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The University of New Mexico

B U L L E T I N

Forty-ninth Annual Catalog 1939-40

Announcements 1940-1941

Published by the University
of New Mexico - Albuquerque

Ray Hulick

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The University of New Mexico
Bulletin



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1940-1941

THE UNIVERSITY OF NEW MEXICO BULLETIN

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CALENDAR OF THE UNIVERSITY

SUMMER SESSIONS, 1940

Campus Session

June	4	Tuesday	Registration, 8:00-12:00, 1:00-5:00
June	5	Wednesday	Instruction begins at 7:00 a. m.
June	8	Saturday	Last day for change in program of studies without charge.
July	4	Thursday	Independence Day, holiday
July	27	Saturday	Session ends

Field Sessions

June	10	Monday-	Field School of Art at Taos. Registration at Taos
Aug.	3	Saturday	
Aug.	5	Monday-	Field School of Indian Art at Santa Fe. Regis-
Aug.	31	Saturday	tration at Santa Fe
Aug.	3	Saturday-	General Field Session in Anthropology, Battle-
Aug.	31	Saturday	ship Rock, Jemez Canyon. Registration at
			Department of Anthropology, University
			campus. Advanced Field Session in Anthro-
			pology, Chaco Canyon. Registration at Chaco.
Aug.	24	Saturday-	Engineering Field Session, Battleship Rock,
Sept.	7	Saturday	Jemez Canyon. Registration on University
			campus morning of August 24

REGULAR SESSION

Semester I, 1940-41

Sept.	4	Wednesday	Residence halls open for Freshmen, 1:00 p. m.
Sept.	5	Thursday	Dining Hall opens for Freshmen, 7:30 a. m. Freshman Week begins at 8:00 a. m.
Sept.	7	Saturday	Entrance examinations for students deficient in entrance units
Sept.	8	Sunday	Residence halls open for upperclassmen, 1 p. m.
Sept.	9	Monday	Dining Hall opens for upperclassmen, 7:30 a. m. Registration: Freshmen, 8:00-12:00; Sophomores, 1:00-5:00
Sept.	10	Tuesday	Registration: upperclassmen and others, 8:00-5:00; night students, 7:30-9:00 p. m.
Sept.	11	Wednesday	Instruction begins at 8:00 a. m.
Sept.	21	Saturday	Last day for change in program of studies without charge
Oct.	12	Saturday	End of fifth week; last day for registration or addition of new course to program of studies
Nov.	9	Saturday	End of ninth week—mid-semester
Nov.	28	Thursday	Thanksgiving Day, holiday
Nov.	30	Saturday	End of twelfth week; last day for removal of Incomplete grades

Dec.	21	Saturday	Christmas recess begins at noon
Jan.	6	Monday	Instruction resumed at 8:00 a. m.
Jan.	8	Wed'day-	Closed Season
Jan	14	Tuesday	
Jan.	15	Wed'day-	Semester final examinations.
Jan.	22	Wed'day	
Jan.	24	Friday	Semester ends at 5:00 p. m.

Semester II, 1940-41

Jan.	25	Saturday	Tests and instructions for new students, Lecture Hall, 9:00 a. m. Entrance examinations for students deficient in entrance units
Jan.	27	Monday	Registration: Freshmen, 8:00-12:00; Sophomores, 1:00-5:00
Jan.	28	Tuesday	Registration upperclassmen and others, 8:00-5:00; night students, 7:30-9:00 p. m.
Jan.	29	Wednesday	Instruction begins at 8:00 a. m.
Feb.	8	Saturday	Last day for change in program of studies without charge
Mar.	1	Saturday	End of fifth week; last day for registration or addition of new course to program of studies
Mar.	2	Sunday	University Memorial Day
Mar.	29	Saturday	End of ninth week—mid-semester
Apr.	9	Wednesday	Easter recess begins at 9:00 p. m.
Apr.	14	Monday	Instruction resumed at 8:00 a. m.
April	19	Saturday	End of twelfth week; last day for removal of incomplete grades
May	14	Wed'day-	Closed season
May	20	Tuesday	
May	21	Wed'day-	Semester final examinations
May	28	Wed'day	
May	30	Friday	Memorial Day, holiday
May	31	Saturday	Semester ends at 5:00 p. m.
June	1	Sunday	Baccalaureate services
June	2	Monday	Commencement exercises

SUMMER SESSION, 1941

Campus Session

June	9	Monday	Registration, 8:00-5:00
June	10	Tuesday	Instruction begins at 7:00 a. m.
June	14	Saturday	Last day for change in program of studies without charge
June	21	Saturday	End of second week; last day for registration or addition of new course to program of studies (except for Education workshop courses)
July	4	Friday	Independence Day, holiday
Aug.	2	Saturday	Session ends

Note: Special exercises are held on November 11 and February 22, but no holiday is given.

For special information concerning field sessions, write head of department concerned, care of University of New Mexico.

THE REGENTS
of
THE UNIVERSITY OF NEW MEXICO

THE HONORABLE JOHN E. MILES, *Governor of
New Mexico, ex-officio* ----- Santa Fe
MRS. GRACE J. CORRIGAN, *State Superintendent
of Public Instruction of New Mexico,*
ex-officio ----- Santa Fe
SAM G. BRATTON, *President* ----- Albuquerque
JACK KORBER, *Vice-President* ----- Albuquerque
MRS. JOHN MILNE, *Secretary and Treasurer* --- Albuquerque
ADOLFO C. GONZALES ----- Albuquerque
MRS. FLOYD W. LEE ----- San Mateo

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JAY C. KNODE, Ph.D., Dean, College of Arts and Sciences, and Dean,
General College
MARSHALL ELMER FARRIS, M.S. in M.E., Dean, College of Engineering
SIMON PETER NANNINGA, Ph.D., Dean, College of Education, and Di-
rector, Summer Session
WILLIAM MCLEISH DUNBAR, B.Arch., Dean, College of Fine Arts
GEORGE ST. CLAIR, Ph.D., Dean Emeritus, College of Fine Arts
LENA CECILE CLAUVE, M.A., Dean of Women
JABEZ LELAND BOSTWICK, M.A., Dean of Men
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PATRICK MILLER, B.A., Registrar
GEORGE WALTER WHITE, B.A., Assistant Dean, College of Education,
and †Acting Comptroller
WILMA LOY SHELTON, B.L.S., Librarian
J. T. REID, Ed.D., Director, Extension Division
PHILIP H. DUBOIS, Ph.D., Director, Bureau of Tests and Records
JOHN H. FETH, M.A., Director of Public Relations
ERNEST W. HALL, B.A., Secretary, Alumni Association
FRED E. HARVEY, Editor of Publications and Manager of University
Press
EARL BOWDICH, Superintendent of Buildings and Grounds

Assistants to Officers of Administration

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BETTY HUNING, B.A. in Educ., Clerk of Admissions, Office of the
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MARGARET O'CONNELL, M.A., Recorder, Office of the Registrar
RUTH CISCO, Secretary to the Registrar
CATHERINE HAGERMAN, Secretary to the Comptroller
A. T. CHAVEZ, JR., B.A., Accountant, Office of the Comptroller
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LOUISE BEMIS, B.A., Secretary to Dean, College of Arts and Sciences
and General College
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College of Fine Arts
DOROTHY JANE SHAW, Secretary to Dean, College of Education
ELIZABETH ELDER, Secretary, Personnel Office
CATHERINE S. LEWIS, Secretary to Director of Extension Division
MAYNARD MEULI, B.A., Financial Secretary to Associated Students

University Library Staff

WILMA LOY SHELTON, B.L.S., Librarian
RUTH RUSSELL, Assistant Librarian
ESTHER JUNE PIERCY, B.S. in L.S., Cataloger

* On leave of absence, Semester I, 1939-40.

† Semester I, 1939-40.

MARY E. BRINDLEY, M.S., Head of the Loan Department
 ELSA SMITH, B.S. in L.S., Head of the Circulation Department
 ELIZABETH B. MORRISON, Clerk in the Library

University Health Service

JAMES R. SCOTT, M.D., Ph.D., Professor of Health
 C. KEITH BARNES, M.D., University Physician

Dining and Residential Halls

ANN HADDEN, B.S., Supervisor of Dining Hall
 ALICE M. DAVIDSON, Chaperon, women's residential hall
 WILLIAM MCL. DUNBAR, B.Arch., Proctor, men's residential hall
 MAYNARD MEULI, B.A., Proctor, men's residential hall

Nambé Community School

LOYD S. TIREMAN, Ph.D., Director
 MARY WATSON, M.A., Principal

Co-operating Schools for Practice Teaching

ALBUQUERQUE PUBLIC HIGH SCHOOL, Glen O. Ream, M.A., Principal
 LINCOLN JUNIOR HIGH SCHOOL, Glen Borland, M.A., Principal
 LONGFELLOW SCHOOL, J. Buren Linthicum, M.A., Principal
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E. B. GODFREY, M.D., State Director, and Bureau of Public Health,
 Consultant
 MYRTLE GREENFIELD, M.A., Director, Division of Laboratory

State Highway Department Laboratory

BURTON G. DWYRE, State Highway Engineer
 L. C. CAMPBELL, B.S. in C.E., Materials Engineer

Gasoline Tax Division Laboratory, Bureau of Revenue

P. E. CULVER, Head State Gasoline Tax Division
 WALTER BIDDLE, B.S. in M.E., Laboratory Technician

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* On leave of absence, 1939-40.

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* Semester II, 1939-40.

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* Semester II, 1939-40.

† On leave of absence, Semester I, 1939-40.

‡ On leave of absence, 1939-40.

- JAY C. KNODE, B.A., M.A., University of Nebraska; Ph.D., Columbia University. Dean of the College of Arts and Sciences, Dean of the General College, Professor of Philosophy and Head of the Department
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- †TOM L. POPEJOY, B.A., M.A., University of New Mexico. Comptroller and Associate Professor of Economics and Business Administration, half time

* Resigned January 31, 1940.

† On leave of absence, Semester I, 1939-40.

- BESS CURRY REDMAN, B.A. in Educ., University of New Mexico; American School of Opera. Assistant Professor of Voice and Music Theory
- FRANK DRIVER REEVE, B.A., M.A., University of New Mexico; Ph.D., University of Texas. Assistant Professor of History
- J. T. REID, B.A., Howard Payne College; M.A., Baylor University; Ed.D., Columbia University. Associate Professor of Education and Director of Extension
- PAUL REITER, B.A., M.A., University of New Mexico. Instructor in Anthropology and Assistant Curator of the Museum of Anthropology
- MARIA-ELISE JOHNSON RODEY, Student in Cincinnati Conservatory of Music and in École Normale de Musique, Paris; Pupil of Orde Musin and Leopold Auer, New York City, and of Guillaume Remy, Paris. Part-time Instructor in Violin
- JAMES SPENCER RUSSELL, B.A., University of New Mexico. Instructor in Dramatic Art
- BENJAMIN SACKS, B.A., University of New Mexico; M.A., McGill University; Ph.D., Stanford University. Associate Professor of History
- GEORGE ISIDORE SÁNCHEZ, B.A., University of New Mexico; M.S., University of Texas; Ed.D., University of California. Associate Professor of Education and Director of the Taos Adult Education Survey
- FLORENCE MARGARET SCHROEDER, B.S., Iowa State College; M.A., Columbia University. Instructor in Home Economics
- JAMES R. SCOTT, B.A., University of California; M.D., Cooper Medical College of Stanford University; Ph.D., George Washington University. Professor of Health and Head of the Department
- MELA SEDILLO-BREWSTER, B.A., M.A., University of New Mexico. Instructor in Art
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- ELIZABETH P. SIMPSON, B.S., University of New Mexico; M.S., Iowa State College. Professor of Home Economics and Head of the Department
- EDWIN FROST SMELLIE, B.S.E., M.S.E., University of Michigan. Assistant Professor of Mechanical Engineering, Director of the Civilian Pilot Training Program
- DANE FARNSWORTH SMITH, B.A., Vanderbilt University; M.A., Ph.D., Harvard University. Associate Professor of English
- *EDWIN SNAPP, B.A., M.A., University of New Mexico. Instructor in Dramatic Art
- VERNON G. SORRELL, B.A., State University of Iowa; M.A., University of Illinois; Ph.D., University of California. Professor of Economics and Business Administration and Head of the Department; Editor of the *New Mexico Business Review*

* On leave of absence, 1939-40.

- LESLIE SPIER, B.S., College of the City of New York; Ph.D., Columbia University. Professor of Anthropology
- GEORGE ST. CLAIR, B.A., M.A., Whitman College; Ph.D., University of California. Dean Emeritus of the College of Fine Arts and Professor Emeritus of English
- RALPH W. TAPY, B.S. in E.E., Rose Polytechnic Institute; M.S. in E.E., University of Michigan; E.E., Rose Polytechnic Institute. Associate Professor of Electrical Engineering and Acting Head of the Department
- GRACE THOMPSON, B.Mus., Defiance College. Associate Professor of Music and Head of the Department
- LOYD S. TIREMAN, B.A., Upper Iowa University; M.A., Ph.D., State University of Iowa. Professor of Elementary Education and Head of the Department; Director of the Nambé Community School
- WILLIAM C. WAGNER, B.S. in C.E., C.E., South Dakota School of Mines; M.S. in Highway Engineering, Iowa State College. Associate Professor of Civil Engineering
- PAUL WALTER, JR., B.A., Stanford University; M.A., University of New Mexico; Ph.D., Stanford University. Associate Professor of Sociology and Head of the Department
- ARTHUR S. WHITE, Ph.B., Grove City College; LL.B., M.A., J.D., University of Michigan. Professor of Government and Citizenship and Head of the Department
- GEORGE WALTER WHITE, B.A., University of New Mexico. Assistant Dean, College of Education, Associate Professor of Education and Head of the Division of Physical Education and Health
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- EVERLY JOHN WORKMAN, B.S., Whitman College; Ph.D., University of Virginia. Professor of Physics and Head of the Department
- DUDLEY WYNN, B.A., University of Texas; M.A., Ph.D., New York University. Associate Professor of English; †Editor of *The New Mexico Quarterly*

Visiting Instructors

Summer Session of 1939

- EUNICE H. ADAMS, B.A., University of New Mexico. Demonstration Teacher. Bernalillo County Supervisor of Elementary Education
- H. CHONAN BERKOWITZ, B.A., M.A., Ph.D., Cornell University. Instructor of Spanish. University of Wisconsin
- MARGARET BIGELOW, Butler University, Indiana University, and the University of New Mexico. Demonstration Teacher. County Schools.
- F. O. BISHOP, B.A., New Mexico Normal University; M.A., University of New Mexico. Instructor of English. Superintendent of the Crane School, Yuma, Arizona
- VERA WOOD CORNELIUS, Colorado State College and the University of New Mexico. Demonstration Teacher. Bernalillo County Schools
- VERA DAVIS, B.S., M.S., Kansas State Teachers College. Instructor of Education. Supervisor of Elementary Education, Dodge City,

† 1940.

- Kansas, and Director of Teacher Training in the Junior College, Dodge City, Kansas
- NEWELL DIXON, B.A., University of New Mexico. Instructor of Education. Critic Teacher at San Jose School, Albuquerque, New Mexico
- WILLIAM H. ELLISON, B.A., Randolph-Macon College; M.A., Ph.D., University of California. Instructor of History. State College, Santa Barbara, California
- EDWIN R. HENRY, B.S., Kansas State Teachers College; M.A., Ph.D., Ohio State University. Instructor of Education. Assistant Professor of Psychology, New York University
- MARIE M. HUGHES, B.A., M.A., University of Chicago. Instructor of Education. Director of State Curriculum Laboratory, University of New Mexico
- MARGUERITE ISAACSON, B.A., University of Colorado. Instructor of Social Arts. Albuquerque High School
- ANN JONES, Michigan State Normal, University of Michigan, and the University of New Mexico. Demonstration Teacher. Nambé Community School, Santa Fe, New Mexico
- LOUIS K. KOONTZ, B.A., Washington and Lee University; M.A., Ph.D., Johns Hopkins University. Instructor of History. Associate Professor of History at the University of California at Los Angeles
- J. BUREN LINTHICUM, B.A., Southwestern College; M.A., University of Southern California. Instructor of Education. Principal of Longfellow School, Albuquerque, New Mexico
- R. E. MARSHALL, B.S., M.A., Peabody College. Instructor of Education. Senior High School Principal, Clovis, New Mexico
- MRS. BELLE ZILLMER, University of Rochester and University of New Mexico. Demonstration Teacher. Atrisco School, Atrisco, New Mexico

Visiting Instructors

Field Sessions in Anthropology for 1939

- ERNEST V. ANTEVS, Ph.D., University of Stockholm. Instructor for the Field School at Chaco Canyon. Carnegie Institution of Washington
- ANNE M. COOK, Ph.D., Yale University. Instructor for the General Field Session at Jemez. Yale University
- J. CHARLES KELLEY, B.A., University of New Mexico. Instructor for the Field Session at Chaco Canyon. West Texas Historical and Scientific Society
- JOHN LAMBERT, M.D., Johns Hopkins Medical School. Camp Physician for the General Field Session at Jemez. Johns Hopkins Medical School
- WILLIAM MULLOY, B.A., University of Utah. Instructor for the General Field Session at Jemez. Louisiana State University
- DONOVAN C. SENTER, M.A., University of New Mexico. Instructor for the Field Session at Chaco Canyon. University of Chicago
- FRANK M. SETZLER, Ph.B., University of Chicago. Instructor for the Field Session at Chaco Canyon. United States National Museum

Instructors and Critic Artists
Field School of Art at Taos

- KENNETH ADAMS, Chicago Art Institute; Art Students' League of New York; Ransom Academy, Paris. Instructor
 OSCAR E. BERNINGHAUS, St. Louis School of Fine Arts. Instructor
 ERNEST L. BLUMENSCHNEIN, Art Students' League of New York; Julian Academy, Paris. Critic Artist
 HOWARD COOK, Art Students' League of New York. Instructor
 ANDREW DASBURG, Art Students' League of New York. Instructor
 JOSEPH A. IMHOF, Academy at Munich; Gewerbe Schule at Munich; studied in New York, Paris, Antwerp, and Amsterdam. Instructor

Extension Division

Non-Resident Instructors

- FREDA LOIS LAW, B.A., University of Colorado; M.A., University of Wyoming. Instructor in English
 IVAH SHALLEMBERGER, B.A., New Mexico State College; M.A., University of New Mexico. Instructor in Spanish

Assistants

- EDITH S. BLESSING, B.A., Vassar College. Assistant in the Department of English
 THOMAS C. DEBACA, Assistant in Physical Education. Golf
 DELIGHT KELLER DIXON, B.A., in Educ., M.A., University of New Mexico. Assistant in the Department of Economics and Business Administration
 SARA FINNEY LETTON, B.S. in P.E., University of New Mexico. Assistant to the Dean of Women
 MICKEY MCFADDEN, University of New Mexico. Assistant in Physical Education. Fencing
 SOILA SANCHEZ, B.S. in P.E., University of New Mexico. Assistant in Physical Education for Women
 M. R. WOOTEN, Assistant in Physical Education. Equitation

Graduate Fellows

- MAY ADAIR, B.A., New Mexico State College of Agriculture and Mechanic Arts. Modern Languages
 SAM BOWMAN, B.A., University of New Mexico. Biology
 PORTZ BRETNEY, B.S. in Educ., University of New Mexico. Biology
 HELEN BURT, B.A., Middlebury College. Modern Languages
 PAUL COX, B.A. in Educ., University of New Mexico. Mathematics
 RUTH F. EMERSON, B.A., Radcliffe College. Psychology
 GRACE L. EVANS, B.S. in Educ., Texas Technological College. English
 ROBERT K. EVANS, B.A., Allegheny College. History
 *JOSEPH FALTIS, B.A., University of New Mexico. Modern Languages, half time
 J. CHARLES KELLEY, B.A., University of New Mexico. Anthropology
 *C. M. MARTIN, B.A., New Mexico State Teachers College. Education

* Semester II, 1939-40.

†ELI A. MARTINEZ, B.A. in Educ., University of New Mexico. Modern Languages

JOHN R. PETERS, B.S., University of New Mexico. Geology

HOWARD REID, B.A. in Educ., University of New Mexico. Government and Citizenship

EDNA G. ROBERTS, B.A., University of Wisconsin. English

HAROLD O. TAYLOR, B.Ed., State Teachers College, Whitewater, Wisconsin. Biology

*MARIE P. WALLIS, B.A., University of California, Southern Branch; M.A., University of Southern California. Modern Languages, half time

LUCILE E. WELCH, B.A., University of Colorado. English

Student Assistants

STANTON BENJAMIN, Art

DOROTHY MAE BOWER, English

WILLIAM BURNETT, Physics

BEVERLY CARRICK, Library

DONALD CHAY, History

BARBARA CLARK, Anthropology

RAYMOND COFFEY, Receiving Room

ALTA DOBSON, Library

JAMES DOUSMAN, Geology

DOLORES DURAN, Library

WAYNE ERWIN, Receiving Room

WILNA GILLESPIE, Library

LUPE GUTIERREZ, Library

MIRIAM HIGBEE, Biology

LAUDELL HUGHES, Library

GEORGE HUNT, Post Office

ALEXANDER JOHNPOLL, Philosophy

TOM JORGENSON, Library

EDWARD KIJENSKY, Biology

JOSEPHINE MOTYLEWSKI, Government

ELMER NIESH, English

JUANITA NOLAN, Athletic Association

DORIS OGDEN, Art

JOE PERINO, Library

ADELINA SAAVEDRA, Biology

PEARL SALAZAR, Library

WAYNE SPRINGFIELD, Library

MARY WALLENHORST, Art

GEORGE WATTS, Art

† Semester I, 1939-40.

* Semester II, 1939-40.

GENERAL INFORMATION

Aim

The aim of the University of New Mexico is to place the resources of higher education of the state, so far as possible and with the least possible restriction, at the disposal of any person who desires, and has sufficient qualifications, to use them. In the performance of its function, the University is endeavoring to attract young men and women of ability and character and to train them for leadership.

Accreditation

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 Association of American University Women recognized the University in the same year. In the fall of 1937 the College of Engineering was approved by the Engineering Council for Professional Development.

Situation

The University is situated in Albuquerque, a city of about 45,000 inhabitants. The elevation of the campus is over 5,000 feet above sea level. The climate is mild throughout the year, and the aid is dry and invigorating. Albuquerque is noted for its dry and sunny weather.

Albuquerque is on the main line of the A. T. & S. F. Railway, Transcontinental and Western Air Lines, and is served by major transcontinental bus lines. U. S. Highways 66 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 in 1889 by an act of territorial legislation. The new institution was opened in rented rooms as a summer normal school on June 15, 1892, and began regular instruction on September 21, in the first building erected on the campus. The first nominal president was The Honorable E. S. Stover, who served five years. During this period, Principal George S. Ramsey was in direct charge of the institution for two years. Professor Hiram Hadley, vice-president, was in charge from 1894 to 1897. During his administration, the College of Arts and Sciences was incorporated. In the summer of 1897, the Regents of the University elected Dr. C. L. Herrick, of Denison University, as the first active president. Dr. William G. Tight, also of Denison University, succeeded President Herrick. Under President Tight's administration the University adopted its unique architectural style, and incorporated the Engineering College. Upon the resignation of President Tight in 1909, Dr. E. D. McQueen Gray served as president until 1912. He was followed by Dr. David Ross Boyd. In 1919, the Regents chose as president Dr. David Spence Hill, who served until September 1, 1927. During his administration, the Graduate School was established. President Hill

was on leave of absence from January 22 to September 1, 1927, during which time Dr. James Fulton Zimmerman served as Acting President. Before the termination of this period, Dr. Zimmerman was elected President and assumed his duties on September 1, 1927.

The physical and numerical growth of the University has been rapid since that date. In 1928, the College of Education was incorporated; in 1935, the General College; and in 1936, the College of Fine Arts.

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 for its maintenance by the State Legislature, by income from the proceeds of the rental of lands granted to it by the Federal Government when New Mexico became a state, 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 environs 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: Hodgkin Hall, housing the College of Education; the work shop; residential halls (Hokona for women, Kwataka and Yatoka for men); Rodey Hall (the campus theater); Science Hall; 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; the Central Heating Plant; and the Library.

The Library

The Library contains approximately 75,724 volumes. All students have direct access to 6,395 volumes in the general reading room seating 256, and to 699 current periodicals in the periodical reading room, which seats 48.

The Library is the designated depository of government documents, and these publications, together with those received from colleges, universities, and various learned societies, constitute a valuable reference collection. Through the courtesy of New Mexico editors, a number of the newspapers of the state are received and kept on file.

The Reserve book room, shelving 4,536 volumes and seating 96 readers, contains books placed in the room at the request of the faculty. These books must be used in the Reserve reading room and may not be taken from the Library until 9 p. m., except on Saturday, when they may be taken out at 5 p. m.

The Library of Congress depository catalog contains approximately 1,575,000 cards available for bibliographical uses and helpful in arranging for inter-library loans.

The Library is primarily for the use of the faculty and students of

the University, but residents of the state are urged to consult it freely. Books and pamphlets are lent upon request, and, when it is impossible to lend material, reference lists or suggestions as to the sources of information are gladly given.

During the fall and spring semesters, the Library is open every day except Saturday and Sunday from 7:45 a. m. to 10:00 p. m. Hours on Saturday are 7:45 a. m. to 6:00 p. m. During the summer session, the hours are from 6:45 a. m. to 10:00 p. m. daily except Saturday and Sunday. Hours on Saturday are 6:45 a. m. to 6:00 p. m.

The Library has the following special collections:

The **Van de Velde collection** of Mexican materials consists of 8,686 bound volumes, 93 maps and approximately fifty linear feet of pamphlets. The range of the subject matter is broad, covering archaeology, ethnology, geology, folklore, geography, biography, literature, arts and crafts and the entire history of Mexico.

The **Coronado collection** contains state publications, books about New Mexico and books by New Mexico authors, photostats of materials on the Southwest from manuscripts located in Spain and Mexico, together with the state archive materials that have been assembled through the Historical Records Survey.

The **Catron collection**, loaned by C. C. Catron, T. B. Catron, F. A. Catron, and J. W. Catron, covers practically every field of knowledge.

The **Wilson collection**, contributed by Mr. George A. Kaseman in 1922, contains 170 volumes dating from 1533 to 1803. The books are in Latin, Spanish, French, and Italian and treat for the most part of law, history, medicine, philosophy, and religion.

Laboratories

The Colleges of Engineering and Education and the Departments of Anthropology, Biology, Chemistry, Geology, Home Economics, Physics, and Psychology maintain modern, well-equipped laboratories.

Museums

Anthropology.—A museum hall, in connection with the Department of Anthropology, houses varied material of anthropologic interest. The ceramic collection is especially strong, with the several Southwestern ceramic areas, Mexico, and Peru being well represented. Southwestern and Peruvian textiles, stonework from the Southwest and the Great Plains, and bone and wood artifacts from the Southwest are also on exhibit. Novel features are dendrochronologic and ceramic-type charts.

Geology.—The Museum of Geology has a double purpose: it is designed to serve the general public and to supplement the instructional program. Exhibits comprising systematic series of minerals and ores, and of fossil plants and animals, are now in course of preparation for museum display. Fundamentally, the museum will be one of ideas, rather than an exhibition of specimens for their own sakes.

ADMISSION TO THE UNIVERSITY

Credentials

All communications regarding entrance should be addressed to the Registrar. The University requires that each new student have his credentials sent directly to the Registrar from the high school or college previously attended. Transcripts in the possession of students are not acceptable for entrance purposes. Students are urged to have their credentials sent at least one month before the opening of the semester. It should be understood that delay in presenting these credentials may cause postponement of registration with resulting inconvenience to the student. No student may enroll until the required credentials are in the hands of the Registrar.

Admission of Freshmen

Each freshman is required to present an application for admission, and a transcript of his high school record signed by the principal or superintendent. An application for admission will be found in the back of the catalog, or additional copies may be obtained from the Registrar. In case the high school does not have a form for transmitting the high school record, transcript forms may be obtained by addressing the Registrar.

Each freshman is also required to take a series of tests (see "Registration—Freshman Week"). 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 appears advisable for him to attempt. If the tests reveal a marked weakness in preparation, the University authorities may require 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 the student may be required to take certain non-credit courses designed to remove such weaknesses.

The University recommends that freshmen be at least 16 years of age, although exceptions are occasionally made.

Admission by Certificate.—Graduates of accredited high schools may be admitted to the University upon presentation of transcripts showing graduation from a four-year high school with 15 satisfactory units, or graduation from a senior high school with 11 satisfactory units. 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.

Applicants who desire to enter the College of Engineering and who do not present three units of mathematics, will be required to take Mathematics 14a in addition to the regularly required freshmen courses. Of the three units of mathematics required for admission to the College of Engineering, 1½ units should be in algebra and 1 unit in plane geometry.

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 written recommendation of his principal or superintendent.

High schools in New Mexico accredited by the North Central Association of Colleges and Secondary Schools or by the State Department of Education, and high schools in other states accredited by regional associations, or by the universities of those states, are accredited by the University of New Mexico.

In admission of graduates of senior high schools, no attention need be paid to the work done in the junior high school, except as this may indicate courses preparatory to those completed in the senior high school. For example, if the second year of a language is completed in the senior high school, the applicant's transcript should show that the first year has been completed in the junior high school.

Admission by Examination.—Graduates of non-accredited or partially accredited high schools, or applicants whose high school preparation is incomplete, are expected to take examinations over that portion of their work which is unaccredited or incomplete. Entrance examinations are given at the University at the beginning of each semester. Applicants who desire to take examinations should notify the Registrar at least two weeks in advance.

Admission on Trial.—Unless ten of the fifteen units from a four year high school, or eight of the eleven units from a senior high school, are above the lowest passing grade where grades are upon a letter basis, or are five points above the lowest passing grade where a numerical system is used, the student is admitted on trial for one semester. Students admitted on trial may not enroll for more than 14 hours of work (including physical education), and it is expected that such students will enter the General College.

Recommended High School Units.—For the student preparing for college the following units are recommended: English 4, mathematics 2 (for Engineering 3), language 2, science 2, social science 2, electives 3 or 4.

Admission of Students with Advanced Standing

The new student who has attended other colleges or universities shall request the authorities at each institution attended to send an official transcript of his record to the Registrar of the University. The student is also required to make application for admission on the form which will be found at the back of the catalog. When the preparatory credits have not been accepted, and reported on the college transcript, the student is required to have a transcript of his high school work sent to the Registrar. Transferring students are urged to present the necessary credentials early, so that they will not encounter delay in registration.

Information concerning the standing of transferring students cannot be given until the application for admission and all necessary transcripts are in the hands of the Registrar. Neither is it possible to advise the student of his standing from a list of credits submitted in a letter. After the application and transcripts have been received, an evaluation is made, and a copy sent to the student. The student should retain this copy, and bring it with him for registration purposes.

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

quality required for graduation from the University of New Mexico. Only an approximate evaluation can be made prior to the student's 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 of 64 semester hours plus 4 semesters of physical education. In accepting junior college credits, no courses will be considered as above sophomore level.

Credit earned by students transferring from 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.

Students who are disqualified for re-registration in any other college or university may not be considered for admission to the University of New Mexico until the period of their disqualification has expired.

The Committee on Entrance and Credits will consider unusual cases on their merits.

Teachers and prospective teachers should note that teaching certificates are issued by the State Department of Education, Santa Fe, New Mexico. The transferring student who wishes to have an evaluation from the University, and a check-up of his eligibility for a teaching certificate, should have original transcripts sent to both the University Registrar and the State Department of Education.

Admission of Special Students

Persons over twenty-one years of age who cannot meet the regular entrance requirements may be admitted as special students, provided that they secure the permission of the instructors whose work they desire to take and the approval of the dean of the college concerned. Applicants coming directly 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 completing the admission requirements.

The student entering as a special should make application on the provided form and should present official transcripts of any high school or college credit which he may have earned previously. He will not be permitted to continue his status as a special student longer than one year, except by special permission of the Committee on Entrance and Credits.

Admission of Auditors

Mature students may attend classes as auditors, without credit, upon the permission of the instructors concerned and of the dean of the college in which most of the audited courses lie. Auditors are required to pay regular fees. They must, upon registration, declare themselves as auditors and may not change to a credit basis after the first five weeks of the semester.

Admission of Unclassified Students

Students transferring from accredited or partially accredited institutions are unclassified until they have validated credit in accordance with the University regulations. Students who are on leave of absence from other institutions are also registered as unclassified. In such

cases students should have complete transcripts of their previous work, and statements of honorable dismissal sent to the Registrar from the last institutions attended.

Admission of Graduate Students

See "Graduate Bulletin."

REGISTRATION

Materials Needed.—Each student should bring his copy of the general catalog to registration. The Freshman should have in his possession the notice of admission. The transferring student should have a copy of his evaluation of transferred work. The student who has previously attended the University should have in his possession a copy of his permanent record. This copy will be placed in the returning student's registration envelope, if the student notifies the Registrar of his intention to re-enroll.

Time of Registration.—Students are required to register on the days set aside for registration (for dates, 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 ten days after the opening of a semester, except with the permission of the dean.

Registration Procedure.—Details of the registration procedure are contained in a special notice issued by the Registrar, 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.

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 in 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 Registrar's Office, where official entry is made on the student's record.

Students who drop a course at any time without permission 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 Major or Minor.—At the beginning of the junior year, each student should declare his major and minor study, and make his application for a degree. A form for this purpose may be obtained from the Office of the Registrar, and after completion of the form, it should be returned to that office. If the student later wishes to apply for a different degree, change his major or minor, or change his college, he should complete a new application for degree, and return it to the Registrar.

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 with the Registrar.

Change in Address.—Each student is expected to keep the University authorities informed as to his address. Any changes in address should be immediately reported to the Registrar.

Withdrawal from the University.—When a 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 five weeks of the semester or first two weeks of a summer session. When a student leaves the University during a semester and does not carry out his withdrawal according to this regulation, he renders himself liable for a grade report of F in all of his classes, even though he is passing his courses up to the time of leaving.

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.

Freshman Week

At the opening of each fall semester a "Freshman Week" program is conducted. 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 Required.—Attendance of all freshmen is required during the entire Freshman Week period, but transferring freshmen who have 10 or more hours of college credit are excused from all exercises except the tests.

Time.—The Freshman Week program for the year 1940-41 will begin on Thursday morning, September 5, at 8 a. m., at which hour all freshmen should report at Carlisle Gymnasium. The program will culminate with freshman registration on the morning of the succeeding Monday.

Tests for Freshmen.—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 their 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 or continue in English 1 a who shows serious weakness in

spelling, punctuation, grammar, diction, or sentence structure. Students who do not pass the test are enrolled in English A.

