<td>Robert Warner Corey</td>
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<tr>
<td>Peter Holmes Benedict</td>
<td>Earl William Crist, Jr.</td>
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<tr>
<td>John M. Brammer</td>
<td>Francis Edmond De Pauw</td>
</tr>
</tbody>
</table>

** With distinction

289
DEGREES AND AWARDS

George W. Dwyer
Alfred Victor Engel, Jr.
Leroy English
Arnold M. Erdal
John Charles Fasnacht
Nicholas A. Foran
Francis Marvin Fulton
Nathan E. Goode, Jr.
Clayton O. Griffith
Royce W. Griffith
Hugh James Hall, Jr.
William Aloysius Harrington, Jr.
Martha Jeanne Harris
Mary Joanne Hazard
George J. Hildebrandt
Sanford J. Holzweig
William F. Kalhorn
** Charles Ross Landers, Jr.
Jack D. Lineberry

David Mansfield Lyon
Rex E. McKay
Robert L. Martin
Jose Hector Murguia
Melvin Ray Murray
Bruce Herman Neuffer
Louis Joseph Previati, Jr.
Robert Chandler Prewitt
** Joseph M. Ralls
Wallace Lee Reed
Betty Padilla Ritter
Loren Arnold Schmidt
Loren Kenneth Schwab
Waldo E. Starr, Jr.
Gordon Sutherland
Samuel L. Sutherland, Jr.
John Alvin Voiler
Robert N. Whitley, Jr.
Clifford Whitney

William Lyon Wood

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

John F. Leverton

COLLEGE OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

NAME: MAJOR; MINOR; CURRICULUM
Frances Cowan Blair: History; Physical Education; High School
Robert Henry Brown: History; Biology; High School
Len E. Carter: Social Studies; ———; High School
Catherine Clarke: Dramatic Art; History; High School
Marcella Nancy Clayton: History; English, Latin; Elementary
Marian Virginia Cochran: Social Studies; ———; High School
Carl L. Cramer: Music Education; Psychology; High School
Patricia Denny: English; Anthropology; High School
Clyde William Dew: Social Studies; ———; High School
John James Doran: English; Music Education; High School
James F. Dugan: Social Studies; ———; High School
George F. Elam, Jr.: History; Psychology; High School
Helen N. Frazier: English; History; High School
Ernest D. Garcia: Social Studies; Spanish; High School
Bernice Gardner: Social Studies; ———; High School
Georgia Green: Music Education; English; Music Education
L. Elizabeth Griffin: History; English; High School
Barthold Robert Hake: Government; Psychology; High School
Carl N. Halama: History; Government; Elementary
Helen Greene Hall: Music Education; Economics; Music Education
Helen S. Halvorson: Social Studies; ———; High School
Jean Tindall Hughes: Art Education; ———; Art Education
** Francine Irving: English; Music Education; High School
Carolyn Johnston: English; Government; High School
Frankie Ann Laws: History; English; High School
Lois Lembke: Psychology; Music Education; High School
E. Elizabeth Jackson Lloyd: Social Studies; ———; High School
Julian L. McDonald: History; Physical Education; High School

** With distinction
DEGREES AND AWARDS

Ernest E. McGovern: Social Studies; High School
Rupert H. McHarney, Jr.: Art Education; Art Education
Mabel Lois Matthews: Art Education; Art Education
Lillian Michael: Sociology; Spanish; High School
Patricia Marie Miller: Spanish; English; High School
Ethel Jean Chandler Moore: Social Studies; Spanish, English; High School

With distinction

Delia Moya: Music Education; English; Elementary
Hope Kinzer Newhouse: Art Education; Art Education
Patricia Ostrander: English; Music Education; High School
Edward E. Ratzow, Jr.: History; Economics; High School
Sue K. Rives: Psychology; English; High School
Leonella Bertha Romero: Sociology; Psychology; Elementary
Mary Lovato Saavedra: Social Studies; Elementary
Diego R. Sedillo: Economics; Spanish; High School
Teresa Cecilia Sema: Spanish; Physical Education; High School
Mary Frances Shelton: Art Education; Art Education

With distinction

Warren Ayres Smart: History; Government; High School
Fred Madison Strait: Government; History; High School
Bettie Short Trotter: Music Education; Music Education
William L. Ullom: Social Studies; Physical Education; High School
Mary Velarde: Music Education; Spanish; Music Education
Bertha James Wright: English; History; Elementary
Monnie Ruth Wyatt: English; Biology; Elementary

