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THE UNIVERSITY OF NEW MEXICO BULLETIN

Thirty-Eighth
Annual Catalogue Issue
1928--1929



ANNOUNCEMENTS 1929-1930

PUBLISHED BY THE UNIVERSITY OF NEW MEXICO

ALBUQUERQUE, NEW MEXICO

FEBRUARY, 1929

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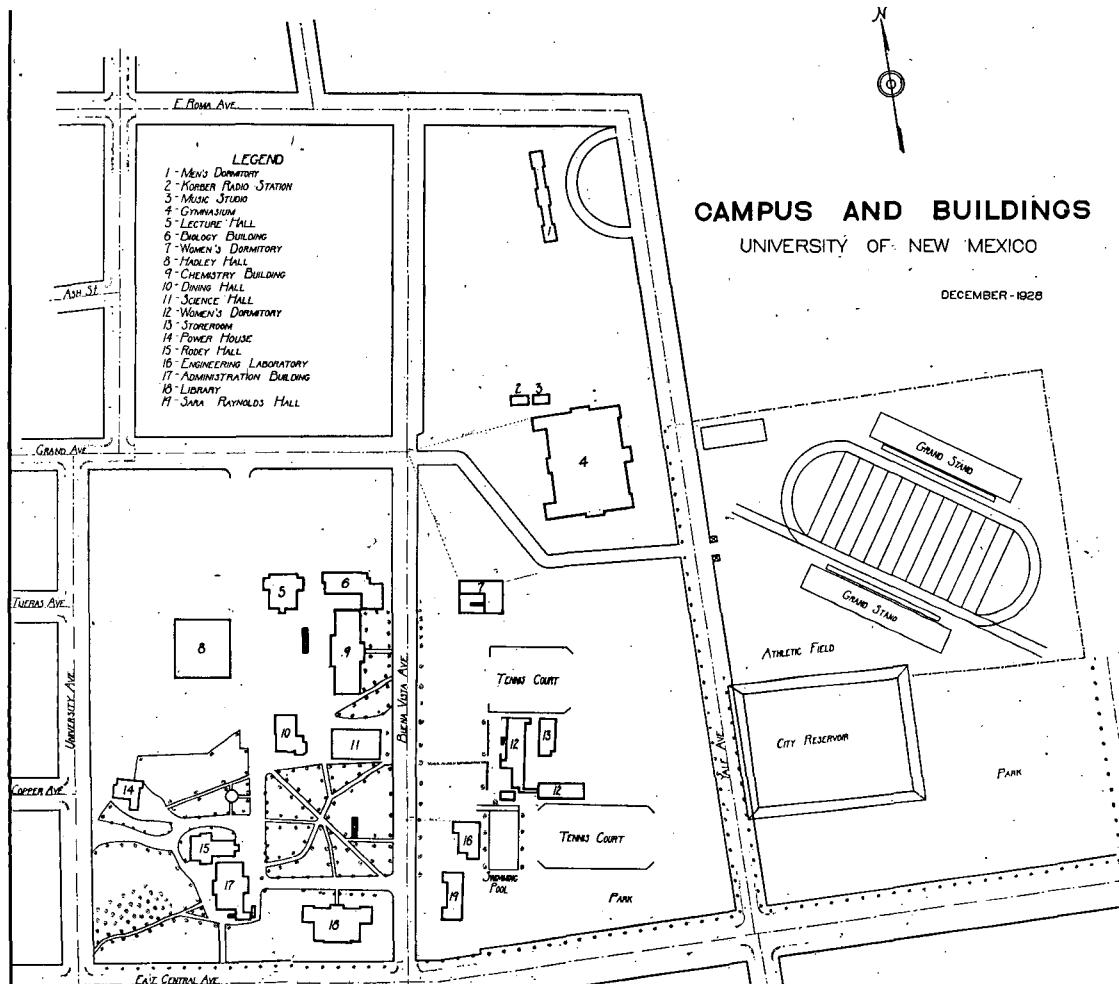
PUBLISHED BY THE UNIVERSITY OF NEW MEXICO

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Volume 42. No. 1. Whole No. 157 February, 1929

Published Monthly by the University of New Mexico
Albuquerque, New Mexico

Entered as Second Class Matter, May 1, 1906, at post office at
Albuquerque, N. M., under Act of Congress of July 16, 1894.



UNIVERSITY CALENDAR

Summer Session, 1929

June	3-4, Monday and Tuesday—Registration days.
June	5, Wednesday—Instruction begins in all departments.
July	4, Thursday—Independence Day; holiday.
July	27, Saturday—Summer Session ends.

First Semester, 1929 - 1930

September	9, Monday—Entrance examinations.
September	10, Tuesday—9-12 and 1-4. Registration day for residents of Albuquerque and vicinity.
September	10, Tuesday—Residential and Dining Halls open, 5 P. M.
September	11, Wednesday—9-12 and 1-4. Registration day for all other students.
September	12, Thursday—Instruction begins at 8 A. M.
October	12, Saturday—Examinations for the removal of conditions.
November	11, Monday—Armistice Day; holiday.
November	28, Thursday—Thanksgiving Day; holiday.
December	21, Saturday—Holiday recess begins at 12 M.
January	6, Monday—Instruction resumed at 8 A. M.
January	20-24, Monday to Friday—Semester final examinations.
January	24, Friday—Semester ends at 5 P. M.

Second Semester, 1929 - 1930

January	27, Monday—Entrance examinations.
January	28, Tuesday—9-12 and 1-4. Registration day for students resident in Albuquerque and vicinity.
January	29, Wednesday—9-12 and 1-4. Registration day for all other students.
January	30, Thursday—Instruction begins at 8 A. M.
February	22, Saturday—Washington's Birthday; holiday.
February	28, Friday—University Memorial Day.
March	1, Saturday—Examinations for the removal of conditions.
April	18-19, Friday and Saturday—Spring recess.
May	24-29, Saturday to Thursday—Semester final examinations.
May	30, Friday—Memorial day; holiday.
June	1, Sunday—Baccalaureate Services.
June	2, Monday—Commencement exercises.

THE BOARD OF REGENTS

HIS EXCELLENCY, THE GOVERNOR OF NEW MEXICO,
Ex-Officio ----- Santa Fe

THE STATE SUPERINTENDENT OF PUBLIC INSTRUCTION,
Ex-Officio ----- Santa Fe

MRS. REED HOLLOMAN ----- Santa Fe
President.

A. C. TORRES ----- Socorro
Vice-President.

JOHN F. SIMMS ----- Albuquerque
Secretary-Treasurer.

FRANK LIGHT ----- Silver City

ORIE L. PHILLIPS ----- Albuquerque

ORGANIZATION AND ADMINISTRATION

The University is organized as follows:

THE COLLEGE OF ARTS AND SCIENCES.
THE COLLEGE OF ENGINEERING.
THE COLLEGE OF EDUCATION.
THE GRADUATE SCHOOL.
THE SUMMER SESSION.
THE EXTENSION DIVISION.

OFFICERS OF ADMINISTRATION 1928 — 1929

President: JAMES FULTON ZIMMERMAN, Ph. D.
Dean of the College of Arts and Sciences: LYNN BOAL MITCHELL, Ph. D.
Dean of Students: JOHN DUSTIN CLARK, Ph. D.
*Dean of the College of Engineering: PHILIP S. DONNELL, M. E. E.
Dean of the College of Education and Director of the Summer Session: SIMON P. NANNINGA, Ph. D.
Acting Dean of the College of Engineering: ROBERT S. ROCKWOOD, M. S.
Director of the Graduate School: BENJAMIN F. HAUGHT, Ph. D.
Librarian: WILMA L. SHELTON, B. A., B. L. S.
Adviser of Women: MRS. ELIZABETH SIMPSON, B. S.
Registrar and Bursar: F. B. CARRITHERS, Graduate of U. S. M. A., Major, U. S. Army, Retired.
Director of Physical Education and Athletics: ROY WILLIAM JOHNSON, B. A.
Superintendent of Campus: HARRY V. FRANK.

ASSISTANT ADMINISTRATIVE OFFICERS

LEONA RAILLARD, B. A., (University of New Mexico) Secretary to the President.
ALICE OLSON, Assistant Registrar.
PATRICK MILLER, B. A., (University of New Mexico), Assistant Bursar.
HELEN STUBBS, Bill Clerk.
RUTH RUSSELL, Assistant Librarian.

*Resigned.

University Health Service

P. GILLETTE CORNISH, B. A., (Yale); M. D. (Columbia), University Physician.

Physical Education and Athletics

ROY WILLIAM JOHNSON, B. A., Director and Coach.

MALCOLM LONG, B. A., (University of New Mexico). Assistant.

**TOM L. POPEJOY, B. A., (University of New Mexico), Secretary
and Business Manager of Athletic Council.**

HARRY W. BLISS, Assistant Coach in Football.

Dining and Residential Halls

MRS. ELIZABETH SIMPSON, B. S., Supervisor of Dining Hall.

MRS. GENE McL. KINNEY, Matron of Women's Residential Hall.

FRANK REEVE, M. A., Proctor of Men's Residential Hall.

FACULTY AND OTHER OFFICERS OF INSTRUCTION

ZIMMERMAN, JAMES FULTON, B. A., M. A., (Vanderbilt University); Ph. D., (Columbia University).

President of the University and Professor of Political Science.

HODGIN, CHARLES ELKANAH, B. Pd., LL. D., (University of New Mexico).

Vice-President and Professor of Education, Emeritus.

AITKEN, IONE, B. M., (University of Kansas).

Instructor in Violin and Theory of Music.

ANCONA, MRS. NINA.

Part-Time Instructor in Pipe Organ.

BAKER, JOHN BABCOCK, B. S., M. S., (University of Illinois).

Associate Professor of Mechanical Engineering.

BARNHART, C. A.; B. A., M. A., (University of Illinois).

Professor of Mathematics.

BARRETT, LORETTA, B. A., (State University of Iowa).

Instructor in Physical Education for Women.

BLISS, HARRY W.

Assistant Football Coach.

CASTETTER, E. F., B. A., (Lebanon College); M. S., (Pennsylvania State College); Ph. D., (Iowa State College).

Associate Professor of Biology.

CLARK, JOHN DUSTIN, B. S., M. S., (New Hampshire College of Agriculture and Mechanic Arts); Ph. D., (Stanford University).

Dean of Students and Professor of Chemistry.

*COAN, CHARLES FLORUS, B. A., (University of Washington); M. L., Ph. D., (University of California).

Professor of History and Political Science.

DANIELSON, IRVIN, B. S., (University of New Mexico); M. S., (University of Washington).

Instructor in Chemistry.

DE JONGH, WILLIAM F. J., B. A., M. A., (University of Michigan); M. A., (Harvard University).

Instructor in Modern Languages and Literature.

DENTON, F. M., (Hymers College, Hull, England); A. C. G. I., (Imperial College of Science and Technology, London, England).

Associate Professor of Electrical Engineering and Physics.

DIEFENDORF, ADELBERT, B. S., in C. E., C. E., (Ohio Northern University).

Associate Professor of Civil Engineering.

*Deceased.

DIEFENDORF, J. W., B. S. in Education, (Central Missouri State Teachers College); M. A., Ph. D. (University of Missouri).
Associate Professor of Secondary Education and High School Visitor.

**DODDS, MILDRED, B. S., M. S., (Iowa State College).
Assistant Professor of Home Economics.

**DONNELL, PHILIP STONE, B. S., (Clark University); M. E. E. (Harvard University).
Dean of the College of Engineering and Professor of Electrical Engineering.

ELLIS, ROBERT WALPOLE, B. S., (University of South Dakota); M. A., (University of Wisconsin).
Professor of Geology.

ENGLEKIRK, JOHN E., JR., B. A., (St. Stephen's College); M. A., (Northwestern University).
Instructor in Modern Languages and Literature.

EVERS, HELENE M., B. A., (Washington University); M. A., (University of Missouri); Ph. D., (Bryn Mawr College).
Associate Professor of Modern Languages and Literature.

FRICKE, DOROTHEA, (Graduate of Chicago Art Institute).
Instructor in Art.

HAUGHT, BENJAMIN FRANKLIN, B. A., (West Virginia University); M. A., (Columbia University); Ph. D., (George Peabody College).
Professor of Psychology and Education and Director of the Graduate School.

HEWETT, EDGAR L., D. Sc., (Geneva). LL. D.
Professor of Anthropology and Archaeology.

JOHNSON, ROY WILLIAM, B. A., (University of Michigan); Certificat, (Universit  de Poitiers).
Director of Athletics.

*KIECH, VEON C., B. S., (University of New Mexico); M. S., (Stanford University).
Instructor in Chemistry.

LIGHTON, EDWARD W., B. S., (University of New Mexico);
Part-time Instructor in History.

LONG, MALCOLM, B. A., (University of New Mexico).
Assistant Director of Physical Education and Assistant Coach.

LUCE, ALEXANDER W., B. S., M. E., (University of Minnesota).
Assistant Professor of Mechanical Engineering.

**Resigned.

*On leave of absence.

MITCHELL, LYNN BOAL, B. A., (Ohio State University); M. A.,
Ph. D., (Cornell University).

Dean of the College of Arts and Sciences and Professor of
Classics.

MOSER, SUSAN, B. S., M. S., (Iowa State College).

Instructor in Home Economics.

MURPHY, HELEN ELIZABETH, B. S., M. A., Ph. D., (Cornell
University).

Associate Professor of Biology.

NANNINGA, SIMON PETER, B. A., M. A., (Stanford University);
Ph. D., (University of California).

Dean of the College of Education, Professor of School Ad-
ministration and Director of the Summer Session.

*NEUFELD, DIETRICH D., Ph. D., (Jena).

Assistant Professor of Modern Languages and Literature.

NEWSOM, CARROLL V., A. B., (College of Emporia); M. A., (Uni-
versity of Michigan).

Instructor in Mathematics.

NORTHROP, STUART A., B. S., Ph. D., (Yale University).

Assistant Professor of Geology.

OSUNA, ANITA M., B. A., (University of New Mexico); M. A.,
(Stanford University).

Assistant Professor of Modern Languages and Literature.

PEARCE, THOMAS MATTHEW, B. A., (University of Montana);
M. A., (University of Pittsburgh).

Assistant Professor of English.

PIERCE, MRS. CORA FERNE, (Diploma, Defiance College; Ameri-
can College of Music, Toledo).

Instructor in Piano.

POPEJOY, TOM L., B. A., (University of New Mexico).

Instructor in Economics and Business Administration.