Medical Examinations

A medical examination, including a Wasserman test and a tuberculin skin test, is required of each new student at the University, whether freshman or upperclassman, during the first week following registration. These tests are given without charge by the University physician, but students who, without valid reason, fail to keep their examination appointments will be fined. Health-seeking students, including arrested tuberculosis cases, are accepted at the University if, in the judgment of the University physician, their University work does not endanger themselves or their associates. The University may, upon the advice of the University physician, 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. The University reserves the right to examine a student at any time for the purpose of ascertaining health conditions.

Degree Courses

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.

EXPENSES

Tuition and Fees

All fees are due at the time of registration. A fee of \$2 will be assessed if registration is not completed on the days specified.

In addition to the matriculation fee of \$5, which is paid once by each student upon his first registration in the University, other fees are charged according to the number of semester hours in the student's course. Auditors pay the same fees as those who take work for credit.

Registration Fees, Undergraduate Students, Per Semester.—

	More than six hours	Three to six hours	Three hours or less
Tuition* -----	\$20.00	\$10.00	\$ 5.00
Health Fee -----	3.00	-----	-----
Student Activities Fee -----	8.50	-----	-----
Student Union Bond Fee -----	2.00	2.00	2.00
Breakage Deposit† -----	5.00	5.00	5.00
	\$38.50	\$17.00	\$12.00
*If a non-resident, add tuition	30.00	15.00	5.00
	\$68.50	\$32.00	\$17.00

Registration Fees, Graduate Students, Per Semester.—

Tuition* -----	\$20.00	\$10.00	\$ 5.00
Health Fee -----	3.00	-----	-----
Student Union Bond Fee -----	2.00	2.00	2.00
Breakage Deposit† -----	5.00	5.00	5.00
	\$30.00	\$17.00	\$12.00
*If a non-resident, add tuition	30.00	15.00	5.00
	\$60.00	\$32.00	\$17.00

Note: Graduate students enrolled for thesis only pay a \$10.00 tuition fee, and breakage deposit.

Other Fees for Special Services.—

Change in program after end of second week, except upon written demand of the instructor -----	\$ 1.00
Late registration fee -----	2.00
Late physical examination fee -----	1.00
Examination to raise X to D -----	2.00
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

Additional Fees.—

Individual music instruction, per lesson -----	\$ 1.25
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† Paid once yearly and refundable, less charges.

Radio Play Production, per semester -----	4.00
C. A. A. Pilot Training Program -----	40.00
Horseback riding, per semester -----	15.00
Fencing, per semester -----	3.00
Golf, per semester -----	3.00
Pipe organ rental, per semester -----	12.00

Non-Resident Tuition Fees.—Non-resident fees shall be collected from all minors whose parents or legal guardians reside outside of New Mexico, this regardless of the class status of the student.

Resident fees shall be collected from all others registering, inasmuch as the Attorney General of New Mexico holds that the parents or legal guardians of a minor student are residents of this state, provided they are in the state at the time of the student's registration, and also provided that they are in the state with the evident intention of remaining.

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

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

Student Activities Fee and Student Union Bond Fee.—The assessment of these fees 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 these fees 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.

Withdrawals and Refunds.—All fees, except the matriculation fee, 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 ninth week of the semester, will be entitled to a refund of one-half of the tuition, and the guarantee deposit. Students withdrawing after the ninth week and students withdrawing at any time under discipline or because of academic deficiencies, will be entitled to a refund of the guarantee deposit only.

Estimate of Total Expense.—The minimum amount necessary for expenses while attending the University of New Mexico for one college year is estimated as follows:

Tuition and fees -----	\$ 75.00
Books and supplies -----	25.00
Board -----	225.00
Room -----	50.00
Laundry -----	50.00
TOTAL -----	\$425.00

Non-resident students should add \$60 to the tuition costs. Social and recreational expenditures are governed by the students themselves and cannot be accurately estimated.

Dining and Residential Halls

All matters pertaining to living accommodations for students are under the direction of the Personnel Office. Inquiries concerning living accommodations should be addressed directly to that office.

Room Reservation.—After a student has been notified by the Registrar that he is admitted, he should make written application to the Personnel Office for a room reservation in a residential hall. This application must be accompanied by a five dollar remittance, which does not apply toward room rent but is a charge by the University of each student reserving a room. This charge is not refunded. Should the applicant find it impossible to keep his reservation, he should notify the Personnel Office not later than one week before the first day of registration. All students occupying rooms in residential halls are required to take their meals at the dining hall. Dormitory residents must furnish their own bedding, linens, and curtains.

Upon receipt of the five dollar reservation charge and upon notification from the Registrar that the applicant has been accepted for admission, the Personnel Office will send the applicant a receipt and room card. Should there be any question concerning the applicant's admission, the room card and receipt will be held and only a tentative reservation made.

Room Regulations.—A list of approved rooming places for men is published each semester by the Personnel Office. Dormitory space is also available.

Undergraduate women whose homes are not in Albuquerque are required to live in the University residential halls or sorority houses. Exceptions to this regulation include: special adult students; regularly enrolled students who are over twenty-one years of age, and who are registered for 6 hours or less; women students who are working for board and room in approved homes.

Graduate women are requested to select one of the approved houses listed by the Dean of Women. Women students are not permitted to room in houses where men are rooming.

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.

Opening and Closing Dates.—Residential halls will be open for freshmen at 1 p. m., September 4, 1940, and for all other students at 1 p. m., September 8, 1940. The dining hall will be open for freshmen with the breakfast meal of September 5, 1940, and for all other students with the breakfast meal on September 9, 1940. Under no circumstances will arriving students be admitted to the residential halls after 10 p. m. or before 8 a. m.

Students who have made room reservations and have a room card report to the residential halls upon arrival. Students who do not have reservations report immediately to the Personnel Office.

All occupants of dormitories must vacate their rooms by 5 p. m. on the last day of the semester. Exception is made for graduating

seniors during the second semester. They may remain until 5 p. m. of graduation day.

Rates.—It is required that room and board be paid in advance at the office of the Comptroller. The following rates are subject to change whenever necessary to defray operating costs of the dining hall and residential halls:

Board and room, per calendar month -----	\$30.00
Board only, per calendar month -----	25.00
Board only, per day, less than month -----	.90
Board and room, per day, less than month -----	1.15
Single meals	
Breakfast -----	.25
Luncheon -----	.35
Dinner -----	.40
Dinner (noon Sundays and holidays) -----	.60

Students not living in the dormitories, and other persons connected with the University, may procure meals at the dining hall at the above rates.

Guests.—With the consent of the proctor or chaperon, students may entertain guests overnight in the residential halls. The guest will be charged fifty (50) cents per night. When a guest is to have meals at the dining hall, the clerk should be notified and the guest's meals will be charged to the account of the resident.

Refunds.—No refund is made on room rent. Refunds for board are made only for absences of seven or more consecutive days. These absences must be excused in writing by the Dean of Men or the Dean of Women. In the event a refund is allowed, the student will be charged at the rate of ninety cents per day for the days present during the month.

GENERAL ACADEMIC REGULATIONS

Class Hours and Credit Hours

A class hour consists of fifty-three 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 fifth 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. The I may be changed 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, and takes it to the instructor, who completes it and returns it to the office of the dean. The dean forwards this permit to the Registrar 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 fifth week of the semester or second week of the summer session, while doing passing work.

CR, **Credit.** Course in physical education or ensemble music passed. CR is also used to report satisfactory completion of Master's thesis.

NC, **No Credit.** Course in physical education or ensemble music failed. NC is also used to report unsatisfactory completion of Master's thesis.

PR, **Progress.** This grade is used to indicate that Master's thesis, or a graduate problem, is in progress but not complete. When the problem is complete, a regular grade is reported. When the thesis is complete, CR or NC is reported.

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

Change in Grade.—No passing grade 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.

Any other change in grade, after the grade is on record in the Office of the Registrar, 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 carried.* All honors and prizes depending upon scholarship are determined by ranking students according to this index.

Grade Reports

At the end of the fifth week of the semester, grades are reported to the Office of the Registrar for all courses numbered below 101. At the mid-semester (end of ninth week) and at the end of the semester, grades are reported for all courses.

Grades to Parents.—Copies of mid-semester and semester grades are mailed to parents of undergraduate students. Grades are not mailed to graduate students, but may be obtained at the Registrar's Office.

Transcripts of Academic Record

Transcripts.—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.

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

Scholastic Status.—An undergraduate student has the status: "in good standing," "on probation," "General College," or "under suspension." The student "under suspension" may re-enroll 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

The student who desires to cancel his registration and withdraw from the University during the semester, should follow the procedure outlined in the catalog section entitled "Registration."

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

Change in Program of Studies

The student who desires to add or drop a course should follow the procedure outlined in the catalog section entitled "Registration."

Scholarship Regulations

The scholarship standing of students is checked at the end of each semester. At such times, 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 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.

Suspension.—A student is recommended for suspension at the end of any semester when he is placed on probation for the second successive time.

A student who is suspended for poor scholarship, or who, after having been placed on probation at the end of the semester, fails to re-register for the following semester; or who withdraws from the University while on probation, shall be considered as on probation upon his return to the University, and the scholarship rules shall apply as though he had not been away.

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

College of Education.—See section of catalog entitled "College of Education."

General College.—See section of catalog entitled "General College."

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.

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 for the validation of transferred credit, examinations to remove a grade of I, examinations for 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.

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

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 "Expenses."

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

2. The examination shall have the approval of the dean of the college, of the head of the department, and of the instructor concerned.

3. 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.

4. 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.

Dishonesty in Examinations.—A student found guilty of dishonest practices in a quiz, test, examination, or other work, may be suspended or dismissed, or otherwise disciplined.

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 excessive absence to college deans. A student with excessive absences may be dropped from a course with the grade of F, by the dean of the college, upon recommendation of the instructor. The dean may recommend dismissal from the University, on the grounds of neglected duty, when a student 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

Regular assemblies are scheduled each month, but special meetings may be called by the President of the University, or by the Student Council with the concurrence of the administration.

Attendance.—Attendance is required at regular assemblies, but not at special assemblies, unless it is so announced at the time.

Absences.—It is necessary for a student to obtain from the Personnel Office an excuse for any absence within two weeks after the absence is incurred. The penalty for unexcused absences from assembly is the reduction of one semester hour from the total earned for the semester, or of .5 semester hour from the total earned for the summer session.

Programs.—Lectures and addresses are delivered on various topics of interest by members of the faculty, and by visitors to the University and to the city; musical and dramatic recitals, and contests in oratory and debating are held. A fair share of the time set apart for assemblies is given to the Associated Students for the transaction of their business.

Degree Requirements

Two undergraduate degrees may not be granted a student until he has earned the equivalent of five years' college work and has fulfilled all requirements for both degrees. A transferring graduate should notify the Registrar when applying for admission if he plans to work for a second undergraduate degree.

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.

Notice of Intention to Complete Degree Requirements.—At the beginning of the junior year, all candidates for degrees are required to file in the Office of the Registrar applications for degrees. Necessary forms may be secured from the Registrar's Office.

Specific Courses Required.—Four semester hours of required physical education shall be completed by all students in the University. Freshmen and sophomore students may substitute for the required physical education a special course in band work, semester for semester. Students over thirty years of age are exempted from the physical education requirement.

An orientation course is required of all students in their freshman year, except those who enter the University with as many as twenty hours of college work.

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 College of Engineering. Dividends and penalties are assessed only on work done in residence at the University of New Mexico.

Senior Residence Requirements.—Students who have done less than 60 semester hours in residence previous to senior status shall earn 30 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 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-fourth of the minimum amount of credit hours required for major or minor studies must be earned in the University.

Extension Work.—A maximum of 30 hours of extension or correspondence work may be counted toward a degree.

Commencement.—Students who complete requirements for degrees at the close of the first or second semesters will receive their diplomas in June. Those who finish after the summer session or field sessions will receive diplomas the following June. Students must participate in the commencement exercises at the time of receiving diplomas, unless excused by the President of the University.

Graduation with Honors .

1. **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.

2. **The Degree with Honors (Honors Work).**—A student in one of the four-year colleges of the University is permitted to undertake honors work beginning with the sophomore year, after obtaining the approval of the College Committee on Honors. Such a student will enroll for Honors 51 at the beginning of the first semester, and will carry an hour of honors work in conjunction with a regular course during the second semester. During the junior and senior years he may take two, or, in exceptional cases, three, hours of honors work during the second semester, to be earned (a) by allocated hours, as in the second semester of the sophomore year, (b) in special honors courses to be created by the departments, or (c) by work on special problems or creative work as agreed upon by adviser, Committee, and the departments concerned.

Honors students have special privileges, such as access to library stacks and the temporary auditing of classes. They may earn, also, cash awards, twenty of which, to the amount of twenty-five dollars each, are available at the middle of the junior year, and ten of which, for fifty dollars each, are available at the middle of the senior year. Students who carry their work in honors to a satisfactory conclusion may also receive the degree "With Honors."

Students interested in this work are advised to consult the Registrar or the dean of their college.

STUDENT EMPLOYMENT, LOAN FUNDS AND SCHOLARSHIPS

Employment.—The University Student Employment Bureau is maintained to aid those students who find it necessary to earn a part of their expenses while attending the University. Any student requiring part-time employment is requested to file an application with the Personnel Office, on or before September 1. Applications for campus employment must be renewed each year.

The University does not advise students to enter without sufficient funds to pay all necessary expenses for at least the first semester. It often requires one semester to make adjustments and to find suitable employment.

Aid from the National Youth Administration has enabled the University to expand substantially its employment program upon the campus.

The following principles are the basis of selection of candidates through the University Employment Bureau: (1) the establishment of the actual need of the student; (2) seniority as to class standing, except for a small group of freshmen of special promise; (3) scholarship; (4) re-employment to be based on satisfactory service and scholarship.

Students who find it necessary to engage in outside work, should not attempt to carry a full program of studies.

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

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

The general rules applying to these loans are as follows:

1. The student must have been in residence at the University for at least one year.
2. He must be receiving grades of C or better in subjects which he is carrying; preference will be given to worthy students with the higher ratings in scholarship.
3. Students receiving loans will be required to give notes with endorsers as prescribed by the Bursar's office.

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

Awards and Scholarships

Announcement of recipients of awards and scholarships is made by the President of the University, after recommendations have been

made to him by the Committee on Honors and Awards. A description of the awards follows with names of recipients for 1939.

The C. T. French Medal for Scholarship.—Awarded to a graduating senior of the College of Arts and Sciences who has obtained during his last two years of continuous residence, the highest general average for scholarship in a program of not less than fourteen hours a semester. Mrs. Carrie Hammond.

The Katherine Mather Simms Memorial Prize in English.—A cash prize consisting of the interest from a \$250 trust fund is awarded each year to a regularly enrolled upperclassman, who has been in residence at least one year, on the basis of excellence in prose composition and on the quality of a competitive essay to be submitted by April 1st. The decision is made by the faculty of the English Department and the Dean of the College of Arts and Sciences, and will be announced the latter part of April. Mr. Reynolds Johnson.

The George E. Breece Prize in Engineering.—A cash prize, consisting of the income from a \$600 prize endowment, which is awarded to a graduating senior in engineering who is enrolled for a full course. This award is made 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. Mr. Stephen Reynolds.

The Ives Memorial Scholarships.—Created in memory of Julia Louise Ives and Helen Andre Ives. The income from a \$15,000 fund is used to maintain three \$200 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. Selection for the next academic year is made in July. Miss Barbara Bales, Miss Mildred Corder, Miss Mary Carmignani.

The Marian Coons Kindness Award.—A memorial prize consisting of the interest from a \$750 endowment 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 prize is announced in March. Miss Mary Belle Montgomery.

The Chi Omega Prize in Economics.—An annual prize of \$15 is awarded to the regularly enrolled woman student (Chi Omega members excepted) who has done the best work in Economics during the college year. Selection is made on the basis of scholarship and general knowledge of the subject. The award is announced in April. Miss Betty Smith.

The Alfred Grunsfeld Memorial Scholarship.—The sum of \$5,000 has been established as a perpetual trust fund, the income from which is used to maintain for men two scholarships at approximately \$200 each. These scholarships are decided upon at the same time as the Miriam N. Grunsfeld Scholarships and are governed by the same general conditions as given below. Mr. Haden Pitts, Mr. Porter Stratton.

The Miriam N. Grunsfeld Scholarships.—Two scholarships of approximately \$200 each, maintained by a perpetual trust fund of \$5,000, for women. Miss Melba Katz, Miss Helen Looney.

The conditions governing these scholarships, all of which are announced each May, are as follows:

1. To be eligible for the scholarships, students must be residents of the state of New Mexico. It is also required that, during the academic year immediately preceding the award, they shall have been in actual attendance at the University as full-time students; that they shall not be above the rank of junior; and, that three of the recipients shall have been enrolled in the Department of History or the Department of Government and Citizenship (the fourth may be enrolled in any department of the University).
2. In selecting the students to receive the awards, consideration is given to their general scholarship, and to their financial requirements.

The scholarships are paid in two equal installments, one at the beginning of the first semester, and the other at the beginning of the second semester, contingent upon maintenance of good scholastic record in the normal course of study. If the student fails to register for the second semester, an alternate may be selected.

The Philo S. Bennett Prize.—The income from a 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 award is made in January. Miss Lillie Belle Bradford.

The Harry L. Dougherty Memorial Prize in Engineering.—A cash prize consisting of the income from a trust fund, is awarded each year to the student in the College of Engineering, who has made the highest scholastic average in residence during his freshman and sophomore years, while carrying a normal course of study. The prize is announced in October, following completion of the two years' work. Mr. Robert E. Moore.

The Sigma Tau Medal for Scholarship.—This medal is awarded each year to the regularly enrolled sophomore engineering student who has earned at least thirty-four hours toward graduation, and who has the highest weighted average grade for the previous year. The award is announced in September. Mr. Albert D. Ford, Jr.

The Oren W. Strong Award.—An annual gift of \$50 is awarded to a student in the University, who is a resident of the state, who has maintained a scholastic index above 1.5, and who is under the necessity of earning his living expenses. If two or more men with approximately the same scholastic index are being considered, preference shall be given to the one earning the larger share of his necessary expenses. The name of the student winning this award is announced in April, and the money is paid to him upon his registration the following autumn. Mr. Laudelle Hughes.

The Charles Florus Coan Award.—The income from a memorial fund is awarded annually, for excellence in scholarship, to a worthy student whose major field is history. The student is chosen by the faculty of the Department of History, and the award is announced in March. Miss Henrietta Bebbler.

The Rose Rudin Roosa Memorial Award.—The income from a \$1,000 cash endowment is awarded each year to the upperclassman or graduate student in the Department of Government and Citizenship who has indicated the most positive interest in the development of good citizenship, in the opinion of his professors. A paper is required. This award is announced in April. Mr. Harold Enarson.

The New Mexico Section of the American Society of Civil Engineers Award.—A certificate of merit with entrance dues 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. Mr. Robert P. Scott.

The C. M. T. C. Scholarship.—The Regents of the University of New Mexico have established a scholarship of \$100 to be awarded to the New Mexico C. M. T. C. student receiving the recommendation of the commanding officer of the camp. Mr. William P. Walker.

The Phi Kappa Phi Prizes.—Two annual cash prizes of \$10 each are awarded to the man and woman who, while carrying a regular course of study, rank highest in general scholarship for the work of their freshman year. These prizes are announced each fall when the Phi Kappa Phi Freshman Honor Roll, which includes freshmen in the upper 5 per cent of their class in scholarship, is read. Miss Ann Light, Mr. Peter Turano.

The American Association of University Women Award.—An annual award of \$50 was created by the Albuquerque branch of the A. A. U. W., to be used as a scholarship to promote advanced college training for women. It is given to a woman 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 to the committee. The award is announced late in May. Miss Laura Jean Davidson.

The Altrusa Club Music Prize.—An annual prize of \$10 is awarded to the music department major or minor above the rank of freshman, who has done the most outstanding work of the year as determined by ballot of the faculty of that department. This prize is announced in May. Miss Sammie Bratton.

The Marcella Reidy Mulcahy Memorial Prize.—An annual cash prize of \$10, established by the Kappa Kappa Gamma Alumni Association, is awarded to the student who, in the opinion of a special committee appointed by the head of the English department, has excelled in the composition of poetry. This prize is announced at the close of the first semester. Mr. Philip M. Woolworth.

The Class of 1936 Prize for Dramatic Talent.—A cash prize is awarded to the student who, in the opinions of the instructor in dramatic art and the Dean of the College of Fine Arts, has done outstanding work and who shows future promise in the field of dramatic art. Miss Louise King.

The Faculty Women's Club Scholarship.—A cash scholarship of \$50 is to be awarded to a senior or junior woman on the basis of need and scholarship. Established by the Faculty Women's Club, in 1937. This award is given the second semester of each year and is announced in February. Miss Clare Alma Swayne.

The H. J. Hagerman Memorial Prize in Public Finance.—An annual \$50 cash prize was established by the New Mexico Taxpayers Association, in 1938, to be awarded to the regularly enrolled student who presents the best original paper in the field of taxation and public finance in New Mexico. The paper should be submitted by December first, to the faculty of the Department of Economics and Business Administration, who will make the selection, and the award will be announced the same month. Mr. Zebedeo Garcia.

The Phi Sigma Scholarship Medal.—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. This award is announced in May. Mr. Roy Neill.

Honors Division Scholarships.—Students in the Honors Division are eligible for a limited number of \$25 and \$50 scholarships, to be awarded on the basis of excellence of work completed in the Division.

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.

Exchange with the National University of Mexico.—Under an arrangement entered into between the two universities, students may be exchanged between the University of New Mexico and the National University of Mexico upon mutually agreeable terms.

STUDENT ORGANIZATIONS AND ACTIVITIES

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, and to create a bond among the various women's organizations. It is governed by a council, the members of which are representatives of all women's organizations on the campus.

Honor Societies.—

Delta Phi Delta—national honorary art fraternity

Kappa Mu Epsilon—national honorary mathematics fraternity

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

Khatali—senior honorary society for men

Mortar Board—national honorary organization for senior women

Mu Alpha Nu—national honorary and professional fraternity dedicated to the sciences of anthropology

Phi Alpha Theta—national honorary fraternity for students of history

Phi Kappa Phi—national honorary scholastic society

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

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

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

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

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

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

Spurs—national honorary organization for sophomore women

Tau Kappa Alpha—national honorary debating society

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

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

National Social Fraternities, Sororities, and other groups.—

Fraternities: Kappa Alpha, Kappa Sigma, Pi Kappa Alpha, Sigma Chi, Sigma Phi Epsilon

Sororities: Alpha Chi Omega, Alpha Delta Pi, Chi Omega, Kappa Kappa Gamma, Phi Mu

Other groups: Independent Men and Phrateres.

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

All the religious denominations are represented in Albuquerque. All of the churches welcome the University students and invite them to share in their religious and social life. The University holds to a policy of non-sectarianism, but encourages its students to affiliate with the religious organizations with which their families are connected, and to attend church services regularly.

Military Training

Application has been made by the Regents to the United States Government, in behalf of the University, for a unit of the Reserve Officers Training Corps, which unit would be similar to those now in existence in most of the other state universities. The establishment of this unit awaits appropriation by Congress.

In Albuquerque, there are engineer, cavalry, medical, and band units of the New Mexico National Guard. The organizations afford an opportunity for training which is necessary for those desiring to secure commissions in the Officers Reserve Corps. Members of these units are paid for their drills in accordance with their rank, receiving the same base pay as the corresponding rank in the regular army.

Student Athletics

All intercollegiate 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

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

Student Publications

The *Lobo*, a semi-weekly publication, and *The Mirage*, an annual, are managed entirely by students. The editor and the manager of each publication are elected by the Student Publications Board, and work under the direction of this board.

Alumni Activities

The Alumni Association.—All graduates and former students of the University are eligible for membership in the Alumni Association, which was reorganized in 1927.

Alumni Publication.—*The New Mexico Alumnus*, the official publication of the Alumni Association, is published every month except July and August.

COLLEGE OF ARTS AND SCIENCES

Purpose and Function

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 home economics, mathematics or the sciences may, upon request, receive the degree of Bachelor of Science. Similarly, those who complete the requirements with a major in Business Administration may receive the degree of Bachelor of Business Administration. For requirements leading to the degree of Bachelor of Business Administration, see section of catalog entitled "Department of Economics and Business Administration."

Relation to Professional and Vocational Courses

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

Graduation Requirements

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

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 for which the student has been registered.*
3. The completion of the following specific courses: Orientation 1, physical education and group requirements as described below.

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

4. Successful conclusion of a proficiency examination in English.
5. In all cases except foreign language, students in the Lower Division are restricted to courses numbered below 101, 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 53 credit hours, exclusive of physical education, earning at least a one-point index for all hours for which he has been registered; 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 pre-medical students.)
7. 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 for which the student has been registered.*
4. Not more than 50 hours in courses open to freshmen may be taken without a penalty of 1 hour for every 3 excessive hours.

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 Registrar and the Dean of the College.

- I. **English.**—Six semester hours must be earned in English 1 ab, and 3 additional credit hours must be earned in courses numbered above 50.
- II. **Foreign Language.**—(a) 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 12 credit hours in one foreign language. (b) A student admitted with 1 unit in a foreign language must complete three semesters or 9 credit hours in courses above the first semester's work if he continues the same language. (c) A student admitted with 2 or more units in one language must complete two semesters or 6 credit hours if he continues the same language. (d) A student admitted with 3 or more units in one language may have the privilege of taking a proficiency examination, which, if passed satisfactorily, will exempt him from further language requirements.
- III. **Social Sciences.**—Nine semester hours (not more than 6 from one department) must be completed in approved† courses in the De-

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

† For approved courses, see Departments of Instruction.

partments of Anthropology, Economics and Business Administration, History, Government and Citizenship, Philosophy, Psychology, or Sociology. A student admitted with less than 1 unit in social science is required to complete 12 hours in this group.

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

Major and Minor Studies

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

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

A major or a minor in education or engineering is not accepted toward a degree in the College of Arts and Sciences.

Electives

A student who has fulfilled all requirements for graduation may complete his program with electives, but only the following courses offered by other colleges of the University are accepted toward the degree in the College of Arts and Sciences: Civil Engineering 55 L, 102; Dramatic Art 1 ab, 67 ab, 80 ab, 140 ab, 150; Education 101, 102, 105 a, 109, 119, 141, 174; Electrical Engineering 52; Engineering 1 abL, 101; Home Economics 1, 2 L, 53 abL, 68, 104, 109, 111, 128, 132, 138; Mechanical Engineering 101, 102; Physical Education, required courses, and 104 L.

Students in the College of Arts and Sciences may major and minor in Art or Music, subject to the approval of the Dean of the College. In the case of students not majoring or minoring in these departments, only the following courses are accepted toward a degree: Art 1 ab, 25, 52 ab, 125, 152 ab, and 4 hours of practical work; Music, all theoretical courses and 8 hours of practical work.

Credit normally will not be given for professional courses completed in other institutions and transferred to the University of New Mexico.

Normal Program of Studies

The normal program for a student intending to graduate in four years is 16 hours a semester. Seventeen hours, plus one semester hour of physical education, is the maximum, except by petition to the Committee on Scholarship, which may, in its discretion, grant up to 19 hours (including non-credit courses). Ordinarily, a petition for excessive hours will not be considered unless the student has in the

† For approved courses, see Departments of Instruction.

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.

Semester I		Semester II	
*English 1 a	3	*English 1 b	3
Foreign Language	3	Foreign Language	3
Social Science	3-2	Social Science	3-2
Natural Science or Mathematics	4-3	Natural Science or Mathematics	4-3
Orientation 1	2	Physical Education	1
Physical Education	1	Additional group requirements	3
Additional group requirements	2		

Special Curricula

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 deans before the end of the sophomore year.

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

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. However, most medical schools require at least three years, and many require a college degree preceding entrance into the medical school. Since the admission requirements vary, the pre-medical student should familiarize himself with the requirements of the particular school he wishes to attend.

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

* If the student fails to pass the placement test, English A is taken the first semester for no credit, and English 1 a is taken in the second semester.

Physical Education	1 - 1	Biology 1 L and 2 L	4 - 4
Orientation—Mathematics	15 2 - 3	English 1 ab	3 - 3
Chemistry 1 abL	4 - 4	French or German	3 - 3

During the second year the program should include: Physical Education, Mathematics 16, Social Science, Physics 41 ab and 41 abL, sophomore English, Psychology 51 L, and French or German. Six hours of social science during this year may, if necessary, be postponed by those majoring in Chemistry or Biology.

At the beginning of the second year, all pre-medical students should confer with the head of the department in which they propose to major.

Students interested in dentistry or in veterinary science will follow virtually the same curriculum, with the exception of Foreign Language.

Curriculum Preparatory to Law.—The law touches life at so many points that the student preparing for it should seek broad preparation in English composition and speech, history, economics, politics, philosophy, language and literature, logic and mathematics; if he wishes to become versed in the history of law, he must possess a sound knowledge of Latin.

Curriculum Preparatory to Journalism.—The journalist, also, needs great breadth of preparation. In addition to courses giving actual instruction and practice in writing, he should include in his curriculum, preferably, more than one foreign language and studies dealing with both the history and the current aspects of all major social movements. It should be kept in mind, however, that the sciences, all the other professions, and business offer abundant opportunity for writing as an avocation (not a vocation), and it is only the person of rare talent who can make a profession solely of writing.

Other Special Curricula.—The College of Arts and Sciences offers a number of other curricula designed for professional or pre-professional purposes. Suggestions for these have been worked out in detail, and may be obtained from department heads, as follows:

- Forestry—Department of Biology
- Latin-American Diplomatic, Consular and Commercial Relations
—Department of Government
- Latin-American Studies—Department of Anthropology, Department of History, Department of Spanish
- Medical Technology—Department of Biology, Department of Chemistry
- Public Administrative Work
 - Pre-Social Work—Department of Sociology
 - Public Administration—Department of Government
 - Public Financial Administration—Department of Economics

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 to the University." Students entering with less than three units in Mathematics will be required to take Mathematics 14 a in addition to the required courses listed in the curricula.

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 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 Engineering Chemistry, and Bachelor of Science in Petroleum Engineering. It is also possible to arrange a program of study so that the Bachelor of Arts degree can be obtained in one additional year.

Aeronautical Engineering.—The work in aeronautical engineering is offered as an option in the Department of Mechanical Engineering; however, a complete four-year program of study is offered in this field.

Flight Training Program.—The Civil Aeronautics Authority is sponsoring a pilot training program under the College of Engineering. The work consists of a ground school course lasting one semester and not less than thirty-five hours of flight training with the Cutter Flying Service at the Municipal Airport in Albuquerque. The student will receive a private pilot's license from the Civil Aeronautics Authority when the course is satisfactorily completed.

For the school year, 1939-40, twenty-seven men and three women have enrolled for the course. Any student enrolled in the University is eligible for this course if he can meet the requirements of the Civil Aeronautics Authority. An additional fee is charged to cover the medical examination, insurance, and general expense of the course.

Architectural Engineering.—The Department of Architecture is in the College of Fine Arts. It is possible for a student to work out

between the two colleges, two or three years of the course usually required for architectural engineering.

Laboratories and Equipment

Drawing and Design Laboratories.—Three well-equipped rooms in Hadley Hall are provided for all of the drafting room work offered.

Civil Engineering Laboratories.—The department provides for laboratories for road material, building material, and hydraulics, and surveying equipment to be used in all types of elementary and advanced field courses.

The materials testing laboratory is equipped for making tests of cement, concrete, stone, brick, tile, timber, steel, soils, and other material used in engineering practice. Tests are conducted by students to illustrate the properties of these materials. The laboratory is also used for research problems and, to a limited extent, for commercial testing. All equipment and all tests conform to accepted standards of engineering practice.

The hydraulics laboratory is equipped to study the flow of water in open channels, through pipes and orifices, and over weirs, illustrating the principles of hydraulics as used in the theoretical courses and in courses in water supply, sewerage, and drainage.

The highway testing laboratory contains a complete set of equipment for making standard tests on road oils and asphalts, and also machines for testing of gravels used in highway construction.

Field work and office computations in surveying are conducted with modern equipment of the highest grade.

The Materials Laboratories of the New Mexico State Highway Department have been built in space adjoining the Civil Engineering laboratories and contain modern equipment adequate for making all types of tests of road building materials. These laboratories are open for inspection by engineering students and for research work by members of the faculty.

Electrical Engineering Laboratories.—The laboratory work of the department is carried on in the power laboratory, which occupies about 2,600 square feet of floor space on the ground floor of Hadley Hall, and the electronics laboratory, which is housed in three adjoining rooms having an area of about 400 square feet.

The power laboratory is equipped with motors and generators of all the common types, for both direct and alternating current, and a variety of special machines such as a rotary converter, a 2,000-volt D.-C. generator, etc. Starting, speed-controlling, and loading devices are available so that the principles of operation of motors and generators can be studied and all of the standard tests on dynamos can be made.

The transformer section includes a number of standard transformers of various capacities and voltage ratings, and such special types as a constant-current series lighting regulator, a 50,000-volt testing transformer, autotransformers, voltage regulators, etc.

The power supply for this laboratory is brought in at 2,300 volts and is stepped down to 115 and 230 volts for use. Direct current is provided by a large motor-generator set and by a large battery.

The electronics laboratory is equipped for the study of the theory

and applications of vacuum tubes, photo-electric cells, amplifiers, and other electronic devices. A large amount of radio and telephone equipment is available for work in those fields. The department owns and operates a short-wave radio station and has recently purchased the facilities formerly used by the U. S. Bureau of Air Commerce for airway communication.

In addition to the equipment mentioned above, the laboratory facilities include a wide variety of instruments, meters, speed-measuring devices, instrument transformers, an electromagnetic oscilloscope, two cathode-ray oscilloscopes, oscillators, bridges, and other equipment for use in electrical measurements.

Mechanical Engineering Laboratory.—In 1937, the laboratory was moved to new quarters adjacent to the new heating plant. Equipment is provided for experimental work in the fields of heat power, of air and gas flow, and of refrigeration.

In the field of heat power, the laboratory has the following major equipment in addition to auxiliary equipment and necessary instruments:

A steam engine equipped with a Prony brake, two types of valves, and two types of governors.

A steam turbine equipped with an oil relay governor and a water brake. This unit is also connected to a direct current generator for loading.

A surface condenser with a steam-air injector.

A small vertical fire-tube boiler equipped for gas firing.

A 300-h.p. water-tube boiler fired with gas and equipped with forced-draft fan, induced-draft fan, and automatic combustion control.

An electric dynamometer with a Ford V-8 engine and a Dodge engine.

A gasoline engine with a variable compression ratio for fuel research. This unit is also equipped with an electric dynamometer.

Calorimeters for determining the heat value of solid, liquid, and gas fuels.

In the field of air and gas flow, the laboratory is equipped with a steam-driven, two-stage air compressor, an air-flow test set, and recording and indicating meters for measuring the flow of air, steam, and natural gas.