BACHELOR OF SCIENCE IN EDUCATION

George Alvin Almes, Jr.: Mathematics; English; High School
Edith M. Ashton: Elementary Education; Elementary
Martha Lee Atkinson: Commercial Education; History; Commercial Education
David T. Barela: Elementary Education; Elementary
Theodora Erikson Cooper: Administrative & Superv.; Mathematics; Ad. & S.
Anna McCoach Davis: Adm. & Superv.; Music Education; Ad. & S.
Patricia Erdman: Elementary Education; Elementary
Bertha Evans: Adm. & Superv.; English; Ad. & S.
Mary S. Ford: Commercial Education; Sociology; Commercial Education
Richard E. Hedges: Commercial Education; English; Commercial Education
Betsy Lou Herrington: Biology; English; High School
Mary Ann Hodges: Home Economics; Home Economics
Owen Russell Hurst: Commercial Education; Naval Science; Comm. Ed.
Mary Sue Jaggers: Elementary Education; Elementary
Franklin Kimbel: Science; High School
Nellie S. Lizer: Adm. & Superv.; History; Ad. & S.
Mary Roehl McGuire: Adm. & Superv.; Anthropology; Ad. & S.
Mary Lois McVicar: Home Economics; Home Economics
Pauline Chicado Middleton: Biology; Physical Education; High School
Corinne Stevens Morris: Elementary Edu.; Elementary
Gerald J. Murphy: Commercial Educ.; Psychology; Commercial Education
Mildred Joan Norton: Elementary Edu.; Elementary
June Brewer Perovich: Elementary Edu.; Elementary
Helen Lorena Reed: Elementary Edu.; Elementary
Angelina Sanchez: Elementary Edu.; Elementary
Winifred Carol Stacher: Commercial Edu.; Home Ec.; Commercial Education
Frances M. Stallings: Commercial Edu.; English; Commercial Education
Elizabeth Rogers Thomas: Home Economics; Home Economics
Rebecca Clare Van Atta: Home Economics; Home Economics
Evelyn Bragg Woodford: Home Economics; Home Economics
Bertha Young: Elementary Edu.; Elementary

With distinction

291
DEGREES AND AWARDS

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Patsy Murphy Arvidson: Physical Educ.; ———; Physical Education
Bryan J. Brock: Physical Educ.; ———; Physical Education
C. Rudy Camunez: Physical Educ.; ———; Physical Education
Rutilio C. Cordova: Physical Educ.; ———; Physical Education
Lowell C. Cozzens: Physical Educ.; ———; Physical Education
Louis C. Cullen: Physical Educ.; ———; Physical Education
Kenneth H. Freberg: Physical Educ.; History; Physical Education
Herman Gallegos: Physical Educ.; ———; Physical Education
Margaret Evelyn Glasebrook: Physical Educ.; English; Physical Education
Ruth Marylyn Glasebrook: Physical Educ.; English; Physical Education
Robert C. Groman: Physical Educ.; English; Physical Education
Evelyn Alberta Hight: Physical Educ.; ———; Physical Education
Bernard M. Honan: Physical Educ.; ———; Physical Education
George C. Hughes: Physical Educ.; ———; Physical Education
Billie Verne Lowance: Physical Educ.; ———; Physical Education
B. A. McIntyre: Physical Educ.; ———; Physical Education
Manuel G. Saenz: Physical Educ.; Biology; Physical Education
** Gretchen Sammis: Physical Educ.; ———; Physical Education
William C. Sheppard: Physical Educ.; ———; Physical Education
Walter Arthur Wilson: Physical Educ.; ———; Physical Education

COLLEGE OF FINE ARTS

BACHELOR OF FINE ARTS (PAINTING AND DESIGN)

Barbara Jane Bailey
John L. Boylan
Elizabeth Belle Chapman
James Carlton Cook
Eva-Lou Edwards
** Herbert Goldman
Mary Janet Hill
Paul C. House
** Louis Dale Kaiser

Jeanne Kellogg
Irene Fee Lighton
Caryl McHarney
Hazel V. Morley
** James Richard Robertson
** Ethel Ross
William Peter Walker
Sarah Elizabeth Young

BACHELOR OF FINE ARTS IN DRAMATIC ART

Thalia Tachias
Marjorie Helen Tormoehlen
Norma Lois Tormoehlen

BACHELOR OF FINE ARTS IN MUSIC

Owen G. Bennett
** Donald McRae

Shirley Jarrett
Betty Wallace

COLLEGE OF BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

NAME: CONCENTRATION
David K. Alexander: General Business /
Edward Harold Ball, Jr.: Management