REEVE, FRANK, B. A., M. A., (University of New Mexico).

Instructor in History and Political Science.

REID, J. T., B. A., (Howard Payne College); M. A., (Baylor Uni-
versity).

Director of the Extension Division and Assistant Professor
of Education.

ROCKWOOD, ROBERT SPENCER, B. S., (Denison University);
M. S., (University of Michigan).

Acting Dean of the College of Engineering and Professor
of Physics.

SCHOLES, FRANCE V., A. B., M. A., (Harvard University).

Associate Professor of History and Political Science.

*On leave of absence.

SCOTT, JAMES R., A. B., (University of California); M. D., (Cooper Medical College, Stanford University); Ph. D., (George Washington University).

Associate Professor of Health Education.

SHELTON, WILMA LOY, B. A., B. L. S., (University of Illinois).
Librarian and Associate Professor of Library Science.

SIMPSON, MRS. ELIZABETH, B. S., (University of New Mexico).
Professor Home Economics, Supervisor of the Dining Hall and Adviser of Women.

SMITH, MRS. FLORENCE.
Instructor in Voice.

ST. CLAIR, GEORGE W., B. A., M. A., (Whitman College); Ph. D., (University of California).
Professor of English.

TANQUIST, MAMIE R. E., B. A., (Hamline University); M. A., (University of Minnesota).
Instructor in Anthropology and Archaeology.

TERBORGH, GEORGE W., A. B., (Oberlin College); A. M., (University of Chicago); Ph. D., (Brookings Graduate School of Economics and Government).
Associate Professor of Economics.

THOMPSON, MRS. GRACE A., B. M., (Defiance College).
Associate Professor of Music.

TIREMAN, LOYD S., B. A., M. A., Ph. D., (State University of Iowa).
Associate Professor of Education.

WICKER, C. V., B. A., M. A., (University of Michigan).
Assistant Professor of English.

GRADUATE FELLOWS

*ASPLUND, CAROLYN, B. A., Graduate Fellow in Biology.

BROWN, CHARLES E., B. S., Graduate Fellow in Education.

CHANT, ELSIE RUTH, B. A., Graduate Fellow in English.

FISHER, REGINALD G., B. S., Graduate Fellow in Anthropology.

STERRETT, ARABELLA, B. A., Graduate Fellow in Psychology.

TAYLOR, CARL N., B. A., Graduate Fellow in English.

*WARNSHUIS, MRS. RUTH, B. A., Graduate Fellow in Latin.

*Resigned.

STAFF OF STATE HEALTH LABORATORY

LUCKETT, GEORGE S., M. D., State Director, Bureau of Public Health, Consultant.

GREENFIELD, MYRTLE, B. A., M. A., (University of Kansas).
Chief, Division of Laboratory, State Public Health Laboratory.

BULLOCK, ELEANOR L., B. A., (Colorado College).
Bacteriologist in State Public Health Laboratory.

ADVISORY COUNCIL AND STANDING COMMITTEES OF THE UNIVERSITY

1928 — 1929

The first named member of each Committee is Chairman. The President is ex-officio member of all committees.

THE ADVISORY COUNCIL OF ADMINISTRATION: President Zimmerman, Deans Mitchell, Clark, Nanninga, Rockwood.

ADMISSION: Carrithers, Mitchell, Nanninga, Rockwood.

STUDENT STANDING:

College of Arts and Sciences: Mitchell, Simpson, Wicker, Castetter.

College of Engineering: Rockwood, Baker, Diefendorf, A., Luce.

College of Education: Nanninga, Haught, Tireman, Diefendorf, J. W.

COURSES OF STUDY AND SCHEDULE: Barnhart, Carrithers, Baker, Mitchell, Nanninga, Rockwood.

GRADUATE INSTRUCTION: Haught, St. Clair, Evers, Hewett, Castetter, Northrop.

PUBLICATIONS: Haught, Carrithers, Hewett, Shelton.

LIBRARY: Shelton, Denton, Pearce, Murphy, Diefendorf, J. W.

ELIGIBILITY: Carrithers, Tireman, Ellis, Osuna, Johnson.

ATHLETIC COUNCIL: (Faculty Representatives) Tireman, Johnson, Reid, Reeve.

SUMMER SESSION: Nanninga, Mitchell, Haught, Hewett.

STUDENT AFFAIRS: Clark, Simpson, Rockwood, Diefendorf, A., Barrett, Long.

AUDIT OF STUDENT ACCOUNTS: Terborgh, Clark, Popejoy.

RELATIONS WITH HIGH SCHOOLS: Clark, Diefendorf, J. W., Reid.

EXTENSION: Reid, Mitchell, Nanninga, Rockwood.

APPOINTMENTS: (Teachers) Diefendorf, J. W., Nanninga, Carrithers, Simpson, Reid.

PUBLIC EXERCISES: St. Clair, Thompson, Clark, Dodds, Scholes.

HISTORY

New Mexico was acquired from Mexico by the treaty of Guadalupe Hidalgo, February 2, 1848, and held under military control until the first territorial legislature was assembled in 1850. During the early years of territorial existence conditions were unfavorable for educational development and little was accomplished in the scattering efforts to establish schools of any kind.

Various inadequate school laws were passed by the territorial legislatures from time to time, but nothing was done to provide for higher educational institutions until 1889, when a bill was passed by the Legislative Assembly, creating the University of New Mexico to be located at Albuquerque. The new institution was opened in rented rooms as a summer normal school, June 15, 1892, beginning regular instruction September 21, in the first building erected on the campus. The Honorable E. S. Stover, a member of the Charter Board of Regents, was made the nominal president, and served five years. During this term Principal George S. Ramsey was in direct charge of the institution for two years, followed by Professor Hiram Hadley, Vice-President in charge from 1894 to 1897. The Board of Regents in the summer of 1897 elected Dr. C. L. Herrick, of Denison University in Ohio, as active president.

In 1901, Dr. William G. Tight, also of Denison University, was elected as successor to President Herrick, and served until his resignation in 1909. In this administration the University made great academic advances, especially in research in geology and biology. Dr. Tight conceived the idea of adapting Indian architecture to the building needs of the University and laid out the grounds with the thought of permanency.

In 1909, Dr. E. D. McQueen Gray was chosen to succeed President Tight, and served until 1912. The burning of Hadley Laboratory in 1910 made necessary the erection of a new building with very limited funds, to serve as a temporary science building. In its construction a deviation from the Pueblo type of architecture was introduced.

In 1912, President Gray was succeeded by Dr. David Ross Boyd.

One of the first things to demand attention of the Regents was the securing of a larger campus for immediate and future needs, while land could be purchased at a reasonable price. The Campus was extended from twenty-five acres to a tract over three hundred acres.

Several important changes were brought by the World War in the administration and the life of the University. The chief changes in administration were due to the change in the academic calendar by which four quarters running through the year were substituted for the old calendar of two semesters with the summer vacation—to which the University returned in 1920. Engagement in agricultural and industrial services and in military and naval forces of the nation had drawn practically all men students from the University by the opening of summer in 1918. Many graduates and former students were similarly engaged. But in October the establishment of a unit of the Students' Army Training Corps brought 160 men between 18 and 21 to the campus and classrooms of the institution.

Dr. David Spence Hill was president from July, 1919, to September, 1927, on leave of absence from January 22 to September, 1927. During this period, the University experienced considerable growth. Hadley Hall was finished; Sara Reynolds Hall was built and equipped out of funds raised by popular subscription; two additions were made to the women's residential hall; the heating plant was enlarged; the Korber Buildings were erected, intended to house a wireless station but now used as studios; the long-needed Library was built; about eight hundred acres between the Campus and the Sandia mountains were purchased; the faculty was strengthened; the University was accredited by the North Central Association (1922); several scholarships, prizes, awards and a student loan fund were created through gifts.

Dr. James Fulton Zimmerman served as acting president during Dr. Hill's leave of absence, and was elected by the Regents in this period as president on and after September 1, 1927. The enrollment of students has greatly increased, necessitating important additions to the faculty. During 1927-1928, the Regents let contracts for four new buildings which have been constructed and are now in service, namely, a gymnasium, a lecture hall, a biology building, and a residential hall for men. The University is serving a larger number of people through a larger enrollment of students in residence, through evening courses, additional extension courses, and through the re-establishment of correspondence courses.

SITUATION AND ENVIROMMENT

Albuquerque, the most populous city in New Mexico, (population, 1927, 30,000), and the commercial capital of the State, is the seat of the University. The situation of the city, at an altitude of 5,000 feet, is admirable. It occupies the center of a strip of fertile land on the left bank of the Rio Grande—the Rio Grande del Norte of the Spanish discoveries. On the Mesa, or elevated plateau, about a mile east of the Santa Fe Railroad station, stand the buildings of the University, overlooking the wide valley of the Rio Grande. Extremes of temperature, whether heat or cold, which not infrequently impede the progress of educational work in other localities, seldom visit this part of New Mexico.

The new town of Albuquerque—for there is also an Old Albuquerque, dating from the times of the first Spanish settlers, and still typically Spanish in appearance—is an essentially modern city, with paved streets, concrete sidewalks, electric light, motor bus lines, three daily newspapers, and important mercantile and manufacturing establishments.

Albuquerque is the greatest educational center of the State, possessing in addition to the University many denominational schools, and the public school system of the city which compares favorably with the systems of much larger eastern cities. All the leading religious denominations are effectively represented; and the members of all churches gladly welcome University students to share in their religious and social life. The University's position in regard to religion is non-sectarian.

Albuquerque lies on the main line of the Atchison, Topeka & Santa Fe Railway system, at the junction of the lines to El Paso and Mexico on the south, Arizona and

California to the west, the Pecos valley and southwestern Texas to the east, and through Colorado to Kansas City and Chicago to the North, so that it enjoys railroad facilities unequalled by any other town in this region. The advantageous position of the city on the main line of passenger traffic east and west, furnishes to the citizens many opportunities of seeing and listening to persons of distinction in almost every department of public life; and lectures and addresses, concerts and plays, musical and literary gatherings occur throughout the year.

AIM, SUPPORT AND GOVERNMENT

AIM

The University encourages scholarship, the applications of scientific knowledge to the arts of life, and research. Its aim is to place the resources of the University, so far as possible and with the least possible restriction, at the disposal of any qualified person who desires and has sufficient qualifications to use them. Training for leadership in true American citizenship as well as in the arts, sciences, and professions, is constantly kept in view as a goal.

The relation between the University and accredited high schools is such that the graduate from the latter may enter the University on a certificate plan in much the same way as graduates of the grammar school pass to the first year of the high school.

In the performance of its function the University is endeavoring to attract young men and women of ability and character. The University intends that all of the resources of higher education may be made available for such students in their efforts to prepare themselves for leadership in business and in industry, in the professions and in public life.

SUPPORT

The University is supported in part by appropriations and in part by income from the proceeds of the rental of lands granted to it by the Federal Government when New Mexico became a state. Its chief support, however, is that of the appropriations made for its maintenance by the State Legislature.

GOVERNMENT

The government of the University is vested in a Board of Regents. Five regents are appointed by the Governor of the State; the Governor and the Superintendent of Public Instruction are ex-officio members of the Board.

BUILDINGS

The architecture of the University buildings is distinctive, practically all of the structures being of the adapted Pueblo type. The buildings on the University Campus include the Administration Building, Biology Building, Chemistry Building, Gymnasium, Hadley Hall, Korber Buildings, Lecture Hall, Library, Science Hall, Power House, Sara Raynolds Hall, Residential Halls (three for women and one for men), Rodey Hall, and the University Commons.

The Gymnasium is near the Athletic Field and contains separate sections for men and women. The Biology Building will permit of great expansion in both the Biology Department and the Chemistry Department. The Lecture Hall, designed primarily for scientific demonstrations, will seat nearly four hundred and is supplied with modern lecture and demonstration equipment.

THE LIBRARY

The Library consists of about 32,000 bound volumes and 53,000 pamphlets. The Library is the designated depository of documents issued by the government, and

this material, together with that received from the colleges, universities, and various learned societies constitutes a valuable reference collection. The Library receives 161 general and technical periodicals, and through the courtesy of New Mexico newspaper editors a number of the state papers are available.

The Library has been enriched by the addition of a valuable collection of 170 volumes in Spanish, Latin, Italian and French dating from 1533 to 1803, the gift of a friend of the University. The books treat of law, theology, medicine, architecture, and various other phases of human knowledge. One of the most beautiful illustrated works of the collection is the "*Architettura universale* de Vincenzo Scamozzi." To insure its protection, the collection has been placed in a steel case in the library. A printed catalogue facilitates greatly the use of the books.

The Library is a part of the educational system of the state. All residents of the state are urged to use the Library. Books and pamphlets will be loaned upon request and where it is impossible to loan material, reference lists or suggestions as to the source of information are gladly given.

The Library is open every day during sessions, except Saturday and Sunday, from 7:45 a. m. to 9 p. m.; on Saturday from 7:45 a. m. to 5 p. m.

ADMISSION TO THE UNIVERSITY

METHODS OF ADMISSION

Students between the ages of sixteen and twenty-one are admitted to the undergraduate colleges, either by certificate or by examination. Applicants who are over twenty-one years of age are admitted under such conditions as are hereinafter set forth. Applicants for admission to the Graduate School are referred to page 25.

ADMISSION BY CERTIFICATE

Graduates of accredited secondary schools will be admitted without examination provided that the subjects pursued and properly certified meet the requirements of the college in which the applicant desires to matriculate. If the applicant is not a graduate, but is able to present a certificate showing that he has fulfilled the specific requirements for admission, together with a statement from the superintendent or principal, that he is in good standing in the school, and that in the superintendent's or principal's judgment he is able to pursue college work successfully, he will be admitted to regular status on trial.

Students desiring to enter on the certificate plan will submit certificates prior to Registration Day. These certificates should be signed by the principal of the secondary school last attended and should be sent directly to the Registrar of the University.

ACCREDITED SCHOOLS

Secondary schools in New Mexico accredited by the North-Central Association of Schools and Colleges or by the State Department of Education, and all other secondary schools in other states accredited in a similar way, or

by the universities of those states are, ipso facto, accredited by the University of New Mexico.

Graduates of non-accredited high schools are subject to entrance examinations, as follows: English 3 units, Algebra 1 unit, Plane Geometry 1 unit, foreign language or social sciences or natural sciences, 2 units.

All other applicants, except Adult Special Students, are subject to entrance examinations in 8 units of acceptable electives in addition to the 7 units in the paragraph above.

Entrance examinations are given at the University, at the beginning of each semester. Applicants who desire to take such examinations should notify the Registrar at least one week in advance.