In the field of refrigeration, the laboratory is equipped with a complete test plant including an ammonia compressor, receivers, coolers, heat exchangers, etc.

Aeronautical Engineering Laboratory.—This laboratory is equipped to provide for experimental work in aerodynamics, airplane structures, and aircraft engines. The equipment approved for this laboratory includes aircraft engines, both air cooled and water cooled, wing sections, fuselage sections, air navigation instruments, radio communication equipment, and a wind tunnel to study fluid phenomena.

Petroleum Engineering Laboratory.—The laboratory for this department is housed in the heating plant with the mechanical engineering laboratory. Equipment is available for the study of oil and gas flow, fuel analysis, and lubrication as well as tests on the various types of heat engines and pumps.

Requirements for Graduation

Candidates for the degree of Bachelor of Science in any of the departments must complete all of the work outlined in their respective curricula. Electives, where permitted, are to be chosen with the advice and consent of the dean and of the head of the major department. The course of study for the first year is uniform for all departments. At the end of the freshman year, the student should elect the course which he intends to follow and report his choice to the dean's office.

Students who are required to take English A must do so in addition to the regular courses in English. Two-thirds of the semester hours in the required work must be of C grade or better, and the total number of grade points in the hours offered for graduation must equal the total number of hours.

Curricula Offered by the College of Engineering

Courses of Study for All Engineering Students

First Year

	Credits	
	Sem. I	Sem. II
Math. 15—College Algebra	3	
Math. 16—Plane Trigonometry	3	
Math. 22—Plane Analytic Geometry		3
Chem. 1 ab		
and 1 abL—Inorganic Chemistry and Laboratory ...	4	4
English 1ab—Freshman Composition	3	3
Engr. 1 abL—Engineering Drawing & Descriptive Geometry	3	3
Engr. 5—Orientation	1	
Engr. 6—Engineering Problems		1
Electives		3
Phys. Ed.	1	1

Note: Students who do not meet the entrance requirements in mathematics will be required to take Math. 14 a in addition to the above.

Students who want Electrical Engineering should take Engineering 53 for their elective.

Curriculum Leading to the Degree of Bachelor of Science in Civil Engineering.—

Second Year

	Credits	
	Sem. I	Sem. II
Math. 53—Differential Calculus	4	
Math. 54—Integral Calculus		4
Physics 41 abL—General Physics and Laboratory ...	4	4
English 64 a—Advanced Composition and Speech ...	3	
Geology 1—Physical Geology		3
Geology 5 L—Physical Geology Laboratory		1
Econ. 105—Principles of Economics	3	
C. E. 55 L—Surveying	3	
C. E. 56 L—Advanced Surveying		4
Phys. Ed.	1	1

Third Year

Engr. 101—Mechanics -----	4	
Engr. 102—Strength of Materials -----		4
Engr. 104 L—Strength of Materials Laboratory -----		2
Engr. 111—Engineering Economy -----	2	
E. E. 105 L—Elements of Electrical Engineering -----		5
M. E. 101—Heat Power Engineering -----	3	
C. E. 104 L—Curves and Earthwork -----	4	
C. E. 110—Hydraulics -----		3
C. E. 115 L—Masonry Materials -----		3
C. E. 118 L—Highway Engineering -----	4	
Field School		
C. E. 157 F—Field School -----	2	

Fourth Year

Engr. 151 ab—Seminar -----	1	1
Engr. 152—Contracts and Specifications -----		2
C. E. 159 L—Theory of Structures -----	5	
C. E. 160 L—Design of Structures -----		5
C. E. 162—Water Supply -----	3	
C. E. 165—Sewerage -----		3
C. E. 167 L—Soils -----	3	
C. E. 173 L—Hydraulics Laboratory -----	1	
C. E.—Elective -----		3
Electives -----	3	3
Electives in Civil Engineering		
C. E. 166 L—Municipal Design -----	3	
C. E. 184—Water Power -----	3	
C. E. 186—Highway Administration and Finance -----		3

Curriculum Leading to the Degree of Bachelor of Science in Electrical Engineering.—

Second Year

	Credits	
	Sem. I	Sem. II
Math. 53—Differential Calculus -----	4	
Math. 54—Integral Calculus -----		4
Physics 41 abL—General Physics and Laboratory -----	4	4
Econ. 105—Principles of Economics -----	3	
Econ.—Elective -----		3
English 64 ab—Advanced Composition and Speech -----	3	3
E. E. 52—Introduction to Electrical Engr. -----		2
Elective -----	3	
Phys. Ed. -----	1	1

Third Year

Physics 111 a—Electricity & Magnetism -----	3	
Physics 111 aL—Electricity & Magnetism Laboratory -----	2	
M. E. 101—Heat Power Engineering -----	3	
M. E. 102—Thermodynamics -----		3
M. E. 103 L—Heat-Power Laboratory -----		2
Engr. 101—Mechanics -----	4	
Engr. 102—Strength of Materials -----		4
E. E. 101 L—Direct Current Machinery -----	6	
E. E. 102 L—Theory of Alternating Currents -----		4
E. E. 132 L—Electronics -----		4

Fourth Year

Engr. 151 ab—Seminar	1	1
Engr. 152—Contracts & Specifications		2
E. E. 151 abL—Alternating Current Machinery	4	4
E. E. 161 abL—Design of Electrical Machinery	2	2
E. E. 168—Illumination	2	
E. E. 196—Power Transmission & Distribution		3

Power Option

C. E. 110—Hydraulics		3
E. E. 186—Generating Stations		3
Electives	7	

Communication Option

E. E. 191 L—Radio Telephony	4	
Electives	3	6

Curriculum Leading to the Degree of Bachelor of Science in Mechanical Engineering.—

Second Year

	Credits	
	Sem. I	Sem. II
Math. 53—Differential Calculus	4	
Math. 54—Integral Calculus		4
Physics 41 abL—General Physics and Laboratory	4	4
English 64 ab—Advanced Composition and Speech	3	3
Econ. 105—Principles of Economics	3	
Engr. 53—Engineering Materials		3
C. E. 54 L—Elementary Surveying		2
M. E. 52 L—Shop Methods	3	
Phys. Ed.	1	1

Third Year

Engr. 101—Mechanics	4	
Engr. 102—Strength of Materials		4
Engr. 104 L—Strength of Materials Laboratory		2
C. E. 110—Hydraulics		3
Engr. 111—Engineering Economy	2	
E. E. 105 L—Elements of Electrical Engineering	5	
M. E. 101—Heat Power Engineering	3	
M. E. 102—Thermodynamics		3
M. E. 103 L—Heat Power Laboratory	2	
M. E. 114 L—Mechanisms		4

Fourth Year

C. E. 173 L—Hydraulics Laboratory	1	
Engr. 151 ab—Seminar	1	1
Engr. 152—Contracts and Specifications		2
M. E. 151 abL—Mechanical Engineering Laboratory	2	2
M. E. 153 abL—Machine Design	3	3
M. E. 155—Power Plants	3	
M. E. 156—Industrial Engineering		3
M. E. 160—Internal Combustion Engines	3	
M. E. 162 L—Air Conditioning		3
Electives	3	3

Aeronautical Option

Third Year

Engr. 101—Mechanics -----	4	
Engr. 102—Strength of Materials -----		4
Engr. 104 L—Materials Laboratory -----		2
Engr. 111—Engineering Economy -----	2	
M. E. 101—Heat Power Engineering -----	3	
M. E. 102—Thermodynamics -----		3
M. E. 103 L—Heat Power Laboratory -----	2	
M. E. 114 L—Mechanisms -----		4
M. E. 121—General Aeronautics -----	3	
M. E. 122—Aerodynamics -----		3
M. E. 123 L—Aeronautical Engineering Laboratory -----	2	

Fourth Year

C. E. 110—Hydraulics -----		3
Engr. 151 ab—Seminar -----	1	1
Engr. 152—Contracts and Specifications -----		2
E. E. 105 L—Elements of Electrical Engineering ---	5	
M. E. 151 abL—Mechanical Engineering Laboratory	2	2
M. E. 153 abL—Machine Design -----	3	3
M. E. 160—Internal Combustion Engines -----	3	
M. E. 171—Airplane Structures -----	3	
M. E. 172—Airplane Design -----		3
Electives -----		3

Curriculum Leading to the Degree of Bachelor of Science in Engineering Chemistry.—

Second Year

	Credits	
	Sem. I	Sem. II
Math. 53—Differential Calculus -----	4	
Math. 54—Integral Calculus -----		4
Physics 41 abL—General Physics and Laboratory ---	4	4
Engr. 53—Engineering Materials -----		3
Chem. 52 abL—Principles of Quantitative Analysis	3	3
French or German -----	3	3
Elective -----	3	
Phys. Ed. -----	1	1

Third Year

Engr. 101—Mechanics -----	4	
Engr. 102—Strength of Materials -----		4
Engr. 104 L—Strength of Materials Laboratory ---		2
M. E. 101—Heat Power Engineering -----	3	
M. E. 102—Thermodynamics -----		3
M. E. 103 L—Heat-Power Laboratory -----	2	
M. E. 114 L—Mechanisms -----		4
Chem. 102 abL—Organic Chemistry -----	4	4
Chem. 112—Industrial Chemistry -----	2	
Chem. 113—Metallurgy -----		2
English 64 a—Advanced Composition & Speech ---	3	

Fourth Year

M. E. 151 abL—Mechanical Engineering Laboratory	2	2
M. E. 156—Industrial Engineering -----		3
E. E. 105 L—Elements of Electrical Engineering ---	5	

Chem. 109—Survey of Physical Chemistry	3	
Chem. 110 L—Physical Chemistry Laboratory		4
Chem. 140—Chemistry Seminar		1
Chem. 152—Advanced Quantitative Analysis	5	
Electives	2	6

Curriculum Leading to the Degree of Bachelor of Science in
Petroleum Engineering.—

	Credits	
	Sem. I	Sem. II
Second Year		
Math. 53—Differential Calculus	4	
Math. 54—Integral Calculus		4
Physics 41 abL—General Physics and Laboratory	4	4
English 64 ab—Advanced Composition and Speech	3	3
Econ. 105—Principles of Economics	3	
Chem. 52 aL—Principles of Quantitative Analysis	3	
Engr. 53—Engineering Materials		3
C. E. 54 L—Elementary Surveying		2
Phys. Ed.	1	1
Third Year		
Engr. 101—Mechanics	4	
Engr. 102—Strength of Materials		4
Engr. 104 L—Strength of Materials Laboratory		2
M. E. 101—Heat Power Engineering	3	
M. E. 102—Thermodynamics		3
M. E. 103 L—Heat Power Laboratory		2
Pet. 131 ab—Petroleum Engineering	3	3
Chem. 102 aL—Organic Chemistry	4	
Geology 1—Physical Geology	3	
Geology 2—Historical Geology		3
Geology 5 L—Physical Geology Laboratory	1	
Geology 6 L—Historical Geology Laboratory		1
Fourth Year		
C. E. 110—Hydraulics		3
Engr. 111—Engineering Economy	3	
Engr. 151 ab—Seminar	1	1
E. E. 105 L—Elements of Electrical Engineering	5	
M. E. 151 abL—Mechanical Engineering Laboratory	2	2
Pet. 181 ab—Advanced Petroleum Engineering	3	3
Geology 108—Structural Geology		3
Geology 115—Petroleum Geology		3
Geology 116—Sedimentation	3	
Elective		3

COLLEGE OF EDUCATION

Purpose

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, training, 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; the provision of courses in the various fields of education, and of 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. It is advisable for supervisors and school executives, however, to major in educational administration.

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.

Admission

For the quantitative requirements for admission to the College of Education, see "Admission to the University."

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.

Graduates of the standard (two-year) curriculum for state teachers' colleges, who had been graduated previously from a four-year high school (covering requirements for entrance to the freshman class in this institution), are accorded 62 semester hours credit, including 16 semester hours in education and psychology. Work done after completion of a two-year course will be considered on its merits.

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 physical education, 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 anxious 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 athletic 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.

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 the 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.

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 principal, and director of practice teaching of the College of Education.

Placement Bureau

A placement bureau, one function of which is to assist students and graduates of the University in obtaining positions in the teaching profession, is maintained by the University. The bureau aims to keep on file a complete record of the scholarship, experience, and personal qualifications of each candidate for a position. Copies of these records will be mailed to school officials at their request. Officials seeking teachers should be explicit in their requests, stating the nature of the work to be done, the length of the school year, the approximate salary offered, the approximate cost of board, and the time when the engagement begins. Whenever a notice of a vacancy is received, the Placement Bureau will recommend the best available person for the position. The University reserves the right to refuse to extend its co-operation to students who apply for positions for which they are manifestly unfit.

The Placement Bureau will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

Blanks for registration may be obtained from the Placement Bureau. Registration should be renewed yearly, preferably during February or March. Communications should be addressed to the Placement Bureau.

Extension Division

The Extension Division of the University is a member of the National University Extension Association and is under the supervision of the College of Education. A special bulletin has been issued, giving regulations and information concerning courses and services offered.

For further information, address the director of the Extension Division.

Scholarship Regulations

Scholarship regulations for Freshmen and Sophomores are as follows:

Probation.—A student is placed on probation at the end of any semester when the total number of points earned in university work drops below three-fourths of the total number of hours for which the student has registered.* Hours given the mark of W will be excluded from this computation.

Suspension

General.—A student will be recommended for suspension at the end of any semester when he is placed on probation for the second successive time.

Regulations for Juniors and Seniors.—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 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.

*Exclusive of hours in required P. E. and ensemble music.

Requirements for Graduation

Upon the completion of all specified requirements, candidates for degrees in the College of Education who major in 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; and those who major in other subjects receive the degree of Bachelor of Arts in Education.

Candidates for degrees in the College of Education are required to comply with the following regulations:

1. Students who plan to be high school teachers should complete a major and a minor in subjects usually taught in high schools.
2. A major is the principal subject which the student desires to teach in high school. It consists of a minimum of twenty-four semester hours above freshman grade in the subject selected. It must be chosen with the advice of the dean.

A minor should be selected in a subject which the student plans to teach, and whenever possible, the student should secure a second minor. The specific requirements for majors and minors are listed under the several departments; the work in these fields must be of at least C quality, and courses in which the grade of D is earned are accepted only as electives.

3. It is often necessary for the teacher of science to teach classes in more than one field. The same is true of teachers of social science. This makes it impossible for students to make adequate preparation for teaching in these fields by completing a major in any one department of the University.

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 Geography, 12 electives from social studies departments. No minor is required with the general social studies major, but one is strongly recommended.

C. Major in Social Studies in Elementary Education

Students preparing to teach in elementary schools may be permitted to offer a major in general social studies. Such general social studies major shall consist of at least 45 hours, including freshman courses, of which 15 hours shall be in the Departments of History and Government and Citizenship; 15 hours in the Departments of Geography, Anthropology, and Geology, and 15 hours in the Departments of Sociology, Economics, and Psychology, including Psychology 51 L and 54. Not more than 9 hours shall be offered in any one department. No minor is required with the general social studies major.

4. Students who intend to take the four-year curriculum for elementary school teaching are advised to select their majors from the following fields: English, history, biology, anthropology, geology, and sociology. All natively English-speaking students who plan to teach in New Mexico are advised to minor in Spanish.
5. Students preparing to teach should follow the curricula as outlined. A minimum of 128 semester hours, including physical education, 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. Each candidate for a degree must complete at least 40 semester hours in courses numbered above 100.
9. No student shall be recommended for graduation unless he shows ability to write clear and correct English.
10. For minimum residence requirements, see "Graduation Requirements."

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 "Graduation Requirements."

- I. **English.**—As evidence of proficiency in oral and written English a student must earn 12 semester hours. Six hours must be earned in English 1 ab, and 6 additional hours must be earned in courses numbered above 50. (In the elementary curriculum, these additional hours must be in literature.)
- II. **Foreign Language.**—(a) 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 12 hours in one foreign language. (b) A student admitted with one unit in a foreign language must earn 9 credit hours in courses above the first semester's work if he continues the same language. (c) A student admitted with two or more units in one language must earn 6 semester hours if he continues the same language. (d) A student admitted with three or more units in one language may have the privilege of taking a proficiency examination, which, if passed satisfactorily, will exempt him from further language requirements. (e) Substitutions may be made as follows:

- (1) Administrators and supervisors may substitute an equal number of hours of professional subjects.
- (2) High school and elementary teachers may substitute an equal number of hours in their major and minor fields in addition to the regular requirements. This additional work must be of C grade or better.

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. A student admitted with less than one unit in social science is required to complete twelve hours in this group.

IV. Mathematics and Sciences.—Eleven semester hours (not more than 8 from one department, and including 6 hours in courses that require laboratory work) must be completed in approved* courses in the Departments of Biology, Chemistry, Geology, Home Economics, Mathematics, Physics, or Psychology. A student admitted with high school deficiencies in both mathematics and science is required to complete a total of 17 hours in this group.

Curricula

The following curricula have been outlined for the purpose of directing students in their chosen fields of work. There are curricula for students preparing to teach in high schools, and for students who wish to teach in the elementary schools. Courses are also outlined for students who plan to leave the University at the end of the second year and qualify for the Professional Elementary Certificate.

Special curricula are provided for students preparing to teach art, music, physical education, or home economics in public schools.

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.)

Semester I		First Year		Semester II	
English 1 a	3	English 1 b	3	English 1 b	3
Mathematics or Science	3-4	Mathematics or Science	3-4	Mathematics or Science	3-4
Social Studies	3	Social Studies	3	Social Studies	3
†Foreign Language	3	†Foreign Language	3	†Foreign Language	3
Education 31	2	Physical Education	1	Physical Education	1
Physical Education	1	Electives	3	Electives	3

*For approved courses, see Departments of Instruction.

†For substitution see Group Requirements for Graduation.

Second Year

Semester I		Semester II	
English	3	English	3
Psychology 51 L	3	†Education 54 (Psychology)	3
Social Studies	3	Physical Education	1
†Foreign Language	3	Electives or Science	6-7
Electives	3		
Physical Education	1	†Foreign Language	3

Third Year

*Education 101	3	*Education 102	3
Education 107	2	Education 153	3
Education 141	3	§Teachers' Course	3
¶Majors and Minors	8-9	¶Majors and Minors	10-11

Fourth Year

§Teachers' Course	3	Education 156	5
¶Majors and Minors	13	¶Majors and Minors	11

Curricula for Students Preparing to Teach in the Elementary Schools.—(Leading to the degree of Bachelor of Arts in Education or Bachelor of Science in Education.)

First Year

English 1 a	3	English 1 b	3
Education 31	2	Education 42	3
†Foreign Language	3	†Foreign Language	3
Mathematics or Science	3-4	Mathematics or Science	3-4
Social Studies	3	Social Studies	3
Physical Education	1	Physical Education	1

Second Year

English Literature	3	English Literature	3
Psychology 51 L	3	Education 54 (Psychology)	3
Education 61	3	Education 62	3
†Foreign Language	3	†Foreign Language	3
Mathematics 1	2	Health Education	2
Physical Education	1	Social Studies	3
		Physical Education	1

Third Year

Education 107	2	Education 174	3
Education 91 or 131	3	Majors and Minors	12-14
Majors and Minors	10-12		

Fourth Year

Education 123	3	Education 136	5
Majors and Minors	12-14	Majors and Minors	8-10

Students who plan to leave the University at the end of their second year to teach in the elementary schools of New Mexico should take the following courses:

¶For required courses see Departments of Instruction.

†For substitution, see Group Requirements for Graduation.

‡If not taken during the sophomore year, an advanced course must be substituted according to the advice of the Dean.

*One of these courses is required.

||Not required for graduation, but for state certification.

§One teacher's course, according to the advice of the Dean.

Semester I		First Year	Semester II	
English 1 a	3	English 1 b	3	
Education 31	2	Education 42	3	
*†Foreign Language	3	*†Foreign Language	3	
Mathematics or Science	3-4	Mathematics or Science	3-4	
Social Studies	3	Social Studies	3	
Physical Education	1	Physical Education	1	
Second Year				
English Literature	3	English Literature	3	
Psychology 51 L	3	Education 54 (Psychology)	3	
Education 91 or 131	3	Health Education	2	
Education 61	3	Education 62	3	
Mathematics 1	2	Education 64	4	
Physical Education	1	Physical Education	1	

Curricula for Men Students Preparing to Be Physical Education Directors in High Schools.—Outlined for men preparing to teach physical education. This curriculum leads to the degree of Bachelor of Science in Physical Education.

First Year		Second Year		Third Year		Fourth Year	
English 1 a	3	English 1 b	3	English 55	3	English 58	3
Chemistry 1 a and 1 aL	4	Chemistry 1 b and 1 bL	4	Psychology 51 L	3	†Education 54	3
Education 31	2	Biology 1 L	4	Physical Education 61	2	Physical Education 62	2
Sociology	3	Sociology	3	Biology 97 L	4	Physical Education M	1
Physical Education M	1	Physical Education 22	2	Physical Education M	1	Electives	7
Elective	3	Physical Education M	1	Electives	2		
Third Year							
Physical Education 104 L	4	*Education 102	3	Physical Education 101	2	Physical Education 167	3
Education 107	2	Biology 93 L	4	†Education 183	3	Electives	3
Education 141	3	Physical Education 102	2				
*Education 101	3	Physical Education 162	3				
Minor or Electives	2-3	Home Economics 104	2				
Physical Education 101	2	Physical Education 167	3				
†Education 183	3	Electives	3				
Fourth Year							
Education 153	3	Education 156	5				
Physical Education 161	2	Physical Education 183 b	2				
Physical Education 136	2	Physical Education 172	3				
Physical Education 135	2	Physical Education 186	2				
Physical Education 183 a	2	Electives	5				
Minor or Electives	3-4						

The following minors in physical education have been outlined for men:

†One of these courses is required.

*†Optional.

*One of these courses is required.

Athletic Coaching.—Twenty-five semester hours. This minor 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.

Home Economics 104	2	Physical Education 172	3
Physical Education 22	2	Biology 1 L	4
Physical Education 61	2	Biology 97 L	4
Physical Education 62	2	Physical Education 104 L	4
Physical Education 136	2		

Formal Physical Education.—Twenty-five credit hours. This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subjects.

Home Economics 104	2	Physical Education 172	3
Physical Education 101	2	Biology 1 L	4
Physical Education 102	2	Biology 97 L	4
Physical Education 135	2	Physical Education 104 L	4
Physical Education 161	2		

Curriculum for Women Students Preparing to Teach Physical Education.—Designed for the training of teachers and supervisors of physical education. The curriculum leads to a degree of Bachelor of Science in Physical Education. Only students in satisfactory physical condition may take the course.

First Year

Semester I		Semester II	
Physical Education W*	1	Physical Education W*	1
Physical Education W*	1	English 1 b	3
English 1 a	3	Chemistry 1 b and 1 bL	4
Chemistry 1 a and 1 aL	4	Biology 1 L	4
Sociology 2	3	Physical Education 15	1
Education 31	2	Electives	3
Elective	2		

Second Year

English 55	3	English 92	3
Psychology 51 L	3	Education 54	3
Biology 97 L	4	Physical Education 65 b	2
Physical Education 65 a	2	Physical Education W% b	1
Physical Education W%	1	Physical Education W%	1
Electives	2	Sociology 4	3
		Electives	3

Third Year

Education 107	2	Physical Education W§	1
Education 141	3	Biology 93 L	4
Physical Education 105 a	3	Physical Education 105 b	3
Education 101	3	Physical Education 107 b	2
Physical Education 107 a	2	Home Economics 104	2
Physical Education W§ 2	1	Electives	3
Physical Education 104 L	4		

*Activities must include: Soccer, Speedball, Volleyball, Tennis, Folk Dance, Basketball, and Baseball.

%Activities must include: Hockey, Tumbling, Tennis, and Folk Dance.

§Activities must include: Archery, Gymnastics, and Recreational Games.

Fourth Year			
Semester I		Semester II	
Physical Education 155	2	Physical Education 156	2
Physical Education 157	4	Physical Education 172	3
Physical Education 161	2	Physical Education 135	2
Physical Education W elective	1	Education 156	5
Minor or electives	4	Physical Education Elective	1
Physical Education 124	1	Physical Education 167	3
Education 153	3		

Curriculum for Students Preparing to Teach Home Economics.—
(Leading to the degree of Bachelor of Science in Education.)

First Year			
English 1 a	3	English 1 b	3
Biology 1 L	4	Biology 36	2
Art 1 a	3	Art 1 b	3
Education 31	2	Sociology	3
Home Economics 1	3	Home Economics 2 L	4
Physical Education	1	Physical Education	1
Second Year			
English 65	3	Elective in English	3
Chemistry 1 a & 1 aL	4	Chemistry 1 b & 1 bL	4
Psychology 51 L	3	Educational Psychology	3
Home Economics 53 aL	3	Home Economics 53 bL	3
Home Economics 63 aL	3	Home Economics 63 bL	3
Physical Education	1	Physical Education	1
Third Year			
Education 141	3	Education 153	3
Home Economics 107 L	3	Home Economics 132	3
Home Economics 138	3	Biology 93 L	4
Economics 105	3	Electives	6
Biology 97 L	4		
Electives	1		
Fourth Year			
Electives in Education	3	Education 156	5
Home Economics 127	4	Home Economics 182	4
Education 155 d	3	Home Economics 196	1-2
Home Economics 133 L	3	Electives	6-7
Elective	3		

Curricula for Music Education.—The following courses will satisfy the requirements for a major study in Music Education for Elementary School Teachers. Candidates must also complete a minor study. The applied music should include voice and instrumental work, the number of hours in each to be determined upon consultation with the head of the Department of Music Education.

Music 3 ab	4	Education 131, 155 f	6
Music 13 ab	4	Ensemble Music	2
Music 55 ab	2	Applied Music	6
Music 161 ab	4		
Music 163 ab	4		

The following courses will satisfy the requirements for a major study in Music Education for High School Teachers. Candidates must also complete a minor study. The applied music should include voice or instrumental work, the number of hours in each to be determined upon consultation with the head of the Department of Music Education.

Music 3 ab	4	Education 131, 155 f	6
Music 13 ab	4	Dramatic Art 30 a	2
Music 55 ab	2	Dramatic Art 40	2
Music 105 ab	4	Dramatic Art 90 a	2
Music 161 ab	4	Ensemble Music	4
Music 163 ab	4	Applied Music	8
Music 177 ab	4		

The following music courses will satisfy the requirements for a minor in Music Education. The applied music should include voice or instrumental work, the number of hours in each to be determined upon consultation with the head of the Department of Music Education.

Music 3 ab	4	Education 131, 155 f	6
Music 13 ab	4	Applied Music	4
Music 55 ab	2	Ensemble Music	4
Music 161 ab or 163 ab	4		

Curriculum for Administrators and Supervisors.—Twenty-four semester hours of work in courses numbered above 50 are necessary for a major. The following courses will satisfy the requirements for a major study in administration and supervision. Candidates must also complete a minor study.

Educational Psychology	3	City School Administration	3
History of Education	3	State School Administration	3
Mental Measurements	3	Supervision of Elementary Education	3
Educational Tests and Statistics	3	Educational and Vocational Guidance	3

Curriculum for Special Art Supervisors.—Designed for the training of teachers and supervisors of Art. The curriculum leads to the degree of Bachelor of Arts in Education.

Semester I		First Year	Semester II	
English 1 a	3	English 1 b	3	
Mathematics or Science	3-4	Mathematics or Science	3-4	
Social Studies	3	Social Studies	3	
Art 1 a	3	Art 1 b	3	
Education 31	2	Art 32	2	
Dramatic Art 3 a or Physical Education	1-2	Dramatic Art 3 b or Physical Education	1-2	
Second Year				
English	3	English	3	
Psychology 51 L	3	Education 54	3	
Social Studies	3	Art 45 b	3	
Art 45 a	3	Art 51 b	2	
Art 51 a	2	Elective	3	

Semester I		Semester II	
Electives	2	Dramatic Art 92 or	
Physical Education	1	Physical Education	1-2
Third Year			
Education 101	3	Education 91	2
Education 107	2	Education 153	3
Education 141	3	Art 52 b	3
Art 52 a	3	Art 63 b	3
Art 63 a	3	Elective	3
Art 75 a or 133 a	3	Art 75 b or 133 b	3
Fourth Year			
Education 155 a	2	Education 156	5
Art 95 a	1	Art 95 b	1
Art 85 a	3	Art 85 b	3
Art 152 a	3	Art 152 b	3
Electives	7-8	Art elective	4

One summer in the Field School of Art at Taos is recommended.

COLLEGE OF FINE ARTS

Purpose and Function

The College of Fine Arts is established for the following purposes: (1) To stimulate a greater interest in the arts, both fine and applied; (2) To offer those who specialize in any of the fields of art an opportunity to do so; (3) To co-ordinate more efficiently the work in architecture, dramatics, music, and painting and design; and (4) To make a better use of the unique facilities afforded by the state of New Mexico for the study and practice of the arts.

Departments and Degrees Offered

As constituted, the departments of this college are: Architecture (two years), Art (Painting and Design), Dramatic Art, and Music. Courses leading to the degree of Bachelor of Fine Arts in Dramatic Art, Music, and Art are offered.

Graduation Requirements

Candidates for degrees must complete all requirements outlined in the respective curricula. One hundred hours must be of 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.

Curricula

Curriculum in Dramatic Art.—(Leading to the degree of Bachelor of Fine Arts in Dramatic Art. Hours required for graduation, 138.)

Semester I	First Year	Semester II	
English 1 a	3	English 1 b	3
Foreign Language	3	Foreign Language	3
Art 1 a	3	Dramatic Art 1 b	3
Dramatic Art 1 a	3	Dramatic Art 30 b	2
Dramatic Art 30 a	2	Dramatic Art 40	2
Elective	2	Science or Social Science	4-3
Dramatic Art 3 a	2	Dramatic Art 3 b	2
Second Year			
English 53 a or 57 a	3	Elective in Literature	2
English 63 or 65	3	Foreign Language	3
Foreign Language	3	Science or Social Science	4-3
History 1 a	3	History 1 b	3
Dramatic Art 70 a	2	Dramatic Art 70 b	2
Dramatic Art 80 a	2	Dramatic Art 80 b	2
Dramatic Art 90 a	2	Dramatic Art 90 b	2
Third Year			
English Elective in Drama	2	English Elective	2
Dramatic Art 130 a	3	Dramatic Art 130 b	3
Dramatic Art 140 a	3	Dramatic Art 140 b	3
Dramatic Art 160 a	3	Dramatic Art 160 b	3
Physical Education (Fencing)	1	Physical Education (Fencing)	1
Electives	7-5	Electives	7-5

Fourth Year

Semester I		Semester II	
English Elective	3	English Elective in Drama	3
Dramatic Art 180 a	3	Dramatic Art 180 b	3
Dramatic Art 199 a	2	Dramatic Art 199 b	2
Physical Education (Fencing)	1	Physical Education (Fencing)	1
Electives	9-8	Electives	9-7

The student is advised to choose his electives largely from fields closely allied to dramatic art, such as literature, either English or foreign, especially courses in Greek, Spanish, and French drama, or the European drama after Ibsen; from cultural subjects in the Department of Music; and from courses in design in the Department of Art.

In physical education, the student is advised to take as much dancing and fencing as he can secure.

Curriculum in Music—Vocal or Instrumental.—(Leading to the degree of Bachelor of Fine Arts in Music. Hours required for graduation, 143.)

First Year

English 1 a	3	English 1 b	3
Modern Language	3	Modern Language	3
Music 1 a (Applied)	4	Music 1 b (Applied)	4
Music 3 a	2	Music 3 b	2
Music 13 a	2	Music 13 b	2
Elective	2	Science or Social Science	4-3
Ensemble Music	1	Ensemble Music	1
Physical Education	1	Physical Education	1

Second Year

English 53 a	3	English 53 b	3
Modern Language	3	Modern Language	3
Music 51 a (Applied)	4	Music 51 b (Applied)	4
Music 53 a	2	Music 53 b	2
Music 63 a	2	Music 63 b	2
Music 71 a	2	Music 71 b	2
Ensemble Music	1	Ensemble Music	1
Physical Education	1	Physical Education	1

Third Year

Modern Language	3	Modern Language	3
History 1 a	3	History 1 b	3
Music 101 a (Applied)	4	Music 101 b (Applied)	4
Music 105 a	2	Music 105 b	2
Music 161 a	2	Music 161 b	2
Ensemble Music	1	Ensemble Music	1
Electives	5-3	Electives	5-3

Fourth Year

Modern Language	3	Modern Language	3
Music 151 a (Applied)	4	Music 151 b (Applied)	4
Music 152 a	2	Music 163 b	2
Music 163 a	2	Music 152 b	2
Music 190 a	2	Music 190 b	2
Ensemble Music	1	Ensemble Music	1
Electives	5-3	Electives	5-3

Students majoring in an instrument may substitute 12 hours of electives for the last two years of foreign language.

Students are advised to choose their electives from fields allied to music, such as history of art; design; dramatic history; and literature, English or foreign.

Curriculum in Art—Painting and Design.—[Leading to the degree of Bachelor of Fine Arts in Art (Painting and Design.) Hours required for graduation, 142.]

First Year			
Semester I		Semester II	
English 1 a	3	English 1 b	3
Foreign Language	3	Foreign Language	3
History 1 a	3	History 1 b	3
Art 1 a	3	Art 1 b	3
Art 45 a	3	Art 45 b	3
Elective	2	Art 32	2
Dramatic Art 3 a	2	Dramatic Art 3 b	2
(or P. E.)	1	(or P. E.)	1
Second Year			
Foreign Language	3	Foreign Language	3
Elective in Science or Social Science	4	Elective in Science or Social Science	4
Art 51 a	2	Art 51 b	2
Art 52 a	3	Art 52 b	3
Art 63 a	3	Art 63 b	3
Art 81	2	Elective in Literature	3
Physical Education	1	Physical Education	1
Third Year			
Art 85 a	3	Art 85 b	3
Art 131 a	3	Art 131 b	3
Art 151 a	2	Art 151 b	2
Art 163 a	3	Art 163 b	3
Electives	7-6	Electives	7-6
Fourth Year			
Art 151 c	2	Art 151 d	2
Art 152 a	3	Art 152 b	3
Art 163 c	3	Art 163 d	3
Electives	11-9	Electives	10-8

Students are advised to choose their electives from art or allied fields, such as architectural history, history of music, dramatic literature, or English and foreign literatures.

Pre-Architectural Curriculum.—(Total 74 to 75 hours.)