** With distinction
NAME: CONCENTRATION
Melvin E. Boehner: Accounting
Robert C. Boule: General Business
** Harold L. Brint: Finance
Billy N. Brown: Marketing
George M. Brown: Accounting
Barry S. Cook: General Business
Simon Ignatius Degulis: General Business
Daniel Ely: Accounting
Leonard P. Glasebrook: Accounting
Edwin Byron Goff: Accounting
George Grande: General Business
James H. Green: General Business
Geraldine Greene: Accounting
John I. Gregg: General Business
Malcolm H. Groll: Accounting
James Coplen Hall: General Business
Marvin E. Heseman: Accounting
Paul Frederick Kraemer: Accounting
Stanley Landrith: Accounting
John P. Logan: Management
Paul Graham McHenry, Jr.: Accounting
Francis S. Manda: General Business
Charles S. Marshall: Management
Gordon D. Martel: General Business
Jack R. Martin: General Business
Orlando Juan Martinez: Accounting
Robert Elias Michael: General Business
Richard Demille Nelson: General Business
Gene M. Nielsen: Accounting
Ulric B. Patrick: Accounting
John S. Perovich: Accounting
Arthur Whitney Porter: Accounting
Francis William Power: General Business
Albert F. H. Priebe: General Business
Gerald Collins Ratcliff, Jr.: General Business
William S. Reed: Accounting
Robert E. Rhien: General Business
Joe B. Rice: Marketing
James Matteson Robertson: Finance
Wayne R. Rogers: General Business
** William M. Ross: General Business
Francis Louis Schreiber: General Business
Glen T. Simpson: General Business
Robert A. Simpson: General Business
Sam Erwin Stapley: General Business
Tom P. Stephens: Accounting
Whitney Brayton Sullivan: General Business
Frank Crowther Teal: General Business
Richard Dale Thomas: General Business
June Sanford Tidenberg: General Business
James B. Trotter: Accounting
Reinaldo M. Valdez: Accounting
Ruben Vigil: General Business
Gerald M. Washburn: Accounting
James A. Willis: General Business
** With distinction

293
DEGREES AND AWARDS

GRADUATE SCHOOL

MASTER OF ARTS

NAME: MAJOR
W. Glenn Allison: Education Administration
Dorice Elva Ames: Psychology
Eleanor J. Beck: Education Administration
David T. Benedetti: Psychology
Jennifer Chatfield: Anthropology
Floyd M. Christ: English
Jean Maxine Cohen: Inter-American Affairs
Sister Sarita Cordova: Spanish
Douglas Gilbert Denniston: Painting and Design
Lois A. Dittmer: Education Administration
Laird J. Dunbar: Government
Gresham A. Elkins: English
Rose Mary Evans: Painting and Design
Cyrus L. Fairless, Jr.: Economics and Business Administration
Ruth Jane Freeman: History
Orville C. Fuqua: Economics and Business Administration
Frank Edmund Graham: Education Administration
Helen R. Haight: English
Thelma Loudon Hayes: Education Administration
John William Hood: History
Esther C. Hossmann: Elementary Education
Irra Yarborough Johnson: Sociology
Pat Emory Kilburn: English
James Lewis Lacour: English
Kenneth Lash: English
Peter John Lunardini: Spanish
Cecil Morgan McKinley: Elementary Education
Alfred J. Mateczun: Education Administration
George Victor Mather: English
Jeanette Clarke Miller: Education Administration
Bernalillo Moore: English
William Carl Nolan: Government
Espiririon Otero: Education Administration
Elizabethann Peters: Economics
Bernice Ann Rebord: History
Vorley Michael Rexroad: Government
William D. Reyburn: Spanish
Gertrude M. Richards: English
Benedicto D. Sandoval: Spanish
Flora Sarinopoulos: Spanish
David H. Sebastian: Education Administration
Doris Bledsoe Sherman: Education Administration
Howard M. Shlefstein: Economics and Business Administration
Floyd W. Snyder: History
Dee D. Sturges: Economics and Business Administration
Maud Gilchrist Summers: Art Education
Howard Charles Taylor: History
Rudolph A. Terrazas: Secondary Education
Sophie Rodriguez Waldrip: Spanish
Albert Vance Wilson: Spanish

MASTER OF SCIENCE

Edward Campbell Beaumont: Geology
Roy Ellsworth Burris, Jr.: Mechanical Engineering
Carl F. Cramer: Biology
DEGREES AND AWARDS

Ross Byron Johnson: Geology
William Gus Koulas: Civil Engineering
Frederick Hilbert Martens: Physics
Leon Theodore Silver: Geology
Gene Sumrell: Chemistry
William Richard Widner: Biology

DOCTOR OF PHILOSOPHY

John Joseph Adair: Anthropology
Harold Sinclair Snellgrove: History

HONORARY DEGREE

NAME: DEGREE
J. Anton deHaas: Doctor of Laws

TWO YEAR CERTIFICATES AND DIPLOMAS

CERTIFICATE OF SECRETARY-INTERPRETER WITH SPECIALIZATION IN INTER-AMERICAN AFFAIRS

Jacqueline Meyers

GENERAL COLLEGE DIPLOMAS (Two-year Course)