REQUIREMENTS FOR ADMISSION TO COLLEGES

Fifteen units of subjects acceptable towards entrance are invariably required for admission to the undergraduate colleges, some of which units are prescribed, while the others are elective within certain limits.

The requirements for admission are stated in terms of units. The term "unit" means the completion of a course of study consisting of five recitation periods of at least forty minutes each per week during thirty-six weeks.

For convenience, subjects usually offered in secondary schools are classified in six groups, as follows:

- A. English.
- B. Foreign language.
- C. Social sciences.
- D. Mathematics.
- E. Natural sciences.
- F. Vocational and Miscellaneous.

QUALITATIVE REQUIREMENTS

Ten of the fifteen units offered for admission to any of the undergraduate colleges must be of a grade or quality of

work above the lowest passing mark, where grades are indicated by letters or symbols, or above 76% where grades are indicated by numerals and where 70% indicates the passing mark. Applicants who cannot meet this requirement may be admitted on trial.

QUANTITATIVE REQUIREMENTS

A. COLLEGE OF ARTS AND SCIENCES AND COLLEGE OF EDUCATION

For admission to either of these colleges, applicants must fulfill the following requirements, and, in case of deficiency, no applicant shall be admitted unless he can qualify as an Adult Special Student.

1. Group A. English, 3 units.

(Note—In the case of foreign students, their native language and literature will be accepted in lieu of the above requirement of English, if equivalent in nature and amount, but they must have a working knowledge of English.)

2. Groups B-E inclusive, 3 units in one group and 1 unit in another or 2 units in each of three.

(Note.—If foreign language is offered towards this requirement at least 2 units must be in one language.)

3. Electives from Groups A-F to make a total of 15 acceptable units, but with a maximum of 4 units from Group F.

It should be kept in mind that students deficient in mathematics generally are handicapped in college work. Students who intend to specialize in science should have a thorough preparation in mathematics and sciences. Students will find it advantageous to have had three years' work in a foreign language. Many Schools of Law and Schools of Medicine require, or strongly urge, Latin.

B. COLLEGE OF ENGINEERING

For admission to the College of Engineering, applicants must fulfill the following requirements, and, in case of deficiency, no applicant shall be accepted unless he can qualify as an Adult Special Student.

1. Group A. English, same as for College of Arts and Sciences.
2. Groups B-E inclusive, same as for College of Arts and Sciences, except that either 2 or 3 units in mathematics must be offered toward this requirement.
3. Electives from Groups A-F to make a total of 15 acceptable units, but with a maximum of 4 units from Group F.

It is recommended that high school students intending to matriculate in the College of Engineering should include physics and all the mathematics possible in their offerings for admission. Otherwise, they will be obliged to earn credit in college in intermediate algebra, solid geometry, and physics in addition to completing the regular requirements of the curriculum. Students with such deficiencies are liable to find that they cannot complete the curriculum in four years.

SUBJECTS REQUIRED OR ACCEPTED FOR ADMISSION

Group A. English.

Group B. Foreign Language.

Two or three units if offered to meet part of the quantitative requirement No. 2. Not less than one unit in any foreign language will be accepted as an elective under quantitative requirement No. 3.

Group C. Social Sciences.

- (1) Ancient History.
- (2) Medieval and Modern History.
- (3) English History.
- (4) United States History.

- (5) General History (but not in addition to Ancient, Medieval and Modern History.)
- (6) Civics (may include American Citizenship, $\frac{1}{2}$ unit, and Community Civics, $\frac{1}{2}$ unit).
- (7) Economics.
- (8) Sociology.
- (9) Citizenship.
- (10) Community Civics.

Group D. Mathematics.

Where two units are offered in algebra, the second unit must consist of one-half unit of intermediate, and one-half unit of advanced algebra.

Group E. Natural Sciences.

- (1) Biology, elementary.
- (2) Botany.
- (3) Chemistry, no credit given for less than 1 unit.
- (4) General Science.
- (5) Geology.
- (6) Physical Geography or Physiography.
- (7) Physics, no credit given for less than 1 unit.
- (8) Physiology and Hygiene.
- (9) Zoology.

Group F. Vocational and Miscellaneous Subjects.

The maximum accepted from this group is four units.

- (1) Agriculture.
- (2) Art.
- (3) Bible.
- (4) Commercial Subjects.
- (5) Home Economics (Domestic Art and Domestic Science).
- (6) Industrial Subjects.
- (7) Manual Training and Arts (including Drawing, Printing, etc.).
- (8) Music.

Optional Subjects: Other subjects completed in accredited high schools will be considered on their merits.

TESTS FOR FRESHMEN

All students admitted as Freshmen are given an intelligence test and a medical examination. Various departments of instruction give tests designed to reveal the student's aptitude for and previous training in the subjects taught in these departments.

Every student registered in Freshman English is examined as to his ability to use clear, correct, idiomatic English. No student can pass this test nor continue in English 21 who shows serious weakness in spelling, punctuation, grammar, diction, or sentence structure. Mere fluency or facility in writing will not be accepted in place of accuracy in these respects. Students who do not pass this proficiency examination are registered in a review course designed to make up that deficiency. See English 11.

ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES

Students from other accredited institutions who have pursued standard college courses will be admitted and will receive tentative credit for such courses upon the presentation of proper certificates of credits and of good standing. All applications for advanced standing should be addressed to the Registrar, and must be accompanied by complete, official transcripts of all previous work, and by a statement showing that applicant may re-register at any time in the institution last attended.

To be eligible for admission, students intending to transfer from other colleges must have maintained a quality of work on at least a parity with that required of students in the University of New Mexico.

Students who are disqualified from re-registration in other colleges or universities on the basis of their records (scholastic or conduct) attained therein will not be admitted to the University of New Mexico during the period of their

disqualification, and, in extreme cases, will not be admitted at any time.

Transcripts should be sent direct to the Registrar from the institution issuing them; all other documents are subject to verification. The valuation of transcripts for advanced standing is made by the Committee on Admission and any advanced standing allowed is strictly tentative and dependent upon subsequent satisfactory record at this institution.

Students entering with advanced standing must complete in this University during the senior year at least thirty hours of work before graduation, including six hours in their major study and three hours in their minor study.

ADMISSION OF ADULT SPECIAL STUDENTS

Persons over twenty-one years of age may be admitted as special students, provided they secure the recommendation of the instructors whose work they desire to take, and the approval of the Dean of the College concerned. They must give evidence of ability to pursue with profit such courses as they elect.

By virtue of his classification a special student is not eligible for any degree, but may become a candidate ultimately by completing the admission requirements. An adult special student will not be permitted to continue his status indefinitely and as a rule must satisfy all entrance requirements by the end of the first year for which he is enrolled.

ADMISSION TO THE GRADUATE SCHOOL

Students may be admitted to the Graduate School upon the completion of all the scholastic requirements for the Bachelor's degree in this University or in some other institution of approved rank. (See also page 19.)

GENERAL ACADEMIC REGULATIONS

REGISTRATION

REGISTRATION OF STUDENTS

All persons who expect to attend the University for the first time should cause to be sent from the school last attended, and directly to the Registrar, a certified record of their work beyond the eighth grade. No fee is charged and no obligation whatever is incurred in having the Committee on Admission pass upon the credentials of prospective students. *These transcripts should be received by the University before Registration Day. Students, except adult special students, are not admitted until such credentials are presented and favorably acted upon or until they pass entrance examinations.*

The steps necessary to complete registration are as follows:

(1) Presentation of certified transcripts of secondary or previous college work on or before Registration Day. When transcripts are presented on Registration Day, their bearers will appear before the Registrar.

(2) The Student supplies the Registrar with the data called for on the Census Card Blank and then receives a Trial Program Blank.

(3) He then pays fees to the Bursar.

(4) Registration is continued in the Gymnasium, with the advice and counsel of the officers of instruction there assembled. Each course selected must receive the written approval of the head of the Department involved. A student should advise freely with faculty members before deciding upon his group of studies.

(5) Each student must make an appointment with the Medical Advisors, (and must see the proper representatives of the Department of Health Education) or arrange

for such appointment before his program of studies will be approved finally by the Dean.

(6) The student then applies to the Dean of his College for final approval of the program of studies which has been selected.

(7) Students who fail to keep their appointments for physical examinations, mental tests, and other appointments which are a part of registration, shall, unless such absence is excused by the dean, be subject to the regular fee for a special examination.

LATE REGISTRATION

Certification of records of past work, registration in courses, physical examinations, or payment of fees after the time appointed for these purposes, except for reasons approved by the President or Dean, may be effected only after the payment of the late registration fee of five dollars.

Students will not be admitted to the University more than ten days after the opening of a semester, except with the permission of the Dean.

CHANGE IN PROGRAM OF STUDIES

A student who desires to make a change in his program of studies must make application to the Dean of his College for the proper blank. The change in program must receive the endorsement of the instructors of the courses dropped and added, of the head of the department in which the student has elected his major study and of the Dean of his college.

MINIMUM PROGRAM OF STUDIES

No student will be permitted to enroll in less than 14 credit hours except for reasons duly approved by the Dean. Students, however, to meet requirement of eligibility, must enroll in at least 15 credit hours.

WITHDRAWAL OF COURSES

The University reserves the right to cancel or withdraw any course for which the enrollment is too small to justify its continuance, or for other causes.

CLASS HOURS AND CREDIT HOURS

A class hour consists of 53 minutes, and one class hour a week of recitation or lecture throughout a semester earns a maximum of one credit hour. One class hour of laboratory work, orchestra, chorus, or physical training a week throughout a semester earns a maximum of one-third to one-half credit hour. One lesson in voice, or piano, a week throughout a semester earns a maximum of two credit hours.

REGULATIONS ON ATTENDANCE OF UNDER-GRADUATES

1. Students are expected to attend all meetings of the classes in which they are enrolled.
2. A student absent for any reason whatsoever is expected to do the full work of the course. It is the duty of the student to take the initiative in holding a conference with his instructors in regard to making up lost work.
3. It shall lie in the province of the instructor:
 - a. To decide how the grade in the course is affected by non-attendance at class exercises;
 - b. To judge as to whether the student can make up lost work due to absences, and how the student may make up such lost work;
 - c. To decide when the student is not entitled to credit on account of absences and to recommend dismissal from the course as provided in section 4.
4. It shall lie in the province of the Dean to administer discipline for neglect of duty as indicated by unexcused absences:

- a. To withdraw a student from a course with the grade of WF when the instructor reports that the student cannot pass the course on account of failure to complete a sufficient amount of work, due to absences or to any other cause;
 - b. To recommend dismissal from the University on the ground of neglect of duty when a student has thus been withdrawn from two courses, including physical education and assembly.
5. a. Absences are excusable when incurred by students who are granted permission in advance by the Dean to represent the University in some approved activity outside the city. Such permission shall be applied for by the director of the activity.
- b. Absences incurred on account of illness amounting to two or more successive days may be excused by the Dean (by the Supervisor of Women in the case of women students) on the statement of the attending physician or responsible person.
- c. The Dean will notify the instructors of the cause of such absences. The term "excused absence" means merely that administrative officials will not impose discipline on account of absences, also that the student is to no extent exempted from the class work assigned for the days in which the excused absences were incurred.
6. Instructors will keep a record of class attendance and will report absences:
- a. When two are incurred on successive meetings of class;
 - b. When the number of absences under operation of section 3 warrants dismissal from the course;
 - c. At the end of each six weeks period and at the end of semester of other session.
7. Students who are absent from the final examinations or other closing exercises of the classes in which they

are enrolled shall be marked F, X or I. The grade of F is indicated where the previous record is such that the student cannot pass the course no matter what grade he may make on the final examination. The grade of X or I is indicated if the student's previous record shows that he may pass the course by making a certain passing mark in the final examination. The grade of I may be given instead of X when the absence from examination is excused.

8. An absence incurred on the day preceding or on the day following a holiday shall be counted as two absences.
9. Absences due to late registration are treated on the same basis as absences incurred after registration.

GRADING AND EXAMINATIONS

The grades of students in courses are based upon daily work and upon examinations, and are intended to be the resultant of the quantity and quality of work done. The markings are A, B, C, D, I, X, F, and WF, valued respectively as follows:

A _____ 100-93 _____ Excellent.

B _____ 92-85 _____ Good.

C _____ 84-77 _____ Average.

D _____ 76-70 _____ Barely Passing.

I—Work not completed.

X _____ 69-60 _____ Conditioned.

F _____ below 60 _____ Failed.

WF—Dropped from course for discipline with grade of F.

The grade of I is given when a student has made a satisfactory record in the work completed, but has not completed a part of the course for good and sufficient reasons.

If an instructor finds that a student does not deserve a passing grade, on account of missing the final examina-

tion or because he has not completed some part of the course, he will give that student the grade of F or X unless the student presents to the instructor a statement from his Dean, or from the Supervisor of Women in case of women students, showing that the reason for not completing the work of the course has been accepted. In this case, the student will receive the grade of I, and he will have an opportunity, within the first six weeks of the following semester of residence, by special examination covering the work omitted, to change the grade of I to a passing grade. If the unfinished work, which caused the grade of I, is not completed within the allotted time, the grade of I automatically becomes F.

Students receiving an X in any course are "conditioned" in that course. Such students may receive a passing grade and credit in that course if the condition is removed by special examinations held for this purpose on Saturday of the fifth week of the following semester. (Cf. Special Examinations.) Any condition remaining unre-moved becomes automatically a failure after the time has expired for the removal of such conditions. Only one opportunity is allowed for the removal of a condition.

Students who withdraw from a course in which they are not making a passing grade shall receive a final grade of WF.

Capable students who chronically make low grades will be dismissed from the University.

SPECIAL EXAMINATIONS

A special examination is one taken at another time than regularly with a class, and a fee of \$2 is charged for such an examination, except for entrance examinations and examinations for advanced standing. Before the student is admitted to a special examination he must present a permit signed by the Dean of his College and a receipt for the special examination fee signed by the Bursar. The

fee is charged for each final semester examination of a course when sanctioned for any other time than that provided for in the schedule, and for each special examination held to remove conditions. The instructor shall decide whether the fee shall be collected for special examination given within the semester.

Late registration fee (p. 27) is assessed in cases of failure to take, at the appointed time, physical examination, mental or other tests, which are essential parts of registration.

No final examination may be given to a class before the time appointed by the Committee on Courses of Study and Schedule.