First Year			
English 1 a	3	English 1 b	3
Mathematics 15	3	Mathematics 22	3
Mathematics 16	3	Architecture 13 b	3
Architecture 13 a	3	Architecture 27 b	3
Architecture 27 a	3	Art 45 b	3
Architecture 39	2	Electives in Art	4-3
Art 45 a	3	Physical Education	1
Physical Education	1		

Semester I		Second Year		Semester II	
Mathematics 53	4	Mathematics 54	4		
Physics 41 a and 41 aL	4	Physics 41 b and 41 bL	4		
Architecture 53 a	3	Architecture 53 b	3		
Architecture 57 a	4	Architecture 57 b	4		
Architecture 61	1	Physical Education	1		
Art 63 a	3	Elective in Engineering	2		
Physical Education	1				

GENERAL COLLEGE

The General College has been planned in terms of two-year programs. It makes provision for rather large numbers of students who, for one reason or another, do not find the four-year course advisable. Some of these groups are:

1. Those who are interested in general, instead of specialized, types of knowledge. Students of this sort prefer an overview of a field with emphasis upon general principles rather than upon techniques and details, and are to be taken care of to a large extent by survey courses. Even specialists in one field of knowledge, however, will find use for comprehensive surveys in others.
2. Those who wish to "explore." Interest in one or more of the fields of knowledge is a prime factor in college success; and this interest, together with greater efficiency in mental habits, can often be fostered through exploration.
3. Those who desire distinctly vocational courses of the semi-professional nature. Many capable young people want courses that lead to definite vocational techniques, even though they are not interested in general academic training.
4. Adults who have no interest in degrees or in technical courses, but who desire information and guidance in general or practical fields.
5. Finally, there are those 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.

Admission Requirements

For admission requirements to the General College, see "Admission to the University." 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 physical education, is not permitted to enter the General College.

Scholarship Regulations

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 on probation, provided he has earned at least half as many points as the total number of hours he has carried.

Probation.—A student is placed on probation at the end of each semester when the total number of points earned drops below one-half 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.

Suspension.—A student is recommended for suspension at the end of any semester 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.

Transfer.—A student may be recommended for transfer from the General College to one of the other colleges of the University at the end of any semester or summer session, after having been registered for twelve or more hours (six or more hours in summer session), (1) when the number of points earned is at least equal to the total number of hours for which he has been registered, § or (2) after receiving the General College Diploma, on the same basis as any other transfer student.

Completion of Course

Sixty-four hours of passing work, exclusive of non-theoretical courses in physical education, must be completed in order to fulfill the requirements for the General College diploma. Normally, this work will be divided into four semesters of 16 hours each. As indicated below, 26 hours of the total must be in the form of required courses, the remainder to be elected from courses offered in the General College, subject to the approval of advisers and the Dean. In special vocational curricula, however, this amount of election is not possible.

Required Subjects

The general outline of the two-year curriculum follows:

Semester I		First Year		Semester II	
English A or 1 a	3	†English or Mathematics	3		
*Natural Science	3	*Natural Science	3		
‡From Group A	2	‡From Group B	2		
Skills and Electives	7	Skills and Electives	7		
Physical Education	1	Physical Education	1		
Second Year					
History 1 a	3	History 1 b	3		
‡From Group C	2	‡From Group D	2		
Skills and Electives	11	Skills and Electives	11		

Courses Offered

For courses offered in the General College, see Departments of Instruction. Those marked with the asterisk (*) or the dagger (†) are open to General College students.

Special Vocational Curricula

Special vocational curricula of two years' duration have been provided by the General College, as described below. It is to be under-

§Exclusive of hours in ensemble music and required physical education.

*Natural Science—Choice of: Mathematics 52, Biology 5 ab, Chemistry 5 ab, Geology 1, 2, Psychology 1 abL.

†English or Mathematics—Choice of: Business 5, English 1 a, Mathematics 14 a.

‡Group A—Choice of: Biology 41, Health 1, Orientation 1 or Education 31.

‡Group B—Choice of: Home Economics 26, Health 2, History 31.

‡Group C—Choice of: Music 71 a, Health 3, Philosophy 40, Spanish 81.

‡Group D—Choice of: Music 71 b, Spanish 82, Dramatic Art 92.

stood that completion of one of these courses does not guarantee employment to the student nor does it enable him to enter a given vocation on the strength of the diploma alone. The goal of the General College is to provide a certain number of students with practical training on the college level, combined with a degree of the social and cultural outlook of the academic institution of higher rank.

Relatively strict adherence to the curriculum outline is necessary to the earning of the special diploma to be issued at its successful conclusion. Slight variations may be arranged in some cases through the student's adviser and the Dean of the College. Also, two credit hours of physical education are required in each curriculum, but may be taken during any two semesters.

Art

Semester I		First Year	Semester II	
English A or 1 a	3	*English or Mathematics	3	
*Natural Science	3	*Natural Science	3	
*From Group A	2	*From Group B	2	
Art 1 a	3	Art 1 b	3	
Art 45 a	3	Art 32	2	
Art Elective—Below No. 100	2	Art 45 b	3	
Second Year				
*From Group C	2	*From Group D	2	
History 1 a		History 1 b		
or		or		
Art 52 a	3	Art 52 b	3	
Art 51 a	2	Art 51 b	2	
Art 63 a	3	Art 63 b	3	
Art 72 a or 85 a	3	Art 72 b or 85 b	3	
Art 75 a or 133 a	3	Art 75 b or 133 b	3	
Elective	2			

General Business

(Business subjects are listed under the Department of Economics and Business Administration.)

First Year			
English A or 1 a	3	*Natural Science	3
Mathematics 1	2	*From Group B	2
*From Group A	2	†Business 1 b	2
†Business 1 a	2	*Business 3 bL	3
Business 3 aL	3	Business 5	3
Business 4	3	Economics 43	3
Second Year			
*Natural Science	3	History 1 b	3
History 1 a	3	*From Group D	2
*From Group C	2	Business 6	2
Business 8 a	3	†Business 7	3
Elective	5	Business 8 b	3
		Elective	3

*See page 74.

†To be taken at downtown business training school.

Home-Making**First Year**

Semester I		Semester II	
English A or 1 a	3	*English or Mathematics	3
*Natural Science	3	*Natural Science	3
*From Group A	2	*From Group B	2
Home Economics 1	3	Home Economics 2 L	4
Home Economics 15 aL	3	Home Economics 15 bL	3
Biology 48	2	Home Economics 26	2

Second Year

History 1 a	3	History 1 b	3
*From Group C	2	Physical Education 161	2
Health 1	2	Psychology 32	3
Home Economics 57 L	3	Home Economics 58	3
Home Economics 59	3	Home Economics 70	3
Home Economics 65 L	3	Elective	2

Music**First Year**

English A or 1 a	3	Mathematics 14	3
*Natural Science	3	*Natural Science	3
*From Group A	2	*From Group B	2
Theory of Music	2	Theory of Music	2
Applied Music	4	Applied Music	4
Ensemble Music	1	Ensemble Music	1
Elective	1	Elective	1

Second Year

History 1 a	3	History 1 b	3
*From Group C	2	*From Group D	2
Music 71 a	2	Music 71 b	2
Applied Music	4	Theory of Music	2
Ensemble Music	1	Applied Music	4
Theory of Music	2	Ensemble Music	1
Elective	2	Elective	2

Recreational Leadership**First Year**

Dramatic Art 3 a	2	Dramatic Art 3 b	2
English A or 1 a	3	*English or Mathematics	3
*Natural Science	3	*Natural Science	3
*From Group A	2	*From Group B	2
Health 1	2	Sociology 4	3
Sociology 2	3	Health 2	2
Physical Education (required course)	1	Physical Education (required course)	1

*See page 74.

Semester I		Second Year		Semester II	
History 1 a	3	History 1 b	3	History 1 b	3
*From Group C	2	Physical Education 102		Physical Education 102	
Psychology 31	3	or Elective	2	or Elective	2
Physical Education 105 a	3	Physical Education 105 b	3	Physical Education 105 b	3
Physical Education (required course)	1	Physical Education 161	2	Physical Education 161	2
Physical Education 162	3	Physical Education (required course)	1	Physical Education (required course)	1
Chorus, Band, Orchestra and Dramatics	1	Chorus, Band, Orchestra, and Dramatics	2	Chorus, Band, Orchestra, and Dramatics	2
		Elective	3	Elective	3

Sanitation

First Year					
English A or 1 a	3	*English or Mathematics	3	*English or Mathematics	3
Biology 1 L	4	Biology 2 L	4	Biology 2 L	4
Health 1	2	Health 2	2	Health 2	2
*From Group A	2	Health 4	2	Health 4	2
Sociology 2	3	*From Group B	2	*From Group B	2
Elective	2	Sociology 4	3	Sociology 4	3

Second Year

History 1 a	3	History 1 b	3	History 1 b	3
Chemistry 1 aL	4	Health 90	2	Health 90	2
Biology 81 L	4	Chemistry 1 bL	4	Chemistry 1 bL	4
Spanish 1 a	3	Biology 93 L	4	Biology 93 L	4
Elective	2	Spanish 1 b	3	Spanish 1 b	3

Secretarial

(Business subjects are listed under the Department of Economics and Business Administration.)

First Year

English A or 1 a	3	*From Group B	2	*From Group B	2
*From Group A	2	*Natural Science	3	*Natural Science	3
†Business 1 a	2	†Business 1 b	2	†Business 1 b	2
†Business 2 a	2	†Business 2 b	2	†Business 2 b	2
Business 3 aL	3	Business 3 bL	3	Business 3 bL	3
Business 4	3	Business 5	3	Business 5	3

Second Year

History 1 a	3	History 1 b	3	History 1 b	3
*Natural Science	3	*From Group D	2	*From Group D	2
*From Group C	2	†Business 1 d	2	†Business 1 d	2
†Business 1 c	2	†Business 2 d	2	†Business 2 d	2
†Business 2 c	2	†Business 7	3	†Business 7	3
Business 8 a	3	Business 8 b	3	Business 8 b	3
Elective	2	Business 6	2	Business 6	2

*See page 74.

†To be taken at downtown business training school.

GRADUATE SCHOOL

The University offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. The graduate program is offered concurrently with the regular residence sessions. A separate bulletin on the Graduate School may be obtained by addressing the Dean of the Graduate School, or the Registrar.

SUMMER SESSION

A summer session of 8 weeks is conducted each year on the campus. (For dates of the session, 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 Registrar.

FIELD SESSIONS

Field sessions are conducted each summer by the Departments of Anthropology, Art, and Engineering. Work in Biology and Geology is sometimes offered in the field. (For dates of these sessions, see the Calendar.) Separate bulletins are published on the field sessions, and may be obtained by addressing the head of the department concerned.

DEPARTMENTS OF INSTRUCTION

On the following pages are listed the departments of instruction, and the courses offered in each of them for the academic year 1940-41. The markings which accompany the courses may be interpreted according to the explanations shown on the balance of this page.

Courses offered in the summer session and in the extension division are described in separate bulletins, which may be obtained by addressing the Director of the Summer Session, or the Director of the Extension Division.

Classification and Numbering of Courses

Lower division courses are numbered 1-100 with courses numbered 1-50 normally open to freshmen and 51-100 normally open to sophomores; upper division courses are numbered 101-200 for juniors, seniors, and graduates; graduate courses are numbered 201-300. Graduate credit for courses listed is allowed at the discretion of the Graduate Committee. Graduate students should consult major professors and the Dean before registering. Students should select courses only in the divisions in which they are enrolled and for which they have met the prerequisites.

Courses designated by the letters a b or c d, after the number, are offered throughout the year. A course number followed by s indicates that the course was taken in the summer session. A course number followed by L indicates that part of the course is laboratory work. A course number followed by F indicates that the course is given during a field session. Courses indicated by * are open to General College students. Courses indicated by † are offered for General College credit only.

The University reserves the right to withdraw any course for which the enrollment is not sufficient to warrant the organization of a class.

Credit Value and Semester Designations

The credit value for each course is indicated for each semester by a numeral in parentheses following the descriptive title. A semester hour corresponds to one hour of the student's time weekly during a semester in addition to the time required in preparation therefor, or two or three hours of time weekly in laboratory.

The symbol I indicates that the course is offered the first semester; II, second semester; I, II, both first and second semesters; SS, summer session only; Yr., throughout the year, and credit for a single semester's work is suspended until the entire course is completed.

In cases where the course number or title has been changed, the previous number or title is shown in brackets.

The credit hours for which a course is offered may not be varied unless special permission of the Committee on Courses of Study is obtained before the student enrolls for the course.

ORIENTATION COURSES FOR FRESHMEN

All freshmen, with less than 20 hours of college credit, enrolled in the College of Arts and Sciences are required to complete two semester-hours of Orientation. Engineering freshmen are required to complete

Engineering 5 and 6 (see Department of Engineering). Education freshmen are required to complete Education 31 (see Department of Education). Credit will not be allowed for both Education 31 and Orientation 1.

1. **Orientation.** (2) I. The various fields of knowledge; vocational information; student problems. TTh, 1. Mr. DuBois and Staff.

SOPHOMORE HONORS

A selected group of Sophomores each year is invited to participate in honors work. Those who desire to undertake such work will enroll in Honors 51.

51. **Sophomore Honors.** (1) I. Lectures, readings, and exercises intended as guides to clearer understanding of, and greater efficiency in, the methods necessary for successful honors work. F, 3. Mr. Mitchell.

DEPARTMENT OF ANTHROPOLOGY

Professors Brand (Head), Spier²; Assistant Professors Hawley,¹ Hill; Instructors Hibben, Reiter.

Group Requirements.—Courses in this Department count toward Social Science (Group III), with the exceptions of 60 L, 66 L, 75 F.

Major Study.—For the Cultural Major: Anthropology 1 ab, and 30 more hours within the Department, including 105 ab; 180; 181; 182, 183, or 184; 188 ab; 193; and 7 elected upper division hours.

For the Professional Major (prerequisite to graduate work): Biology 1 L and 2 L; Geology 1 and 2 or Anthropology 53 ab; Anthropology 1 ab and 30 more hours within the Department, including 105 ab; 75 F or 175 F; 180; 181; 182, 183, or 184; 188 ab; 193, and 3 elected upper division hours. Professional major students, at the close of their senior year, must pass a comprehensive subject examination (written and oral) based on courses 1 ab, 105 ab, 180, 181, 188 ab, 193, the elected archaeological courses, and the required reading for the degree; and must demonstrate, by written examination, proficiency in one foreign language, or intermediate knowledge of two foreign languages, to be selected from Spanish, French, and German.

Minor Study.—Twelve hours in addition to Anthropology 1 ab (8 hours).

Primarily for Freshmen and Sophomores

- *1 ab. **General Anthropology.** (4-4) The introductory and basic course for the field of anthropology. Section A, MWF, 8, TTh, 1. Section B, MWF, 8, WF, 1. Mr. Hibben, Mr. Hill.
- *7. **Archaeological History of the Southwest.** (3) I. A nontechnical course not credited toward the major or minor in Anthropology. MWF, 3. Mr. Reiter.
- *53 ab. **Anthropo-geography.** (3-3) The inter-relationships of man and the earth. TThS, 11. Mr. Brand.
- *55. **Human Geography of New Mexico.** (3) I. (Offered in 1940-41 and alternate years.) TThS, 10. Mr. Brand.
- 59 L. **Museums and Their Work.** (2) I. Museum administration, publicity, exhibition, and curatorial work. TTh, 3-5. Mr. Reiter.
- 60 L. **Museum Methods.** (2) II. The study and treatment of museum and field material. MW, 3-5. Mr. Reiter.

1. In residence first semester only.

2. In residence second semester only.

- 66 L. **Archaeologic Field Technique.** (2) II. Methods and materials involved in excavations; field surveying and recording; care of archaeological material in the field. TTh, 3-5. Mr. Reiter.
- 75 F. **General Field Session at Jemez.** (4) August. The beginning summer field course in archaeology, ethnology, and anthropogeography. Prerequisite: consent of director. See Field Sessions Bulletin.
97. **Introduction to Classical Archaeology.** (2) I. T, 7-9. Mr. Hibben.

For Juniors, Seniors, and Graduates

General prerequisite: Anthropology 1 ab or equivalent.

103. **Chronology in Archaeology.** (2) I. Evaluation of dating techniques in prehistory. (Offered in 1940-41 and alternate years.) TTh, 2. Miss Hawley.
- 104 L. **Dendrochronology.** (3) I. The science of tree ring studies applied to archaeological problems. Prerequisite: Anthropology 103. M, 3, WF, 3-5. Miss Hawley.
- 105 ab. **The American Indian.** (3-3) The aboriginal peoples and cultures in the Americas. I: TThS, 10; II: TThS, 11. Mr. Hill.
- 108 L. **Physical Anthropology.** (3) II. Recommended: a reading knowledge of German. (Offered in 1940-41 and alternate years.) TTh, 1-3. Mr. Hibben.
110. **Southwestern Pottery.** (2) I. Historical development of ceramic art in the Southwest. Recommended: Anthropology 103. (Not offered in 1940-41.) TTh, 2. Miss Hawley.
111. **European Prehistory.** (3) I. Early types of Old World man. Development as shown in physical and cultural remains. (Not offered in 1940-41.) MWF, 2. Mr. Hibben.
119. **Races and Cultures of Europe.** (2) I. Physical environment and historical development; evolution of culture areas. Recommended: Anthropology 53 ab. (Not offered in 1940-41.) TTh, 1. Mr. Brand.
138. **Northwest America and Northeast Asia.** (3) II. Peoples and cultures of the two areas; their relations to each other and to Asia and America generally. (Not offered in 1940-41.) MWF, 10. Mr. Hill.
140. **Culture Provinces of Western North America.** (3) II. Ethnography and ethnology of the California, Basin, and Plateau areas. MWF, 11. Mr. Spier.
143. **Primitive Arts and Crafts.** (3) I. Origin, history and distribution of fundamental primitive arts and crafts. (Offered in 1940-41 and alternate years.) MWF, 2. Mr. Hill.
144. **Material Culture Analysis and Recording.** (3) II. Methods of analyzing archaeological, non-ceramic material traits and the systematic presentation of excavated materials. 1 hour lecture and 4 or more hours laboratory. (Offered 1940-41 and alternate years.) Lecture M, 1, Lab arranged. Mr. Reiter.
148. **Oceania.** (3) II. Oceanic races and cultures; indigenous origins; Asiatic relations and influences. (Offered in 1940-41 and alternate years.) MWF, 10. Mr. Hill.
162. **Archaeology of the Old World.** (3) II. An interpretation of the more important Old World civilizations through the ancient remains. MWF, 9. Mr. Hibben.

171. **Pueblo Ethnology.** (2) I. Field trips required. Recommended: Anthropology 180, 181. (Offered in 1940-41 and alternate years.) T, 7-9. Miss Hawley.
- 174 L. **Advanced Dendrochronology.** (2) I. Prerequisite: Anthropology 104 L. Arranged. Miss Hawley.
- 175 F. **Advanced Field Session at Chaco.** (4) August. Advanced work for upper division and graduate students. See Field Sessions Bulletin.
180. **Archaeology of the Southwest.** (3) I. Field trips required. MWF, 1. Miss Hawley.
181. **Ethnology of the Southwest.** (3) I. Field trips required. TThS, 11. Mr. Hill.
182. **American Archaeology: North America.** (3) II. The pre-European cultures of the lands north of Mexico. Recommended: Anthropology 53 ab, 180, 181, and Geology 54. MWF, 2. Mr. Hibben.
183. **American Archaeology: South America.** (3) I. The various "Andean" cultures receive major consideration. Recommended: Anthropology 53 ab and 184. (Not offered in 1940-41.) TThS, 9. Mr. Brand.
184. **American Archaeology: Mexico, Central America, and the West Indies.** (3) II. Recommended: Anthropology 53 ab, 180, and 182. TThS, 10. Mr. Brand.
- 188 ab. **Cultural Geography of the World.** (3-3) The natural divisions of the world, and their utilization under different cultural systems. 188 a is devoted to the Old World; 188 b considers the New World, with a stress on Latin America. Recommended: Anthropology 53 ab, and 119. TThS, 9. Mr. Brand.
- 191 ab. **General Linguistics and Theory of Language.** (2-2) Elements and theories of linguistics; distribution of major linguistic groups. (Offered as Philosophy 191 ab, alternately with Philosophy 195 ab.) Th, 3-5. Mr. Alexander.
193. **Senior Seminar.** (2) I. Required of all senior majors in Anthropology. History of Anthropology. W, 7-9. Brand, Hawley, Hibben, Hill, Reiter.
- 195 F. **Middle American Field Sessions.** (4-6) Summer field course in four sections: (a) in Central and Southern Mexico; (b) in Central America; (c) in South America; (d) in Northern Mexico. Prerequisites: Anthropology 105 ab, 180 or equivalent, 182, 183, 184, and Anthropology 75 F or 175 F or equivalent. See Field Sessions Bulletin.
198. [History of Religions] **Primitive Religion.** (3) II. (Not offered in 1940-41.) MWF, 3. Mr. Hill.
- 199 F. **Field Research.** (2-6) Summer field course in Chaco Canyon or at other Southwestern sites. Prerequisites: Anthropology 180 or equivalent; and Anthropology 75 F, 175 F, or 195 F. See Field Sessions Bulletin.

For Graduates Only

205. **Pro-Seminar.** (2) I. Introduction to research. Required of all graduate students in Anthropology. Recommended: reading knowledge of French or German, preferably both. T, 7-9. Mr. Brand.
206. **Seminar: Survey of Current Anthropology.** (2) II. Th, 7-9. Mr. Spier.

212. **Applied Anthropology.** (2) II. W, 7-9. Mr. Hill.
 225. **Seminar: Anthro-geography.** (2) II. T, 7-9. Mr. Brand.
 251 ab. **Problems.** (2-2) Arranged. Staff.
 294. **Seminar: Southwestern Archaeology.** (2) I. Th, 7-9. Miss Hawley.
 300. **Thesis.** (2-6) I, II. Arranged. Staff.

DEPARTMENT OF ARCHITECTURE

Part-time Instructor Burk (Head); Professor Dunbar.

A pre-architectural course of two year's duration given for the purpose of fitting the student to enter a professional school. (See College of Fine Arts.)

- 13 ab. **History and Theory of Architecture.** (3-3) This study of ancient architecture, in its historical setting, serves to imbue the beginner with many aspects of his profession and provides specific illustration of many guiding principles. MWF, 11. Mr. Dunbar.
 27 ab. **Architectural Design.** (3-3) Architectural drafting, analytic problems, and rendering in wash. MWF, 1-4. Mr. Burk.
 39. **Graphics.** (2) A study of the subject of graphic representation. Descriptive geometry, perspective, shades and shadows, etc.
 53 ab. **History of Architecture.** (3-3) Mediaeval and Renaissance architecture in Europe. Prerequisite: Architecture 13 ab. MWF, 10. Mr. Dunbar.
 57 ab. **Architectural Design.** (4-4) Class B problems, architectural drafting, and advanced rendering. Prerequisite: Architecture 27 ab. TTh, 1-5 and 4 hrs. arranged. Mr. Burk.
 61. **Architectural Office Practice.** (1) I. The mechanics, theory and ethics of the profession. Arranged. Mr. Burk.

DEPARTMENT OF ART (PAINTING AND DESIGN)

Assistant Professor Douglass (Head); Instructors Del Dosso, Sedillo-Brewster; Part-time Instructors Adams, Burk, Jonson; Special Lecturer Chapman.

See "College of Fine Arts" for outline of curriculum.

See "College of Education" for outline of curriculum for special art supervisors.

Major Study.—College of Arts and Sciences: Art 1 ab, 25, 45 ab or 51 ab, 52 ab, 152 ab, and 3 hours elective in literature, with 12 additional hours in a special field such as painting, design, sculpture, or commercial art. One summer in the Field School of Art at Taos is recommended.

College of Education: Art 1 ab, 25, 32 or 71 a, 45 ab, 52 ab, 63 ab, 75 ab or 133 ab, and Education 91 or 155 a. One summer in the Field School of Art at Taos is recommended.

Minor Study.—College of Arts and Sciences: Art 1 ab, 52 ab, and 15 additional hours.

College of Education: Art 1 ab, 52 ab, 133 a, and Education 91 or 155 a, and 6 additional hours.

Field Sessions.—Each summer, field sessions in art are conducted at Taos and Santa Fe. Courses No. 45 abF, 51 abF, 63 abF, 133 abF, 151 abcdF, 163 abcdefF, and 191 abcdF, are usually offered at Taos, all courses for 1, 2, or 3 hours credit; courses No. 25 F, 125 F, and 191 abcdF, are usually offered at Santa Fe. For dates of the sessions, see the Calendar. A separate bulletin, giving full information on art field sessions, may be obtained by addressing the Department of Art.

Materials and 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 public exhibition of student work in May. Each student may be required to leave with the department one or two pieces of original work to be added to the permanent collection.

At least three clock hours of work per week are expected for one semester hour's credit. If full laboratory hours are not assigned below, they will be arranged by the instructor.

Primarily for Freshmen and Sophomores

- *1 ab. **Creative Design.** (3-3) Creative expression in color, line, and form, through which principles of art structure will be studied. I: 1 a: Section A, MWF, 1-3, Mr. Del Dosso. Section B, TThS, 8-10, Mr. Del Dosso. II: 1 b, MWF, 1-3, Mr. Del Dosso; 1 a, TThS, 8-10, Mr. Del Dosso.
- *25. **Indian Art.** (2) II. Development and symbolism of the decorative art of the Pueblos and other tribes, from the earliest times to the present. Students taking this work in Santa Fe may earn four hours. (Offered on the campus in 1940-41 and alternate years.) W, 7-9. Mr. Chapman.
- *32. **Lettering.** (2) II. To develop facility and grace in the common forms of artistic and commercial lettering. MWF, 3. Mr. Douglass.
- ‡*45 ab. **Drawing.** (2-3 each semester) The craftsmanship of drawing in various mediums from life, cast, and still life. Includes study of perspective. TThS, 10-12. Mr. Douglass.
- ‡*51 ab. **Life Drawing.** (2-2) Drawing from the human figure in charcoal and other optional mediums. MWF, 10-12. Mr. Jonson.
- 52 ab. **History of Art.** (3-3) An introductory survey of the principles of design and representation in painting, sculpture, and the minor arts. Man's urge to express himself artistically. Emphasis Semester I—Greek sculpture; Semester II—painting in Middle Ages and Renaissance. TThS, 11. Mr. Dunbar.
- ‡*63 ab. **Painting.** (3-3) Work in choice of medium from still life, landscape, and figure. Prerequisites: Art 1 ab, and 45 ab or 51 ab, or equivalent. Section A, TThS, 8-11. Mr. Adams. Section B, MWF, 1-4. Mr. Jonson.
- *65. **Art Concours.** (1) I. Popular lectures and demonstrations of methods and materials. W, 7-9. Staff.
- *71 ab. **General Commercial Art.** (3-3) Art in advertising and other commercial uses. Practice in various techniques to develop professional skill. Methods of reproduction. Optional work in caricature and cartooning. Prerequisites: Art 1 ab, 32, 45 a or 51 a. (Offered in 1940-41 and alternate years.) TThS, 8-10. Mr. Douglass.

‡In these courses, students may register for the odd semester's work (that is, b, d, and f, in the fall, or a, c, and e, in the spring) provided prerequisites have been met.

- *75 ab. **Contemporary New Mexico Crafts.** (3-3) Use of the native raw materials of New Mexico, with emphasis on the revival of early Spanish designs and structures. Prerequisite: Art 1 ab. MW, 3-6. Miss Sedillo.
81. **Artistic Anatomy.** (2) I. The skeleton and superficial muscles of the human figure as related to life drawing. MWF, 3. Mr. Douglass.
- ‡85 ab. **Sculpture.** (3-3) Technical execution and anatomical study. TTh, 1-4. Mr. Burk.
- ‡95 abcdef. **Sketch Class.** (1-1) Life sketching in choice of medium from short poses without criticism. T, 7-9. Mr. Douglass.

For Juniors and Seniors

125. **Indian Art.** (2) II. Advanced work. Students taking this work in Santa Fe may earn four hours. Prerequisite: Art 25. (Offered on the campus in 1940-41 and alternate years.) W, 7-9. Mr. Chapman.
- 131 ab. **Advanced Creative Design.** (3-3) New techniques and research in design and color. Prerequisite: Art 1 ab. MWF, 8-10. Mr. Del Dosso.
- 133 ab. **Crafts, Processes, and Design.** (3-3) The different art crafts; the harmonious relationship of construction and design in artistic products. Prerequisite: Art 1 ab. (Offered in 1940-41 and alternate years.) TTh 1-4. Mr. Del Dosso.
- ‡151 abcd. **Life Drawing.** (2-2) Prerequisites: Art 45 ab and 51 ab. MWF, 10-12. Mr. Jonson.
- 152 ab. **History of Art.** (3-3) North American art from primitive to present. European influence of the 16th century. Modern art, Cezanne to the present. The social, political, and cultural significance of the arts as related to contemporary times. Lectures, panel discussions and illustrative material. Prerequisite: Art 52 ab. (Not offered in 1940-41.) TThS, 10. Miss Sedillo.
- ‡163 abcdef. **Painting.** (3-3) Advanced work in creative composition in selected mediums. Prerequisite: Art 63 ab. Section A, TThS, 8-11. Mr. Adams. Section B, MWF, 1-4, Mr. Jonson.
167. **Costume Design.** (3) II. Problems in selecting and designing. Study of historic dress. Prerequisite: Art 1 ab, and 45 ab or 51 ab. (Offered in 1941-42 and alternate years.) TTh, 1-4. Mr. Del Dosso.
168. **Home Arts.** (3) I. Principles and practice of home furnishings. Drafting and making interior sketches in color. Prerequisites: Art 1 ab and 45 ab, or equivalent. (Offered in 1941-42 and alternate years.) TTh, 1-4. Mr. Del Dosso.
- 171 ab. **Advertising Problems.** (2-3 each semester.) Prerequisite: Art 71ab. (Offered in 1940-41 and alternate years.) TThS, 8-10. Mr. Douglass.
- ‡185 ab. **Sculpture.** (3-3) Prerequisite: Art 85 ab. TTh, 1-4, Mr. Burk.
- 191 abcd. **Special Problems.** (1-3 each semester.) Arranged. Staff.

DEPARTMENT OF BIOLOGY

Professor Castetter (Head); Associate Professor Bell; Assistant Professor Koster; Instructor Grove; Graduate Fellows Bowman, Bretney, Taylor.

‡In these courses, students may register for the odd semester's work (that is, b, d, and f, in the fall, or a, c, and e, in the spring) provided prerequisites have been met.

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

Major Study.—Biology 1 L, 2 L, 71 L, 72 L, 109, 143 L or 144 L, and 9 additional hours, 5 of which must be in courses numbered above 100. Courses 5 ab, 36, 41 and 48 are not accepted toward a major. One year of chemistry is required of biology majors in the College of Arts and Sciences.

Minor Study.—Biology 1 L and 2 L and 12 additional hours to be selected from the following: 36 or 143 L, 41 or 163 L, 48 or 109, 71 L, 72 L, 93 L, 105, 114 L, 171 L, 172 and 185 L.

In the following courses, credit is allowed for one or the other, but not for both; 36 or 143 L-144 L, 41 or 163 L, 48 or 109. Credit will be allowed for Biology 1 L and 5 b in combination, and for 2 L and 5 a, but not for 1 L and 5 a or for 2 L and 5 b in combination.

Primarily for Freshmen and Sophomores

- 1 L. [2 L] **General Botany.** (4) I, II. Activities and structures of the flowering plant. Type representatives of the four groups of the plant kingdom and the underlying principles of plant life. I: Lecture, MW, 8. Mr. Bell. Lab.: Section A, MW, 1-3. Staff. Section B, MW, 3-5. Staff. Section C, TTh, 3-5. Staff. II: Lecture, TTh, 10. Mr. Bell. Lab.: Section A, MW, 1-3. Staff. Section B, MW, 3-5. Staff. Section C, TTh, 1-3. Staff.
- 2 L. [1 L] **General Zoology.** (4) I, II. The fundamental structures, processes, and principles of animal life. I: Lecture TTh, 10. Mr. Koster. Lab.: Section A, MW, 1-3. Staff. Section B, MW, 3-5. Staff. Section C, TTh, 1-3. Staff. Section D, TTh, 3-5. Staff. II: Lecture MW, 8. Mr. Koster. Lab.: Section A, MW, 1-3. Staff. Section B, TTh, 1-3. Staff. Section C, TTh, 3-5. Staff.
- *5 ab. **Survey of Biology.** (3-3) The field of biology, emphasizing fundamental principles common to all living things. MWF, 8. Mr. Grove.
- *36. **Human Physiology.** (3) II. The fundamental physiological activities of the human body. T, 7-9 and 1 hr. arr. Mr. Bell.
- *41. **Survey of New Mexico Plant Life.** (2) I. Lectures and demonstrations on the plant life of the state. T, 7-9. Mr. Bell. (Not offered in 1940-41.)
- *48. **Heredity.** (2) I. A cultural survey of the field of inheritance, considering the elementary principles and their general bearing on inheritance in plants, animals, and man. MW, 10. Mr. Castetter.
- 71 L. **Invertebrate Zoology.** (4) I. A comparative study of the structure, habits and classification of the invertebrates exclusive of insects. Prerequisites: Biology 1 L and 2 L. TTh, 8 and MW, 1-3. Mr. Koster.
- 72 L. [122 L] **Comparative Plant Morphology.** (4) II. A comparative study of the lower plants—their structural, environmental and evolutionary relationships. Prerequisites: Biol. 1 L and 2 L. TTh, 8 and MW, 1-3. Mr. Bell.
- 81 L. **Parasitology.** (4) I. Animal parasites with special reference to man. Prerequisites: Biol. 1 L and 2 L. Mr. Koster. (Not offered in 1940-41.)
- 93 L. **General Bacteriology.** (4) I, II. A general consideration of bacteria and related forms. Their morphology, physiology, classification, ecology, cultivation and economic importance.

Prerequisites: Biology 1 L and 2 L; Chemistry 1 ab and 1 abL are strongly recommended. Lecture, MW, 9. Mr. Grove, Lab. I: TTh, 1-3. Staff. II: Section A, TTh, 1-3. Staff. Section B, TTh, 3-5. Staff.