Mary Irene Greer  Natalie Gudz  Billye Jo Williamson

AWARDS AND SCHOLARSHIPS, 1948-49

Albuquerque Lions Club Scholarship for the Sight Handicapped—Miss Mary Velarde, Mr. Delfino Varela
The Association of University Women Scholarship—Miss Diana Hinman
Philo S. Bennet Scholarship—Miss Suzanne Hernandez
Clarence Milton Botts, Jr. Memorial Scholarship—Mr. David Nolting
James M. Deolittle Scholarship—Miss Frances Craig
The Faculty Women’s Club Scholarship—Miss Tess Kersting, Miss Marjorie Miner
The Alfred Grunsfeld Memorial Scholarships—1947-48, semester I, Mr. Gordon Kenyon; semester II, Mr. John D. Mafit, Mr. Oliver E. Payne; 1948-49—Mr. John D. Mafit, Mr. Oliver E. Payne
The Miriam N. Grunsfeld Scholarships—Miss Jeanne Bornstein, Miss Helen Marie John
The Intermountain Broadcasting Company Scholarship in Music—1947-48—Mr. Stanley Strassman; 1948-49—Mr. William Mitchell
The Intermountain Broadcasting Company Scholarship in Journalism—1947-48—Mr. Henry Trehwitt, Mr. Harold F. Mullen; 1948-49—Mr. Joseph Giannettino
The Ives Memorial Scholarships—Miss Delores Heath, Miss Marjorie Causland, Miss Betty Lou Grogan
Kappa Kappa Gamma Memorial Scholarship—Miss Betty Padilla
The Frederick Herbert Kent and Christina Kent Scholarships—Miss Carolyn Darden, Miss Barbara Easter, Mr. Robert R. Neal
The Robert W. Korber Memorial Scholarship—Mr. Charles Hill
The Newman Club Scholarship—Miss Mary Fay Hauserman
The Phratere Club Tuition Scholarship—Miss Jacqueline Meyers
The Spur Sophomore Scholarship—Miss Mary Etta Bell
20-30 Club Scholarships—Mr. John Archibeque, Mr. Paul W. Baez, Mr. James H. Foley, Mr. Donald R. Fowler, Mr. Barthold Hake, Mr. Eugene T. Koury, Mr. John D. Mafit, Mr. Keen Rafferty, Jr.
DEGREES AND AWARDS

The Thomas M. Wilkerson Memorial Scholarship—Mr. Gilbert Gutierrez
Alpha Delta Pi Prize—Miss Irene Betzer
George E. Breece Prize in Engineering—Mr. Charles Ross Landers, Jr.
The Chi Omega Prize in Economics—Miss Roberta Young
The Charles Florus Coan Prize—Miss Anne Johnson
The Marian Coons Kindness Prize—Miss Mary Lois McVicar
The Harry L. Dougherty Memorial Prize in Engineering—Mr. Jack W. Hailer
The Charles Le Roy Gibson Prize—Mr. Brice Evans
The Telfair Hendon, Jr. Memorial Prize—Mr. George Victor Mather
The William A. McCarthy Prize—Mr. John W. Hood
The Marcella Reidy Mulcahy Memorial Prize—Mr. Mauro Montoya;
   Honorable mention: Mr. Edward Abbey, Mr. Sherman Miller Stanage
The New Mexico Section of the American Society of Civil Engineers Award—Mr. Charles W. Davidson
Phi Kappa Phi Prizes for Freshmen—Miss Jeanne Bornstein, Mr. Jack William Hailer, Mr. David Nolting, Mr. Frederick William Fuller
Phi Kappa Phi Senior Prize—Mr. Donald McRae
Rose Rudin Roosa Prize—Mr. Robert D. Taichert
The George St. Clair Memorial Prize—Miss Thalia Tachias
The Katherine Mather Simms Memorial Prize—Miss Frances Reno;
   Honorable Mention: Miss Dorothy Durick, Mr. V. L. Stewart, Jr., Mr. Dewey Maltsberger, Mr. Robert J. Smith, Mr. Ernest Candelaria
Thunderbird Award—Mr. Starr Jenkins
The Lenna M. Todd Memorial Prize—Mr. Edgar Warren Smith, Jr., Mr. Milton Goldberg, Mr. Starr Jenkins, Mr. Mauro A. Montoya, Mr. Harold F. Mullen
English Department Faculty Poetry Award—Mr. Hugh McGovern, Miss Frances Reno, Mr. Matt Phillips, Mr. L. B. Wallerstein
Alpha Kappa Psi Scholarship Key in Business Administration—Mr. William M. Ross
The C. T. French Medal—Mr. Frank L. Baird, Jr.
The Phi Sigma Medal in Biology—Mr. Justin Reinhart
The Arthur Bibo Grant for Research in Anthropology—Mr. Alfred E. Dittert, Mr. Reynold Ruppe, Mr. Harold Amoss
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:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<td>Arts &amp; Science</td>
<td>0-28</td>
<td>29-60</td>
<td>61-94</td>
<td>95-</td>
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<tr>
<td>Business Adm.</td>
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<td>29-60</td>
<td>61-94</td>
<td>95-</td>
</tr>
<tr>
<td>Education</td>
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<td>33-65</td>
<td>66-102</td>
<td>103-</td>
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<td>33-65</td>
<td>66-102</td>
<td>103-</td>
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<tr>
<td>Pharmacy</td>
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<td>33-65</td>
<td>66-102</td>
<td>103-</td>
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<td>General</td>
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STATISTICS FOR 1948-49