DISHONESTY IN EXAMINATIONS

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

SUSPENSION FOR LOW GRADES

Any student who fails to maintain a passing grade in one-half of the schedule for which he has been registered, may, on the recommendation of the Committee on Student Standing and of the Dean and with the authorization of the President, be suspended from the University and may be debarred from registration until such time as they see fit to readmit him.

HONORABLE DISMISSALS

A student leaving the University after fulfilling all his obligations to the University is entitled to receive from the Registrar a statement of honorable dismissal, and, upon request, one transcript of his academic record. Honorable dismissal signifies that, so far as conduct is concerned the person thus dismissed is in good standing and may re-register in this University at any time. Additional transcripts are furnished at the rate of one dollar a copy.

UNIFORM GRADUATION REQUIREMENTS

Every candidate for a degree shall complete a normal program of studies of not less than 30 acceptable semester hours, in the senior year, and in residence. Students may fulfill part or the whole of this residential requirement by attendance upon a sufficient number of successive summer sessions at the University of New Mexico, but credits earned in correspondence courses are not counted towards this requirement. The average time for the completion of a degree-course is four years following graduation from an accredited high school.

ACADEMIC REQUIREMENTS

The academic requirements for a degree in any College are based upon both quantity and quality of the work completed by the candidate. The quantitative requirement is 128 credit hours in the Colleges of Arts and Sciences and of Education and 148 in the College of Engineering, based on an average quality of work. These amounts include credit hours earned in the prescribed courses in Health and credit hours earned in prescribed courses in Physical Education but not those credit hours earned by attending University Assemblies.

QUALITATIVE REQUIREMENTS

The number of credit hours required for all diplomas and degrees conferred by the University is based upon average work, which is designated by C. For every 15 credit hours of A work, the amount required for graduation is diminished by one credit hour. For every 30 credit hours of B work, the amount required for graduation is diminished by one credit hour. For every 15 credit hours of D work, the amount required for graduation is increased by one credit hour. The maximum dividends allowed on account of A's and B's are 4 hours, so that a minimum of 124 hours is required for a degree in the Colleges of Arts and

Sciences and of Education and of 144 hours in the College of Engineering. (See also other requirements existing in the undergraduate Colleges, pages 54, 64 and 85.)

HEALTH

Health 1 must be taken by all students in all undergraduate colleges of the University in their freshman year.

MEDICAL EXAMINATIONS

A medical examination is required each year of each student.

PHYSICAL EDUCATION

Physical Education 1, 2, 51, 52 or 5, 6, 55, 56 must be taken by all students of all colleges of the University, in their freshman and sophomore years, or in the first two years of residence in the case of students entering with advanced standing who do not have credit in similar courses. Each course earns one credit hour. A total of four credit hours, four semesters' work, must be earned for any baccalaureate degree, beginning with the class of 1931.

UNIVERSITY ASSEMBLIES

Assemblies are held regularly on Friday, or when called by the President of the University. At such times all class exercises are suspended and attendance at such assemblies is required of all students. 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. Regular attendance at these assemblies earns one-half credit hour, each semester. This credit is to be earned in addition to the academic require-

ments for degrees. The penalty for excessive unexcused absences from assembly is the deduction of one credit hour from the total earned.

HAZING

Hazing is condemned by public opinion and law and is not tolerated by the students, faculty, or Board of Regents of the University of New Mexico.

GENERAL CONDUCT OF STUDENTS

Men and women enrolled as students or connected with the University in any way are expected to conduct themselves as men and women of honor. All students should know contents of the official *Handbook for the Guidance of Undergraduate Students*.

AUTOMOBILE PARKING REGULATIONS

Parking of automobiles, motorcycles, or other vehicles on the roads of the campus is prohibited between the hours of 7 A. M. and 5 P. M. except on Saturday afternoons, Sundays, and holidays. The spaces south of the east entrance to the Administration Building, west of the road in front of the Dining Hall, north of the Dining Hall, and between the Dining Hall and the Science Building are reserved for the use of faculty members. Parking spaces for other vehicles are provided north of the Power House, north of Hadley Hall, north of Sara Raynolds Hall and across the road east of the Chemistry Building.

EXPENSES AND EMPLOYMENT

EXPENSES

In accordance with the State laws and the desire of the people of the State, it is the policy of the University to make its fixed charges a moderate sum. The Board of Regents reserves the right to change the rates at any time that the interests of the institution may demand.

Matriculation fee (paid once)	\$ 5.00
Tuition, resident students, per semester	15.00
(1) Tuition, non-resident students, per semester	35.00
(2) Student activities fee, per semester	6.00
(3) Guarantee deposit	10.00

(1) *Student Fees, Resident and Non-Resident.*—The following resolution was adopted by the unanimous vote of the members of the Board of Regents, November 5, 1927: "BE IT RESOLVED, by the Board of Regents, that (1) 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; and that (2) 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 that 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." (Minutes, Board of Regents, Vol. III, p. 115.)

(2) The Student Activities Fee (\$6) has been voted voluntarily by the Associated Students and is collected by the University as a courtesy to the students. (See Constitution, Articles VI and VIII.) It is understood that all organizations to which this collected money is to be paid will comply faithfully with all requirements, including audits, and the University reserves the right to withhold, or to refund to the students, such funds as may be necessary.

(3) Returnable in whole or part after deducting for damages, etc.

Graduate Students and students who register in courses earning not more than six credit hours will pay the following registration fees only:

Matriculation fee (paid once) ----- \$ 5.00

Tuition, resident students, per semester ---- 10.00

Tuition, non-resident students, per semester, 25.00

At the time of registration a guarantee deposit of \$10 to cover possible breakage or damage to University property, is required of each student.

Students voluntarily leaving the University within two weeks after registration during the regular sessions or within one week after registration during the summer session, will be refunded all academic fees except the matriculation fee. After these dates neither tuition nor any fee will be refunded, though the guarantee deposit or balance thereof is returnable to students withdrawing from the University at all times. Students withdrawing under discipline forfeit all rights to the return of any portion of tuition or fees except the guarantee deposit. In no case will laboratory fees be refunded to students. For regulations concerning board and room, see pages 39 and 40.

SPECIAL FEES

Special examination fee (See P. 31) ---- \$2.00

Change in program fee ----- 1.00

All students who register at a later date than the time appointed pay an extra fee of \$5.00.

Students who fail to appear for their medical examination at the time appointed pay an extra fee of \$2.00.

Diploma fees:

Undergraduate ----- \$ 5.00

Graduate ----- 10.00

For every change in program of studies made after the end of the second week of the semester, except on a written demand of the instructor of the course to be dropped, a fee of \$1.00 is charged. Not more than \$1.00 shall be charged for the change authorized on any one change slip.

LABORATORY FEES

Laboratory fees will be collected each semester from each student registering for any of the subjects listed below. These fees apply individually to each numbered course as segregated under the various subjects, are collected at the end of the second week of each semester, and are not refunded on account of withdrawal or dismissal from the course after that date.

Biology 1, 5, 6, 14, 26, 51, 55, 92, 122, 141, 154 and 171, per credit hour -----	\$3.00
Chemistry 1, 2, 51, 52, 62, 68, 70, 101, 102, 151, and 152, per credit hour -----	3.00
Civil Engineering 152 and 166 -----	2.00
Civil Engineering 112 and 114 -----	3.00
Civil Engineering 53, 54 and 103 -----	4.00
Dancing, when elected as a part of Physical Education 5, 6, 55, 56 -----	5.00
Electrical Engineering 107 and 108 -----	2.00
Electrical Engineering 11, 112, 155, & 156 -----	4.00
Geology, 1, 2, 51, 111 and 112 -----	1.00
Geology 52 -----	4.00
Golf, when elected as a part of Physical Education 5, 6, 55, 56 -----	15.00
Home Economics 11, 12, 61, and 62 -----	1.00
Home Economics 75 -----	3.00
Home Economics 53, 54, 105, 106, and 181 -----	5.00
Horse-back riding, when elected as a part of Physical Education 5, 6, 55, 56 -----	10.00
Mechanical Engineering 116 -----	1.00
Mechanical Engineering 51, 52, 113 & 114 -----	2.00
Mechanical Engineering 115 -----	3.00
Mechanical Engineering 105 -----	6.00
Physics 1 and 2 -----	3.00
Physics 51, 54, and 114 -----	4.00
Practical Mechanics 17 and 18 -----	2.00
Practical Mechanics 4 and 6 -----	6.00

Psychology 51, 52, 185 and 186 -----	\$1.00
Psychology 121 and 122 -----	2.00

MUSIC FEES

In addition to other registration or laboratory fees, students enrolling in the Department of Music will pay the following fees:

Piano, eighteen one-half hour lessons -----	\$18.00
Pipe Organ, eighteen one-half hours lessons	18.00
Violin, eighteen one-half hour lesson ----	18.00
Voice, eighteen one-half hour lessons ----	18.00
Rental of piano or organ -----	additional

BOARD AND LODGING

Limited quarters for resident students taking not less than 12 credit hours of authorized work are provided in the four Residential Halls, one for men and three for women. Two or three students, as a rule, occupy a suite. The rooms are furnished and electric lights and steam heat are provided, but students supply their own bedding, towels, etc., and pay their own laundry bills. Occupants of rooms are required to keep their rooms in clean, attractive condition, and to observe all regulations therefor. The Men's Residential Hall is in charge of a Proctor, and the Women's Residential Halls are also in charge of Proctors.

The Board of Regents requires that persons living in the Residential Halls shall obtain their meals at the Dining Hall. Board and lodging are furnished for \$32.50 to \$37.50 per month. All rooms in the Men's Residential Hall carry the same rate while those in the Women's Residential Halls vary from the minimum to the maximum rate given. These rates are not subject to deduction except on account of absences on seven consecutive days, excused by the Dean of the College in which the student is enrolled. Students who reserve rooms are expected to pay for the same throughout at least one semester.

Prospective students desiring to reserve rooms in the Residential Halls should make application for such reservation early as the number of available rooms is limited. The application must be accompanied by a reservation fee of five dollars. This reservation fee will not be refunded for any reason after the beginning of the session, but in case of failure to attend the University, it will be refunded only if requested prior to the opening of the session. After enrollment, the reservation fee will apply toward the student's account for room.

Guests are entertained in the Residential Halls with the consent of the Proctors who are in charge.

MEALS

Persons connected with the University who do not live on the Campus may procure meals at the following rates:

Meals for one month, \$25, paid in advance. Tickets for students or faculty members not domiciled in University property are non-transferable and good only during the current month, and the rate is not subject to deduction except on account of absence on seven consecutive days, excused by Deans.

COUPON BOOKS

Non-transferable books of twenty coupons good for noon-day luncheon on week days (except holidays) may be purchased by students or faculty members for \$8.00.

SINGLE MEALS

Single meals will be supplied to those connected with the University at the following rates:

Breakfast	35c
Dinner	50c
Supper	50c
Dinner (Sundays and holidays)	75c

The above prices are subject to change at any time.

STUDENT EMPLOYMENT

Students desiring part-time employment in order to earn the whole or part of their expenses while attending the University are invited to confer with the Employment Bureau. The Director of the United Religious Work Council has assumed responsibility for this bureau. No charge is made for this service.

Neither the University nor the Employment Bureau can guarantee positions in advance, but the Employment Bureau does make contacts between the student applicants and the various employment opportunities after the arrival of the student. It does not undertake to make arrangements with respect to remuneration. Each student is confronted with the necessity of making favorable impressions with the employers, and then of rendering good service in his position.

The student who finds it necessary to engage in outside work should not attempt ordinarily to carry a full schedule of studies. The usual schedule is sixteen hours each week, while fourteen hours per week is the minimum schedule. Each recitation hour requires at least two study hours for preparation. These facts should be considered by students in preparing their class schedules, and in the allotment of their other time. The faculty may limit the student's schedule in the interests of health and academic efficiency.

Some students earn the whole or part of their expenses while attending the University, devoting several hours each day to remunerative employment. During the past school year over 132 students were placed in part-time remunerative positions. The grand total remuneration earned by the students amounted to over \$49,000.00. This work included such jobs as stenographic work, housework, paper graders and readers, office work, librarians, clerks, laundry agents, tutors, children's maids, general outdoor work, waiters, soda clerks, salesmen, express handlers, etc.

The average hourly rate of pay of those employed was 43c for women and 44c for men. Students are employed on the campus wherever advisable, as janitors, waiters in the dining room, helpers in the kitchen, etc. The bulk of the employment, however, is found in the homes and business houses of Albuquerque.

Board and lodging can usually be obtained in exchange for three to four hours of housework daily. Opportunities also exist for obtaining employment on an hourly or weekly basis in many fields. Students especially qualified for certain occupations can occasionally find employment on a more remunerative basis than in the fields mentioned above.

Various positions about the grounds and buildings of the University, paying from \$10.00 to \$30.00 per month, are filled by students who must be self-supporting. The number, however, is not large, and preference is given to students from New Mexico and to those who have spent enough time in the University to demonstrate that they are earnest, capable young people, able to do this outside work and at the same time maintain a good record as students.

Inquires concerning opportunities for employment should be addressed to the Employment Bureau of the University.

LOAN FUNDS

The New Mexico State Federation of Women's Clubs has established a Student Loan Fund to be used in assisting worthy women students at the University.

In addition, the University has a Student Loan Fund made up from gifts of former years which is loaned, under proper supervision, to needy students of the University and which has assisted many students to complete their education at the University.

ROOM REGISTRY

While the University of New Mexico maintains several dormitories, the demand for rooms is so great that not all of the applicants can be accommodated. The United Religious Work Council maintains a room registry, under the supervision of its Director to assist students in finding suitable room and board. The Adviser of Women approves all residences for women, and upon request from the parents the Dean of Students will make a report on living conditions of men students.

RELIGIOUS PRIVILEGES

Opportunities for religious worship and service in Albuquerque are ample. Students are welcome at all the churches of the city, several of which make special arrangements for students in their organizations.

Under the direction of the United Religious Work Council, the Young Women's and the Young Men's Christian Associations of the University seek to incorporate into student life the ideals of the national student movements they represent, and to encourage the application of the life and principles of Jesus Christ to the individual and the social life of the University. Membership is open to every student who endorses the purpose of the organizations. Men and women students will find an enjoyable fellowship and an opportunity for development in the Christian life and leadership in these organizations.

HONORS AND PRIZES

Annually on the occasion of Honor Day, the President of the University and the President of the Associated Students, in the presence of the students and friends, announce the names of those students who are entitled to certificates of excellence of prizes for achievement. The honors, prizes, and awards are as follows.