For Juniors, Seniors, and Graduates

105. **Ethnobiology.** (3) I. The aboriginal picture of the utilization of plants and animals in the New World, with emphasis on the Southwest. Prerequisite: 8 hours of Biology. T, 7-9 and 1 hr. arranged. Mr. Castetter.
109. **Genetics.** (3) I. Modern concept of inheritance. The broader cultural and philosophical aspects of the science. Prerequisite: 12 hours of Biology. TThS, 9. Mr. Castetter.
110. **Evolution.** (3) II. History of the principle and theories of evolution; the various developments resulting from investigations of modern science. Prerequisite: Biology 109. MWF, 9. Mr. Castetter.
- 112 L. **General Embryology.** (4) II. The changes which take place in the embryo from the time of fertilization until birth. Prerequisite: 12 hours of Biology. TTh, 11 and 3-5. Mr. Koster.
- 114 L. **General Entomology.** (4) I. Structures, habits, and classification of the insects. Prerequisite: 12 hours of Biology. MW, 8 and F, 1-5. Mr. Koster.
- 121 L. **Comparative Vertebrate Anatomy.** (4) I. Prerequisite: 20 hours of Biology. TTh, 11 and MW, 3-5. Mr. Koster.
- 132 L. **Advanced Bacteriology.** (4) II. The more advanced principles of the life activities, growth, and morphology of bacteria; emphasis on pathogenic forms—immunity, and etiology of disease. Prerequisites: Biology 93 L and 143 L or 144 L. Chemistry 1 ab and 1 abL are required; organic chemistry is strongly recommended. TTh, 9 and MW, 3-5. Mr. Grove.
- 143 L. [97 L & 98 L] **General Physiology.** (4) I. The physiological processes common to all living organisms. Physiology of the cell, digestion, diffusion, movement, metabolism, hormones, and vitamins. Prerequisites: Biol. 1 L and 2 L and 4 additional hours in courses numbered below 100, and Chemistry 1 ab and 1 abL. TTh, 8 and 1-3. Mr. Grove and assistant.
- 144 L. [972L & 98 L] **General Physiology.** (4) II. The physiology of synthesis, stimulation, respiration, reproduction, and enzymes. Prerequisites: Biology 1 L and 2 L and 4 additional hours in courses numbered below 100, and Chemistry 1 ab and 1 abL. TTh, 8 and 1-3. Mr. Grove and assistant.
- 163 L. **Flora of New Mexico.** (4) I. The principles of plant classification, and the identification of representatives of the vascular plants. Prerequisite: 12 hours of Biology. MW, 9 and 1-3. Mr. Bell.
- 171 L. **Physiographic Ecology.** (4) I. The relationships of plants and animals to topographic and climatic factors. Applications to soil erosion, reforestation, game management, etc. Prerequisite: 12 hours of Biology. MWF, 11 and one 2 hr. lab. arranged. Mr. Bell.
172. **Plant and Animal Geography.** (3) II. The natural geographic distribution of the plants and animals of the world in relation to climate. Prerequisite: 12 hours of Biology. MWF, 10. Mr. Bell.

- 174 L. **Plant Anatomy.** (4) I. The developmental anatomy of vascular plants. Prerequisite: 16 hours of biology. (Offered in 1940-41 and alternate years.) TTh, 10 and 3-5. Mr. Grove.
- 184 L. **Plant Pathology.** (4) I. The nature, cause, and control of diseases of plants. The relations of plant pathogenic organisms to agriculture and industry. Prerequisite: 16 hours of biology. (Not offered in 1940-41.) TTh, 10 and 3-5. Mr. Grove.
- 185 L. **General Vertebrate Zoology.** (4) II. Natural history of representatives of the classes of vertebrates; classification, behavior, ecology, and speciation. Prerequisite: 12 hours of biology. MW, 11 and F, 1-5. Mr. Koster.
198. **Fundamental Concepts of Biology.** (3) II. The trend of scientific thought and method from earliest times to the present. Origin and history of important biological principles. Prerequisite: major in biology with senior standing and consent of instructor. TThS, 10. Mr. Castetter.

For Graduates Only

201. **Seminar.** (2) I. Integration and correlation of the several fields of biology. Consideration of contemporary trends and major problems. MTh, 5. Mr. Bell.
251. **Problems.** (2) I, II. Arranged. Staff.
254. **Principles of Economic Vertebrate Zoology.** (2) II. The biotic effects of human settlement upon the vertebrates, including principles underlying management and control. MW, 10. Mr. Koster.
262. **Origin and Development of Cultivated Plants.** (2) II. W, 7-9. Mr. Castetter.
263. **Origin and Development of Domesticated Animals.** (2) I. F, 9-11. Mr. Castetter. (Not offered in 1940-41.)
300. **Thesis (4-6)** I, II. Arranged. Staff.

BUSINESS ADMINISTRATION

See Department of Economics and Business Administration.

DEPARTMENT OF CHEMISTRY

Professor Clark (Head); Associate Professor Kiech; Instructor Gibson.

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

Major Study.—Thirty-four hours. A comprehensive examination is given before graduation. Major students are advised to take two years of French or German.

Minor Study.—Twenty-two hours. A comprehensive examination is given before graduation.

Primarily for Freshmen and Sophomores

- 1 ab. **Inorganic Chemistry.** (3-3) Lectures, demonstrations, and recitations on general and theoretical chemistry. Credit suspended until 1 abL is completed. MWF, 10. Mr. Clark.
- 1 abL. **Inorganic Laboratory.** (1-1) Credit suspended until 1 ab is completed. Section A. M, 1-4. Section B. T, 1-4. Section C. W, 1-4 (Semester I only). Section D. Th, 1-4. Section E. F, 1-4. Section F, S, 9-12. Staff.

- *5 ab. **Survey of Chemistry.** (3-3) Lectures, demonstrations, recitations, and reading assignments, designed to acquaint the student with the service of science, chemistry in particular, to mankind. Not intended as a substitute for Chemistry 1 ab and 1 abL, which are required of students who are to pursue any scientific work beyond the beginning courses. Students who take Chemistry 1 ab, 1 abL, and 5 ab are allowed a maximum of 12 hours. MWF, 8. Mr. Clark.
- 52 abL. **Principles of Quantitative Analysis.** (3-3) I: Theory and preliminary manipulation. MW, 8, T, 1-4. II: Gravimetric and volumetric analyses. TTh, 1-4. Prerequisites: Chemistry 1 ab and Chemistry 1 abL. Mr. Gibson, Mr. Kiech.
- 60 L. **Elementary Organic Chemistry.** (3) I. Lectures and laboratory. Not for Chemistry majors. Prerequisites: Chemistry 1 ab and 1 abL. TTh, 11, S, 9-12. Mr. Kiech.

For Juniors, Seniors, and Graduates

- 102 abL. **Organic Chemistry.** (4-4) Lectures and laboratory on the chemistry of the compounds of carbon. Prerequisite: Chemistry 1 ab and 1 abL. Credit suspended for 102 aL until 102 bL is completed. MW, 10 and MW, 1-4. Mr. Kiech.
104. **Biological Chemistry.** (3) II. Lectures and recitations on the chemistry of living matter. Prerequisites: Chemistry 60 L or 102 aL. MWF, 10. Mr. Kiech.
- 105 L. **Quantitative Biochemical Methods.** (3) II. Laboratory practice in colorimetry and micro-methods of analysis. Prerequisites: Chemistry 52 abL and 102 aL, or 60 L. (Not offered 1940-41.) TTh, 1-4 and 3 hours arranged. Mr. Kiech.
- 107 L. **Advanced Qualitative Analysis.** (2) II. Prerequisites: Chemistry 52 abL. (Offered in 1939-40 and alternate years.) WF, 1-4. Mr. Clark.
109. **Survey of Physical Chemistry.** (3) I. A non-mathematical treatment of the fields of physical chemistry intended to give a broad overview of physical chemistry *per se*, and of its applications to other fields of science. MWF, 9. Mr. Gibson.
- 110 L. **Physical Chemistry.** (5) II. Advanced study of chemical theory. Prerequisites: Chemistry 102 abL, Math. 53 and 54, and Physics 41 ab and 41 abL. MWFS, 9; F, 1-4. Mr. Gibson.
112. **Industrial Chemistry.** (2) I. Lectures on chemical industry. Prerequisite: Chemistry 52 abL. (Offered in 1940-41 and alternate years.) TTh, 9. Mr. Clark.
113. **Metallurgy.** (2) II. Lectures covering processes of extraction of metals. Prerequisite: Chemistry 112. (Offered in 1940-41 and alternate years.) TTh, 9. Mr. Clark.
140. **Chemistry Seminar.** (1-3) II. F, 4:30-5:30. Staff.
- 152 L. **Advanced Quantitative Analysis.** (Credit optional up to 10 hours.) I, II. Stress is laid on the use of instruments of analytical chemistry. One 2-hour laboratory period per credit hour. Arranged. Mr. Clark.
- 155 L. **Introduction to Toxicology.** (2) I, II. Poisons and their detection. Two 2-hour laboratory periods per week. Arranged. Mr. Clark.
- 199 ab. **Undergraduate Problems.** (2-5 each semester) Arranged. Staff.

For Graduates Only

- 251 ab. Problems. (2-5 each semester) Arranged. Staff.
 300. Thesis. I, II. Arranged. Staff.

DEPARTMENT OF DRAMATIC ART

Professor Dunbar (Acting Head); Instructor Russell; Part-time Instructor O'Connor.

Major Study in College of Arts and Sciences or College of Education.—35 hours (by petition only).

Dramatic Art 1 ab, 30 a, 70 ab, 90 ab, 140 ab, 160 a, and dramatic courses in Department of English 10 hours.

Minor Study in College of Arts and Sciences or College of Education.—25 hours (by petition only).

Dramatic Art 1 ab, 30, a, 90 ab, 160 ab, and dramatic courses in Department of English 7 hours.

Primarily for Freshmen and Sophomores

- *1 ab. Reading and Speaking. (3-3) Fundamentals of interpretation of prose and poetry. MWF, 10. Mrs. O'Connor.
 *3 ab. Art of the Dance. (2-2) A survey of rhythmic, theory, and practice. TThS, 8; W, 1. Miss Sedillo.
 30 ab. Stage Work. (2-2) Fundamentals of stage design and construction. MWF, 8-10. Mr. Russell.
 40. Makeup. (2) II. Elements of stage makeup. Arranged. Mr. Russell.
 60. Play Production. (2) (Same as English 60.)
 67 ab. Playwriting. (1-1) Arranged. Staff.
 70 ab. Stage Work. (2-2) Continuation of 30 ab. MWF, 8-10. Mr. Russell.
 80 ab. Diction. (2-2) Yr. Fundamentals of correct speech. Arranged. Staff.
 83. Radio Play Production. (2) II. Rehearsal and broadcast of radio plays. Vocational opportunities in radio. Recording of programs. Th, 7-9.
 90 ab. Rehearsal and Performance. (2-2) An introductory course which presents the elementary techniques of both actor and director. The student is taught the basis of realistic acting and learns to coordinate both mind and body to produce an immediate response to imaginative conception of various roles. He is also given the first principles of directing and learns to analyze a script for fundamental interpretation. Throughout the course students alternately act in and direct group exercises. TTh, 2-4. Mr. Russell.
 92. Mexican and New Mexican Folk Dance. (2) II. MWF, 2; M, 1. Miss Sedillo. (For one hour credit in physical education, enroll as shown under department of Physical Education, course M 31 or W 31.)

For Juniors and Seniors

- 130 ab. Stage Projects. (3-3) Advanced stage design, construction, and lighting. MWF, 2-4. Mr. Russell.
 140 ab. Diction. (3-3) Advanced speech training. TThS, 11. Staff.
 150. Play Production and Pageantry. (2) I. Writing, criticism, and production of original plays in Spanish or English based on New Mexican material. Arranged. Miss Sedillo.

- 160 ab. **Rehearsal and Performance.** (3-3) The application of the work of creative imagination within the confines of a definite script. Foundations for non-realistic acting techniques are given. Some twenty plays of different types are read and discussed. Advanced directing is studied. Rehearsal by students, under supervision, of one-act plays for class presentation. TTh, 2-4, S, 10-12. Mr. Russell.
- 180 ab. **Advanced Rehearsal and Performance.** (3-3) A study of the historical acting techniques in tragedy and comedy. Advanced study of dramatic values in interpreting a script. Preparation of one long play for experimental production. Arranged. Mr. Russell.
- 199 ab. **Problems.** (2-2) Complete production book. Arranged. Mr. Russell.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

Professor Sorrell (Head); Assistant Professor Fewell; Instructors Kiel, Logan; Assistant Dixon.

Group Requirements.—Courses in this Department count toward Social Science (Group III), with the exception of Business Administration 53 abL and 65.

Students may elect courses offered by this Department leading (1) toward the Bachelor of Arts degree with a major in Economics, (2) toward the Bachelor of Arts degree with a major in Business Administration, or (3) courses leading to the professional degree, Bachelor of Business Administration.

Economics

Major Study in Economics (leading to Bachelor of Arts degree).—30 hours including 51 ab, or with certain exceptions 105, of which 18 must be in Economics including 154 and 160. The remainder may be in Business Administration.

Minor Study in Economics.—18 hours, including 51 ab, or with certain exceptions 105, of which 12 must be in Economics. The remainder may be in Business Administration.

Primarily for Freshmen and Sophomores

- *30. **Economic Development of the United States.** (3) I. Not counted toward major or minor. MWF, 2. Mr. Logan.
- *43. **Economic Resources.** (3) II. A general survey of the basic economic resources of the world. Not counted toward major or minor. TThS, 9. Staff.
- 51 ab. **Introduction to Economics.** (3-3) Yr. A prerequisite to all advanced courses in the department unless otherwise indicated. Prerequisite: sophomore standing. Credit for 51 a suspended until 51 b is completed. Courses 51 a and 51 b will be offered both semesters. Section A, MWF, 10. Mr. Kiel. Section B, TThS, 10. Mr. Sorrell. II: 51 a, MWF, 8. Staff.

For Juniors, Seniors, and Graduates

General prerequisite: Economics 51 ab or 105, unless otherwise stated.

105. **Principles of Economics.** (3) I. Primarily for students who are not majors in the department. Prerequisite: upper division

- standing, except for sophomore engineers. MWF, 10. Mr. Sorrell.
111. **Money and Banking.** (3) I. MWF, 11. Mr. Logan.
119. **Foreign Trade.** (3) II. The history, principles, and practices of foreign trade. (Offered in 1940-41 and alternate years.) MWF, 9. Staff.
140. **Economic Security.** (3) I. The meaning and extent of poverty and insecurity, and methods of dealing with these problems. TThS, 8.
141. **Labor Problems.** (3) II. The position of the laborer in modern society. (Offered in 1940-41 and alternate years.) Arranged. Staff.
143. **Transportation.** (3) II. Inland transportation with special attention to railroads. (Offered in 1941-42 and alternate years.) TThS, 11. Mr. Kiel.
152. **Public Finance.** (3) II. The theory and practice of taxation, governmental borrowing, financial administration, and public expenditures. MWF, 1. Mr. Sorrell.
154. **Modern Economic Reform.** (3) II. A critical analysis of the proposed major reforms of the existing economic system. (Offered in 1941-42 and alternate years.) Arranged. Mr. Sorrell.
160. **Economic Theory.** (3) II. TThS, 9. Mr. Sorrell.
165. **Public Utilities.** (3) II. A study of the principles and problems in the utilities field. (Offered in 1940-41 and alternate years.) Arranged. Staff.
178. **Recent History of the United States.** (3) II. (Same as History 178.) Accepted toward the major only.
- 198 ab. **Seminar.** (2-3 each semester) Arranged. Staff.

For Graduates Only

- 251 ab. **Problems.** (2-4 each semester) Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

Business Administration

The Degree of Bachelor of Business Administration.—The degree of Bachelor of Business Administration (B.B.A.) is awarded upon the completion of (1) regular minimum requirements for the bachelor's degree in the College of Arts and Sciences (2) 48 hours in Economics and Business Administration courses numbered above 50, including 51 ab, 53 abL, 65, 107 ab, 108, 109, 110, 111 (3) at least 40 per cent of the hours presented for graduation must be in fields other than Economics and Business Administration.

Major Study in Business Administration (leading to the Bachelor of Arts degree).—Economics 51 ab, Business Administration 53 abL, 107 ab, and 109, and 9 additional hours in Business Administration, and 6 additional hours in Economics, chosen from the following: Economics 111, 119, 143, 152, 165.

Minor Study in Business Administration.—Economics 51 ab, Business Administration 53 abL and 12 additional hours in Business Administration.

Primarily for Sophomores

- 53 abL. **Principles of Accounting.** (3-3) Yr. Credit for 53 aL suspended until 53 bL is completed. Freshmen admitted by special permission. Section A, MF, 1, W, 1-3. Mr. Fewell. Section B.

TTh, 8, S, 8-10. Mr. Logan. Courses 53 aL and 53 bL will be offered both semesters.

65. **Business-Letter Writing.** (3) A study of the art of business correspondence, including form material, letterheads, structure, content, etc. Mrs. Dixon.

For Juniors, Seniors, and Graduates

General Prerequisite: Economics 51 ab or 105, unless otherwise stated.

101. **Analysis of Financial Statements.** (3) Mr. Fewell.
102. **Governmental Accounting.** (3) II. Accounting technique peculiar to governmental agencies and political subdivisions; effect of "Funds" on accounting systems; governmental budgets; balance sheets and other financial reports. Prerequisite: Economics 53 abL (Offered in 1941-42 and alternate years.) MWF, 10. Mr. Fewell.
- 103 ab. **Intermediate Accounting.** (3-3) Prerequisite: Economics 53 abL. TTh, 2-4. Mr. Fewell.
104. **Cost Accounting.** (3) I. Special emphasis on job order and process cost systems. Prerequisite: Economics 53 abL. (Offered in 1941-42 and alternate years.) TThS, 10. Mr. Fewell.
- 107 ab. **Business Law.** (3-3) Yr. Prerequisite: upper division standing. Credit for 107 a suspended until 107 b is completed. MWF, 9. Mr. Kiel.
108. **Marketing.** (3) I. Marketing methods and institutions. TThS, 10. Mr. Kiel.
109. **Business Statistics.** (3) I. The collection, arrangement, and interpretation of statistical material relating to business operations. Prerequisite: Mathematics 14 or 15. MWF, 10. Mr. Fewell.
110. **Corporation Finance.** (3) II. The financial organization and policies of the modern corporation. MWF, 10. Mr. Logan.
112. **Auditing.** (3) II. Prerequisites: 53 abL, and 103 a. (Offered in 1940-41 and alternate years.) TTh, 10, W, 3-5. Mr. Fewell.
113. **Credit and Collections.** (2) I. The principles and practices of credit management. Taught primarily from the point of view of the credit man. TTh, 11. Mr. Logan.
115. **Investments.** (3) I. An analysis of corporation, municipal, and other securities. MWF, 1. Mr. Kiel.
117. **Mathematics of Finance.** (3) I. (Same as Mathematics 117.) Accepted toward the major only.

For Graduates Only

- 251 ab. **Problems.** (2-4 each semester) Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

Courses in Business for General College Only

- †1 ab. **Typing.** (2-2) Two 2-hour sessions per week. (Given at downtown business training school.) Fee \$12.50 per semester.
- †1 cd. **Typing.** (2-2) (Continuation.) Fee \$12.50 per semester.
- †2 ab. **Shorthand.** (2-2) Two 2-hour sessions per week. (Given at downtown business training school.) Fee \$12.50 per semester.
- †2 cd. **Shorthand.** (2-2) (Continuation.) Fee \$12.50 per semester.
- †3 abL. **Bookkeeping.** (3-3) An introduction to the principles and

- practices of bookkeeping, including debit and credit procedure, the use of controlling accounts, special journals, and the preparation of profit and loss, and balance sheet statements. MF, 2, W, 2-4. Mrs. Dixon.
- †4. **Introduction to Business.** (3) I. Up-to-date procedure, methods and problems of modern business enterprise. MWF, 1. Mrs. Dixon.
- †5. **Business Correspondence for Secretaries.** (3) II. A study of correct sentence structure, the writing of sales, collection, and application letters, reports, etc. MWF, 1. Mrs. Dixon.
- †6. **Salesmanship.** (2) II. The approach and appeal necessary to the consummation of a sale; selling methods which have proved successful. Students are required to engage in actual selling work. TTh, 11. Mr. Kiel.
- †7. **Machine and Office Training.** (3) II. The procedure in various types of offices; occasional inspection trips to well-managed offices. (Given at downtown business training school.) Fee \$12.50.
- †8 ab. **Business Legal Practice.** (3-3) The theory and practical problems involved in business contracts. MWF, 10. Mrs. Dixon.

DEPARTMENTS OF EDUCATION

Professors Nanninga (Dean), Diefendorf, Haight, Tireman; Associate Professors Fixley, Reid, G. Sanchez; Assistant Professors Du Bois, Moyers; Graduate Fellow Martin.

MISCELLANEOUS AND GENERAL COURSES IN EDUCATION

Primarily for Freshmen and Sophomores

- *31. **Introduction to Education.** (2) I. Personal problems, campus activities, community responsibility, requirements of the college, how to study, fields of education, etc. Required of all College of Education freshmen. Section A, TTh, 9. Mr. Fixley. Section B, TTh, 11. Mr. Fixley. Section C, TTh, 8. Mr. Reid. Section D, MW, 9. Mr. Moyers.
72. **Educational Hygiene.** (2) I. Health defects and hazards in schools. T, 7-9. Dr. Scott.
82. **Methods and Materials in Health Education.** (2) II. Principles and practices of health teaching in the various school grades. T, 7-9. Dr. Scott.
95. **Social Arts.** (2) SS. The purpose of this course is to inquire into the standards of social behavior as accepted by recognized authorities.

For Juniors, Seniors, and Graduates

- 101. **History of Education in Europe.** (3) I. The development of education from earliest times to the present, with emphasis on European education. TThS, 10. Mr. Moyers.
102. **History of Education in America.** (3) II. The evolution of American education. TThS, 10. Mr. Moyers.
- 105 ab. **Adult Education.** (3-3) I—Origin, development, philosophy and objectives; II—methods and materials. T, 7-9, and 1 hour arranged. Mr. Reid.
- 107. **Problems of Education in New Mexico.** (2) I, II. A course dealing with the New Mexico school system. W, 7-9. Mr. Nanninga.

109. **Educational Sociology.** (3) II. A practical treatment of the sociological aspects of school problems. MWF, 11. Mr. Reid.
112. **Current Educational Problems.** (2) I, II. Arranged. Staff.
115. **Educational and Vocational Guidance.** (3) II. Principles and methods. MW, 4-6. Mr. Fixley.
116. **Professional Adjuncts.** (1) I. Designed to acquaint the prospective teacher with the more personal considerations involved in securing and holding a position. Attention to personality traits, the interview and written application, effective speech, personal budget, community relationships. S, 10. Mr. Fixley.
119. **Comparative Education in the Americas.** (3) II. Designed to acquaint the student with the salient features of education in North and South America from a socio-economic viewpoint. Particular emphasis will be placed on the education of minority groups in the United States, on education in Mexico, and on the reform movements in Hispanic America. Arranged. Mr. Sanchez.
151. **Problems.** (1-3) I, II. Arranged. Staff.
174. **Philosophy of Education.** (3) II. The sociological and philosophical aspects and the aims of education. Prerequisite: six hours in education or philosophy. (Offered in 1940-41 and alternate years.) MWF, 11. Mr. Moyers.

For Graduates Only

- 251 ab. **Problems.** (2-3 each semester) I, II. Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF ELEMENTARY EDUCATION

Primarily for Freshmen and Sophomores

42. **Classroom Organization and Management.** (3) II. Problems of attendance, order, promotion, recitation, etc. Section A, MWF, 9. Mr. Reid. Section B, TThS, 9. Mr. Reid.
52. **Teaching English to Non-English-Speaking Children.** (2) SS. For pre-first and first grade teachers.
56. **Primary Methods.** (3) SS. Materials and activities suitable for kindergarten or beginning pupils.
58. **Materials and Techniques of Teaching in the Elementary School.** (3) II. Methods of teaching language, arithmetic, and spelling. Arranged. Staff.
61. **Teaching Reading in the Primary Grades.** (3) I. Methods and materials in pre-first to the fourth grades. MWF, 2. Mr. Tireman.
62. **Teaching of Language, Social Studies, and Arithmetic.** (3) I. Materials and methods in grades one to four. MWF, 8. Mr. Tireman, Mr. Moyers.
64. **Practice Teaching in Elementary Grades.** (4) I, II. Prerequisites: an observation course and Education 61. Co-requisite: Education 62. Arranged. Mr. Tireman.
91. **The Teaching of Art in Elementary School.** (2) I. To present methods of teaching the arts in the elementary school. To give experience in creative art expression and the use of the art elements and principles, as a basis for understanding the

modern progressive approach. Prerequisite: Education 31. T, 7-9, Lab arranged. Mr. Del Dosso.

For Juniors, Seniors, and Graduates

122. **Supervision of the Language Arts in the Primary Grades.** (2) SS. Supervision of reading, language, and spelling. If Education 61 has been taken, consult instructor before enrolling in this course. Mr. Tireman.
123. **Supervision of Elementary Education.** (3) I. Supervision of reading in the fourth, fifth, and sixth grades. Diagnosis and remedial work. Prerequisite: Education 61 or 122. TThS, 11. Mr. Tireman.
129. **Curriculum Workshop.** (1-4) SS. Provides an opportunity for school people to spend a short period in concentration upon special problems of immediate concern to them. The work is divided into four separate units of one week each. One credit hour for each week's work. 8-12, daily.
131. **Music Education.** (3) I. Kindergarten and grades. MWF, 9. Miss Clauve.
132. **Supervision of the Social Studies.** (2) SS. Methods in the teaching of history and geography. Mr. Moyers.
133. **An Activity Program in the Elementary Grades.** (3) SS. Constructing and judging units, technique of development. Mr. Moyers.
135. **Supervision of Arithmetic.** (2) SS. The construction of units of drill work, analysis of textbooks, remedial work. Mr. Moyers.
136. **Practice Teaching in Elementary Grades.** (5) I, II. Prerequisite: an observation course, Education 61, 62, and 123. Arranged. Mr. Tireman.
137. **Elementary School Curriculum.** (3) SS. Principles and techniques of curriculum construction. Staff.
138. **Supervision of Elementary School Instruction.** (3) SS. Deals primarily with the nature, aims, and principles of supervision. Mr. Tireman.

For Graduates Only

- 251 ab. **Problems.** (2-3 each semester) I, II. Arranged. Mr. Tireman.
300. **Thesis.** I, II. Arranged. Mr. Tireman.

DEPARTMENT OF SECONDARY EDUCATION

For Juniors, Seniors, and Graduates

141. **Principles of Secondary Education.** (3) I, II. Scope and function of the secondary school. MWF, 11. Mr. Diefendorf.
142. **High School Curriculum.** (3) II. Trends and practical programs. MWF, 1. Mr. Diefendorf.
144. **The Junior High School.** (2) History of the junior high school movement and some of the problems arising from its organization and administration. Mr. Diefendorf.
147. **Extra-Curricular Activities in the Secondary School.** (3) I. The guiding principles of pupil participation in the extra-curricular life of the junior and senior high school. Arranged.
153. **High School Methods.** (3) I, II. Prerequisite: Psychology 54. MWF, 9. Mr. Diefendorf.

155. **The Teaching of High School Subjects.** All specific methods courses, or courses in the teaching of the several high school subjects, 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.
- a. **The Teaching of Art in High School.** (3) I. Prerequisite: Education 31. TTh, 10-12. Mr. Del Dosso.
 - b. **The Teaching of Biology in High School.** (3) I.
 - c. **The Teaching of English in High School.** (3) II. Prerequisite: English 1 ab. MWF, 9. Miss Keleher.
 - d. **The Teaching of Home Economics in High School.** (3) I. TThS, 9. Mrs. Simpson.
 - e. **The Teaching of Mathematics in High School.** (3) II. Prerequisite: Mathematics 22. MWF, 1. Mr. Moyers.
 - f. **The Teaching of Music in High School.** (3) II. MWF, 9. Miss Clauve.
 - h. **The Teaching of Sciences in High School.** (3) I.
 - k. **The Teaching of Social Studies in High School.** (3) II. MWF, 1. Mr. Moyers.
 - m. **The Teaching of Spanish in High School.** (2) I. TTh, 10. Mr. Kercheville.
- ✓156. **Practice Teaching in High School.** (5) I, II. Observation and teaching in Albuquerque High Schools. Prerequisite: Education 153. I: T, 7. Four hours arranged. II: T, 4:15. Four hours arranged. Mr. Diefendorf.
158. **High School Supervision.** (3) Staff.
159. **Directed Study.** (3) Theory and practice of directing pupil study. Staff.

For Graduates Only

241. **Seminar in Secondary Education.** (2) II. S, 8-10. Mr. Diefendorf.
- 251 ab. **Problems.** (2-3 each semester) I, II. Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION

For Juniors, Seniors, and Graduates

161. **School Law.** (3) II. Consideration of legislation and court decisions dealing with matters of school interest, with special reference to New Mexico school law. MWF, 8. Mr. Sanchez.
163. **State School Administration.** (3) I. The organization and administration of state school systems. Federal and state policy, and forms of control. MWF, 11. Mr. Nanninga.
164. **City School Administration.** (3) II. Educational, financial, and administrative principles. MWF, 10. Mr. Fixley.
166. **The Principal and His School.** (3) I. Organization, administration, and supervision of a single school. MW, 4:30-6:00. Mr. Fixley.
168. **Public School Finance.** (3) II. Methods of financing public education, with special attention to New Mexico. Arranged. Mr. Sanchez.

171. **Problems of the Teaching Profession.** (3) II. The principles of educational administration and organization as applied to the duties and responsibilities of the classroom teacher. Th, 7-9, and one hour arranged. Mr. Nanninga.
177. **School Buildings and Equipment.** (3) I. Assigned readings. MWF, 11. Mr. Fixley.

For Graduates Only

- 201 ab. **Research Methods in Education.** (2-2) A foundation course in research methods, with emphasis on problems of education. T, 4-6. Mr. Fixley.
- 206 ab. **Seminar in Educational Administration.** (2-2) II. Advanced reading and problems in educational administration. S, 10-12. Mr. Fixley.
- 251 ab. **Problems.** (2-3 each semester) I, II. Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

For description of courses and hours, see Department of Psychology

Primarily for Sophomores

54. **Educational Psychology.** (3) II.
For Juniors, Seniors, and Graduates
181. **Educational Tests and Statistics.** (3) I.
183. **Educational Psychology.** (3) I, II.
185. **Mental Measurements.** (3) II.
187. **Child Psychology.** (3) I.
188. **Classroom Tests.** (2) II.
- 190 L. **Clinical Psychology.** (3) II.

For Graduates Only

251. **Problems.** (2) I, II.
300. **Thesis.** I, II.

DEPARTMENTS OF ENGINEERING

Professors Farris (Dean), Dorroh; Associate Professors Tapy, Wagner; Assistant Professors Ford, Hume, Jones, Smellie.

GENERAL COURSES IN ENGINEERING

See College of Engineering for outlines of curricula.

- *1 abL. **Engineering Drawing and Descriptive Geometry.** (3-3) The essentials of drafting, including the use of instruments, lettering, projecting, sections, developments, isometric drawing, and working drawings and the theory and science of engineering drawing. Approved drawing equipment required. I: 1 aL: Section A, MWF, 1-3. Mr. Jones. Section B, MWF, 3-5. Mr. Hume. Section C, TThS, 10-12. Mr. Hume. 1 bL: MWF, 1-3, Mr. Jones. II: 1 aL: MWF, 3-5. Mr. Hume. 1 bL: Section A, MWF, 1-3. Mr. Smellie. Section B, MWF, 3-5. Mr. Hume. Section C, TThS, 10-12. Mr. Jones.

- *5. **Orientation.** (1) I. Lectures on the different fields of engineering and on the related science fields. Section A, M, 11. Mr. Tapy. Section B, F, 11. Mr. Dorroh. Section C, W, 11. Mr. Farris.
- *6. **Engineering Problems.** (1) II. Practice in the solution of engineering problems and in the use of the slide rule. Section A, M, 11. Mr. Tapy. Section B, F, 11. Mr. Farris. Section C, W, 11. Mr. Dorroh.
- *53. **Engineering Materials.** (3) II. Characteristics of metals, alloys, wood, and concrete, and of the manufacture and heat treatment of iron and steel. Prerequisite or co-requisite: Chemistry 1 b, 1 bL. MWF, 10. Mr. Ford.
101. **Mechanics.** (4) I. Principles of statics, kinematics, and kinetics. Prerequisite: junior standing. Section A, TThS, 8, W, 1-4. Mr. Dorroh. Section B, MWF, 8, F, 1-4. Mr. Dorroh.
102. **Strength of Materials.** (4) II. The mechanics of materials; theory of beams, columns, and shafts. Prerequisite: Engineering 101. Section A, MWF, 8, T, 1-3. Mr. Hume. Section B, MWF, 8, F, 1-3. Mr. Hume.
- 104 L. **Strength of Materials Laboratory.** (2) II. Co-requisite: Engineering 102. WF, 1-4. Mr. Dorroh.
111. **Engineering Economy.** (2) I. The elements of economics as applied to engineering problems. Prerequisite: Economics 105. TTh, 11. Mr. Dorroh.
- 151 ab. **Seminar.** (1-1) Prerequisite: senior standing. I: W, 11. Mr. Tapy. II: S, 10. Mr. Tapy.
152. **Contracts and Specifications.** (2) II. The law governing engineering practice; contracts, specifications, and ethical relations. Prerequisite: senior standing. TTh, 10. Mr. Dorroh.

DEPARTMENT OF CIVIL ENGINEERING

- *54 L. **Elementary Surveying.** (2) II. Theory and use of chain, level, and transit in simple problems. Prerequisite: Mathematics 16. MTh, 1-4, W, 9. Mr. Wagner.
- *55 L. **Surveying.** (3) I. Plane surveying, including the theory and use of the chain, tape, compass, transit, and level. Prerequisite: Mathematics 16. Section A, MW, 1-4, W, 9. Mr. Wagner. Section B, MF, 1-4, W, 9. Mr. Wagner.
- *56 L. **Advanced Surveying.** (4) II. Topographic methods including the theory and use of the plane table, barometer, and sextant; hydrographic and aerial surveying; geodetic triangulation; and astronomical observations. Prerequisite: Engineering 55 L. Section A, TTh, 11, TF, 1-4. Mr. Wagner. Section B, TTh, 11, TW, 1-4. Mr. Wagner.
- 104 L. **Curves and Earthwork.** (4) I. The principles involved in the economic location of railroads and highways. Prerequisite: Civil Engineering 56 L. TTh, 9, T, 1-4, S, 9-12. Mr. Wagner.
110. **Hydraulics.** (3) II. Elementary theory of hydraulics, including hydrostatics and hydrodynamics; water wheels and pumps. Prerequisites: Mathematics 54 and Physics 41 ab and 41 abL. TThS, 8. Mr. Hume.
- 115 L. **Masonry Materials.** (3) II. 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. MW, 10, Th, 1-4. Mr. Wagner.
- 118 L. **Highway Engineering.** (4) I. Location, construction, maintenance, cost, durability, and methods of financing all types of country roads and city pavements. Prerequisite: Civil Engineering 56 L. MWF, 11, Th, 1-4. Mr. Wagner.
- 157 F. **Field Surveying.** (2) Summer camp, two weeks. Practice in topographic surveying. Complete surveys of the project are made and the notes used for mapping. Prerequisite: Civil Engineering 56 L. Mr. Wagner.
- 159 L. **Theory of Structures.** (5) I. Principles of design of foundations and structures of masonry, steel and timber. Prerequisite: Engineering 102. MWF, 9. Mr. Hume.
- 160 L. **Design of Structures.** (5) II. Design and detail of structures of timber, steel, and reinforced concrete. Prerequisite: Civil Engineering 159 L. MWF, 10, MT, 1-4. Mr. Dorroh.
162. **Water Supply.** (3) I. Collection, storage, purification, and distribution of municipal water supplies. Prerequisite: Civil Engineering 110. TThS, 10. Mr. Dorroh.
165. **Sewerage.** (3) II. Principles in the design and construction of sewers; the treatment and disposal of sewage. Prerequisite: Civil Engineering 110. TThS, 8. Mr. Wagner.
- 167 L. **Soils.** (3) I. Engineering properties and treatment of soils. Prerequisite: senior standing. MW, 8, T, 1-4. Mr. Wagner.
- 173 L. **Hydraulics Laboratory.** (1) I. Prerequisite: Civil Engineering 110. Th, 1-4. Mr. Hume.