<table>
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<tr>
<th>Period</th>
<th>Men</th>
<th>Women</th>
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<td>1141</td>
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<td>Semester II, 1948-49</td>
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<td>Field Sessions, 1948</td>
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<td>86</td>
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<td>*Correspondence courses</td>
<td>80</td>
<td>160</td>
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<tr>
<td>*Extension courses</td>
<td>35</td>
<td>167</td>
<td>202</td>
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</table>

* For the period March 1, 1947 to February 29, 1948.

297
INDEX

Absences, 79
Accompanying fee, 47
Accounting, see Business Administration
Accounting concentration, 253
Accounts, student, 48
Accreditation, University, 26; Engineering, 26; Pharmacy, 242
Activities, see Student Organizations, and Teachers
Activities fee, 46, 48
Administration and Supervision, see School Administration
Administrative officers and officers, 9
Admission, general regulations, 38; of Auditors, 42; of Freshmen, 38; of Specials, 42, 273; of Transfers, 42; of Veterans, 42; to General College, 261; to Graduate School, 282; to Law, 270; to Pharmacy, 242; to Secretary-Interpreter's Course, 266; to Post-Graduate Course in Inter-American Relations, 99; with deficiencies, 40
Adult education, see Extension Division
Advance deposit, 46, 49, 50
Advanced standing, admission with, 40; examinations for, 79; evaluation fee, 41, 47; in Pharmacy, 243; in Law, 274
Advisers, 54
Aeronautical engineering, 173, 174
Aid, student, 62
Alumni Association, 61
Alumnus magazine, 61
Anthropology, department of, 100; field sessions, 285; museum of, 30
Application for admission, 38; forms at back of catalog
Archaeology, see Anthropology
Architectural Engineering, department of, 156
Art, department of, 217; curriculum in General College, 262; field session, 217, 285
Art Education, department of, 190
Arts and Sciences, College of, 84; admission to, 38; classifications in, 297; degrees conferred, 1948, 286; departments of instruction, 100; scholastic regulations, 76; School of Inter-American Affairs, 90
Assemblies, 80
Assistantships, 283
Astronomy, see Mathematics and Astronomy
Athletic coaching, curriculum in, 208
Athletics, 61
Attendance, assembly, 80; class, 79; Freshman Program, 54
Auditors, 42; fees, 46
Awards, 64, 295
Bachelor's degree, see Degrees
Biology, department of, 104
Board and room, see Housing
Botany, see Biology
Building fee, 46
Buildings, 28, 270; (campus map at front of catalog)
Bureau of Business Research, 31
Business, curricula, 252, 263, 265
Business Administration, College of, 249; admission to, 38; classifications in, 297; courses offered, 254; degrees conferred, 1948, 292; scholastic regulations, 76, 259
Business Administration, minor in Arts and Sciences, 109
Business Research, Bureau of, 31
Calendar, 4
Campus and buildings, 28, 270; (campus map at front of catalog)
Certificate, admission by, 38
Certificate, Secretary-Interpreters, 267, 269
Certification of teachers, 182, 214
Change, in address, 76; in college, 76; in grade, 74; in program of studies, 75, and fee, 47
Chemical Engineering, department of, 158
Chemistry, department of, 109; pharmaceutical, 247
Churches, see Religious activities
Civil Engineering, department of, 162
Class hours, see Credit hours
Classics, 112
Classification of courses, 100
Classification of students, 297
Clerical curriculum, 269
College, change in, see Change
Colleges of the University, see Arts and Sciences, Business Administration,
INDEX