THE C. T. FRENCH MEDAL FOR SCHOLARSHIP

A friend of the University, Mr. Chester T. French, of Albuquerque, in the spring of 1921, established a permanent fund of \$500, the interest on which is to be used perpetually as a prize to stimulate scholarship. The C. T. French Medal for Scholarship will be awarded annually by the President of the University, on recommendation of a Faculty committee, to the student who meets these conditions:

The senior student, of good character, who must have had a continuous residence of not less than two full academic years and shall have obtained during his senior year the highest general average for scholarship in a regular course of not less than fourteen hours leading to the Bachelor's degree in the College of Arts and Sciences. The medal can be awarded to the same student but once.

GEORGE BREECE PRIZE FOR EXCELLENCE IN ENGINEERING

Mr. George E. Breece of Albuquerque, in 1921, established this prize-endowment by a gift of \$600, the proceeds of which are to be awarded on Honor Day. This prize is open only to senior students of Engineering in residence and taking a full course. This award will be made upon the basis of excellence of scholastic record and character during two consecutive years in this institution and general fitness to be determined by a committee appointed by the President of this University.

MARIAN COONS KINDNESS AWARD

In May 1925, Mr. J. H. Coons of Albuquerque gave to the Regents of the University \$600 in Liberty bonds for the establishment of the Marion Coons Kindness Award, in memory of Mr. Coons' little daughter Marion. The award will be given to the senior student in the Home Economics Department who shall be voted the most kind by her classmates and teachers in that department.

ALFRED GRUNSFELD MEMORIAL FOUNDATION

In October of 1927, Mrs. Miriam N. Grunsfeld donated the sum of \$5,000.00 to the University to found and establish a perpetual trust to be known as the Alfred Grunsfeld Memorial Foundation, in memory of her husband, the late Colonel Alfred Grunsfeld. The income from this trust fund is to be used in the payment of the scholarship.

At commencement in each school year, the President of the University shall, upon the recommendation of a committee of the faculty appointed by him, award the scholarship to some worthy student, for the purpose of enabling said student to continue his or her education during the next school year. The scholarship shall be awarded in accordance with the following conditions:

1. To be eligible for the scholarship, students must be residents of the State of New Mexico, and it is also required that during that school year immediately preceding the award they shall have been in actual attendance upon the University; that they shall have been registered as full-time students, that they shall have been enrolled in the Department of History and Political Science, and that they shall not be above the grade of junior.
2. In selecting the student to receive the award, consideration shall be given to the general scholarship of the student, the department and character of the student, and his or her financial necessities.

3. When the student receiving the award shall matriculate at the beginning of the next regular school year said student shall be entitled to receive from the Treasurer of the University of New Mexico, so much of the unexpended income from the trust as shall be available, not to exceed the sum of Four Hundred Dollars (\$400), which shall be paid to said student, one-half upon his or her matriculation and one-half at the beginning of the second semester, and which money shall be used by said student for his or her expenses during the school year for which the scholarship was awarded. If the student designated shall attend the University for only the first semester and shall fail for any reason to continue for the second semester, then the remaining half of the scholarship fund for that school year may be awarded to an alternate to be selected for the remainder of that school year in the same manner as hereinabove provided.
4. The action of the President, when approved by a committee of the faculty so appointed by him, in awarding said scholarship shall not be subject to review.

THE UNKNOWN DONOR SCHOLARSHIPS

In 1927 a friend of the University, wishing his name withheld, named a committee to award the scholarships available under the fund which he established at that time. The plan contemplates the awarding each year of two scholarships, valued at \$500.00 each, to a boy and a girl, both graduates of New Mexico high schools, entering the freshman class until there are eight students in the University receiving the benefit of these scholarships. Thereafter the number would be maintained at eight. The donor's idea is the development of educated and intelligent leadership in New Mexico, and in awarding these scholarships,

the committee considers the personal qualifications of the applicants as well as their scholastic standing. If the recipient proves worthy during the first year at the University, the scholarship may be continued during such of the following three years as the conduct and scholastic standing merits in each case.

PHILO S. BENNETT PRIZE

In 1905, under the provisions of the will of the late Philo S. Bennett, of Bridgeport, Connecticut, the University received a gift of \$500.00 to be used in assisting women members of the Freshman Class during the second semester. This fund, through investment, has grown to \$1,200.00. The income from the fund is awarded annually, in January, to the woman of the Freshman Class 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 KATHERINE MATHER SIMMS AWARD

1921, Mr. Albert G. Simms, of Albuquerque, presented to the Regents of the University the sum of \$250.00, in trust, the interest from which sum is awarded and paid in cash, annually, at the Commencement Exercises, to that woman student in actual attendance at the University of New Mexico, not below the grade of Junior, who shall have excelled in English composition. The student shall be chosen by the Dean of the College of Arts and Sciences and the Professor or Professors of English in that College.

This award is "The Katherine Mather Simms Award for Excellence in English Composition, given by Albert G. Simms, in memory of his deceased wife, Katherine Mather Simms."

H. L. DOUGHERTY AWARD

In 1927, a number of friends of the late Professor Harry L. Dougherty gave the University a sum of money,

the income from which is awarded, annually, in cash to that student of the College of Engineering who has the highest general standing. The student to whom the award is made is selected by the Dean of the College of Engineering, together with the heads of the College of Engineering Departments.

This is known as the H. L. Dougherty Award in memory of Professor Dougherty who, at the time of his death, was on leave of absence from his University duties of Assistant Professor in Civil Engineering.

CHI OMEGA PRIZE

The Chi Omega sorority established in 1925-26 an annual prize of fifteen dollars to the woman student (Chi-Omegas excepted) who does the best work in economics during the college year. The student will be selected on the basis of scholarship and general knowledge of the subject by a faculty committee.

ALPHA CHI OMEGA PRIZE

The Alpha Chi Omega Sorority, established in 1927-28, an annual prize of ten dollars to the student registered in the Department of Music, making the greatest improvement during the regular academic year. The faculty of the Department of Music will be the judges of the award.

SIGMA TAU MEDAL

The Sigma Tau Medal is awarded each year to the Freshman engineer, whose weighted average grade for the year, is the year, is the highest in his class.

THE IVES SCHOLARSHIPS

The Ives Memorial Scholarships were created by the will of the late Byron H. Ives, of Albuquerque, in memory of Julia Louise Ives and Helen Andre Ives. The income of the fund is used to maintain three scholarships of the

sum of two hundred dollars each. The scholarships are awarded annually by a Committee of the Faculty, and candidates must meet the following qualifications: Residence in New Mexico, preferably in Albuquerque; good health; good moral character; scholarship; and intention to teach. Candidates for these scholarship should make written application to the President of the University; final selections for the next academic year will be made regularly during the month of July.

THE CECIL RHODES SCHOLARSHIPS

In accordance with the provisions of the will of Cecil Rhodes, awarding two scholarships every three years to each State and Territory in the United States, tenable at Oxford, England, and of the annual value of \$1,750, New Mexico has the privilege of electing a scholar from the candidates who present themselves.

The election from the State, without the examinations formerly required, is made by a State Committee appointed by the American Society of the Rhodes Trustees. Recommendations of candidates from the University are made to the State Committee by the authorities of the University.

GIFTS AND DONATIONS

PAAKO RUINS

In January, 1928, the Santa Fe Copper Mining Company gave the University a deed for thirty acres of land in the San Pedro grant. This grant is located in the Sandias about twenty-five miles from Albuquerque and the tract deeded to the University contains the ruins of an ancient Indian Pueblo over three hundred years old. These ruins will be excavated in connection with the instruction in Archaeology.

PARSONS AND HODGIN GROVES

Judge C. M. Botts, of Albuquerque, made a gift of \$1,000.00, in January, 1928, to the University which was used in planting groves of trees as memorials to Miss Josephine S. Parsons and Dean C. E. Hodgin.

PEARCE RODEY GIFTS

Mr. Pearce Rodey, of Albuquerque, presented two pictures to the University to be hung in the New Mexico room of the University Library. One is of his father, Judge B. S. Rodey, and the other is of Kit Carson.

MAX NORDHAUS GIFTS

Mr. and Mrs. Max Nordhaus, of Albuquerque, presented the University with a valuable collection of ancient pueblo and cliff dwelling relics consisting mainly of pottery and stone implements excavated from ruins in Socorro county and on the west side of the continental divide.

HONOR FRATERNITIES

The national honor fraternity of Phi Kappa Phi granted a chapter to the University of New Mexico in May, 1916. Elections from the Senior class only are made each year. A senior, in order to be eligible for election, must have been in residence for three semesters and must stand in the highest fifth of his class in scholarship.

The national engineering fraternity of Sigma Tau granted a chapter, known as Chi Chapter, to the University of New Mexico, in December, 1928. Elections are made from the junior and senior classes each year. Any white male person duly registered in any of the engineering courses who has become a junior by the college records, is eligible to active membership. The candidate must rank in the upper third of his class in scholarship, and his selection is based upon scholarship, sociability, and practicality.

The New Mexico Alpha Chapter of Theta Alpha Phi, the national honorary dramatic fraternity, was installed in May, 1928. To be eligible for active membership, the student must meet the eligibility rules of the University and must qualify under at least one of the following conditions: excellence in two major or four minor roles; successful play management of three plays; stage management of three plays; or property management of three plays.

STUDENT ORGANIZATIONS

The students of the University form 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. The editorial and managerial boards of the newspaper, the New Mexico Lobo, and yearbook, The Mirage, are elected by the Publication Staffs. Under the direction of the Dramatic Club plays are presented. The Glee Club, the Orchestra and the Chorus are of interest to many students. Debates are held with other educational institutions, representatives being chosen through the medium of the Lowell Literary Society. All athletic activities are under the direction of the Athletic Council, and are subject to the approval of the Faculty and President. The University is an associate member of the Rocky Mountain Conference.

The students support several other organizations. Among these are the Y. M. C. A., the Y. W. C. A., El Circulo Espanol, the Tennis Club, the Student Chapter of the American Association of Engineers, the Independent Men, and the Independent Women.

The University will not be responsible for debts incurred by any student or student organization. By order of the Board of Regents, persons in charge of student publications, debates, concerts, dramatic exhibitions, athletic per-

formances, etc., may be required to submit in advance for approval, an estimate of expenses, together with prospective revenues, to the President, or to persons authorized by him, and shall not proceed with their enterprises without the approval of the above authority.

FRATERNITIES

Recognizing voluntary organizations of students with well-defined ideals as being legitimate expressions of an instinctive social impulse the University encourages the proper conduct of fraternities.

To set up, to advocate, or to encourage class barriers is against the ideals and purposes of a State University sustained by taxation of the people. So long as fraternities continue to realize that they exist for and by the University the prevailing wholesome co-operation with these groups will continue. The fraternities of the University of New Mexico have assisted in the formation of student codes, in the maintenance of living quarters for their members and in the development of pleasant social life outside of work hours. Four national fraternities, Pi Kappa Alpha, Sigma Chi, Kappa Sigma, and Sigma Phi Epsilon, and one local fraternity, Omega Rho, are represented among University men, and six national fraternities, Kappa Kappa Gamma, Alpha Delta Pi, Phi Mu, Alpha Chi Omega, Chi Omega and Beta Sigma Omicron, among the women. The womens' fraternities have formed a local Pan Hellenic Association. The fraternities own houses near the Campus.

The Board of Regents has authorized the fraternities to build chapter houses on the Campus under the proper safeguards and restrictions, the location, type of house, etc., to be decided by the President of the University.

Record is kept of the scholarship of members of these organizations, and the publication from time to time of comparative statistics affords a stimulus to group achievements.

MILITARY TRAINING

AVAILABLE AND LEADING TO A COMMISSION IN THE OFFICERS RESERVE CORPS

Application has been made to the U. S. Government by the Board of Regents in behalf of the University for a unit of the Reserve Officers Training Corps, which unit, in general, would be similar to those now in existence in most of the other state universities. The installation of this unit awaits adequate appropriation by Congress. In the meantime, there have been established on the campus two units of the New Mexico National Guard in which enlistment is entirely voluntary. This affords the opportunity for training which is now necessary under the National Defense Act of 1920 for those desiring to secure a commission in the Officers Reserve Corps.

The members of these two units are paid for their drills at a minimum rate of \$1.00 per drill, the pay increasing to \$3.00 per drill for the higher non-commissioned positions. The drill periods are once each week and are on week days at a time when they will least interfere with the regular class and laboratory work. As one of the two units is a cavalry troop and the other an engineer company, the types of work done in the two units differ to a considerable extent, thus giving an excellent opportunity for choice of work.

COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims to provide a liberal as well as a thorough education. It offers courses of both cultural and practical nature in various departments, including anthropology, art, biology, chemistry, economics and business administration, education, English language and rhetoric, English literature, geology, government, Greek language and literature, history, home economics, Latin language and literature, mathematics, music, physics, psychology, and modern languages and literature. It gives opportunity, also, for special work in the curricula preparatory to Law and Medicine. In addition, it accepts a certain amount of credit from the other under-graduate colleges.

GRADUATION REQUIREMENTS

The quantitative requirement of 128 hours is based upon average quality of work done. This amount is reduced slightly for higher grades than C and is increased for lower grades than C. (See page 33). Ninety hours of the total required for a degree must be of C grade or better.

A certain amount of the four years' course is prescribed in specific courses or in electives within groups of subjects, with the intention that every student shall lay a sufficiently broad foundation in English, other languages, the sciences and mathematics, and the social sciences. During the junior and senior years about one-half of the students' time is devoted to major and minor studies, and electives are chosen with the advice and approval of the major professor.

The requirements in Health, Physical Education and Public Assembly are explained on page 34.

GROUP REQUIREMENTS FOR DEGREES

(*Note.*—No student shall be classified as a Junior who is deficient in more than 4 hours of the group requirements.)

I. English. Six credit hours must be earned in English 21 and 22, and three additional credit hours must be earned in courses numbered above 50.

II. Foreign Language.

(a) When the student has been admitted with at least two units in one foreign language, he must earn either six credit hours in the same language, or twelve credit hours if he elects to begin another language.

(b) When the student has been admitted with less than two units in one foreign language, the requirement is raised to 18 credit hours.

III. Social Sciences. Courses earning nine credit hours must be completed in this group. Not more than six hours from the same department may be applied to this group requirement. When a student has been admitted with less than one unit in social sciences, the requirement is raised three credit hours. The subjects contained in this group are:

Anthropology.

Economics.

Education.

History.

Political Science.

Philosophy.

Sociology.