ELECTIVES

One of these courses will be given each year; others, if demand is sufficient.

- 166 L. **Municipal Design.** (3) I. Laying out of an industrial town, including the street improvement, water supply, storm and sanitary sewer. Prerequisite: Civil Engineering 165. One lecture and two 3-hour laboratory periods per week. Arranged. Staff.
184. **Water Power.** (3) I. The theory, investigation, and development of water power. Prerequisite: Civil Engineering 110. Arranged. Staff.
186. **Highway Administration and Finance.** (3) Engineering considerations involved in the selection, improvement, maintenance, and financing of highway systems. Prerequisite: senior standing. Arranged. Staff.

DEPARTMENT OF ELECTRICAL ENGINEERING

- *52. **Introduction to Electrical Engineering.** (2) II. A survey course in electrical engineering. Problems in three fundamental branches of electrical engineering, power, communication and illumination. Prerequisites: Mathematics 15 and 16. WF, 11. Mr. Tapy.
- 101 L. **Direct Current Circuits and Machinery.** (6) I. Electric, magnetic, and dielectric circuits; theory and application of D. C. dynamos. Prerequisites: Mathematics 54 and Physics 41 ab and 41 abL. Co-requisite: Physics 111 a. MTWThF, 9, Th, 1-4. Mr. Tapy.

- 102 L. **Theory of Alternating Currents.** (4) II. Wave form analysis, alternating currents in circuits with lumped constants, A. C. measurements. Prerequisite: Electrical Engineering 101 L. TThS, 9, M, 1-4. Mr. Jones.
- 105 L. **Elements of Electrical Engineering.** (5) I, II. The fundamentals of electrical circuits and machines stressing applications. Prerequisites: Mathematics 54 and Physics 41 b and 41 bL. I: MTThF, 9, F, 1-4. Mr. Jones. II: MWFS, 11, W, 1-4. Mr. Jones.
- 132 L. **Electronics.** (4) II. Theories of ionization; current flow in ionized regions; thermionic, photoelectric, and other types of electron emission; characteristics and application of electron tubes. Co-requisite: Electrical Engineering 102 L. MWF, 9. Mr. Jones.
- 151 abL. **Alternating Current Machinery.** (4-4) I, II. The principal types of A. C. machines. Prerequisite: Electrical Engineering 102 L. I: MWF, 10, M, 1-4. Mr. Tapy. II: MWF, 10, T, 1-4. Mr. Tapy.
- 161 abL. **Design of Electrical Machinery.** (2-2) I, II. The fundamental principles of electrical design, with application to specific problems. Prerequisite: Electrical Engineering 102 L. May be taken with, but may not precede, Electrical Engineering 151 abL. I: T, 1-5. Mr. Tapy. II: W, 1-5. Mr. Tapy.
168. **Illumination.** (2) I. Light sources, photometric units and measurements, principles of vision, calculation and design of lighting systems. Prerequisite: Electrical Engineering 102 L or 105 L. TTh, 11. Mr. Tapy.
186. **Generating Stations.** (3) II. 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 105 and Electrical Engineering 151 aL. MWF, 8. Mr. Tapy.
- 191 L. **Radio Telephony.** (4) I. Theoretical and practical consideration of apparatus used in radio and telephone communications. Emphasis is placed on elementary theory of electromagnetic wave radiation, antenna and transmission line design. Prerequisite: Electrical Engineering 132 L. TThS, 10, Th, 1-4. Mr. Jones.
196. **Power Transmission and Distribution.** (3) II. Electrical and mechanical characteristics; economics of transmission and distribution systems. Prerequisite: Electrical Engineering 151 aL. TThS, 9. Mr. Tapy.

DEPARTMENT OF MECHANICAL ENGINEERING

- *52 L. **Shop Methods.** (3) I. A study of the shop equipment used in working engineering materials. MF, 11, Th, 1-4. Mr. Ford.
101. **Heat Power Engineering.** (3) I. Elementary principles of heat-power engineering and heat equipment. Prerequisites: Mathematics 54 and Chemistry 1 b and 1 bL. Section A, MWF, 8. Mr. Smellie. Section B, TThS, 8. Mr. Farris.
102. **Thermodynamics.** (3) II. Prerequisites: Mechanical Engineering 101. TThS, 11. Mr. Smellie.
- 103 L. **Heat-Power Laboratory.** (2) I, II. Prerequisite or co-requisite: Mechanical Engineering 101. I: TTh, 1-4. Mr. Smellie. II: TTh, 1-4. Mr. Ford.

- 114 L. **Mechanisms.** (4) II. Displacements, velocities, and accelerations of such machine elements as links, cams, gears, chains. Prerequisite: Engineering 1 bL. MW, 11. Lab. Th, 1-5. Mr. Farris.
121. **General Aeronautics.** (3) I. Basic principles of aeronautics as applied to the airplane and airship. Co-requisite: Engineering 101. MWF, 10. Mr. Smellie.
122. **Aerodynamics.** (3) II. Application of the fundamental principles of mechanics and hydromechanics to the study of airplane design and performance. Prerequisite: Mechanical Engineering 121. TThS, 9. Mr. Smellie.
- 123 L. **Aeronautical Engineering Laboratory.** (2) I. Mechanical work in airplane structures and aircraft engines. Co-requisite: Mechanical Engineering 121. MF, 1-4. Mr. Smellie.
- 151 abL. **Mechanical Engineering Laboratory.** (2-2) Tests of boilers, engines, turbines, fans, compressors, and pumps: internal combustion engines, and refrigerating equipment. Prerequisite: Mechanical Engineering 102. MW, 1-4. Mr. Ford.
- 153 abL. **Machine Design.** (3-3) Machine elements, working drawings, and cost estimates. Prerequisites: Mechanical Engineering 114 L and Engineering 102. I: MWF, 10. Mr. Farris. II: TTh, 1-5. Mr. Smellie.
155. **Power Plants.** (3) I. Different types of power plants and their equipment. Prerequisite: Mechanical Engineering 102. TThS, 11. Mr. Farris.
156. **Industrial Engineering.** (3) II. The principles of management applied to the general operation of engineering projects and manufacturing plants. Prerequisite: senior standing. MWF, 8. Mr. Farris.
160. **Internal Combustion Engines.** (3) I. Theories of Otto and Diesel type engines. Prerequisite: Mechanical Engineering 102. TThS, 8. Mr. Ford.
- 162 L. **Air Conditioning.** (3) II. Methods used to heat, cool, humidify, clean, and distribute air in a building. Prerequisite: Mechanical Engineering 102. TTh, 9, F, 1-4. Mr. Farris.
171. **Airplane Structures.** (3) I. Application of the fundamental principles of structural theory to practical airplane design. Prerequisite: Engr. 102. TThS, 10. Mr. Smellie.
172. **Airplane Design.** (3) II. Design of an airplane from the aerodynamical and strength standpoints to meet certain specifications. Prerequisite: Mechanical Engineering 171. F, 9, 1-5. Mr. Smellie.

DEPARTMENT OF PETROLEUM ENGINEERING

- 131 ab. **Petroleum Engineering.** (3-3) I, II. Oil field development; oil well drilling methods and equipment. Prerequisite: junior standing.
- 181 ab. **Advanced Petroleum Engineering.** (3-3) I, II. Oil field exploitation, methods of oil recovery, preliminary refining, storage and transportation. Prerequisite: Petroleum Engineering 131 ab.

Note: Only the first two years of Petroleum Engineering will be offered in 1940-41. The junior and senior years will be offered in regular order.

DEPARTMENT OF ENGLISH

Professor St. Clair (Emeritus); Associate Professors Pearce (Acting Head), Smith, Wynn; Assistant Professor Keleher; Instructors Jacobs, Simons; Teaching Assistant Blessing; Graduate Fellows Welch, Roberts, Evans.

Group Requirements.—Courses in this department count toward English (Group I) with the exception of A and 51 ab.

Major Study.—English 1 ab, 53 ab, and 24 additional hours in courses numbered above 50. The courses taken must include 82, 91, 141, 151 or 154; two courses chosen from 132, 143, 146, 148, 157, 177, 178, 181; and 198. Twelve hours must be taken in courses numbered above 100. Students are urged to elect History 71 ab as a collateral course. A comprehensive final examination in English literature, language, and composition is required of majors.

Minor Study.—College of Arts and Sciences: English 1 ab and 15 hours in courses numbered above 50.

College of Education: English 1 ab and 18 hours in courses numbered above 50.

Primarily for Freshmen and Sophomores

English 1 ab is prerequisite to all other courses in the department except English A and 51 ab.

- A. **Review English.** (0) I. A review of the fundamentals of English grammar and rhetoric. Required of all students who fail the English placement test, and must be completed before their registration in English 1 a. Section L, MWF, 8. Section M, TThS, 9. Section P, MWF, 9.
- *1 ab. **Freshman Composition.** (3-3) I: Exposition, paragraph structure, informal essay, investigative paper, reading reports. II: Etymology, diction, connotation, descriptive and narrative sketches, reading reports. Section A, MWF, 9. Miss Simons. Section B, MWF, 9. Miss Keleher. Section C, TThS, 9. Mrs. Blessing. Section D, TThS, 9. Miss Simons. Section E, MWF, 8. Mrs. Blessing. Section F, TThS, 8. Mrs. Evans. Section H, MWF, 9. Mrs. Welch. Section J, TThS, 9. Mr. Smith. Section K, MWF, 9. Mr. Wynn. Section X, TThS, 8. Mrs. Roberts. Two sections of 1 b are offered in I, and two sections of 1 a in II.
20. **Corrective Speech.** (2) SS. Elements of speech composition and delivery. Meets state certification requirements. Mr. Snapp.
- 51 ab. **Beginning Journalism.** (2-2) Introduction to journalism; practical work in gathering and reporting of news; for students working or intending to work on the Lobo or Mirage. Two hours laboratory after short period of introductory lectures. Credit for elective but not acceptable for group requirements. T, 2, Th, 2-4. Mr. Feth.
- 53 ab. **Survey of English Literature.** (3-3) Restricted to students who expect to make English their major or minor. MWF, 2. Miss Keleher.
54. **European Literature.** (3) I. A study of the masterpieces of European literature from the earliest times to the twentieth century in translation.
55. **Public Speaking.** (3) I. Principles and types of speech with emphasis on speech situation. MWF, 11. Miss Keleher.

- *56. **Utopias in English Literature.** (1) II. Literature emphasizing social progress, including the works of More, Butler, Shelley, Bellamy, and Wells. Th, 7. Mr. Pearce.
- *57 ab. **Types of English Literature.** (3-3) I—Poetry; II—Prose. Only 57 b is allowed toward major. I; MWF, 2. II; TThS, 10. Miss Simons.
58. **Argumentation and Debate.** (3) II. MWF, 11. Mr. Smith.
59. **Interpretative Reading.** (2.5) SS. The theory and practice of interpreting literary material for public reading. Mr. Snapp.
60. **Play Production.** (2) SS. A practical course in the staging of plays, directing and acting. Performances given by students in one-act plays, original plays, and children's plays. Mr. Snapp.
63. **Creative Writing.** (3) II. MWF, 10. Miss Keleher.
- 64 ab. **Advanced Composition and Speech.** (3-3) Primarily for Engineers. TThS, 8. Miss Simons.
65. **Practical English and Speech.** (3) I. Advanced exposition for students not majoring in English. Section A, MWF, 8. Staff. Section B, TThS, 8. Mr. Smith.
- *77. **Southwestern Literature.** (1) I. Interpretation of the cultural and esthetic values in literature of the American Southwest. Th, 7. Mr. Pearce.
82. **American Literature.** (3) II. A general survey of the field to 1900, with more intensive study of the great writers of the nineteenth century. MWF, 3. Mr. Smith.
83. **Contemporary Letters and Criticism.** (.5) SS. Offering a series of lectures by leading poets, novelists, and critics of the Southwest. Fee \$1.50.
91. **History of the English Language.** (2) I. The etymology, morphology, phonetics, and semantics of English; the relation between linguistic and cultural changes. T, 7-9. Mr. Pearce.
- 95 ab. **Greek Literature in Translation.** (2-2) Lectures on the development and reading of various masterpieces of poetry and prose. (Not offered in 1940-41.) TTh, 2. Mr. Mitchell.

For Juniors, Seniors, and Graduates

115. **Greek Literature in Translation.** (2.5) SS. Lectures on the development of reading of various masterpieces of poetry and prose. Credit not allowed for both 95 b and 115. Mr. Mitchell.
132. **Contemporary Poetry.** (3) I. English and American Poetry. Prerequisite: English 53 b or 57 a. (Offered in 1941-42 alternately with English 181.) MWF, 11. Mr. Wynn.
141. **Shakespeare.** (3) II. A detailed study of selected plays. TThS, 10. Mr. Wynn.
143. **Drama of the Restoration and Eighteenth Century.** (3) II. The best plays from D'Avenant to Sheridan. Prerequisite: English 53 a. MWF, 10. Mr. Smith.
146. **Age of Milton.** (3) I. Non-dramatic poetry and prose from 1600 to 1674, with especial emphasis upon the masterpieces of Milton. Prerequisite: English 53 a or 57 a. MWF, 2. Mr. Smith.
147. **Studies in World Drama.** (2) I. (Not offered in 1940-41.) TTh, 4. Staff.

148. **Early and Later Elizabethan Drama.** (3) II. Special attention to the plays of Marlowe and Jonson. Prerequisite: English 53 a or 57 b. TThS, 9. Mr. Pearce.
149. **Contemporary Drama.** (2) I. Prerequisite: 53 a or 57 b. (Offered in 1941-42 and alternate years.) TTh, 4:15. Mr. Wynn.
151. **Chaucer.** (3) I. A reading of Chaucer's chief literary works with an examination of his philosophy. Prerequisite: English 53 a or 57 a. MWF, 3. Mr. Pearce.
154. **Middle English.** (3) II. A general survey of the types of fourteenth century literature. Prerequisite: English 53 a. MWF, 3:15. Mr. Pearce.
157. **Elizabethan Literature Exclusive of the Drama.** (3) I. Studies in the prose and poetry of the period. Prerequisite: English 53 a or 57 a. TThS, 9. Mr. Pearce.
161. **Advanced Composition.** (2.5) SS. Open only to English majors and minors or others already proficient in the fundamentals of writing.
164. **American Literature in the Nineteenth Century.** (3) SS. An intensive study of the outstanding authors and their work. Mr. Smith.
177. **The Classical Period in English Literature.** (3) I. The chief writers in England from the Restoration to the decline of neo-classicism. Prerequisite: English 53 a or 57 a. MWF, 10. Mr. Smith.
178. **The Romantic Period.** (3) II. The major poets, and the prose of the early nineteenth century. Prerequisite: English 53 a or 57 a. MWF, 2. Mr. Wynn.
181. **Victorian Poets.** (3) I. The representative poets from 1830 to 1890. Prerequisite: English 53 a or 57 a. (Offered in 1940-41 alternately with English 132.) MWF, 11. Mr. Wynn.
185. **Early English Novel.** (3) I. From the beginnings through Dickens. Prerequisite: English 53 a or 57 b. (Offered in 1941-42 alternately with English 186.) TThS, 10. Mr. Wynn.
186. **Later English Novel.** (3) I. From Thackeray to the present. Prerequisite: English 53 a or 57 b; recommended English 185. (Offered in 1940-41 alternately with English 185.) TThS, 10. Mr. Wynn.
195. **History of Criticism, Chiefly English.** (1) I. The essential principles of literary criticism, and their application to English letters. Mr. Smith.
198. **Review Seminar.** (1) II. Senior English majors are required to take this course. F, 4. Staff.

For Graduates Only

249. **Old English.** (2) II. Readings in Old English prose and poetry, exclusive of Beowulf. (Offered in 1941-42 alternately with English 250.) S, 10-12. Mr. Pearce.
250. **Beowulf.** (2) II. Reading of the Old English epic, Beowulf, and The Finnsburgh Fragment. (Offered in 1940-41 alternately with English 249.) S, 10-12. Mr. Pearce.
- 251 ab. **Problems.** (1-3) I, II. Studies in literature and philology. Arranged. Staff.
- 299 ab. **Studies in American Literary Culture.** (3-3) The literary history of America with special attention to regional culture.

I—Beginnings to 1860: Amerind lore, early New England, the South, New Spain. II—1860 to 1915: Western local color and mid-western realism; the Eastern tradition of gentility; naturalists, folklore, American expression. Arranged. Staff.

300. Thesis. I, II. Arranged. Staff.

DEPARTMENT OF GEOLOGY

Professor Northrop (Head), Assistant Professor Kelley.

Group Requirements.—Courses in this department count toward Science and Mathematics (Group IV).

Major Study.—Twenty-four hours beyond courses 1, 2, 5 L, and 6 L; Chemistry 1 ab and 1 abL, and Geology 71 abL and either 145 or 147 are required. Students contemplating a major in Geology should take Geology 71 abL in their sophomore year. Chemistry 113 and Physics 116 are accepted for a major.

Minor Study.—Twelve hours beyond courses 1, 2, 5 L, and 6 L.

Primarily for Freshmen and Sophomores

- *1. **Physical Geology.** (3) I, II. I: Section A, MWF, 9. Mr. Kelley. Section B, MWF, 10. Mr. Northrop. II: MWF, 10. Mr. Kelley.
- *2. **Historical Geology.** (3) II. Prerequisite: Geology 1. Section A, MWF, 9. Mr. Northrop. Section B, MWF, 10. Mr. Northrop.
- *5 L. **Physical Geology Laboratory.** (1) I, II. Credit suspended when credit in Geology 1 is not earned. Co-requisite: Geology 1. I: Section A, T, 2-4. Section B, W, 2-4. Section C, Th, 2-4. II: Section A, M, 2-4. Section B, T, 1-3. Staff.
- *6 L. **Historical Geology Laboratory.** (1) II. Credit suspended when credit in Geology 2 is not earned. Co-requisite: Geology 2. Section A, W, 2-4. Section B, Th, 1-3. Staff.
- *54. **Geography of North America.** (2) II. TTh, 8. Staff.
- *61. **Principles of Geography.** (2) I. TTh, 8. Staff.
- 71 abL. **Mineralogy.** (3-3) Prerequisite: Geology 1; prerequisite or co-requisite: Chemistry 1 ab and 1 abL. Course 71 a may be taken separately, but course 71 a is prerequisite to 71 b. I: T, 10, TTh, 1-4. II: T, 11, TTh, 1-4. Mr. Kelley.
- 75 F. **General Field Session.** (4) August. Lectures, laboratory study, and field work. A college course in physical and historical geology is prerequisite.

For Juniors, Seniors, and Graduates

- 101 ab. **Economic Geology.** (3-3) I—Non-metals; II—Metals. Prerequisites: Geology 2, 6 L, and 71 abL. MWF, 11. Mr. Kelley.
- 105. **New Mexico Geology.** (2-4) I. Prerequisites: Geology 2 and 6 L; 71 abL, 107 L, and 108 are strongly recommended. (Offered in 1941-42 and alternate years.) Arranged. Mr. Northrop.
- 106. **Field Geology.** (2) II. Prerequisites: Geology 2 and 6 L, and Engineering 55 L; prerequisite or co-requisite: Geology 107 L. Arranged. Mr. Kelley.
- 107 L. **Petrography and Petrology.** (4) I. Prerequisites: Geology 2, 6 L, and 71 abL. TTh, 10; MW, 1-4. Mr. Kelley.
- 108. **Structural Geology.** (3) II. Prerequisites: Geology 2 and 6 L; preferably 107 L. TThS, 9. Mr. Northrop.
- 109 abL. **Stratigraphy.** (4-4) Yr. Prerequisites: Geology 2 and 6 L. Credit suspended for 109 a until 109 b is completed. (Offered

- in 1940-41 and alternate years.) TTh, 11, MW, 1-4. Mr. Northrop.
- 111 abL. **Paleontology.** (4-4) Yr. Prerequisites: Geology 2 and 6 L. Credit suspended for 111 a until 111 b is completed. (Offered in 1941-42 and alternate years.) TTh, 11, MW, 1-4. Mr. Northrop.
115. **Petroleum Geology.** (3) II. Prerequisites: Geology 2 and 6 L; 107 L, 108, and 116 are recommended. TThS, 10. Mr. Kelley.
116. **Sedimentation.** (3) I. Prerequisites: Geology 2 and 6 L; 107 L and 108 are recommended. (Offered in 1941-42 and alternate years.) TThS, 9. Mr. Northrop.
121. **Conservation of Natural Resources.** (3) I. Prerequisite: Geology 54. Arranged. Staff.
131. **Pleistocene Geology.** (2) II. Prerequisites: Geology 2 and 6 L. Arranged. Staff.
145. **Pro-Seminar in Economic Geology.** (1) I. Either this course or Geology 147 is required of all majors. (Offered in 1940-41 and alternate years.) Arranged. Mr. Kelley.
147. **Pro-Seminar in Paleontology.** (1) I. Either this course or Geology 145 is required of all majors. (Offered in 1941-42 and alternate years.) Arranged. Mr. Northrop.
- 151 ab. **Problems.** (2-2) Work in petrography may be taken. Arranged. Staff.
181. **Geomorphology.** (3) I. Prerequisite: Geology 108. (Offered in 1940-41 and alternate years.) TThS, 9. Mr. Northrop.
182. **Geomorphology of the United States.** (3) II. Prerequisite: Geology 181. (Offered in 1940-41 and alternate years.) Arranged. Mr. Northrop.

For Graduates Only

- 251 ab. **Problems.** (2-3 each semester) Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF GOVERNMENT AND CITIZENSHIP

Professor White (Head); Associate Professor Donnelly; Instructor Kleven; Graduate Fellow Reid.

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

Major Study.—Thirty hours including courses 1 ab, 51 ab, 197 a, or 197 b.

Minor Study.—Eighteen hours including courses 1 ab and 51 ab.

Primarily for Freshmen and Sophomores

- *1 ab. **Introductory Course.** (3-3) I, II. The problems of government, methods of study, and the development of a scientific attitude. Advanced students admitted by permission. I: Section A, TThS, 8. Mr. Donnelly. Section B, TThS, 9. Mr. White. Section C, MWF, 11. Mr. Kleven. II: Section A, TThS, 8. Mr. Kleven. Section B, TThS, 9. Mr. Donnelly. 1 a, TThS, 9. Mr. White.
- *51 ab. **American Government and Politics.** (3-3) I, II. Our system of government, national, state, and local. I: National government. II: State, county, and city government. I: MWF, 9. Mr. Kleven. II: 51 a, MWF, 9. Mr. White. 51 b, MWF, 9. Mr. Donnelly.

- 61 ab. **Nature and Sources of Law.** (2-2) I, II. The origin, nature, and function of law as a social institution. The development of the common law under American influence. Prerequisite: Government 1 ab. Mr. White.
- 71 ab. **European Governments.** (3-3) I, II. I: Governments as a problem. A study of the form government has taken in a selected group of democracies with special emphasis on the English Parliamentary system. II: A continuation of I with special emphasis on the theories and methods of totalitarian states and the theories and methods of communistic Russia. (Offered in 1940-41 and alternate years.) MWF, 2. Mr. Kleven.
75. **Public Opinion and Propaganda.** (3) I. Public opinion as it affects party alignments and governmental programs. The methods used by special interests in influencing public opinion. Prerequisite: Government 1 ab. (Offered in 1941-42 and alternate years.) Mr. Donnelly.
76. **Political Parties.** (3) II. The nature and function of the American party system, national, state, and local. Prerequisite: Government 1 ab. (Offered in 1941-42 and alternate years.) Mr. Donnelly.
- 81 ab. **History and Political Institutions of Greece and Rome.** (3-3) (Same as History 81 ab.)

For Juniors, Seniors, and Graduates

103. **Problems of Democracy.** (3) I. A study of governmental problems of special contemporary importance. (Offered in 1940-41 and alternate years.) MWF, 11. Staff.
104. **Principles of Citizenship.** (3) II. The origin and nature of such attitudes as express themselves in citizenship, and the effect our political institutions have on these attitudes; problems in education for citizenship. (Offered in 1940-41 and alternate years.) MWF, 11. Mr. White.
121. **Public Administration.** (3) I. Introduction to the general problems of public administration in the modern state; evolution of administrative organization; tendency toward centralization; process of integration; controls which are exercised over administration by the courts and legislatures; reorganization of administration. (Offered in 1940-41 and alternate years.) T, 7-9. Mr. Donnelly.
132. **Public Welfare Law.** (3) II. Laws relating to public welfare agencies, relief, health, employment, industrial accidents, and Social Security. (Offered in 1941-42 and alternate years.) Mr. Kleven.
141. **International Relations.** (3) I. The origin and nature of the problems involved in international relations. Recommended: History 1 b and 51 b. MWF, 10. Mr. Donnelly.
142. **Contemporary World Politics.** (3) II. An analysis of the foreign policies of the great powers and of contemporary problems growing out of these foreign policies. (Offered in 1940-41 and alternate years.) T, 7-9. Mr. Donnelly.
143. **International Law.** (3) II. The origin, nature, and application of the rules of international law. Prerequisites: Government 1 ab and 51 ab. (Offered in 1941-42 and alternate years.) Mr. White, Mr. Kleven.
151. **American Diplomacy.** (3) (Same as History 151.)

154. **Latin-American Diplomacy.** (3) I. The diplomatic relations of the Latin-American republics. Th, 7-9. Mr. Kleven.
155. **The Governments of Latin America.** (3) II. A consideration of the form which government has taken in a number of Latin-American states including a study of governmental problems and policies in Latin-America. MWF, 10. Mr. Kleven.
167. **Political Theory.** (3) I. Political thought from the Greek period to modern times. Mr. White.
168. **Contemporary Political Theory.** (3) II. Socialistic theories; the theory of the fascist corporate state; theories of current governmental policies. Mr. White.
175. **Constitutional Law.** (3) I. The Constitution of the United States as it has been interpreted by the courts. Prerequisite: Government 51 ab. MWF, 9. Mr. White.
176. **Government and Business.** (3) II. The political effects of business enterprising and governmental intervention. Prerequisite: Government 1 ab. Th, 7-9. Mr. Kleven.
191. **Public Personnel.** (2) I. Study of the principles of the civil service systems of the United States and of state governments. (Offered in 1941-42 and alternate years.) Mr. Donnelly.
- 195 ab. **Advanced Reading.** (2-2) Open to approved seniors and graduates in the department who wish to study in a field not adequately covered in courses available, or to students who plan to take Civil Service examinations and wish to round out their preparation. Arranged. Staff.
- 197 ab. **Seminar.** (2-4 each semester.) Open to advanced students with approved qualifications. T, 3-5. Mr. White.

For Graduates Only

- 201 ab. **Administrative Problems in State and Local Government.** (2-2) I, II. (Offered in 1941-42 and alternate years.) Mr. Donnelly.
- 205 ab. **Political Parties and Electoral Problems.** (2-2) I, II. (Offered in 1940-41 and alternate years.) Th, 3-5. Mr. Donnelly.
- 251 ab. **Problems.** (1-3 each semester) Arranged. Staff.
261. **Constitutional Problems in Public Administration.** (2) Arranged. Mr. White, Mr. Kleven.
262. **Problems in International Law and Relations.** (2) Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF GREEK AND LATIN

Professor Mitchell (Head).

GREEK

Courses in the Greco-Roman heritage are offered in the Departments of Anthropology, English, and History.

- 1ab. **Elementary Greek.** (3-3) Yr. Credit suspended for 1a until 1b is completed. (Offered in 1940-41 and alternate years.)
- 51 ab. **Intermediate Greek.** (2-2) Xenophon's Anabasis and New Testament. (Offered in 1941-42 and alternate years.)

LATIN

Group Requirements.—Courses in this department numbered below 100 count toward Foreign Language (Group II).

Major Study.—Twenty-four hours in courses numbered above 53 b. A comprehensive examination is required.

Minor Study.—Twelve hours in courses numbered above 53 b.

Primarily for Freshmen and Sophomores

- 53 ab. **Intermediate Latin.** (3-3) Selections from the various authors, especially Cicero and Ovid. Prerequisite: two units of Latin or equivalent. MWF, 11. Mr. Mitchell.
- 55 ab. **Virgil.** (3-3) Selections from Virgil with studies in prosody. Prerequisite: two units of Latin or equivalent.
- 71 ab. **Latin Literature.** (3-3) Selections from various authors. Prerequisite: three years of Latin. TThS, 10. (Not offered in 1940-41.)
- 81 ab. **Latin Grammar and Composition.** (1-1) Prerequisite: three years of Latin. (Not offered in 1940-41.)
- 91 ab. **Latin Literature.** (3-3) Selections from various authors. Prerequisite: three years of Latin. (Not offered in 1940-41.) Mr. Mitchell.

For Juniors, Seniors, and Graduates

General prerequisite: twelve hours of college Latin.

- 161 ab. **Advanced Reading.** (3-3) One course is given each semester in one of the following fields of study; history (Livy or Tacitus); Roman novel and plebeian Latin (Apuleius and Petronius); satire (Horace and Juvenal); biography (Suetonius); comedy (Plautus and Terence); philosophy (Lucretius); historical Latin grammar and syntax. TF, 4:20-5:40. Mr. Mitchell.
- 195 ab. **Problems.** (2-2) Original investigations in grammar, syntax, public and private life. Arranged. Mr. Mitchell.

For Graduates Only

Graduate work is offered only when circumstances permit. Arrangements should be made in advance.

- 251 ab. **Problems.** (2-2) Original investigations in syntax, semantics, dictionary making, supervised reading. Arranged. Mr. Mitchell.
300. **Thesis.** I, II. Arranged. Mr. Mitchell.

DEPARTMENT OF HEALTH

Professor Scott (Head).

Major and Minor in department not offered.

Primarily for Freshmen and Sophomores

- *1. **Personal Health.** (2) I. The general principles of healthful living. MW, 9. Dr. Scott.
- *2. **Community Health.** (2) II. Community methods for protecting health of citizens. MW, 9. Dr. Scott.
- *3. **Social Hygiene.** (2) I and II. The hygiene of sex life and problems of marriage. TTh, 3. Dr. Scott.
- *4. **Introduction to Public Health.** (2) II. Public health ideals and

- methods, and rural hygiene. TTh, 2. Dr. Scott. (Not offered 1940-41.)
72. **Educational Hygiene.** (2) I. (Same as Education 72.) T, 7-9.
81. **Health Statistics.** (2) I. Principles and applications. TTh, 1. Dr. Scott.
82. **Methods and Materials in Health Education.** (2) II. (Same as Education 82.) T, 7-9. Dr. Scott.
- *83. **Journal Club.** (2) II. Readings and reports on health literature. TTh, 1. Dr. Scott.
- *90. **Public Health Law.** (2) II. Laws, regulations, police power. TTh, 2. Dr. Scott.

For Juniors and Seniors

105. **Epidemiology.** (3) I. Epidemic diseases, epidemic methods. MWF, 8. Dr. Scott.
106. **Hygiene of Adult Life.** (3) II. Degenerative diseases, cancer and neoplastic diseases. MWF, 8. Dr. Scott.
122. **Public Health Practice.** (2) I, II. Field course, methods and problems in public health. (Offered upon sufficient demand). Hours arranged. Dr. Scott. (Not offered 1940-41.)

DEPARTMENT OF HISTORY

Professors Hammond (Head), Dargan; Associate Professors Bloom, Sacks; Assistant Professors Reeve, Woodward; Graduate Fellow Evans.

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

Major Study.—Thirty hours, including 12 hours from courses 1 ab and 11 ab or 51 ab, and at least 15 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.—Eighteen hours, including 1 ab or 11 ab, and not less than 6 hours numbered above 100.

Primarily for Freshmen and Sophomores

- *1 ab. **Western Civilization.** (3-3) The contributions of man from the earliest times. The course is organized into sections for additional work in historical geography, map work, and use of the library for historical study. MW, 11, and third hour arranged, or, TTh, 8, and third hour arranged. Mr. Sacks.
- *11 ab. **History of the Americas.** (3-3) The western hemisphere since the discovery. MWF, 8. Miss Woodward.
- *31. **History of New Mexico.** (2) I, II. TTh, 11. Miss Woodward.
- *51 ab. **History of the United States.** (3-3) Since the Revolution. MWF, 10. Mr. Reeve.
- 71 ab. **History of England.** (3-3) MWF, 2. Mr. Reeve.
- *81 ab. **History and Political Institutions of Greece and Rome.** (3-3) MWF, 10. Mr. Mitchell.

For Juniors, Seniors, and Graduates

General prerequisite: not less than 6 hours in History.

102. **Historical Method.** (3) I. TTh, 2, and 1 hour arranged. Miss Woodward.

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107. **Modern and Contemporary Far East.** (3) I. The relation of western civilization with the Orient since 1850. (Not offered 1940-41.)
122. **The Middle Ages.** (3) II. (Offered in 1941-42 and alternate years.) Miss Woodward.
123. **The Renaissance and the Reformation.** (3) II. (Offered in 1940-41 and alternate years.) TTh, 2, and 1 hour arranged. Miss Woodward.
132. **England under the Tudors and the Stuarts.** (3) I. TThS, 10. Mr. Reeve.
133. **England Since the Industrial Revolution.** (3) I. (Offered 1940-41, alternately with History 135.) MWF, 8. Mr. Sacks.
- ~~135.~~ **Modern Britain.** (3) I. Imperial Britain. (Offered 1941-42, alternately with History 133.) MWF, 8. Mr. Sacks.
- 141 ab. **Modern Europe, 1500-1914.** (3-3) Emphasis on social, economic, and intellectual developments on the continent. MWF, 9. Mr. Sacks.
- ~~143.~~ **The French Revolution and Napoleon.** (3) II. TThS, 10. Mr. Reeve. 3
146. **Europe Since 1914.** (3) II. The post-war era and its problems. MWF, 8. Mr. Sacks.
- ~~151.~~ **American Diplomacy.** (3) I. MWF, 10. Mr. Dargan. ~~_____~~
- 161 ab. **History of Hispanic America.** (3-3) (Offered in 1940-41 and alternate years.) MWF, 9. Miss Woodward. ~~_____~~
165. **History of Spain.** (3) I. (Offered in 1941-42 and alternate years.) MWF, 9. Miss Woodward.
- ~~168.~~ **History of Mexico.** (3) II. (Offered in 1941-42 and alternate years.) MWF, 9. Miss Woodward.
171. **The American Colonies.** (3) I. TThS, 8. Mr. Dargan.
- ~~173~~ ab. **Representative Americans.** (2-2) The great personalities who have influenced American history. TTh, 11. Mr. Dargan.
175. **The South in American History, 1763-1865.** (3) II. TThS, 8. Mr. Dargan.
178. **Recent History of the United States.** (3) II. The period since the Civil War. MWF, 10. Mr. Dargan.
- 179 ab. **Constitutional History of the United States.** (2-2) TTh, 9. Mr. Reeve.
- 181 ab. **History of the American Frontier.** (3-3) Emphasis on the Trans-Mississippi West. MWF, 11. Mr. Hammond. 6
- ~~191~~ ab. **History of the Southwest.** (3-3). Mr. Bloom.