Education, Engineering, Fine Arts, General College, Graduate School, Law, Pharmacy
Commencement, 82; excuse from, 82
Commercial work, curricula, 192, 253, 263, 265
Contingency fee, 46, 48
Correspondence courses, see Extension and correspondence courses
Counseling and Testing Services, 54
Course numbering system, 100
Courses offered, see Departments of instruction
Courses required for degrees, 80
Credentials, 38
Credit hours, 73, 218, 228
Curricula, see Colleges, and Departments of instruction
Degree requirements, see Requirements
Degrees, conferred, 1948, 286; offered, 84, 91, 154, 185, 214, 244, 256, 274, 282; with distinction, 82; with honors, 82; see also Requirements, degrees
Dentistry, see Pre-dentistry
Departments of instruction, 100, 156, 188, 216, 245, 254, 276, 284
Dietetics, 87, 198
Dining hall, see Housing
Diplomas, fees, 47; General College, 262, 295
Director of Religious Work, 60
Dismissal, honorable, 75
Dispensary, 57
Distinction, degree with, 82
Distributive education, 202
Dividends, 81
Division of Health, 204
Division of Industrial Arts, 177
Division of Journalism, 120
Division of Research and Development, 32
Division of Research of the Department of Government, 92
Division of Speech, 122
Division of Veterans Affairs, 55
Doctor of Philosophy, 282; conferred, 1948, 295
Dormitories, see Housing
Dramatic Art, department of, 225
Economics, department of, 113; see also Business Administration
Education, College of, 182; admission to, 38, 183; classifications in, 297; degrees conferred, 1948, 290; departments of instruction, 188; scholastic regulations, 76, 77
Education Placement Bureau, 184
Educational administration, see School administration
Educational Psychology, department of, 192
Electives, in Arts and Sciences, 86; in Business Administration, 253; in Inter-American Affairs, 93
Electrical Engineering, department of, 168
Elementary Education, department of, 193
Employment, student, 56, 62
Engineering, College of, 154; admission to, 38; classifications in, 297; combined curricula, 87, 154; degrees conferred, 1948, 289; departments of instruction, 156; Experiment Station, 33; minor in, 126; scholastic regulations, 76
Engineering Experiment Station, 33
English, department of, 115; Division of Journalism, 120; Division of Speech, 122; group requirements in, 85, 115, 187, 251; placement test, 115; proficiency examination, 85, 187, 251; required for admission, 39
Enrollment, see Registration
Enrollment statistics, 297
Entrance, see Admission
Equitation, see Riding
Evaluation fee, 41
Examinations, 78; advanced standing, 79; entrance, 38, 40, 41, 44, 54, 78; fees, 47; Graduate Record, 82; medical, 44, 57; National Teachers, 82; placebo, 54, 135; psychological, 41, 54, special, 78
Exhibitions, 30
Expenses, 46; estimate of, 48
Experiment Station, Engineering, 53
Extension and correspondence courses, 82; addition of, 76; transferred credit in, 41, 82, 282
Extension Division, 285
Extra-curricular activities, see Student organizations, and Teachers
Faculty, directories, 9; see also Departments of instruction
Finance concentration, 253
Financial support of the University, 28
Field sessions, 285; see also Calendar
Fine Arts, College of, 214; admission to, 98; classifications in, 297; degrees conferred, 1948, 290; departments of instruction, 216; gallery, 30
Folklore, 142
Foreign language, group requirements in, 86, 187; substitution for, 187; see also Classics, French, German, Italian, Modern Languages, Portuguese, Spanish
Forensics, 123
Forestry, see Preforestry
Fraternities, honorary, 59; social, 60
French, 138
Freshmen, admission of, 38
Freshman program, 54
Freshmen tests, 38, 54
G. E. D. tests, 44, 55
G. I. Bill, see Veterans
General business concentration, 252
General College, 261; admission to, 38, 261; classifications in, 297; diplomas awarded, 1948, 295; scholastic regulations, 76, 77; status, 74
General education, 189
General Educational Development Tests, 44, 55
General engineering, 172
General Placement Bureau, 56
Geography, 125
Geology, department of, 125; museum of, 30
German, 139
Golf, 205
Government and Citizenship, department of, 129; Division of Research, 92
Government of the University, 28
Grade-points, 73
Grade reports, 74
Grades, 73; change in, 44
Graduate Record Examination, 82; fee, 47
Graduate School, 282; assistants, list of, 23; course numbering in, 100; degrees conferred, 1948, 294; diploma fee, 47; fees and tuition, 46; publication fee, 47
Graduation, 80; diploma fees, 47; with distinction, 82; with honors, 82; see also Degrees, and Requirements
Graduation exercises, see Commencement
Greek, see Classics
Group requirements, 85, 187, 251; see also Departments of instruction
Guidance, 54, 56
Health, Division of, 204; curricula, 206, 207
Health education, minor in, 208
Health Service, 57; fee for, 48; medical examinations, 44, 57
High school teachers curriculum, see Secondary education
High schools, admission from, 38; State-wide tests, 64; units, 99
History, department of, 131
History of the University, 26
Home Economics, department of, 195; in Arts and Sciences, 135; in General College, 263
Home making, 263
Honorable dismissal, 75
Honorary degrees conferred, 1948, 295
Honorary organizations, 59
Honors, graduation with, 82
Honors work, 82
Housing, advance deposit, 46, 49, 50; application for, 49, 50 (form at back of Catalog); board, 50; payments, 52; rates, 51, 52; refunds, 53; regulations, 58
Incomplete, grade of, 73
Index, scholarship, 74
Industrial administration concentration, 254
Industrial Arts, Division of, 177; curriculum in Education, 198; in General College, 263
Infirmary, 57
Institute of Meteoritics, 33
Inter-American Affairs, School of, 90; scholarships, 91
Inter-American relations, post-graduate course in, 98
Italian, 139
Journalism, Division of, 120
Laboratories, in Education, 184; in Engineering, 156, 159, 162, 168, 177; phonetics, 137; Speech, 122
Languages, see Classics, and Modern Languages
Late registration, 44; fee, 46
Latin, see Classics
Latin-American, see Inter-American
Law, College of, 268; courses offered, 276; library, 29, 270
Library, 28; fee, 46; law, 29, 270; staff, 22
Library Science, department of, 134
Loan funds, 62
Lobo, 61
Lower division, 84; course numbering in, 100
Major and minor studies, 85, 185, 215; residence requirements in, 81; see also Departments of instruction
Marine Corps, see Naval R. O. T. C.