IV. Mathematics and Sciences. Courses earning twelve credit hours must be completed in this group. Not more than eight hours from the same department may be applied to this group requirement. When a student has not earned credit in either mathematics or science in high school, the

requirement is raised in his case to eighteen credit hours. The subjects contained in this group are:

Biology.

Chemistry.

Geology.

Home Economics (food courses only.)

Mathematics.

Physics.

Psychology (courses 51, 52, 121, and 122.)

REQUIREMENTS IN MAJOR AND MINOR STUDIES

When registering for the Junior year each student shall declare his major study and his program of studies thereafter shall meet the approval of the head of the department in which the major study lies. He shall complete in this major study not less than twenty-four credit hours earned in those courses prescribed for or accepted by the department toward a major study. Such work must be of at least C quality. Courses in which the grade of D is earned are accepted as electives towards graduation but are not accepted for major study.

A minor study of twelve credit hours shall be completed in another department and shall conform to the same standards set up for the major study except in number of credit hours. The selection of the minor study shall receive the approval of the head of the department wherein the major study lies.

At least one-fourth of the minimum amount of credit hours required for major studies must be earned in this University. No advanced standing in the major or minor studies is granted to students presenting credits from another institution until after he has been in residence at this University for at least one semester and then only after the completion of three credit hours in the major study at this University.

Note: Hereafter, majors or minors in Education will not be accepted towards degrees in this college. However, students registered in this college may elect those courses in Education for which they will have met the prerequisites. Students who expect to enter the teaching profession are advised to register in the College of Education.

RESTRICTION IN ELECTIVES

Not more than fifty credit hours earned in courses open to Freshmen are accepted toward a degree without a reduction in the amount of credit usually given for such courses.

PROGRAM OF STUDIES

Each student shall enroll in courses earning not less than fourteen credit hours, except for reasons presented in writing and duly approved by the Dean, and the President.

No member of this College may enroll in courses which earn more than seventeen credit hours, unless his standing for the previous semester be at least B in two-thirds of his program of studies, with no grade below C, and then only by presenting a written petition to the Committee on Student Standing, who may, in their discretion, grant permission to enroll for extra work up to a maximum of nineteen credit hours.

DEGREES

Upon recommendation of the President and Faculty, the degree of Bachelor of Arts is conferred by the Board of Regents upon those candidates who have completed the requirements for the same. (See pages 33 and 54.) If such candidates have completed a major study in Group IV, they may, upon request, receive the degree of Bachelor of Science.

GENERAL CURRICULUM

Freshmen in this College will make their programs of study conform to the following plan:

- | | |
|---|-----------|
| A. Physical Education | 1 hour |
| B. English | 3 hours |
| C. Health | 2 hours |
| D. Foreign language | 3-5 hours |
| E. Anthropology, History, Political Science or Economics, | 3 hours |
| F. Mathematics, Physics, Chemistry, Geology, or Biology | 3-5 hours |
| G. Electives | 0-4 hours |

Any subject from E or F provided that courses be chosen from a department not already represented.

Home Economics.

Music.

Practical Mechanics.

General Engineering Lectures.

Library Science.

Total 15-17 hours

In their second year, students will register for physical education and for such courses as will complete the group requirements, and they will take second courses in the subject in which they expect to complete the requirements of a major and of a minor study.

In their third and fourth years, students will give their chief attention to their major and minor studies and select for the remainder of their programs of studies those courses which are related or are of benefit to their major and minor studies.

CURRICULUM IN HOME ECONOMICS

FIRST YEAR

First Semester		Second Semester	
English (21)	3	English (22)	3
Health	2	Phys. Educ., (6)	1
Phys. Educ. (5)	1	For. Lang.	3-5
For. Lang.	3-5	Chemistry (2)	4
Chemistry (1)	4	Home Econ. (12)	3
Home Econ. (11)	3	Electives	0-3
Electives	0-3		

SECOND YEAR

First Semester		Second Semester	
Physical Educ. (55) ..	1	Physical Educ. (56) ..	1
Biology (1)	4	Biology (26)	3
Home Econ. (53)	3	Home Econ. (54)	3
Home Econ. (61)	3	Home Econ. (62)	3
Economics (15)	3	Economics (18)	3
For. Lang. or Electives	3	Chemistry (68)	3
		Electives	0-2

THIRD AND FOURTH YEARS

First Semester		Second Semester	
Physics (61)	3	Biology (92)	3
Home Econ (to complete major)		Home Econ. to complete major)	
English	3	Electives	0-9
Electives	0-9		

CURRICULUM PREPARATORY TO LAW

All law schools of high rank are now requiring a certain amount of work in the College of Arts and Sciences before admission to the study of law. The student who plans to take up the study of law should first gain a broad foundation for his later work, and should take at least two years of English, History, Government, Economics, and the languages and the sciences. The exact curriculum will depend on the requirements of the law school of which the student plans to become a member, but he should, in general, pursue the regular required course for the Freshman and Sophomore years, choosing his electives under the direction of the Dean of the College.

CURRICULUM PREPARATORY TO MEDICINE

The standard of preliminary education which is required as the minimum for admission to the study of medicine is two years of college work based on a four-year high school education. This standard has now been generally adopted by the medical colleges of the United States. The minimum requirement for admission to medical schools approved by the Council on Medical Education in the United States, in addition to the high school work specified above, is 60 semester hours, extending through two years of at least 32 weeks each (exclusive of holidays) in the College of Arts and Sciences. There are, however, a number of the leading medical schools whose admission requirements exceed that approved by the Council on Medical Education, these ranging from a minimum of 65 semester hours in some schools to a Bachelor of Arts degree in others. It is recommended that whenever possible the student should spend at least three years, i. e., six semesters, in residence in the College of Arts and Sciences before proceeding to the medical school. He should determine before registration what medical school he desires to attend, and should arrange his curriculum under the direction of the Profes-

sor of Biology to meet the requirements of that particular school.

The following subjects are included in the minimum two years of required, or the three years of recommended college work:

Required Courses:	Semester Hours
Physical Education -----	4
Chemistry -----	12-16
Biology -----	8-12
Physics -----	8
English -----	6
French or German -----	6-12
Electives -----	11-20

Courses Advised (Electives):

Mathematics, including Algebra and Trigonometry -----	6
Psychology -----	3- 6
Latin -----	6-12
Economics -----	3- 6
History -----	3- 6
Additional Chemistry -----	3- 6
Additional Biology -----	3- 6

SUGGESTIONS REGARDING INDIVIDUAL SUBJECTS

Chemistry.—Twelve semester hours is the minimum requirement, of which eight must be in general inorganic chemistry (including four credit hours of laboratory work). The remaining four hours should be organic chemistry. Those institutions specifying a requirement of more than twelve hours of chemistry recommend quantitative analysis in addition to the above.

Biology.—The eight semester hours required in this subject may consist of general biology, or zoology, or four hours each of zoology and botany, but not of botany alone. Four of the required eight hours must consist of laboratory

work. Medical schools requiring more than eight hours in this subject specify comparative vertebrate anatomy, and recommend additional work in animal histology, embryology, or animal physiology.

Physics.—It is urged that the work in physics be preceded by a course in trigonometry. Eight semester hours of physics are required.

English.—The usual six hours of college composition are required, and one three hour advanced course is advised.

French or German.—A reading knowledge of one of these languages is essential.

Electives.—Many of the medical colleges strongly advise course in psychology, mathematics, economics, history, and Latin. Unless a student plans to spend more than two years in pre-medical work, it would be inadvisable to elect courses in addition to the maximum requirements in chemistry, biology, and physics.

THE COLLEGE OF ENGINEERING

The College of Engineering offers standard courses in chemical, civil, electrical, mechanical, and geological engineering and the first two years of standard courses in mining and sanitary engineering.

The entrance requirements and requirements for graduation are equivalent to those of the engineering colleges of the leading state universities.

The curricula have been designed with, among others, the following two objectives in view: (1) To make the training during the first two years as broad and fundamental as possible, emphasizing subjects such as mathematics, physics, mechanics, economics, etc., which are common to all branches of engineering thus leaving the specialization for the last two years; (2) To include as many cultural subjects as possible commensurate with the necessity of keeping the technical training at a high standard, the purpose being to widen the mental horizon of the individual thus preparing him the better for his life as a social being.

It is also the purpose to develop the practical side of the work in conjunction with the more theoretical part of the curricula. This is done through scheduled work in adequately equipped laboratories, frequent inspection trips to various industries, and contact in the class room with faculty members who have had, besides their training as teachers, considerable experience in the industries.

PROGRAM OF STUDIES

Each student will enroll in courses earning not less than fifteen nor more than twenty credit hours, except when permitted to do so by proper authority. Permission to take less than fifteen hours may be granted by the Dean. Permission to enroll in more than twenty hours must be ob-

tained from both the Committee on Student Standing and the Dean, petition for same being presented in writing. The curricula include, besides the prescribed courses, certain hours of technical and non-technical electives, that the student may have some freedom to follow those subjects in which he is particularly interested.

REQUIREMENTS FOR GRADUATION

Candidates for the Degree of Bachelor of Science in any of the departments of the College of Engineering must complete a minimum of 148 credit hours including all prescribed courses in their respective curricula.

Electives, where prescribed, are to be chosen with the advice and consent of the head of the department concerned and the Dean.

Students required to take English 11, because of a deficiency in preparation as determined by a preliminary examination, must do so in addition to the regular courses in English 21, 22, and 65.

Students deficient in advanced algebra will make up this deficiency their first semester by taking Math. 11 instead of Math. 17 as scheduled, only five hours of the six being given credit towards graduation.

Those deficient in Solid Geometry will make up this deficiency during their first semester by including in their schedule Math. A, for which no college credit is granted.

INSPECTION TRIPS

The location of the College of Engineering in Albuquerque is particularly advantageous as Albuquerque is the industrial, financial, geographic, and railroad center of the State, and therefore offers a variety of industrial plants in all of which our students are welcome.

The most important of these plants is the large shops of the Santa Fe Railroad system. Arrangements have been

made with the officials of the railroad whereby the various classes are permitted not only to inspect the equipment in the shops but are allowed to study, as a part of their laboratory work, methods and procedure in the making of tests on boilers, engines, and the various types of machinery.

Other places and objects of interest within a few minutes travel of the University, and visited each year by the students, are two modern electrical generating plants, a gas plant, two large saw mills and planing mills, modern office-building elevator installations and heating systems. There are, also, a telephone exchange including one of the trans-continental repeater stations, a large telegraph office equipped with the printing telegraph, and modern city water and sewerage disposal systems. It may also be worthy of note that the city of Albuquerque is near the center of the new Middle Rio Grande Conservancy District in which \$12,000,000 is being spent on irrigation, drainage and flood control, no better examples of which may be found elsewhere.

Each year, in addition to these short trips just mentioned, the Junior and Senior Classes make an eight-day inspection trip through the state and to neighboring points of interest, during the first week in May, traveling from 1,000 to 1,200 miles by automobile. The men live under the usual conditions encountered by engineers in field work—sleeping in the open and preparing their own food, carried and issued by the commissary.

The entire expense of the rather exceptionally long trip averages from twenty-five to thirty dollars per student, a very small expenditure compared with those made by the students of some of the middle western colleges making such trips.

Two standard itineraries, made in alternate years, have been developed for these trips. As these are required of all Juniors and Seniors, a student, upon graduating from the College of Engineering, has visited and become ac-

quainted with most of his state. One of the itineraries is to the north, and includes the steel mill and other industries of Pueblo, the smelter at Durango, the mines of the Pecos, the stupendous mountain scenery and mountain road building of the Taos and Cimarron Canyons, the ruins of the Mesa Verde National Park, the oil wells of the San Juan Valley and the coal mines of Gallup. The other of the two itineraries covers the southern part of New Mexico, including Elephant Butte Reservoir, the lower Rio Grande Irrigation District, the mines and ore mills of the Silver City District, El Paso, with its cement plant, smelter and wood working mill, the oil fields of the Artesia district, and the wonders of the Carlsbad Cavern.

LABORATORIES AND EQUIPMENT

CHEMICAL LABORATORIES

The chemical laboratories of the University of New Mexico are equipped for teaching the standard undergraduate courses in chemistry. They occupy the entire chemistry building, including an open air laboratory in the patio of the building, and have a combined capacity of handling 240 students. The chemistry building also contains a chemical library, balance rooms, stock rooms, and preparation rooms, as well as a large lecture room.

CEMENT TESTING LABORATORY

The cement testing laboratory is equipped for the making of standard tests upon cement and concrete aggregates. The equipment consists of a Fairbanks cement testing machine, Vicat apparatus, Gilmore needles, specific gravity flasks, standard sieves and sifting machine.

HYDRAULICS LABORATORY

The hydraulics laboratory is equipped to study the flow of water in open channels, through pipe and orifices and over various types of weirs as applied to the course in the-

oretical hydraulics and courses in water supply, sewage disposal and irrigation. The equipment consists of a constant head storage tank supplied with water by two centrifugal pumps, an open channel with stilling pool at end, a weir box equipped with adjustable openings, one inch and a half to six inch pipe fitted with piezometers, gauges and Venturi meter; fire hose and nozzles, hydraulic ram, orifices, pitometer and house meters.

MATERIALS TESTING LABORATORY

The materials testing laboratory for the determination of the strength of engineering materials of construction is equipped with a Riehle universal testing machine of 100,000 pounds capacity. Tension tests are made upon timber, iron and steel; compression tests on concrete, timber, and masonry; bearing tests upon rivets and bolts; column tests upon timber and beams. A Berry strain gauge with an Ames dial is used to measure deformations on the above materials to ten-thousandths of an inch.

SURVEYING LABORATORY

The equipment for the surveying laboratory consists of one Lietz precise engineers' transit, graduated to 20 seconds of arc, equipped with a Saegmueller solar attachment, one Buff engineers' transit, one Berger engineers' transit, two Gurley light mountain transits, each equipped with a Burt solar attachment and one sextant, for differential leveling, one Lietz dumpy level, one K & E wye level, one Gurley wye level, one Lietz wye level and four Locke hand levels for plane table and topographic surveying, one Lietz alidade with Beaman arc and one Lietz alidade with vertical arc, two plane tables, one Johnson head tripod, and one tangent screw tripod, together with the accessories for the above equipment, level rods, stadia boards, range poles, slide rules, planimeters, compass and level tubes; cloth and steel tapes and drafting equipment.

ELECTRICAL ENGINEERING LABORATORY

The laboratory is equipped adequately for all standard experimental work in electrical measurements and direct and alternating current machinery.