For Graduates Only

- 201 ab. **Source Material in the Spanish Colonial Period.** (2-2) Training in the research use of manuscript sources. Reading knowledge of Spanish required. Arranged. Mr. Bloom.
- 251 ab. **Seminar.** (2-2) In 1940-41, the subject will be early European occupancy in the Southwest. M, 7-9. Mr. Hammond.
- 261 ab. **Research in Southwestern History.** (2-2) S, 10-12. Mr. Dargan.
- 271 ab. **Research in Early American History.** (2-2).
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF HOME ECONOMICS

Professor Simpson (Head); Assistant Professor Moser; Instructor Schroeder.

Group Requirements.—Home Economics 53 abL counts toward Science and Mathematics (Group IV).

Major Study.—See curriculum under "College of Education." For requirements for a major in the College of Arts and Sciences, consult the Registrar or the dean of the college.

Minor Study.—Courses 1, 2 L, and 12 hours in courses numbered above 50.

Primarily for Freshmen and Sophomores

- *1. **Home Making.** (3) I. Problems of the individual and the family in relation to foods and nutrition, clothing selection and buying; management of individual and family resources. MWF, 8.
- *2 L. **Home Making.** (4) II. Emphasis upon clothing construction; preparation and service of meals for the family; problems of family living; vocations. Prerequisite: Home Economics 1. MWF, 8-10.
- †15 abL. **Food Preparation.** (3-3) The composition, selection, and preparation of meals for the family group. Trips to dairies, bakeries, and markets. (Offered in 1941-42 alternately with 26.)
- †26. **Family Relationships.** (2) II. The relationship and the responsibilities of the various members of the family to each other and to the community. (Offered in 1940-41 alternately with 15 abL.) Arranged. Miss Schroeder.
- 53 abL. **Food for the Family Group.** (3-3) I, II. Selection, preparation, and service of family meals. Section A, T, 1-4, Th, 2-4. Section B, T, 1, TTh, 10-12.
- †57 L. **Equipment.** (3) I. The points of selection and methods of operation and care of household equipment. Lecture and laboratory arranged. (Offered upon sufficient demand.)
- †58. **Child Development.** (3) II. The physical development of the child in the prenatal and preschool periods. Factors which affect the mental, social, and emotional growth. (Offered upon sufficient demand.)
- †59. **Consumer Purchasing.** (3) I. The standards which affect the consumer's selection of food, clothing, equipment, and house furnishings; types of goods available and their influence upon the choice of the buyer. (Offered upon sufficient demand.)
- 63 abL. **Dressmaking.** (3-3) I—Textile economics; tailored garments in wool; children's clothing. II—History of costume; designs and adaptation of patterns, problems in silk. Prerequisite: Home Economics 1 and 2 L. MF, 1-3, W, 1. Miss Moser.
- †65 L. **Meal Planning.** (3) I. Individual work in planning and serving family meals. Selection of china, glass, silverware, and linens for the home. (Offered upon sufficient demand.)
- †70. **The House.** (3) II. Its care, management, and furnishings, The family income; standards of living. (Offered upon sufficient demand.)

For Juniors and Seniors

- 104. **Nutrition.** (2) II. Primarily for physical education majors. The relation of nutrition to the health program; corrective

- diets. (Offered in 1941-42 and alternate years.) Arranged. Mrs. Simpson.
- 107 L. **Advanced Foods.** (3) I. Food economics. Household marketing; food laws; history of cookery. Prerequisites: Home Economics 53 bL and Chemistry 60 L, W, 4-8, M, 1. Mrs. Simpson.
109. **Home Furnishings.** (3) I. The decoration and furnishing of home; fabrics in relation to their decorative and useful qualities. MWF, 10. Miss Moser.
111. **Consumer Education.** (3) I. Standards of selection; types of goods; distribution and advertising. Arranged. Staff.
- 120 L. **Equipment.** (2) II. Factors in the purchase and operation of household equipment. Practical work in the laboratory. (Offered in 1941-42 and alternate years.)
127. **Dietetics.** (4) I. Food requirements in normal nutrition; calculation and preparation of dietaries. Prerequisite: Home Economics 107 L. TWThF, 9. Mrs. Simpson.
128. **Family Relationships.** (3) I. The relationships among family members; use of leisure time; community responsibility. (Offered in 1940-41 and alternate years.) MWF, 1. Miss Schroeder.
132. **Household Management.** (3) II. Scientific management of the home; budgeting; community relationships. MWF, 3.
- 133 L. **Home Management House.** (3) I. Six weeks' residence required. Prerequisite: Home Economics 132. Arranged. Miss Schroeder.
138. **Child Care and Development.** (3) I. Growth and development during the prenatal, infancy, and preschool periods; physical care and food requirements; observation and assistance in the nursery school. MWF, 1. Miss Schroeder.
140. **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.
- 182 L. **Meal Planning and Serving.** (4) II. Dietetic, economic, and aesthetic aspects of meal service; practice in the selection and purchase of food. Prerequisites: Home Economics 107 L and 127. W, 4-8, and 2 hours arranged. Mrs. Simpson.
196. **Home Economics Seminar.** (1-2), I, II. Arranged. Staff.

LATIN

See Department of Greek and Latin.

DEPARTMENT OF LIBRARY SCIENCE

Professor Shelton (Head); Instructor Brindley.

1. **Elementary Library Science.** (2) I, II. Introduction to library methods, with a survey of cataloging, classification, and the sources of printed matter, with methods and practice in search for information in standard reference books, periodicals, government publications, scientific and technical literature. Th, 2, laboratory arranged. Miss Shelton.
21. **Reference and Bibliography.** (2) SS. Aims to train students to use books easily and observe them critically through a study of the standard works of reference, such as general and

- special encyclopedias, dictionaries, indexes to periodicals, reference books on special subjects, and governmental documents.
24. **Administration of School Libraries.** (2) SS. Equipment and administration of school libraries, loan work, statistics, budgets, methods and records for acquiring and caring for library materials and planning for school libraries. Miss Shelton.

DEPARTMENT OF MATHEMATICS

Professors Newsom (Head), Barnhart; Assistant Professor Larsen; Instructor Barker; Graduate Fellow Cox.

All beginning students in college algebra are given a comprehensive review for four weeks, after which they are assigned to courses according to individual need.

Group Requirements.—Courses in this department count toward Science and Mathematics (Group IV).

Major Study (College of Arts and Sciences)—Twenty-four hours in courses numbered above 50. The courses must include 53; 54; and at least one course from each one of the following groups: 131 or 117; 151, 152, or 154; 102, 113, or 121; and 194, 196, 197, or 198. Engineering 55 L may be counted toward a major.

Major Study (College of Education).—Mathematics 1, 53, 54; three courses chosen from 52, 102, 103, 104, 161; one course chosen from 107, 115, 117, 131; and one course numbered above 50 not listed in these groupings.

Minor Study.—Twelve hours in courses numbered above 52.

Note to Beginning Students in the College of Engineering.—Students entering the College of Engineering who do not meet the entrance requirements in high school mathematics will be required to take Mathematics 14 a in addition to the required courses in mathematics. If a grade lower than C is made in 14 a, 14 b will also be required. Credits earned in these courses will not count toward the graduation requirements in the College of Engineering.

Primarily for Freshmen and Sophomores

- †C. **Business Arithmetic.** (2) I. Especially constructed for students in the General College interested in the business curricula. Credit given only in the General College. Includes some drill work upon the fundamental operations. WF, 10. Staff.
1. **College Arithmetic.** (2) I, II. Designed to stress the logical and historical background of arithmetic desirable in training of teachers. TTh, 10. Mr. Larsen.
- *14 ab. **An Introduction to Mathematics.** (3-3) I, II. A study of the mathematical method and the fundamental mathematical concepts. Includes a study of number, logarithms, topics in finance, progressions, probability, functional relationships, variation, common curves, angles and periodic functions, interpretation of data, etc. Especially recommended for students who do not expect to do extensive work in mathematics. Prerequisite: high school algebra, 1 unit. I: Section 14 aA, MWF, 8. Mr. Larsen. Section 14 aB, TThS, 8. Staff. Section 14 aC, MWF, 2. Mr. Newsom. Section 14 b, MWF, 8. Mr. Newsom. II: Section 14 b, MWF, 8. Mr. Newsom. Section 14 aA, MWF, 8. Staff. Section 14 aB, MWF, 2. Mr. Barker:
15. **College Algebra.** (3) I, II. Prerequisites: high school algebra, 1½ units; plane geometry, 1 unit. I: Section A, MWF, 8.

- Mr. Barnhart. Section B, TThS, 8. Mr. Barnhart. II: Section A, MWF, 8. Mr. Barnhart. Section B, TThS, 8. Staff.
16. **Plane Trigonometry.** (3) I, II. Prerequisites: high school algebra, 1½ units; plane geometry, 1 unit. I: Section A, MWF, 8. Mr. Barker. Section B, TThS, 10. Mr. Barnhart. II: TThS, 10. Mr. Barnhart.
22. **Plane Analytic Geometry.** (3) I, II. Prerequisites: Mathematics 15 and 16. Mathematics 16 may be taken concurrently. I: TThS, 8. Mr. Barker. II: Section A, TThS, 8. Mr. Newsom. Section B, MWF, 8. Mr. Larsen. Section C, TThS, 8. Mr. Barnhart.
- *52. **Introduction to Astronomy.** (3) II. A descriptive course, extensive knowledge of science or mathematics not required. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. MWF, 8. Mr. Barker.
53. **Differential Calculus.** (4) I, II. Prerequisites: Mathematics 15 and 16 with 22 recommended, or Mathematics 14 ab. I: Section A, MTThF, 9. Mr. Larsen. Section B, MTThF, 9. Mr. Newsom. II: MWFS, 9. Mr. Barker.
54. **Integral Calculus.** (4) I, II. Prerequisite: Mathematics 53. I: MWFS, 9. Mr. Barker. II: Section A, MTThF, 9. Mr. Larsen. Section B, MTThF, 9. Mr. Newsom.

For Juniors, Seniors, and Graduates

102. **College Geometry.** (3) I. Higher plane geometry. Prerequisite: Mathematics 22. (Offered in 1941-42 and alternate years.)
103. **Mathematical Recreations.** (3) II. A discussion of magic squares, mathematical paradoxes, interesting aspects of number theory, historical events, the three classical problems, etc. Prerequisite: Mathematics 22. (Offered in 1941-42 and alternate years.)
104. **Foundations of Mathematics.** (3) II. A critical study of the construction of a mathematical system. Prerequisite: Mathematics 22, or consent of instructor. (Offered in 1940-41 and alternate years.) MWF, 1. Mr. Newsom.
107. **Theory of Numbers.** (3) II. Divisibility of numbers, simple continued fractions, congruences, quadratic residues, Diophantine equations, etc. Prerequisite: Mathematics 22. (Offered in 1940-41 and alternate years.) MWF, 11. Mr. Larsen.
113. **Analytic Projective Geometry.** (3) I. Prerequisite: Mathematics 22. (Offered in 1940-41 and alternate years.) TThS, 11. Mr. Barnhart.
115. **Theory of Equations.** (3) I. Prerequisite: Mathematics 53. (Offered in 1941-42 and alternate years.)
117. **Mathematics of Finance.** (3) I. Fundamental problems of finance, including interest, discounts, annuities, bonds, and amortization. Accepted for major credit by the Department of Economics. Prerequisite: Mathematics 14 a or 15. (Offered in 1941-42 and alternate years.)
121. **Analytic Geometry of Space.** (3) II. Prerequisite: Mathematics 22 and 54. (Offered in 1940-41 and alternate years.) TThS, 11. Mr. Barnhart.
131. **Elementary Mathematical Statistics.** (3) I. Designed to supplement courses in statistics in other departments, with the stress on the mathematical principles involved. Pre-

- requisite: Mathematics 22 or consent of instructor. (Offered in 1940-41 and alternate years.) MWF, 11. Mr. Larsen.
151. **Advanced Calculus.** (3) I. Partial differentiation, definite integrals, multiple integrals, elliptic integrals, improper integrals, etc. Prerequisite: Mathematics 54. (Offered in 1941-42 and alternate years.)
152. **Elementary Differential Equations.** (3) II. Prerequisite: Mathematics 54. TThS, 8. Mr. Barker.
154. **Infinite Series.** (3) I. A study of infinite sequences and infinite series, including series of constant terms, power series, Fourier series, etc. Prerequisite: Mathematics 54. (Offered in 1940-41 and alternate years.) MWF, 10. Mr. Barker.
161. **History of Mathematics.** (3) I. Mathematics in relation to other factors in history. Prerequisite: Mathematics 54. (Offered in 1940-41 and alternate years.) TThS, 10. Mr. Newsom.
182. **Theory of Functions of a Complex Variable.** (3) II. Prerequisite: Mathematics 54. (Offered in 1941-42 and alternate years.)

(The seminars which follow are open only to qualified students, and permission to register requires the consent of the instructor and the department head.)

194. **Pro-Seminar in Statistics and Probability.** (2) I. Arranged. Mr. Larsen and Staff.
196. **Pro-Seminar in Geometry.** (2) II. Arranged. Mr. Barnhart and Staff.
197. **Pro-Seminar in the Foundations of Mathematics.** (2) II. Arranged. Mr. Newsom and Staff.
198. **Pro-Seminar in Function Theory.** (2) I. Arranged. Mr. Barker and Staff.

For Graduates Only

- 204 ab. **Seminar in Statistics and Probability (2-2)** Arranged. Mr. Larsen and Staff.
- 206 ab. **Seminar in Geometry. (2-2)** Arranged. Mr. Barnhart and Staff.
- 207 ab. **Seminar in Algebra and Number Theory. (2-2)** Arranged. Mr. Barker and Staff.
- 208 ab. **Seminar in Function Theory. (2-2)** Arranged. Mr. Newsom and Staff.
300. **Thesis. (3-3) I, II.** Arranged. Staff.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

Professor Kercheville (Head); Associate Professor Campa; Assistant Professors Alexander, DeJongh, Duncan, Koch, Lopes; Graduate Fellows Adair, Burt, Faltis,† Martinez,‡ Wallis.†

Group Requirements.—Courses in this Department count toward Foreign Language (Group II), with the exception of Spanish 49 ab, 81, 82, and all courses under Hispanic studies.

Placement Examinations.—Any student presenting one or more units in a given language and desiring to continue that language in

†First semester only.

‡Second semester only.

courses below 100 must take the placement examination. On the basis of the result, students will be assigned to the proper courses.

FRENCH

Major Study.—Twenty-four hours in courses numbered above 50. All French majors are urged to take a minor in Spanish or another modern language, or Latin.

Minor Study.—Twelve hours in courses numbered above 50.

Primarily for Freshmen and Sophomores

- *1 ab. **Elementary French.** (3-3) Yr. Credit for 1 a suspended until 1 b is completed. Section A, MWF, 11. Mr. Alexander. Section B, TThS, 11. Staff.
- *51 ab. **Intermediate French.** (3-3) Grammar, reading, and translation. Prerequisites: French 1 ab or two high school units. Section A, MWF, 11. Mr. DeJongh. Section B, MWF, 8. Mr. DeJongh.

For Juniors, Seniors, and Graduates

General Prerequisites: French 51 ab or equivalent.

- 101 ab. **Advanced Composition and Conversation.** (3-3) (Offered in 1941-42 and in alternate years.)
- 105 ab. **French Literature of the Nineteenth Century.** (2-2) (Offered in 1940-41 and in alternate years.) TTh, 9. Mr. DeJongh.
- 111 ab. **Contemporary French Literature.** (2-2) (Not offered in 1940-41).
- 121 ab. **French Comedy.** (2-2) Writers of the classical period. (Offered in 1940-41 and in alternate years.) MW, 9. Mr. DeJongh.
- 151 ab. **Survey of French Literature.** (3-3) (Offered in 1941-42 and in alternate years.)

For Graduates Only

- 251 ab. **Problems in French Literature.** (2-2) Arranged. Mr. DeJongh.

GERMAN

Major Study.—Not offered.

Minor Study.—Twelve hours in courses numbered above 50.

Primarily for Freshmen and Sophomores

- *1 ab. **Elementary German.** (3-3) Yr. Credit for 1 a suspended until 1 b is completed. Section A, MWF, 8. Mr. Koch. Section B, TThS, 11. Mr. Koch.
- *51 ab. **Intermediate German.** (3-3) Prerequisites: German 1 ab or two high school units. MWF, 11. Mr. Koch.
- 61. **Post-war Literature.** (3) I. German literature since the World War. (Offered in 1940-41 and in alternate years.) MWF, 10. Mr. Koch.
- 62. **Scientific German.** (3) II. Readings in psychology, chemistry, mathematics, biology, and anthropology. (Offered in 1940-41 and alternate years.) TThS, 8. Mr. Koch.

For Juniors, Seniors, and Graduates

- 151 ab. **Survey of German Literature.** (3-3) (Offered in 1941-42 and in alternate years.)

ITALIAN

No major or minor study offered in Italian.

- 75 ab. **Italian.** (3-3) This course is open to students who possess a reading knowledge of another Romance language, and graduate students, or upon permission of the instructor. (Offered in 1941-42 and in alternate years.)

PORTUGUESE

No major or minor study offered in Portuguese.

- 75 ab. **Portuguese.** (3-3) This course is open only to students who possess a reading knowledge of another Romance language, and graduate students, or upon permission of the instructor. (Offered alternately with Italian 75 ab.) MWF, 2. Mr. Lopes.

SPANISH

Major Study.—Twenty-four hours in courses numbered above 50, with exception of 81 and 82, including Spanish 93 ab, 151 ab, and 153; and two years of college work in another modern language or Latin. All Spanish majors are urged to choose some other modern language as a minor. Other minors may be arranged on consultation with the Department head.

Minor Study.—Twelve hours in courses numbered above 50, with the above exceptions.

Primarily for Freshmen and Sophomores

- *1 ab. **Elementary Spanish.** (3-3) Yr. Credit for 1 a suspended until 1 b is completed. Section A, MWF, 8. Mr. Campa. Section B, MWF, 11. Mr. Faltis. Section C, TThS, 11. Mr. Lopes. 1 b. (Open to students who present one unit of high school Spanish or one semester of college Spanish. This is the second semester of the first year course. 1 a will be given at the same hour the second semester.) MWF, 11. Mr. Lopes.
- *41 ab. **Intermediate Spanish.** (3-3) This course is not open to students who speak Spanish natively except upon the recommendation of the Placement Examination Committee or by arrangement with the head of the Department. Section A, MWF, 11. Mr. Campa. Section B, TThS, 11. Staff. Section C, MWF, 11. Staff. Section D, TThS, 11. Mr. Duncan. 41 b (This course is open to students who present three units of high school Spanish or three semesters of college Spanish. It is the second semester of the second year course. 41 a will be given at the same hour the second semester.) MWF, 8. Staff.
- *49 ab. **Modern Language Masterpieces.** (2-2) Works read in translation with lectures in English. (Offered in 1941-42 alternately with 81 and 82.) TTh, 2. Mr. Kercheville.
- 53 ab. **Intermediate Composition and Conversation.** (3-3) (Offered in 1941-42 and in alternate years.)
- 55 ab. **Intermediate Spanish.** (3-3) This course is open only to students who speak Spanish natively, except upon permission of the instructor. MWF, 11. Mr. Duncan.
61. **Spanish Short Story.** (2).
- *81. **Spanish Civilization.** (2) I. Conducted in English. (Offered in 1940-41 and in alternate years.) TTh, 2. Mr. Kercheville.

- *82. Mexican Civilization. (2) II. Conducted in English. (Offered in 1940-41 and in alternate years.) TTh, 2. Mr. Campa.
- *91 ab. Introduction to Spanish Literature. (3-3) Prerequisite: 41 ab or equivalent. MWF, 10. Mr. Lopes.
- *93 ab. Advanced Composition and Conversation. (3-3) Required of all majors. Prerequisite: 53 ab or consent of the instructor. (Offered in 1940-41 and in alternate years.) MWF, 10. Mr. Campa.

For Juniors, Seniors, and Graduates

- 105 ab. Contemporary Spanish Literature. (2-2) (Offered in 1940-41 and in alternate years.) MW, 8. Mr. Duncan.
- 107. ab. Spanish Novel. (2-2) I: The beginning and development of the novel. II: The Spanish novel of the nineteenth and twentieth centuries. (Offered in 1941-42 and in alternate years.)
- 121 ab. Modern Spanish Drama. (2-2) I: Nineteenth century. II: Twentieth century. (Offered in 1940-41 and in alternate years.) TTh, 9. Mr. Kercheville.
- 131. Advanced Spanish Grammar. (2) II. Prerequisite: 93 ab or equivalent. (Offered in 1941-42 and in alternate years.)
- 151 ab. Survey of Spanish Literature. (3-3) I: Period before 1700. II: 1700 to the present. Required of all majors. Prerequisite: 91 ab or the equivalent. MWF, 10. Mr. Kercheville.
- 153. Phonetics. (2) I. Scientific study of the sounds of the language. Required of all majors. (Offered in 1940-41 and in alternate years.) TTh, 10. Mr. Kercheville.
- 155 m. The Teaching of Spanish in High School. (Same as Education 155 m.)
- 157 ab. Survey of Spanish-American Literature. (2-2) I: Period prior to 1888. II: Contemporary letters. Required of candidates for the Master's degree. Prerequisite: 91 ab. (Offered in 1941-42 and in alternate years.)
- 163 ab. Contemporary Spanish-American Literature. (2-2) Open only to graduate students and especially qualified undergraduates. (Offered in 1940-41 and in alternate years.) TTh, 2. Mr. Lopes.
- 164 ab. The Golden Age. (3-3) (Offered in 1940-41 and in alternate years.) MWF, 9. Mr. Duncan.
- 165 ab. Cervantes. (2-2) (Offered in 1941-42 and in alternate years.)
- 171. Lyric Poetry. (3) I. From the troubadours to the present time. Required of candidates for the Master's degree. (Offered in 1940-41 and in alternate years.) MWF, 1. Mr. Campa.

For Graduates Only

- 201 ab. History of the Spanish Language. (2-2) The principal laws involved in the evolution of Spanish from Latin, together with readings from medieval texts. Required of candidates for the Master's degree. (Offered in 1941-42 and in alternate years.)
- 205. Research Methods. (2) I. Required of candidates for the Master's degree. TTh, 1. Mr. Duncan.
- 251 ab. Seminar. (2-2) Galdos. Arranged. Mr. Kercheville.
- 300. Thesis. I, II. Arranged. Staff.

HISPANIC STUDIES

Besides the courses offered for a major in Spanish language and literature, the department offers a major in Hispanic Studies. Prerequisites for registration for a major or minor in this course are: Anthropology 1 ab, Spanish 41 ab, and 53 ab or equivalent, and all lower division requirements.

Major Study.—Thirty semester hours in courses listed below, together with a minor in Spanish.

Required.—Anthropology 105 ab, English 77, History 161 ab, Spanish 81, 82, 115, 157 ab.

Electives.—Government 154, History 168, Spanish 107 ab, 121 ab, 161, 162, 163 ab, 171. (13 hours.)

Minor Study.—Twelve semester hours including the following courses, and an elective in consultation with the Department: History 161 ab, Spanish 82, 115.

For Juniors, Seniors, and Graduates

115. **Southwestern Folklore.** (2) I. Special stress on New Mexico. (Offered in 1941-42 and in alternate years.)
161. **Folktales.** (2) II. The folktale in Europe and Spanish America. (Offered in 1940-41 and in alternate years.) TTh, 10. Mr. Campa.
162. **Folk Ballads and Songs.** (2) II. Spanish balladry in the New World, particularly in New Mexico. (Offered in 1941-42 and in alternate years.)

DEPARTMENT OF MUSIC

Professor Clauve; Associate Professor Thompson (Head); Assistant Professor Redman; Instructor Keller; Part-time Instructors Ancona, Burg, Kunkel, Rodey.

See curricula under College of Fine Arts.

Major Study (College of Arts and Sciences and College of Education).—Twenty-four hours in applied music, and 20 hours of theoretical courses.

Minor Study (College of Arts and Sciences and College of Education).—Twelve hours in applied music, and 12 hours of theoretical courses.

Music Education.—For a major or minor, see curriculum in the College of Education.

Recitals and Public Exercises.—All music students are required to attend all studio recitals and to take part in recitals and public exercises.

Theoretical Courses

- *3 ab. **Ear Training and Sight Reading.** (2-2) Oral and written dictation, rhythms, sight reading in major and minor modes, intervals, chords, and melodies. TTh, 11. Mrs. Thompson.
- *13 ab. **Harmony.** (2-2) Prerequisite: Music 3 ab. TTh, 2. Mr. Keller.
- *53 ab. **Harmony: Written and Keyboard.** (2-2) Prerequisite: Music 13 ab, MW, 2. Mr. Keller.
- *55 ab. **Instrumental Methods.** (2-2) The practical handling of instruments in ensemble groups. Mr. Kunkel.
- 63 ab. **Advanced Ear Training and Sight Reading.** (2-2) Prerequisite: Music 3 ab. TTh, 11. Mrs. Rodey.

- *71 ab. **Aesthetics of Music.** (2-2) Musical literature of all periods. Extensive collateral reading required. MW, 11. Mrs. Thompson.
- 81 ab. **Conducting: Instrumental and Vocal Ensemble.** (2-2). Prerequisites: 3 ab, 13 ab. Arranged. Mrs. Thompson.
- 105 ab. **Counterpoint.** (2-2) Prerequisite: Music 13 ab. TTh, 1. Mr. Keller.
- 152 ab. **Form and Analysis.** (2-2) Prerequisite: 105 ab. TTh, 2. Mrs. Thompson.
- 161 ab. **History of Music.** (2-2) The growth of music to the present day. TTh, 10. Mrs. Ancona.
- 163 ab. **Music Appreciation.** (2-2) Recommended for all music students. MW, 10. Mrs. Ancona.
- 177 ab. **Orchestration.** (2-2) Scoring of ensemble music. MW, 3. Mr. Kunkel.
- 190 ab. **Composition.** (2-2) Prerequisite: Music 105 ab. TTh, 9. Mr. Keller.

Applied Music

One half-hour lesson per week earns two hours credit per semester.

A student majoring in applied music is required to take two private lessons per week and to give a public recital during the junior and senior years.

Piano (Mr. Keller, Mrs. Ancona)

Beginners in piano are not allowed to complete a major.

Accompanying.—Class work in accompanying will be offered upon request.

Pipe Organ (Mrs. Ancona)

Students enrolling in pipe organ are required to have the equivalent of freshman and sophomore piano.

Violin (Mrs. Rodey)

Beginners in violin are not allowed to complete a major.

Cello (Mr. Burg)

Beginners in cello are not allowed to complete a major.

Orchestration and Band Instruments (Mrs. Thompson, Mr. Kunkel)

Courses in orchestration and band instruments are offered according to the demand.

Voice (Mrs. Redman)

Enrollment in applied music (piano, pipe organ, violin, voice, etc.) will be as follows:

- 1 ab. **Freshman Course.** (2-4 each semester) Arranged.
- 51 ab. **Sophomore Course.** (2-4 each semester) Arranged.
- 101 ab. **Junior Course.** (2-4 each semester) Arranged.
- 151 ab. **Senior Course.** (2-4 each semester) Arranged.

Ensemble Music

A maximum of 4 hours credit may be counted toward a degree in all colleges except Fine Arts, in which 8 hours may be counted.

- *21 ab. **Men's Chorus.** (1-1) TTh, 3, F, 1. Mrs. Redman, Mrs. Thompson.
- *23 ab. **Women's Chorus.** (1-1) MW, 3, F, 1. Mrs. Redman, Mrs. Thompson.

- *33 ab. **Orchestra.** (1-1) Tests for admission held during freshman week. MW, 4. Mrs. Thompson, Mr. Kunkel.
- 35 ab. **String Ensemble.** (1-1) Class meets two hours per week. Arranged. Mrs. Rodey.
- *41 ab. **Band.** (1-1) Tests for admission held during Freshman Week. WS, 1. Mr. Kunkel. (May be substituted for required Physical Education, see Department of Physical Education.)

DEPARTMENT OF PHILOSOPHY

Professor Knode (Head); Assistant Professor Alexander.

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

Major Study.—Philosophy 40, 51, 61 ab and nineteen additional hours of which at least ten must be numbered above 100.

Minor Study.—Philosophy 40, 51, 61 ab and four additional hours, preferably numbered above 100.

Note: Students taking a major or a minor in philosophy are urged to take many broad fundamental courses, and should consult members of the department as early as possible concerning their selection.

Primarily for Freshmen and Sophomores

- *40. **Introduction to Philosophy.** (2) I, II. The function of philosophy and its approach to human problems; the relation of philosophy to science. TTh, 11. Mr. Knode, Mr. Alexander.
- *48. **American Thought.** (3) II. An analysis of origins and trends of American thought and ideals. MWF, 11. Mr. Knode.
51. **Logic.** (3) I. Argument and clear thinking, and the rules of inference. MWF, 10. Mr. Alexander.
- *53. **Ethics.** (2) I. The problems of human values, both individual and social. TTh, 10. Mr. Alexander.
- 61 ab. **The European Mind.** (3-3) The history of philosophies which have been most influential in European thinking. TThS, 11. Mr. Alexander.
- *63. **The World's Living Religions.** (3) I. Survey of existing religions with special reference to their scriptures. (Offered in 1941-42 and alternate years.) MWF, 1. Mr. Koch.

For Juniors, Seniors, and Graduates

102. **Aesthetics.** (2) II. Theories of the systematic interpretation of beauty illustrated from the fine arts. TTh, 2. Mr. Alexander. (Offered in 1941-42 alternately with Philosophy 123.)
123. **Hispanic Thought.** (3) II. A philosophical interpretation of the Spanish mind. TTh, 2. Mr. Alexander.
- 161 ab. **Periods of Special Philosophical Significance.** (2-2) Plato and Aristotle; Descartes, Spinoza, and Leibniz; Locke, Berkeley, and Hume; Kant, Fichte, and Hegel; or others to be chosen by the group. Prerequisite: Philosophy 40 or 61 ab. W, 3-5. Mr. Alexander.
176. **Contemporary Philosophy.** (2) II. A survey of present-day philosophic thought, with special reference to the works of Whitehead, Bergson, and Dewey. Prerequisite: Philosophy 40. TTh, 11. Mr. Knode.
178. **Contemporary Conflict of Ideas.** (3) I. An analysis of present-day ideological strife in religion, education, and other institu-

- tional life, and a study of its philosophical background. Prerequisites: Philosophy 40, 48, or 61 b. MWF, 11. Mr. Knode.
- 191 ab. **General Linguistics and Theory of Language.** (2-2) Elements and theories of linguistics; distribution of major linguistic groups. Th, 3-5. Mr. Alexander.
- 195 ab. **Philosophy of Science and Advanced Logic.** (2-2) Basic problems of logical thinking and the scientific method. Prerequisites: Philosophy 51 and preferably Mathematics 104. (Offered in 1941-42 alternately with Philosophy 191 ab.) Th, 3-5. Mr. Alexander.

For Graduates Only

- 251 ab. **Seminar.** (3-3) Special problems in contemporary metaphysics or epistemology.
300. **Thesis.** I, II. Arranged.

DIVISION OF PHYSICAL EDUCATION AND HEALTH

Associate Professor White (Head); University Physician C. K. Barnes.

DEPARTMENTS OF PHYSICAL EDUCATION

Credit for four semester hours in activities courses in physical education must be completed by each student under the age of 30 years. 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 should not substitute their participation in sports for the required physical education classes.

For the required four semesters, men will enroll for Physical Education M; women will enroll for Physical Education W. The section number is then added to the M or W.

The instructor in each course should be consulted concerning proper clothing or uniform. Regulation blue uniforms are required for women; regulation gray uniforms for men.

Swimming is offered only in summer session, and a health certificate is required of each enrollee in this course. In certain sections of M courses, several weeks of swimming will be required.

There is a special fee of \$3.00 per semester for fencing, \$3.00 per semester for golf, and \$15.00 per semester for horseback riding.

In P. E. M or W four absences will be allowed, but no credit will be granted in case there are more than four absences.

PHYSICAL EDUCATION FOR MEN

Professor Johnson (Head); Associate Professor White; Instructors C. K. Barnes, W. Barnes, Dolzadelli, Shipkey; Assistants DeBaca, McFadden.

Major Study.—A major in physical education is offered only in the College of Education. Students are required to complete all courses listed in the curriculum and to participate in at least one major sport.

Minor Study.—A minor in physical education is offered only in the College of Education. Students are required to complete all courses listed in one of the curricula, and to participate in a major or minor sport.

- M. **Activities.** (1-1) Required of all freshmen and sophomores. Several sections offered each semester. Four semester-hours in this course are required of each student who is less than 30 years of age. Physical education majors and minors should consult the head of the department, concerning required sections. Students enrolled in Music 41 ab (Band) may substitute that activity for required physical education, semester for semester. Students who wish to make this substitution, should enroll "band for P. E. credit," and should advise the band instructor of this intention.

**Freshman and Sophomore Academic Courses; Primarily for
Physical Education Majors and Minors**

- *4. **Elements of Scoutmastership.** (1) Fundamentals of organizing Boy Scout troops; planning and conducting a successful program. Arranged. Staff.
- *6. **Principles of Scoutmastership.** (1) Advanced course for scoutmasters. Prerequisite: Physical Education 4. Arranged. Staff.
- 22 L. **Theory and Practice of Basketball.** (2) II. TTh, 10 and 2 hours arranged. Mr. Johnson.
- 61 L. **Theory and Practice of Football.** (2) I. TTh, 8 and 2 hours arranged. Mr. Shipkey.
- 62 L. **Theory and Practice of Track and Field Athletics and of Baseball.** (2) II. TTh, 11, and 2 hours arranged. Mr. Johnson.