INDEX

301
INDEX

Marketing concentration, 254
Marketing system, 75
Master's degree, 282; conferred, 1948, 294; in Inter-American Affairs, 97
Mathematics, department of, 134; group requirements in, 86, 188, 251; required for admission, 59
Matriculation fee, 46
Mechanical Engineering, department of, 172; Division of Industrial Arts, 177
Medals, 72; awarded, 1948, 296
Medical examinations, see Examinations
Medical technology, 88
Medicine, see Premedicine
Meteoritics, Institute of, 33
Military training, 26; see also Naval R. O. T. C.
Minor studies, see Major and minor studies
Mirage, 61
Modern Languages and Literatures, department of, 137; phonetics laboratory, 137
Murals, 30
Museums, 30
Music, department of, 227; curricula in, 199, 228, 263; instruction fees, 47; scholarships, 65
Music education, 199
National Teachers Examination, 82
Naval R. O. T. C., 26, 284; curriculum in Arts and Sciences, 89; in Engineering, 154, 180
Naval Science and Tactics, 284; degree in, 84, 89, 154, 180; department of, 284
New Mexico State-wide Test of Academic Achievement, 64
New Mexico Vocational Rehabilitation Service, 63
Non-resident tuition, 46, 47
Numbering of courses, 100
Occupational therapy, see Preoccupational therapy
Office management, see Secretarial-office management
Optometry, see Pre-optometry
Orchestra, see Music
Organ, see Music
Organizations, student, 58
Orientation, 54
Painting and design, see Art
Penalties and dividends, 81
Personnel services, 54
Petroleum engineering, 173, 174
Ph.D., 282; conferred, 1948, 294
Pharmaceutical chemistry, 247
Pharmacognosy, 248
Pharmacology, 248
Pharmacy, College of, 242; admission to, 38, 243; classifications in, 297; departments of instruction, 245
Philosophy, department of, 143
Phonetics laboratory, 137
Photography, 222, 223
Physical Education, division of, 204; exemption from, 80, 204; fees, 205; required, 80, 204
Physical examinations, see Examinations, medical
Physics, department of, 144
Piano, see Music
Piano ensemble, fee, 47
Placement Bureau, Education, 184; General, 56
Placement tests, 54, 135
Political science, see Government
Portuguese, 139
Post-Graduate course in Inter-American Relations, 98
Practice teaching, 184
Predentistry, 264
Preforestry, 264
Prelaw, 264, 272
Premedicine, 264
Pre-occupational therapy, 215
Pre-optometry, 265
Pre-professional curricula, 215, 264
Prizes, 69
Probation, 76, 77
Professional organizations, 59
Program of studies, change in, 75, and fee, 47
Psychological examination, see Examinations
Psychology, department of, 148; Educational, department of, 192
Public speaking, see English, Speech
Publications, student, 61
Readmission, housing, 50
Recreation, division of, 204
Recreation leadership, 208
Recreational facilities, 37
Refunds, 48, 50, 53
Regents of the University, 8, 28
Registration, 44; changes in, 75; fees, 46; late registration, 44, 46
Regulations, attendance, 54, 79, 80; general academic, 73; housing, 49, 58; scholastic, 76, 250
Rehabilitation, vocational, 63
Religious activities, 60
Reports, grade, 74
INDEX

State-wide Test, 64
Statistics, enrollment, 297
Student accounts, 48
Student activities, see Student organizations
Student activities fee, 46, 48
Student aid, 62
Student bond fee, 46
Student Council, 59
Student employment, 56, 62
Student loans, 62
Student organizations, 58
Student publications, 61
Student Senate, 59
Summer session, 285; see also Calendar
Support of the University, 28
Suspension, 76, 77

Taos, School of Art, 217; see also Calendar
Teachers, certification, 182, 214; extracurricular activities, 183; placement bureau, 184
Teaching assistants, list of, 22
Testing services, 54
Tests, see Examinations
Tests, G. E. D., 44, 55
Thesis, binding fee, 47
Thunderbird, 61
Transcripts, 74; see also Credentials
Transfer from General College, 262
Transferring students, 40
Tuition, 47
Typewriting, see Business Administration

Unclassified students, 42
Unit, high school, 39
Upper division, 85; course numbering in, 100