There are twenty units of alternating current equipment aggregating 130 K W and twelve units of direct current equipment aggregating 50 K W. This equipment includes A. C. and D. C. motors, generators, distribution transformers, a welding transformer, constant current transformer, a 50,000 volt testing transformer, an oscillograph, a synchronous converter besides an adequate number of compensators, D. C. motor starters, field rheostats, slide wire resistances and loading devices. Forty-five instruments are available for measurement of voltage, current, power, energy, frequency, and power factor, together with various special purpose meters.

GEOLOGICAL ENGINEERING LABORATORY

The geology laboratory is housed in the Science Hall. It is equipped with facilities for determinative mineralogy as well as for work in physical and historical geology. There are sets of minerals, rocks and fossils, well selected and ample for illustrating the classes and types usually treated in text books and material for the individual student to examine. The museum contains numerous specimens of popular interest as well as of technical importance. The department has equipment for field work in geology, about 800 slides on geologic and geographic subjects, and a projecting lantern. The geologic library includes the publications of the U. S. Geological Survey and the bulletins of the geological surveys of the various states. In the library reading room may be found current literature and the leading geologic publications.

CURRICULA OFFERED BY THE COLLEGE OF ENGINEERING

COURSES OF STUDY FOR THE FRESHMAN YEAR COMMON TO ALL CURRICULA

Note:—In tables following the figures in the first of the columns to the right indicate the number of hours per week in class or lecture room, those in the second column indicate the number of hours per week in laboratory or drawing room, and those in the third column indicate the credit hours per semester.

First Semester

Chem. 1	Inorganic	3	3	4
Eng. 21	Rhetoric	3	0	3
Math. 17	Algebra and Trig.	5	0	5
E. E. 1	Eng. Lectures	1	0	1
P. M. 17	Drawing and Desc. Geom.	1	6	3
Hyg. 1	Hygiene Lect.	2	0	2
P. E. 1	Physical Educ.	3	0	1

19

Second Semester

Chem. 2	Inorganic	3	3	4
Eng. 22	Rhetoric	3	0	3
Math. 18	Trig. and Analytic Geom.	5	0	5
E. E. 12	Eng. Lectures	1	0	1
P. M. 18	Drawing & Desc. Geom.	1	6	3
P. M. 3	Pattern Shop	0	6	2
P. E. 2	Physical Educ.	3	0	1

19

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

For work of first year see page 69

SECOND YEAR

First Semester

Chem. 51	Qual. Anal. _____	0	10	5
Math. 53	Calculus _____	5	0	5
Phys. 51, 53	Gen. Physics _____	4	3	5
Elective	Lang. or Econ. _____	3-5	0	3-5
P. M. 3	Physical Educ. _____	3	0	1

19-21

Second Semester

Chem. 52	Quan. Anal. _____	0	6	3
Math. 54	Calculus _____	5	0	5
Phys. 52, 54	Gen. Physics _____	4	3	5
P. M. 6	Machine Shop _____	0	6	2
Elective	Lang. or Econ. _____	3-5	0	3-5
P. E. 4	Physical Educ. _____	3	0	1

19-21

THIRD YEAR

First Semester

Chem. 52	Quan. Anal. (cont'd) ____	0	4	2
Chem. 61	Organic _____	3	0	3
C. E. 105	Appl. Mechanics _____	4	0	4
M. E. 101	Heat Power _____	3	0	3
E. E. 105, 107	P. & P. of E. E. _____	2	3	3
Electives	As elected 2nd year. ____	3	0	3

18

COLLEGE OF ENGINEERING

71

Second Semester

Chem. 62	Organic -----	0	6	3
Chem. 101	Quan. Anal. -----	0	8	4
C. E. 108, 112	Str. of Materials -----	3	3	4
M. E. 102	Heat Power -----	3	0	3
E. E. 106, 108	P. & P. of E. E. -----	2	3	3
Electives	As elected 2nd year --	3	0	3

20

FOURTH YEAR

First Semester

Chem. 112	Industrial -----	2	0	2
Chem. 151	Adv. Quan, Anal. -----	0	10	5
C. E. 51, 53	Elem. Sur. -----	2	6	4
Eng. 65	Adv. Comp. -----	3	0	3
Elective	-----			4

18

Second Semester

Chem. 110	Physical -----	5	0	5
Chem. 113	Metallurgy -----	2	0	2
C. E. 110, 114	Hydraulics -----	2	3	3
C. E. 52, 54	Topographic Surveying	1	6	3
Electives	-----			6

19

Total ----- 151-155

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

For work of first year see page 69

SECOND YEAR

First Semester

C. E. 51, 53	Elem. Surveying	2	6	4
Math. 53	Calculus	5	0	5
Physics 51, 53	General Physics	4	3	5
Econ. 21	Prin. of Econ.	3	0	3
P. E. 3	Physical Educ.	3	0	1
				18

Second Semester

C. E. 52, 54	Top. Surveying	1	6	3
Math. 54	Calculus	5	0	5
Physic 52, 54	Gen. Physics	4	3	5
P. M. 6	Machine Shop	0	6	2
Econ.	Elective	3	0	3
P. E. 4	Physical Educ.	3	0	1
				19

SUMMER CAMP

C. E. 107	Surveying	0	3	1
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THIRD YEAR

First Semester

C. E. 109	Topographical Drawing	0	3	1
C. E. 101, 103	R. R. Eng.	3	3	4
C. E. 105	App. Mechanics	4	0	4
M. E. 101	Heat Power	3	0	3
E. E. 105, 107	P. & P. of E. E.	2	3	3
Elective				3
				18

COLLEGE OF ENGINEERING

73

Second Semester

C. E. 108, 112	Str. of Mat. -----	3	3	4
C. E. 110, 114	Hydraulics -----	2	3	3
C. E. 156	Highway Eng. -----	3	0	3
M. E. 102, 104	Heat Power -----	3	3	4
E. E. 106, 108	P. & P. of E. E. -----	2	3	3
Elective				2

19

FOURTH YEAR

First Semester

C. E. 159	Th. of Struct. -----	2	6	4
C. E. 161	Water Supply -----	3	0	3
C. E. 167	Rein. Concr. -----	3	0	3
Eng. 65	Adv. Comp. -----	3	0	3
Geol. 1	Phys. Geol. -----	3	3	4

17

Second Semester

C. E. 152	Graph. Stat. -----	1	6	3
C. E. 164	Sewerage -----	3	0	3
C. E. 166	San. Design -----	0	3	1
C. E. 168	Masonry -----	2	0	2
C. E. 170	Cont. & Spec. -----	2	0	2
C. E. 172	Irrigation -----	2	0	2
C. E. 182	Seminar -----	2	0	2
Electives				3

18

Total ----- 148

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

For work of first year see page 69

SECOND YEAR

First Semester

Math. 53	Calculus -----	5	0	5
Phys. 51, 53	Gen. Physics -----	4	3	5
C. E. 51, 53	Elem. Surveying -----	2	6	4
Econ. 21	Prin. of Econ. -----	3	0	3
P. E. 3	Physical Educ. -----	3	0	1

18

Second Semester

Math. 54	Calculus -----	5	0	5
Phys. 52, 54	General Physics -----	4	3	5
Physics 111	Elect. & Magnetism -----	2	0	2
Physics 113	Elect. Measurements --	0	6	2
Elective	Economics -----	3	0	3
P. E. 4	Physical Educ. -----	3	0	1

18

THIRD YEAR

First Semester

E. E. 101, 111	Direct Cur. Mach. -----	4	6	6
C. E. 105	App. Mechanics -----	4	0	4
P. M. 6	Machine Shop -----	0	6	2
M. E. 101	Heat Power -----	3	0	3
Elective	-----	3	0	3

18

COLLEGE OF ENGINEERING

75

Second Semester

E. E. 102, 112	A. C. Theory -----	4	6	6
C. E. 108, 112	Str. of Materials -----	3	3	4
C. E. 110, 114	Hydraulics -----	2	3	3
M. E. 102, 104	Heat Power -----	3	3	4
Elective	-----	3	0	3

20

FOURTH YEAR

First Semester

E. E. 151, 155	A. C. Machinery -----	4	6	6
E. E. 161	Electrical Design -----	1	6	3
E. E. 194	Communications -----	3	0	3
Geol. 1	Phys. Geol. -----	3	3	4
Eng. 65	Adv. Comp. -----	3	0	3

19

Second Semester

E. E. 152, 156	A. C. Machinery -----	4	6	6
E. E. 162	Elec. Design -----	1	6	3
E. E. 182	Seminar -----	2	0	2
E. E. 192	Power Plant Eng. -----	3	0	3
E. E. 196	Transmission -----	3	0	3
C. E. 170	Contracts & Specif. -----	2	0	2

Total ----- 150

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

For work of first year see page 69

SECOND YEAR

First Semester

Geol. 1	Physical Geol. -----	3	3	4
Math. 53	Calculus -----	5	0	5
Phys. 51, 53	General Physics -----	4	3	5
C. E. 51, 53	Elem. Surveying -----	2	6	4
P. E. 3	Physical Educ. -----	3	0	1

19

Second Semester

Geol. 2	Hist. Geol. -----	3	3	4
Math. 54	Calculus -----	5	0	5
Phys. 52, 54	Gen. Physics -----	4	3	5
C. E. 52, 54	Top. Surv. -----	1	6	3
Geol. 54	Geog. of North America	2	0	2
P. E. 4	Physical Educ. -----	3	0	1

20

THIRD YEAR

First Semester

Geol. 51	Mineralogy -----	1	3	2
E. E. 105, 107	P. & P. of E. E. -----	2	3	3
M. E. 101	Heat Power -----	3	0	3
Elective	Econ. or Lang. -----	3-5	0	3-5
C. E. 105	App. Mechanics -----	4	0	4
Eng. 65	Adv. Comp. -----	3	0	3

18-20

Second Semester

Geol. 52	Mineralogy	1	3	2
E. E. 106, 108	P. & P. of E. E.	2	3	3
C. E. 110, 114	Hydraulics	2	3	3
C. E. 108, 112	Strength of Mat.	3	3	4
Elective	Econ. or Lang.	3-5	0	3-5
Geol. 108	Struct. Geol.	2	3	3

 18-20

FOURTH YEAR

First Semester

Geol. 105	New Mexico Geol.	0	6	2
Chem. 51	Qual. Anal.	0	10	5
Chem. 112	Industrial Chem.	2	0	2
Geol. 107	Petrology	2	3	3
Geol. 101	Econ. Geol.	3	0	3
Elective	3	0	3

 18

Second Semester

Geol. 106	Geol. Mapping	0	6	2
Chem. 52	Quan. Anal.	0	8	4
Chem. 110	Physical Chem.	5	0	5
Geol. 102	Econ. Geol.	3	0	3
Elective			5

 19

 Total 150-154

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

For work of first year see page 69

SECOND YEAR

First Semester

Math. 53	Calculus -----	5	0	5
Phys. 51, 53	Physics -----	4	3	5
C. E. 51, 53	Surveying -----	2	6	4
Econ. 21	Economics -----	3	0	3
M. E. 51	Machine Drawing -----	0	6	2
P. E. 3	Phys. Educ. -----			1

20

Second Semester

Math. 54	Calculus -----	5	0	5
Phys 52, 54	Physics -----	4	3	5
P. M. 6	Machine Shop -----	0	6	2
Econ.	Elective -----	3	0	3
M. E. 52	Empirical Design -----	0	6	2
M. E. 54	Materials -----	2	0	2
P. E. 4	Phys. Educ. -----			1

20

THIRD YEAR

First Semester

M. E. 101	Thermo-dynamics -----	3	0	3
M. E. 121	Seminar -----	1	0	1
E. E. 105, 107	P. & P. of E. E. -----	2	3	3
C. E. 105	App. Mechanics -----	4	0	4
M. E. 113	Rational Design -----	2	6	4
Eng. 65	Adv. Comp. -----	3	0	3

18

Second Semester

M. E. 102.	Thermo-dynamics	3	0	3
M. E. 122	Seminar	1	0	1
E. E. 106, 108	P. & P. of E. E.	2	3	3
C. E. 108, 112	Strength of Materials	3	3	4
M. E. 114	Mechanisms	2	6	4
C. E. 110, 114	Hydraulics	2	3	3
				<hr/>
				18

FOURTH YEAR

First Semester

M. E. 103	Power Plants	3	0	3
M. E. 105	M. E. Lab.	1	6	3
M. E. 115	Machine Design	2	9	5
M. E. 123	Seminar	1	0	1
M. E. 133	Technical Option	3	0	3
Elective		3	0	3
				<hr/>
				18

Second Semester

M. E. 106	Int. Comb. Engine	3	0	3
M. E. 118	Plant Design	0	6	2
M. E. 116	Machine Design	3	3	4
M. E. 124	Seminar	1	0	1
M. E. 134	Technical Option	3	0	3
M. E. 132	Industrial Management	3	0	3
Elective				3
				<hr/>
				19

Total

 151

COLLEGE OF EDUCATION

On March 12, 1928, the Board of Regents on the recommendation of the faculty established the College of Education. The demand for educational training has become so great that it was thought wise to change from a department to a separate professional college to serve in training the personnel of the elementary and secondary schools of the state. By the establishment of this professional school, the University should be able to organize and set up better standards than those carried on in a department.

PURPOSE OF THE COLLEGE OF EDUCATION

The purpose of the College of Education is to correlate the forces of the University in order to meet the needs of the state in the preparation, training and certification of teachers, supervisors, and administrative school officers. The College sets for itself these tasks: the thorough training of high school teachers; the thorough training of supervisory and administrative officers; the provision of courses in the various fields of Education and opportunities for research. Special consideration will be given to the student who must drop out of the College of Education at the end of the second year to teach before he can complete the curriculum for the bachelor's degree.

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 which he expects to teach; and that this training should be supplemented by professional education designed to give a knowledge of the pupils to be

taught, the problems to be met in the art of 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 subject he intends to teach, the student majoring in such special subject and taking Education as an auxiliary study. For the supervisors and school executives, however, it is advisable to major in Education.

Graduates from the College of Education who major in Education receive the degree of Bachelor of Science in Education. Those who major in other subjects receive the degree of Bachelor of Arts in Education.

1. Students preparing to teach should follow the courses as outlined. A total of 128 semester hours is required for graduation.

2. A student preparing to teach in the secondary schools must select as a major some one subject which he expects to teach, taking not less than twenty-four hours accepted toward a major by the department concerned, and a minor of not less than twelve semester hours. Such work must be of at least C quality. Courses in which the grade of D is earned are accepted as electives toward graduation but are not accepted for a major or a minor study. Wherever possible the student should secure a second minor of at least twelve semester hours.