**Junior and Senior Academic Courses; Primarily for
Physical Education Majors and Minors**

- 101 L. **Principles, History, Theory and Practice of Physical Education Activities.** (2) I. TTh, 9, and 2 hours arranged. Mr. Johnson.
- 102 L. **Theory and Practice of Combative Sports: Boxing, Wrestling, Fencing, etc.** (2) II. TTh, 10, and 2 hours arranged in regular physical activity courses. Mr. Shipkey.
- 104 L. **Human Anatomy and Kinesiology.** (4) I. Prerequisites: Biology 1 L and 97 L. WF, 1-4. Dr. Barnes.
- 105 ab. **Recreational Leadership.** (3-3) (An elective course for men.) Mrs. Gleaves.
- 135 L. **Corrective Gymnastics and Remedial Work.** (2) I. Prerequisites: Physical Education 104 L, 161, 167. MW, 8 and 2 hours arranged in the restrictive groups of regular physical education classes. Mr. Johnson.
136. **Theory of Coaching, Strategy, and Tactics.** (2) I. Prerequisites: Physical Education 22, 61, 62, and Home Economics 104. MW, 11. Mr. Johnson.
161. **First Aid.** (2) I. Emergency treatment of fainting, shock, etc. TTh, 9. Mr. Dolzadelli.
- 162 L. **Theory and Practice of Intramural Athletics and Various Minor Sports.** (3) II. TThS, 10, and 2 hours arranged. Mr. Dolzadelli.
167. **Physical Diagnosis and Tests and Measurements.** (3) II. Technique of determining physical fitness for participation in athletics and physical education activities. TThS, 9. Dr. Barnes.
172. **Organization and Administration of Physical Education and Athletics.** (3) II. MWF, 9. Mr. Johnson.

- 183 ab. **Practice Coaching.** (2-2) Prerequisite: senior standing. MW, 10, and 2 hours arranged. Mr. White and Staff.
186. **Pro-Seminar.** (2) II. Arranged. Mr. White and Staff.

PHYSICAL EDUCATION FOR WOMEN

Instructors Gleaves (Acting Head), Sedillo-Brewster, C. K. Barnes; Assistants McFadden, Sanchez, Wooten. *Bryan, Dennis*

Major Study.—A major in physical education is offered only in the College of Education. See "College of Education" for curriculum.

Minor Study.—A minor in physical education is offered only in the College of Education. The minor consists of 12 hours, not including required physical education courses.

W. Activities. (1-1) Required of all freshmen and sophomores. Several sections offered each semester. Four semester-hours in this course are required of each student who is less than 30 years of age. Physical education majors and minors should consult the head of the department, concerning required sections.

Freshman and Sophomore Academic Courses; Primarily for Physical Education Majors and Minors

15. **Fundamentals of Physical Education.** (1) II. Required course for freshman major students. TThS, 11. Mrs. Gleaves.
- 65 ab. **Sophomore Technique.** (2-2) Technique of teaching the following activities: I: Speedball, volleyball. TThS, 8 and W, 10. II: Basketball, baseball. TThS, 10, and W, 10. Prerequisite: Elementary course in each of the activities. Miss Sanchez.

For Juniors and Seniors

- ~~104.~~ **Nutrition.** (Same as Home Economics 104).
- ~~104 L.~~ **Human Anatomy and Kinesiology.** (4) I. Prerequisites: Biology 1 L and 97 L. WF, 1-4. Dr. Barnes.
- ~~105 ab.~~ **Recreational Leadership.** (3-3) Mrs. Gleaves.
- ~~107 ab.~~ **Junior Technique.** (2-2) Technique of teaching following activities: I—Hockey, Tumbling. Prerequisite: Elementary course in each of the activities. TThS, 11 and M, 1. Miss Sanchez.
122. **Technique of Tennis.** (1) II. One hour lecture and 2 hours laboratory. Prerequisite: elementary course in tennis or equivalent. Arranged.
- ✓ 124. **Technique of Gymnastics.** (1) I. Prerequisite: activity course in gymnastics. TThS 10, and W, 11. Miss Sanchez.
135. **Corrective Physical Education.** (2) II. Abnormalities of spine, feet, and posture. A study of the physical education program for the handicapped. Prerequisite: P.E. 104 L. MWF, 10, and 1 hour arranged. Mrs. Gleaves.
- ✓ 155. **Senior Technique.** (2) I. Technique of teaching: swimming, archery and recreational games. Prerequisite: activity course in archery and recreational games. TThS, 9, and F, 1. Mrs. Gleaves.
- ✓ 156. **Senior Technique.** (2) II. Technique of teaching dancing. MWF, 2, and 1 hour arranged. Miss Sedillo.
- ~~157.~~ **Principles and Methods of Physical Education.** (4) I. MWF, 10. Mrs. Gleaves.

161. **First Aid.** (2) I. Emergency treatment of fainting, shock, etc. TTh, 9. Mr. Dolzadelli.
167. **Physical Diagnosis and Tests and Measurements.** (3) II. Technique of determining physical fitness for participation in athletics. TThS, 9. Dr. Barnes.
172. **Organization and Administration of Physical Education and Athletics.** (3) II. Section B for women. MWF, 11. Mrs. Gleaves.

DEPARTMENT OF PHYSICS

Professor Workman (Head); Assistant Professor Holzer.

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

Major Study.—Eighteen hours in courses above 100. Students interested in physics as a profession are required to take a comprehensive examination before graduation.

Minor Study.—Eight hours in courses above 100.

Minor Study in Meteorology.—Eight hours in courses above 100, including Physics 101 and 116.

Primarily for Freshmen and Sophomores

- 41 ab. **General Physics.** (3-3) The elements of mechanics, properties of matter, heat, electricity, magnetism, sound and light. Prerequisites: algebra and plane geometry. TThS, 10. Mr. Workman, Mr. Holzer.
- 41 abL. **General Physics Laboratory.** (1-1) Credit suspended if student fails Physics 41 ab. Co-requisite: Physics 41 ab. TWTh or F, 1-4. Mr. Holzer.

For Juniors, Seniors, and Graduates

101. **Heat and Radiation.** (3) I. The theory of heat and temperature radiation with an introduction to thermo-dynamics. Prerequisites: Physics 41 b and Mathematics 54. MWF, 8. Mr. Workman.
102. **Optics.** (3) II. Geometrical and physical optics. Prerequisite: Physics 41 b. (Offered in 1940-41 and alternate years.) TThS, 8. Mr. Workman.
- 102 L. **Optics Laboratory.** (1) II. Co-requisite: Physics 102. T, 1-4. Mr. Workman.
- 105 L. **Laboratory Technique.** (2-4) I, II. A study of techniques associated, for the most part with research problems in progress. Prerequisite: Physics 41 b. Arranged. Staff.
- 111 ab. **Electricity and Magnetism.** (3-3) I: General theory of electrostatics, magnetostatics, direct current phenomena, and electromagnetic induction. Prerequisites: Physics 41 b and Mathematics 54. MWF, 10. Mr. Holzer. II: Theory of alternating current circuits, and electromagnetic transients. Prerequisite: Physics 111a. (Offered in 1941-42 and alternate years.) MWF, 8. Mr. Holzer.
- 111 aL. **Electricity and Magnetism Laboratory.** (1-2) I. Co-requisite: Physics 111 a. MT, 1-4. Mr. Holzer.
116. **Meteorology.** (3) II. General meteorology with an introduction to dynamical and synoptic meteorology. Prerequisites: Physics 41 b and Mathematics 54. (Offered in 1940-41 and alternate years.) MWF, 8. Mr. Holzer.

142. **Analytic Mechanics.** (3) II. A mathematical presentation of kinematics, dynamics and statics. The methods of vector analysis are used throughout. Prerequisites: Physics 41 b and Mathematics 54. (Offered in 1941-42 and alternate years.) TThS, 8. Mr. Workman.
191. **Contemporary Physics.** (3) I. A survey of selected subjects in the fields of kinetic theory, thermodynamics, electromagnetic theory and quantum theory. Prerequisite: approval of staff. MWF, 9. Staff.
192. **Contemporary Physics.** (3) II. A survey of selected subjects in the fields of ionization, penetration radiation, and nuclear structure. Prerequisite: approval of staff. MWF, 9. Staff.
- For Graduates Only**
251. **Problems.** (2-4) I, II. Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF PSYCHOLOGY

Professor Haight (Head); Associate Professors Peterson, Dubois; Graduate Fellow Emerson.

Group Requirements.—Psychology 1 abL, 51 L, and 121 abL count toward Science and Mathematics (Group IV). In the College of Arts and Sciences, courses 31 and 32 count toward Social Science (Group III.)

Major Study.—College of Arts and Sciences: Twenty-four hours in courses numbered above 50.

College of Education: Twenty-seven hours in courses numbered above 50.

Clinical Psychology (either college): Twenty-four hours in courses numbered above 50.

Minor Study.—College of Arts and Sciences: Twelve hours in courses numbered above 50.

College of Education: Fifteen hours in courses numbered above 50.

Primarily for Freshmen

- *1 abL. **General Psychology.** (3-3) Yr. Credit suspended for 1 aL until 1 bL is completed. Course 1 aL is prerequisite to 1 bL. Lecture: TTh, 10. Laboratory: Section A, M, 1-3. Section B, W, 2-4. Section C, F, 1-3. Mr. Haight, Mr. Peterson.
- *31. **Mental Hygiene.** (3) I. Factors in mental health, and the influences tending toward the normal. MWF, 8. Mr. DuBois.
- *32. **Psychology of Personality.** (3) II. The development and nature of personality and character. MWF, 11. Mr. DuBois.

Primarily for Sophomores

- *51 L. **General Psychology.** (3) I, II. An introductory course. Not open to those who have credit for Psychology 1 abL. I: Lecture TTh, 9. Laboratory: Section A, M, 9. Section B, W, 9. Section C, F, 9. Section D, S, 9. II: Lecture: TTh, 10. Laboratory: Section A, W, 10. Section B, S, 10. Mr. Haight, Mr. Peterson.
- *52. **Fields of Psychology.** (3) II. Systematic schools of psychology, and other topics. Prerequisite: Psychology 1 abL or 51 L. TThS, 9. Mr. Peterson.
- *54. **Educational Psychology.** (3) II. Introductory course. Lim-

ited to sophomores. Prerequisite: Psychology 1 abL or 51 L. TThS, 9. Mr. Haught.

- *56. **Applied Psychology.** (3) I. Applications of psychology to business and the professions. Prerequisite: Psychology 1 abL or 51 L. TThS, 11. Mr. DuBois.

For Juniors, Seniors, and Graduates

101. **Social Psychology.** (3) II. The behavior of individuals as influenced by other human beings. Prerequisite: Psychology 1 abL or 51 L. MWF, 8. Mr. DuBois.
103. **Abnormal Psychology.** (3) I. Prerequisite: Psychology 1 abL or 51 L. MWF, 9. Mr. Peterson.
- 121 abL. **Experimental Psychology.** (3-3) Sensory and motor processes; learning and the higher mental processes. Prerequisite: Psychology 1 abL or 51 L. TTh, 1-4. Mr. Peterson.
181. **Educational Tests and Statistics.** (3) I. Prerequisite: Psychology 1 abL or 51 L. MWF, 10. Mr. Haught.
183. **Educational Psychology.** (3) I, II. Advanced course. Prerequisite: Psychology 1 abL or 51 L. I: MWF, 11. II: TThS, 11. Mr. Haught.
185. **Mental Measurements.** (3) II. Prerequisite: Psychology 1 abL or 51 L. MWF, 10. Mr. Haught.
187. **Child Psychology.** (3) I. The principles of human behavior in infancy, childhood, and adolescence. Prerequisite: Psychology 1 abL or 51 L. TThS, 9. Mr. DuBois.
188. **Classroom Tests.** (2) II. Construction, evaluation, and uses of objective tests. Arranged. Mr. Haught or Mr. DuBois.
- 190 L. **Clinical Psychology.** (3) II. Clinical practice in the administration of psychological tests; round table discussions of problem cases. Prerequisites: Psychology 1 abL or 51 L, and 185. Seniors or graduates may take 185 at the same time as 190 L. Arranged. Mr. DuBois.
193. **Animal Psychology.** (3) I. A comparative study of heredity, maturation, learning, and the higher mental processes as revealed in various animals. Prerequisite: Psychology 1 abL or 51 L. TTh, 1-2:20. Mr. Peterson.
- 193 L. **Animal Psychology Laboratory.** (2) I. Arranged. Mr. Peterson.
196. **Physiological Psychology.** (3) II. Correlation of behavior and structure, with emphasis on the nervous system. Prerequisites: Psychology 1 abL or 51 L, and 193. TTh, 1-2:20. Mr. Peterson.
- 196 L. **Physiological Psychology Laboratory.** (2) II. Arranged. Mr. Peterson.
198. **History of Psychology.** (3) II. Prerequisite: Psychology 1 abL or 51 L. MWF, 9. Mr. Peterson.

For Graduates Only

251. **Problems.** (2) I, II. Arranged. Staff.
300. **Thesis.** I, II. Arranged. Staff.

DEPARTMENT OF SOCIOLOGY

Associate Professors Walter (Head), M. Miller; Instructor Hutchinson.

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

Major Study.—Thirty hours including eighteen hours in courses numbered above 100.

Minor Study.—Eighteen hours including nine hours in courses numbered above 100.

Primarily for Freshmen and Sophomores

- *2. **Social Problems.** (3) I. Poverty, unemployment, crime and delinquency, social diseases. Section A, TThS, 8. Mr. Walter. Section B, MWF, 11. Mr. Hutchinson.
- *4. [1] **Principles of Sociology.** (3) II. The theory and concepts of sociology. MWF, 8. Mr. Walter.
- 51. **The Family.** (3) I. The family as a type institution. History of family organization and mores. TThS, 10. Mr. Hutchinson.
- 65. **Social Anthropology.** (2) I. Primitive society. A study of types and areas. T, 7-9. Mrs. Miller.
- 66. **Culture Growth.** (3) II. Culture diffusion, independent origin, the criteria of culture growth. Prerequisite: Sociology 65 or permission of instructor. MWF, 11. Mrs. Miller.
- 71. **Social Control.** (3) I. Law, education, advertising, and propaganda as social processes. Prerequisites: Sociology 2 and 4, or 65 and 66, or equivalent. MWF, 10. Mrs. Miller.
- 72. **Social Pathology.** (3) II. Diagnosis, remedial, and prevention Programs in connection with functional failures of society. Prerequisites: Sociology 51 or 71. MWF, 1. Mr. Walter.

For Juniors and Seniors

- 105. **Rural Sociology.** (3) I. Application of sociological principles to problems of rural life, with special reference to New Mexico. TThS, 11. Mr. Hutchinson.
- 106. **Urban Sociology.** (3) II. The problems of city life. Prerequisite: Sociology 105, or consent of instructor. TThS, 11. Mr. Hutchinson.
- 109. **Criminology.** (3) I. Prerequisite: Sociology 71 or equivalent. MWF, 1. Mr. Hutchinson.
- 110. **Juvenile Delinquency.** (2) II. T, 7-9. Mr. Hutchinson.
- 115. **Community Organization.** (2) I. Problems and methods in directing community activities. Th, 7-9. Mr. Walter.
- 152. **Advanced Rural Sociology** (3) II. Prerequisite: Sociology 105. MWF, 3. Mr. Walter.
- 163. **Early Social Thought.** (3) I. Development of social theory to the beginning of American sociology. Prerequisites: Sociology 2 and 4, or 65 and 66. MWF, 2. Mrs. Miller.
- 164. [Recent Social Trends.] **Contemporary Social Thought.** (3) II. Prerequisite: Sociology 163 or consent of the instructor. MWF, 2. Mrs. Miller.
- 181 ab. **Senior Seminar.** (3-3) Required of majors and open to minors. Prerequisites: Sociology 2 and 4, or 65 and 66. Arranged. Mrs. Miller.
- 195. **Population Problems.** (3) I. The analysis of population growth and movements of peoples. Prerequisites: Sociology 2 and 4, or 65 and 66. MWF, 9. Mr. Walter.
- 196. **Race and Migration Problems.** (3) II. Prerequisite: Sociology 195. MWF, 9. Mr. Walter.

For Graduates Only

- 201 ab. **Research Methods.** (3-3) Arranged. Mr. Walter.
- 251 ab. **Problems.** (3-3) Arranged. Mrs. Miller.
- 300. **Thesis.** I, II. Staff.

DEGREES CONFERRED
June Fifth, Nineteen Hundred Thirty-Nine
COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

	Major	Minor
Emily Aquino R. William Ashton	Art Economics and Business Administration, Govern- ment and Citizenship	Psychology
Menlo Autry	Economics and Business Administration, Govern- ment and Citizenship	
Cleo Eugene Baca Harmon Edward Baggett	Government and Citizenship Economics and Business Administration	Spanish Government and Citizenship
William T. Beeken	Economics and Business Administration	Spanish
Ada Louise Bemis	Economics and Business Administration, English	
Mildred Bennet Louis Ben Bernabe	Spanish Economics and Business Administration	English Government and Citizenship
Virginia Ann Blain Carol Lansing Bloom Margaret Boles Samuel W. Bowman, Jr. Marjorie Mason Boyd William Robert Buck	English Anthropology Biology Biology English Economics and Business Administration, Govern- ment and Citizenship	Spanish Hispanic Studies English English Music Sociology
Margaret Jayne Burns Cynthia M. Chiaramente Barbara Palmer Clark Anita Carolyn Clayton George Contreras Charles E. Currier	English History Anthropology Music Government and Citizenship Economics and Business Administration	French, Psychology French Spanish English Psychology Mathematics
Ena Clare Dellinger Charlotte L. Devendorf Tom I. Downing Tod Rogers Duffin Bertha Letetia Dunkle Dorothy Dunkley Elsie DuVal	Home Economics Spanish Biology Chemistry English Latin Economics and Business Administration, Govern- ment and Citizenship	Chemistry History English English Home Economics French
Fred B. Evans, Jr. Joseph F. Faltis William Federici	History Spanish Government and Citizenship	Government and Citizenship French Economics and Business Administration Economics and Business Administration
Oreste John Franchini	Government and Citizenship	Economics and Business Administration
†Abraham Franck Donald William Gere	Mathematics Economics and Business Administration	Spanish English
Dorothy Afton Gibson	Government and Citizenship, History	
Thomas Francis Glavey	Economics and Business Administration	Mathematics
Dorothy Katherine Hall	Economics and Business Administration	English
*Carrie Nelson Hammond Ernest A. Hannah, Jr.	Spanish Economics and Business Administration, Psychology	History
Donald Williams Hastie Martha Ann Hathaway Alden Cary Hayes S. Sidney Hertzmark	Anthropology Home Economics Anthropology Economics and Business Administration, Govern- ment and Citizenship	History French Hispanic Studies

*With Distinction
†With Honors

	Major	Minor
Margaret E. Hinson	English	Sociology
Calvin Patterson Horn	English, Government and Citizenship	
Geraldine M. Hubbell	Spanish	Economics and Business Administration, English Government and Citizenship
Henry R. Johnston	Economics and Business Administration	French, Government and Citizenship
Maxine Kastler	Spanish	French, History Spanish
†*Helen Evelyn Kinnaird	Government and Citizenship	
A. Sidney Kirkpatrick, Jr.	Economics and Business Administration	French
†*Philip Emmett Larson	Economics and Business Administration	German
†Robert Lester Linder	Economics and Business Administration, Mathe- matics	Government and Citizenship, Spanish Music Sociology
Richard Losh	Mathematics	History Mathematics
Isabel Anne Lucas	English	Government and Citizenship, Spanish English
James Woodrow Maddox	Economics and Business Administration	Spanish
Joe L. Martinez	Spanish	Spanish Spanish, History
Burgess S. Matthews	Economics and Business Administration	Anthropology Home Economics
José Adelaido Medina	Sociology	Art Government and Citizenship
Albert Keeton Nohl	Economics and Business Administration	Spanish Spanish Spanish, History
Edwin H. Oesterheld	Economics and Business Administration	Anthropology Biology English Home Economics
Jane Virginia Olson	Anthropology	Art Government and Citizenship
Vicente Pacheco	History	Spanish Psychology
Louise H. Pooler	English	Sociology
Sylvester Prentice	Biology	Economics and Business Administration Government and Citizenship
Helen Barbara Rankin	English	
Mary Isabel Scanlan	Anthropology	
Paul M. Scott	Economics and Business Administration	
Edith Shallenberger	French	
Margaret E. Smith	Economics and Business Administration	
Mercedes R. Stanton	Anthropology	
Nathan L. Stedman, Jr.	Government and Citizenship	
John W. Stewart	Economics and Business Administration	
Beulah B. Sutherland	Psychology	
Robert F. Thompson	Government and Citizenship	
Parrie Ann Van Hyning	Economics and Business Administration	
Mary Louise Waha	Art	
Frank Hamilton Young	History	

Bachelor of Science

John W. Berquist	Biology	Government and Citizenship
Dixie Ray Boyd	Biology	Chemistry
Tye S. Bright	Mathematics	Chemistry
Edward Stairs Carr	Biology	Chemistry
Henry L. Daily	Psychology	Music
Charles A. Domenicali	Physics	Mathematics
Frank A. English	Chemistry	Biology
Merle Jay Fisher	Biology	English
Barney Gardner	Geology	Anthropology
Max A. Kohler	Physics	Mathematics
Raymond Henry Kraft	Chemistry	Mathematics, Physics
†Leslie V. Murphey	Geology	Anthropology
Howard William Neill	Physics	Mathematics
Roy Kitchell Neill	Biology, Chemistry	
John Reginald Peters	Geology	Biology
Frank Arthur Rowe	Chemistry	Biology
Margaret Camille Runyan	Biology	Chemistry
John Fisk Sheldon	Biology	Chemistry
James Samuel Shortle	Biology	Chemistry
Robert Maurice Smith	Geology	Biology

*With Distinction

†With Honors

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COLLEGE OF ENGINEERING

Bachelor of Science in Civil Engineering

Charles Orrin Burton
Robert Carl Caldwell
Durwood B. Dixon
Marshall Ney Oliver

Robert P. Scott
Robert Wallace Strong
Charles Wesley Trask
Dudley B. Upstill

Bachelor of Science in Electrical Engineering

*Robert Byrl Bonney
John Jacobson

Charles Robert McKinley
Thomas Crawford Quebedeaux

Bachelor of Science in Mechanical Engineering

Robert Orville Burke
Edward Joseph Kobiela
Lawrence C. Marr

Burton Rich Miller
*Stephen Edward Reynolds
Kenneth E. Stine

Bachelor of Science in Engineering

Option in Economics

Daniel Germond Filkins

COLLEGE OF EDUCATION

Bachelor of Arts in Education

	Major	Minor	Curric.
Billie Floyd Addison	Economics and Business Administration	English	H. S.
*Henrietta M. Bebber	Biology, History	English	H. S.
Harley James Bishop	History	Psychology	H. S.
Jane Baldwin Brannin	Music Education	Biology	H. S.
Barbara Ann Brown	Music Education	History	H. S.
Lillie Callahan	History	English	Elem.
Mary A. Chambers	English	History	H. S.
Mariette L. Coulloudon	Spanish	French	H. S.
Paul Cox	History	Mathematics	H. S.
Ruth Emma Craft	English	History	H. S.
Bernice Damián	Sociology	Spanish	H. S.
Isadore H. Danoff	Economics and Business Administration	English	H. S.
Elbert Edgar Earnest	Spanish	Psychology	H. S.
Jean Harrison Ellis	Music Education	English	H. S.
Wanda Kathryn Ellis	Biology	History	Elem.
Rose Margaret Eppich	History	Home Economics	H. S.
Helen B. Fenton	Health	Sociology	H. S.
Elizabeth Ann Fischer	Music Education	English	H. S.
*Harriet Ann Fisher	History, Government and Citizenship	English	H. S.
Leonard Stevens Fritz	Economics and Business Administration	Geology	H. S.
Lucille L. Garduño	Spanish	French	H. S.
Mela Gonzales	Spanish	Home Economics	H. S.
*Gladys L. Goodding	Sociology	English	H. S.
John Hazard	Economics and Business Administration	History	H. S.
Sara Alma Jones	History	Biology, Physical Education	H. S.
Bonnie May K. Jourdan	English	Sociology	Elem.
Jennie Lina Kaufman	English	History	H. S.
Fred Landavazo	Spanish	English	H. S.
Helen LaRue	History	English	Elem.
Lucile Gersine Lattanner	English	Sociology	Elem.
Bertha Kaplan Leftow	Music Education	Government and Citizenship	H. S.
Mary Alyce Lujan	History	Biology	Elem.
Elizabeth E. Matthew	Biology	English	Elem.
Alfonso A. Mirabal	Spanish	Government and Citizenship	H. S.
Hettye Nann Osborne	History	English	H. S.
Joe Louis Otero	Spanish	History	H. S.
Vondolee Sheppard Page	Government and Citizenship	Spanish	H. S.

*With Distinction

	Major	Minor	Curric.
Alice Lucille Parkes	Music Education	Home Economics	H. S.
Harry Lloyd Patten	Music Education	English	H. S.
Maxine Pleydell-Pearce	English	Government and Citizenship	H. S.
Margery Power	History	English	H. S.
Mary Elizabeth Power	Music Education, English	Voice	H. S.
Anita Provencio	Spanish	History	H. S.
Otilia Provencio	Spanish	Home Economics	H. S.
Beverly E. Reeder	History	Government and Citizen- ship, English	H. S.
Howard Clinton Reid	Government and Citizenship	History	H. S.
Fred Maybre Renfro	English	Physical Education— Athletic Coaching	H. S.
Mable Louise Riebe	Sociology	English	Elem.
Ann Clark Robertson	Sociology	English	Elem.
Bettie Huston Sellard	History	English	H. S.
Florence C. Senter	Spanish	Administration and Supervision	
Dorothy May Shinn	Social Science	Mathematics	H. S.
Mildred G. Stewart	English	German	H. S.
Mrs. Martha S. Weaver	History	English	H. S.
William Kenneth Weeks	History	English	H. S.
Bernice Westfall	History	Home Economics	H. S.
Edna Withers	English	Biology	H. S.
Bess Yearwood	English	History	Elem.

Bachelor of Science in Education

Gertrude S. Bayless	Administration and Supervision	Biology	Ad.&S.
Jane Covert Byers	Biology	History	H. S.
Mattie E. Chambers	Home Economics		H. E.
Elizabeth C. Chappell	Home Economics		H. E.
Edith Mae Clark	Home Economics		H. E.
Margaret Cook	Education	English	
William B. Dancy	Chemistry	Mathematics	H. S.
Bertie Douglass	Administration and Supervision	History	Ad.&S.
Robert Woodrow Easley	Chemistry	History, Mathematics	H. S.
Ethel Frances Fifield	Home Economics		H. E.
Ruthe Fisher	Biology	Spanish	Elem.
Opal C. Forse	Home Economics		H. E.
Mary Belle Montgomery	Home Economics		H. E.
Mrs. Myrtle Moyers	General Education	Psychology	
Manuel Philip Olguin	Science	Mathematics	H. S.
Theodore Francis Reidy	Chemistry	Mathematics	H. S.
*Margaret Schmidt	Education	Anthropology	
Llewellyn Shelton	Home Economics		H. E.
Charles P. Snyder	Administration and Supervision, Economics and Business Admin- istration		
Mary Josephine Starrett	Biology	English	Ad.&S.
José D. Vásquez, Jr.	Biology	Spanish	H. S.
Regina Yarbrough	Home Economics		H. E.

Bachelor of Science in Physical Education

Audrey B. Cornell	Physical Education		P. E.
William Edward Dwyer	Physical Education	Biology	P. E.
Juanita Louise Fincke	Physical Education	Biology	P. E.
Tony J. Valdez	Physical Education	Biology, Spanish	P. E.

COLLEGE OF FINE ARTS

Bachelor of Fine Arts in Art (Painting and Design)

Mary Lucile Huning

Bachelor of Fine Arts in Dramatic Art

Louise King

*With Distinction

Bachelor of Fine Arts in Music

3 *Sammie Bratton

Margaret McCall Paxton

GRADUATE SCHOOL

Master of Arts

Major

John B. Anderson	History
F. O. Bishop	Educational Administration
Margaret Shortle Botts	History
Rose Jeanne Carlisle	English
Ina Wilson Cason	History
W. Barnie Caton	Education
Beatrice Arline Cottrell	History
Leonie Seabrook Eccles	Secondary Educational Administration
Benwood Field	Educational Administration
Bernice Galloway	Elementary Education
Zebedeo Garcia	Education
Mabel Tracy Haggard	Education
Carl Robert Jensen	School Administration
La Moine Langston	History
Glen F. McCracken	Educational Administration
Claude C. McDougal	Education
Richard Ralph Moeck	Mathematics
Charles Hugh Robinson	Educational Administration
Walter Alvin Schumann	School Administration
Robert R. Stallings	Elementary Education
Roscoe Karl Staubus	Educational Administration
Waymon A. Stephenson	Education
Rufus Martin Stinnett	Educational Administration

Master of Science

Mary E. Dennis	Botany
James Riley Ellis	Mathematics
Robert Theodore Fincke	Zoology
Martin William Fleck	Botany
Mollie Elizabeth Gordon	Botany
Theodore Norris	Botany

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HONORARY DEGREES

Doctor of Laws

Harold L. Ickes

Harry Llewellyn Kent

GENERAL COLLEGE DIPLOMA (Two-Year Course)

Academic

Paul Anthony Mackel

Max M. Mattingly

Vocational

General Business -----	Frank G. Imboden
General Business -----	William John Olin
Music -----	Antoinette Joan Laraway
Secretarial -----	Frances Mitchell Schultz
Surveying -----	Robert Clemenson Clarke

* With Distinction.

ENROLLMENT STATISTICS

Classification of Students

Classification of students in the various colleges is based upon the following standards of credit hours:

Class	College of Arts & Sciences	College of Education	College of Engineering	College of Fine Arts	General College
Freshman	0-28	0-28	0- 32	0- 32	0-28
Sophomore	29-60	29-60	33- 65	33- 65	29-64
Junior	61-94	61-94	66-102	66-102	
Senior	95-	95-	103-	103-	

Special students are persons of 21 years of age who have not fulfilled the admission requirements.

Unclassified students are students who are on leave of absence from other institutions or whose status in the University has not been determined.

The Extension Division includes students enrolled for correspondence work and for non-residence classes.

TABLE A. GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Other States	1939 S. S.			1939-1940			Other States	1939 S. S.			1939-1940					
	Men	Women	Total	Men	Women	Total		Men	Women	Total	Men	Women	Total			
Arizona	5	3	8	3	1	4	Nebraska	4	2	6	4	3	7			
Arkansas	0	5	5	1	2	3	New Jersey	2	0	2	9	1	10			
California	4	3	7	32	11	43	New York	6	0	6	23	7	30			
Colorado	6	12	18	10	10	20	North Dakota	1	0	1	0	1	1			
Connecticut	0	0	0	5	2	7	Ohio	1	5	6	12	6	18			
Dist. of Colum.	0	0	0	2	0	2	Oklahoma	10	17	27	7	1	8			
Florida	0	1	1	2	2	4	Oregon	1	0	1	0	1	1			
Idaho	0	1	1	0	0	0	Pennsylvania	2	0	2	17	2	19			
Illinois	2	5	7	24	6	30	Rhode Island	0	0	0	2	0	2			
Indiana	1	1	2	6	3	9	South Dakota	1	1	2	1	3	4			
Iowa	0	3	3	5	4	9	Tennessee	2	1	3	3	2	5			
Kansas	1	2	3	3	1	4	Texas	6	13	19	15	10	25			
Kentucky	0	1	1	2	2	4	Utah	1	1	2	0	0	0			
Massachusetts	1	1	2	3	1	4	Vermont	0	0	0	0	1	1			
Michigan	1	1	2	6	5	11	Virginia	1	0	1	1	1	2			
Minnesota	0	1	1	3	2	5	Washington	1	0	1	2	0	2			
Mississippi	0	0	0	1	0	1	West Virginia	0	2	2	1	2	3			
Missouri	1	4	5	4	4	8	Wisconsin	2	2	4	8	2	10			
Montana	0	1	1	0	1	1	Wyoming	0	0	0	2	0	2			
Total from Other States							63	89	152	224			100	324		
Foreign Countries																
Canada							0			0			1		1	2
Total from Foreign Countries							0			0			1		1	2

TABLE B. GEOGRAPHICAL DISTRIBUTION OF STUDENTS

New Mexico Counties	1939 S. S.			1939-1940			New Mexico Counties	1939 S. S.			1939-1940		
	Men	Women	Total	Men	Women	Total		Men	Women	Total	Men	Women	Total
Bernalillo	115	194	309	599	401	1000	Mora	1	0	1	3	3	6
Catron	3	2	5	1	1	2	Otero	6	8	14	7	4	11
Chaves	3	3	11	11	13	24	Quay	9	5	14	10	3	13
Colfax	9	11	20	25	16	41	Rio Arriba	4	6	10	7	7	14
Curry	17	10	27	12	0	12	Roosevelt	3	8	11	10	3	13
DeBaca	1	5	6	2	0	2	Sandoval	6	14	20	3	6	9
Dona Ana	3	11	14	5	4	9	San Juan	3	10	13	8	3	11
Eddy	7	15	22	13	15	28	San Miguel	3	4	7	3	8	16
Grant	5	7	12	3	3	6	Santa Fe	23	23	51	32	30	62
Guadalupe	1	5	6	6	2	8	Sierra	7	3	10	5	2	7
Harding	0	3	3	6	2	8	Socorro	22	29	51	8	7	15
Hidalgo	3	4	7	4	3	7	Taos	5	6	11	10	3	13
Lea	6	7	13	3	6	14	Torrance	3	12	21	12	3	20
Lincoln	11	9	20	1	2	3	Union	3	6	9	4	1	5
Luna	0	4	4	1	2	3	Valencia	23	34	57	26	10	36
McKinley	6	12	18	12	17	29							
Total from New Mexico Counties -----								317	480	797	862	585	1447
TOTALS—Tables A and B -----								380	569	949	1037	686	1723

ENROLLMENT SUMMARY

	Men	Women	Total
Semester I, 1939-40	954	611	1,565
Semester II, 1939-40	898	574	1,472
Total	1,852	1,185	3,037
Less Persons Enrolled Both Semesters	765	499	1,264
Total Different Persons	1,087	686	1,773
1939 Summer Session	380	569	949
1939 Anthropology General Field Sessions	16	12	28
1939 Art Schools	2	19	21
Extension Division (March 1, 1939, to Feb. 29, 1940)			
Correspondence Courses	70	132	202
Non-resident Classes	47	135	182
Total	1,602	1,553	3,155
Less Duplicates	181	190	371
Total Different Persons Registered	1,421	1,363	2,784

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