Veterans, admission of, 43; guidance, counseling, and testing, 55, 56
Veterans Administration Guidance Center, 56
Veterans Affairs, Division of, 55
Vocal coaching, fee, 47
Vocational courses, see General College
Vocational rehabilitation, 63
Voice, see Music

War credits, 43
Wind instruments, see Music
Withdrawal, from a course, 75; from the University, 48, 75

Zoology, see Biology

Requirements, admission, 38; degree, 60, 84, 86, 92, 155, 185, 214, 244, 251, 274; group, 85, 187, 251; physical education, 80, 204; residence, 81
Research activities, 31
Research and Development, Division of, 32
Residence requirements, 81; in Business Administration, 251; in Law, 271; in major and minor studies, 81; in Pharmacy, 243
Resident, tuition, 46
Residential halls, see Housing
Riding, 205; fees, 47
Romance languages, see Modern Languages
Room and board, see Housing
Room regulations, 58
Room reservation, see Housing
R. O. T. C., see Naval R. O. T. C.

Scholarship, index, 74; regulations, 76, 250
Scholarships, 64, 295; in music, 65; in Inter-American Affairs, 91; in Pharmacy, 243
Scholastic status, 74
School Administration, department of, 200
School of Inter-American Affairs, see Inter-American Affairs
Science, group requirements in, 86, 188, 251; major in, 186; required for admission, 39
Secondary Education, department of, 201; majors and minors, 185
Secretarial course, 265; curricula, 253, 265
Secretarial-office management concentration, 253
Secretary-Interpreters course, 265
Semester hours, see Credit hours
Senior residence requirements, 81
Service organizations, 59
Shop, see Industrial Arts
Shorthand, see Business Administration
Situation of the University, 26
Social sciences, group requirements in, 86, 188, 251; major in, 186; required for admission, 39
Social studies, see Social sciences
Social Work Training program, 89
Societies, 59
Sociology, department of, 151
Sororities, social, 60
Spanish, 140
Special students, 42, 273
Speech, Division of, 122
UNIVERSITY OF NEW MEXICO
COLLEGE OF LAW
APPLICATION FOR ADMISSION
(For College of Law applicants only)

Name
Local Address
Veteran? Date of Birth
Name of Parents
Address of Parents
Maiden Name of Wife (Write in "None" if unmarried)
Number of Children Are you a resident of this State, and if so, for how long?
Record of Prelegal Work:

<table>
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<tr>
<th>All Colleges or Universities You Have Attended</th>
<th>Inclusive Dates</th>
<th>Grade Average</th>
<th>Total Hours*</th>
</tr>
</thead>
</table>

*If a degree was received, please note the same under "Total Hours."

List type, place and date of activities since high school other than attendance at college, and military service

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 an application pending for admission to any other law school?

Has an application for admission to another law school been denied for reason other than quota filled or non-residence?

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 completely filled in and mailed to the Director of Admissions, University of New Mexico, Albuquerque, New Mexico)

Applicants under scholarship suspension are not eligible for admission until their period of suspension has been terminated.

Name ________________________________________ (Check) Mr. Miss (Last) (First) (Middle) Mrs.

Permanent Address ________________________________________________________________

Present Address if Different from Permanent Address __________________________________

Age Date of Birth 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? _______________

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 _______________________________________________________________________________________

Did you graduate? ______________ Date of Graduation ________________

Location of high school __________________ City __________________ State ________

If not a high school graduate, have you taken the USAFI G. E. D. 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? __________________________________________

(Over)

† Law applicants file also “College of Law Application for Admission.”
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)

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? ______________ No application will be acted upon until all necessary transcripts have been received.

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. 41 of Catalog)

__________________________________________________________

I certify that the above information is correct. Dated: ______________________

Signed: ____________________________ (Applicant's usual signature)

* Non-refundable.
THE UNIVERSITY OF NEW MEXICO

APPLICATION FOR WOMEN'S HOUSING

If you need University housing in a women's residential hall, please fill out this blank and return it to the Admissions office with your application for admission:

NAME ..............................................................
PERMANENT ADDRESS ...........................................

DATE OF BIRTH ..................................................
Month Day Year

CLASSIFICATION: Freshman ..................
Sophomore ............... Junior ............ Senior ........

Please check type of room desired, giving 1st, 2nd, and 3rd choices:

HOKONA HALL (North and South Halls) Per Semester
--- Single rooms $273.00
--- Double rooms, per person 261.00
--- 3 or 4 to a 3-room suite, per person 255.00
   (Center Hall)
--- Single rooms 264.00
--- 3 or 4 to a 3-room suite, per person 246.00

MARRON HALL
--- Single rooms 273.00
--- Double rooms, per person 261.00

BANDELIER HALL
--- Double rooms, per person 261.00
--- 3 or 4 to a room, per person 252.00

DORMITORY D
--- Single rooms 273.00

All students occupying rooms in residential halls 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. These rates are subject to change whenever necessary to defray operating costs.
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.