3. In addition to the required work in majors and minors, professional courses in Education are required as outlined in the various curricula.

4. Students who desire to prepare for supervisory or administrative positions should major in Education and minor in some other subject which has bearing upon their chosen field of work.

5. The quantitative requirement of 128 hours is based upon the average quality of work done. This amount is reduced slightly for higher grades than C and is added to for lower grades than C. (See page 33). Ninety hours.

of the total required for a degree must be of C grade or better.

6. The minimum amount of credit to be obtained in residence is thirty semester hours.

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 curriculum of each student is directed by a series of requirements which distributes his work widely enough to insure a general education and at the same time calls for concentration in two or three lines as an introduction to specialization.

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 by competent professors in this field.

APPOINTMENT BUREAU

An Appointment Bureau is maintained by the University, one function of which is to assist students and graduates of the University to obtain positions in the teaching profession. The bureau aims to secure and 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, or the request of the candidates concerned. 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 Appointment Bureau will recommend the best available person for the position. The University reserves the right of refusing to extend its co-operation to students who apply for positions for which they are manifestly unfit.

The Appointment 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 Appointment Bureau. Registration must be renewed yearly, preferably during February or March. Communications should be addressed to the Appointment Bureau, University of New Mexico, Albuquerque, New Mexico.

REQUIREMENTS FOR ADMISSION TO COLLEGE OF EDUCATION

The quantitative requirements for admission to the College of Education are the same as those for the College of Arts and Sciences. (See page 21.)

The following points will be considered of applicants for admission to the College of Education.

1. Good moral character.
2. Physical fitness.
3. Intellectual fitness.
4. Personal qualities necessary for success in some field of service in Education.

Students may also enter the College of Education with advanced standing from state teachers' colleges or from other institutions; but such students must have on their previous work of college grade an average of at least 80% or equivalent where 70% is the passing mark. Applicants who cannot meet this requirement may be admitted on trial. Graduates of the standard two-year curriculum of state teachers' colleges who have graduated previously from a four year high school (meeting our requirements for en-

trance to freshman class) are accorded 62 semester hours credit including 16 hours in Education and Psychology. Work done after completion of a two year normal school course will be considered on its merits.

If a student intends to prepare for teaching and to enter the College of Education, the sooner he does so the better in order that he may be vocationally guided and be enabled to meet all the requirements for graduation and make the necessary professional adjustments. It is difficult and almost impossible to do this unless the student enrolls in the College of Education before the senior year.

Those who do not enter the College of Education until the beginning of their senior year must have had at least 12 hours of Education and Psychology:

CURRICULUM FOR STUDENTS PREPARING TO TEACH IN HIGH SCHOOL

Curriculum for students preparing to teach subjects in high schools and leading to the degree of Bachelor of Arts in Education:

FRESHMAN YEAR

First Semester		Second Semester	
English (Freshman		English (Freshman	
Comp.) -----	3	Comp.) -----	3
Education (Introd. to		Classroom Org. &	
Educ.) -----	2	Mang't. -----	3
Science -----	3-5	Science -----	3-5
Social Science -----	3	Social Science -----	3
Foreign Language ----	3-5	Foreign Language ----	3-5

SOPHOMORE YEAR

First Semester		Second Semester	
English Literature ---	3	English Literature ---	3
Psychology (General) 3		Educ. (Educ. Psych.) 3	

N. M. History & Civics	3	Social Science	3
Language	3	Languages	3
Electives	3	Electives	3

JUNIOR YEAR

First Semester		Second Semester	
Educ. (History of Educ.)	3	*Teachers Course	3
Majors and minors	7-8	Prin. of Teaching	3
Electives	3-6	Majors and Minors	5-6
Prin. of Sec. Education	3	Electives	3-6

SENIOR YEAR

First Semester		Second Semester	
Majors and minors	5	Educ. (Practice Teach.)	1-5
*Teachers course	3	Majors and minors	3
Electives	8	Electives	8

GROUP REQUIREMENTS FOR DEGREES

1. Demonstrated proficiency in English, oral and written, as evidenced by a minimum of 12 semester hours; six credit hours must be earned in English 21 and 22, and 6 additional credit hours must be earned in courses numbered above 50.

2. Some knowledge of the social studies as evidenced by a minimum of 9 semester hours of collegiate work in this field. Not more than 6 hours from the same department may be applied to this group requirement. When a student has been admitted with less than one unit in Social Sciences, the requirement is raised 3 credit hours.

3. Some knowledge of mathematics and sciences as evidenced by a minimum of 12 semester hours from this group. Not more than 8 hours from the same department.

*According to advice of Dean.

may be applied to this group requirement; when a student has not earned credit in either mathematics or science in high school, the requirement is raised in his case to 18 credit hours.

The subjects contained in this group are:

Biology

Chemistry

Geology

Home Economics (food courses only)

Mathematics

Physics

Psychology (Courses 51, 52, 121 and 122).

4. A foreign language or substitute.

(a) When the student has been admitted with at least two units in one foreign language, he must earn either 6 credit hours in the same language, or 12 credit hours if he elects to begin another language.

(b) When the student has been admitted with less than two units in one foreign language, the requirement is raised to 18 credit hours.

(c) (1) Administrators and supervisors may substitute an equal number of hours of professional subjects.

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

5. One major and minor as indicated under that heading.

6. The professional work as indicated under that heading.

The student should take as much as possible of the required work (in the different groups) in the freshman and sophomore years, and concentrate on his professional work and on his major, and minor in the junior and senior year.

CURRICULUM FOR ADMINISTRATORS AND SUPERVISORS

The following courses will satisfy the requirements for a major study in Administration or Supervision. Candidates will satisfy requirements in a minor study.

- 3 Hours of Educational Psychology.
- 3 Hours of History of Education.
- 3 Hours of Statistical Methods.
- 3 Hours of Intelligence Tests.
- 3 Hours of Educational Tests.
- 3 Hours of City School Administration.
- 3 Hours of State School Administration.
- 3 Hours of Principal and his School.
- 3 Hours of Supervision of Elementary Education.
- 3 Hours of Educational and Vocational Guidance.

CURRICULUM FOR TWO YEAR COURSE

Students who plan on leaving the University at the end of their second year to teach in the elementary schools of New Mexico should take the following courses in Education.

FRESHMAN YEAR

First Semester		Second Semester	
English (Fresh. Comp.)	3	English (Fresh. Comp.)	3
Educ. (Intro. to Educ.)	2	Classroom Org. &	
Science	3-5	Mang't.	3
Social Science	3	Science	3-5
Foreign Language	3-5	Social Science	3
		Foreign Language	3-5

SOPHOMORE YEAR

First Semester		Second Semester	
English Literature	3	English Literature	3
Psychology (General)	3	Educ. (Educ. Psych.)	3

N. M. Hist. & Civics _	3	Practice Teaching ____	3
Language _____	3	Language _____	3
Supv. El. Ed. I. _____	3	Supv. El. Ed. II. ____	3

STANDARD

Graduation from the College of Education meets the requirements of the State Board of Education in New Mexico for certification of high school teachers, and also the recommendations of the North Central Association of Secondary Schools and Colleges as to professional subjects in Education and the proper selection of subject matter courses for purposes of high school teaching. On account of the tendency in the various states to increase the number of credit hours in Education for certification, students are advised to secure credit in not less than 21 semester hours in Education including General Psychology.

TEACHING FELLOWSHIP

A fellowship in Education is available for a competent and personally qualified graduate student, who has had some successful teaching experience. The fellowship carries a regular stipend of \$500, not including tuition, and calls for approximately half-time service, often making it possible for deserving graduates to continue in graduate study as candidates for the advanced degree.

GRADUATE SCHOOL

For regulations governing work in the Graduate School, see pages 94 to 100, and the Graduate School Bulletin.

EXTENSION DIVISION

The Extension Division of the University of New Mexico is under the supervision of the College of Education. A special bulletin has been issued giving the courses offered in the various departments of the colleges of the University. The Extension Division offers correspondence courses for regular college credit and in this way meets the needs of qualified men and women who are unable to attend the University of New Mexico. These courses are especially adapted for those who contemplate entering college at some future date, for students who are temporarily forced to leave college, and for teachers of the public schools who have had some normal school work or college training, or are high school graduates, and either wish to work toward a degree or to better equip themselves for their profession.

For further information, address the Director of the Extension Division, University of New Mexico.

CERTIFICATION OF TEACHERS

For credentials obtained on examination and graduation from High School, see the rules and regulations obtainable from the State Department of Education. Credentials requiring a certain number of semester hours of collegiate work are here set forth. The College of Education assumes no responsibility for recent changes. Certificates to teach in the state are issued by the State Department of Education.

1. The Elementary Certificate. (Valid for teaching in the elementary schools.)

Second Grade on Credentials. Granted to applicants who are graduates of a four-year accredited high school covering fifteen units of work which shall include one-half unit in each of the following: U. S. History, U. S. Civics, Physiology and one Industrial Subject,

(Domestic Science, Manual Training, Agriculture or a Commercial Subject) and at least one-third unit in New Mexico History and Civics. An examination grade of 75% or above may be substituted for credit in New Mexico History and Civics but for no other subject. This certificate is valid for two years and is subject to one renewal provided the holder thereof is engaged in active school work and attends at least one session in some accredited institution during the life of the certificate and secures at least six semester hours or nine term hours of college credit.

First Grade on Credentials. Granted on same qualifications as second grade on credentials, and in addition, 24 term hours or 16 semester hours of college or normal work one-half of which must be in Education, and nine months' successful teaching experience, which must be properly certified. This certificate is valid for three years and is subject to renewal on the same conditions as the second grade on credentials. It may be further renewed under such regulations as the State Board may prescribe.

Five Year Professional. Granted to applicants who present credits covering graduation from a four-year accredited high school comprising at least 15 units of secondary work, and 90 term hours or 60 semester hours of work in a standard university, college or normal school. At least 16 semester hours or 24 term hours of the latter must be in Education. Credit or passing grade in New Mexico History and Civics is also required. This certificate is valid for five years and is subject to one renewal.

Life (Elementary). Granted on the same credentials as the Five Year Professional Certificate except that 135 term hours or 90 semester hours of university, college or normal work are required, and 45 months' teaching experience, 9 months of which must have been in New Mexico.

Kindergarten. Granted to applicants who are graduates of reputable kindergarten institutions and who present credit or passing grade in New Mexico History and

Civics. The certificate may also be secured by passing the examination in kindergarten work and in New Mexico History and Civics with a grade of 75% or above in each. This certificate is valid for three years. The one on credentials may be renewed indefinitely provided the holder is engaged in active school work. The one on examination may be renewed upon the same conditions as the First Grade Certificate by Examination.

2. Junior High School Certificates.

Junior High School. Granted on the same credentials as the Five-Year Professional Certificate for elementary grades, and in addition, 18 months' teaching experience, properly certified, nine months of which must have been in New Mexico. This certificate is valid for five years in a one, two or three year high school, and is subject to one renewal.

3. High School Certificates.

High School. Granted to applicants who present credentials covering graduation from an approved high school comprising at least 15 units of work, or college entrance examinations covering same, and graduation from a standard college, university or normal school with a B. A. or B. S. degree or their equivalents, granted on a minimum of 120 semester hours or 180 term hours, at least 12 semester hours or 18 term hours of which must be in Education, and credit or passing grade in New Mexico History and Civics. This certificate is valid for five years in any high school in the state and may be extended under such conditions as the State Board may prescribe.

Life (High School). Granted on the same credentials as the five-year High School Certificate and in addition thereto, evidence of 45 months' successful teaching experience in high schools, nine months of which must have been in New Mexico.

SPECIAL CERTIFICATES

Special certificates are granted to teachers of special subjects, such as Home Economics, Manual Training, Agriculture, Physical Training, Music, Arts, etc. The requirements are: high school graduation; 30 semester hours of college training, or the equivalent, 20 semester hours of which must be in the special field of subjects for which the applicant desires certificates; and credit or passing grade in New Mexico History and Civics. This certificate is valid for three years, and entitles the holder to teach in any grade, but only the subjects designated. It is renewable upon evidence that the holder thereof is doing satisfactory work and making such professional advancement as is satisfactory to the State Board of Education.

Vocational Agriculture and Vocational Home Economics. Granted to applicants who are to teach these subjects under the Smith-Hughes Act. Requirements are B. S. degree from a standard college or university which must include at least 15 semester hours in Education. New Mexico History and Civics is required as stated above, and the certificate is renewable upon the same conditions.

NOTES

(a) Applicants for certificates must be at least 18 years of age.

(b) Every teacher shall present his certificate to the school authority employing him before assuming the duties of a school teacher. (From section 1101, New Mexico School Code.)

(c) Applicants for certificates on credentials should file transcripts of both high school and college credits, properly signed by principal or registrar of the schools attended.

(d) The certification fee is \$1.00 in all cases except

a five-year certificate, which is \$5.00, and a life certificate, which is \$10.00.

(e) Certificates issued under rulings made prior to January, 1923, cannot be renewed, but applicants must qualify under the new law upon the expiration of such certificates. Holders of unexpired certificates issued upon examination grades will be given credit for all such grades, but normal school or college credits which were substituted for examination grades will not be excepted.

(f) All grades of 90% or above from an unexpired second grade certificate, issued under either the old or new ruling, may be applied on a first grade certificate but cannot be used on another second grade.

(g) Grades of 75% and above may be carried for one current year and applied on a certificate the following year providing they have not been used on any certificate.

(h) All subjects accepted as Education by accredited colleges will be accepted as such by this department on a certificate on credentials.

(i) The maximum amount of college credit that will be accepted for attending an 8 weeks' summer session at normal school or college is 10 semester or 15 term hours. This is also the maximum amount of credit that will be accepted through correspondence study in one current year.

THE GRADUATE SCHOOL

HISTORY AND ORGANIZATION

Previous to 1919, graduate work at the University of New Mexico was in charge of the Committee on Graduate Study. In 1919 the Graduate School was established and a dean appointed. This organization continued until 1925, when the name was changed to the Graduate Division, and the supervision of the work was entrusted to a committee known as the Committee on Graduate Instruction. In January, 1927, the organization was again changed by the appointment of a director of the Graduate Division. In December, 1927, the word "School" was substituted for "Division." The organization now consists of the Director of the Graduate School, the Committee on Graduate Instruction, and the Graduate Faculty.

The Committee on Graduate Instruction consists of the Director of the Graduate School as chairman, and five members appointed by the President of the University. The Graduate Faculty consists of the members of the University Faculty who offer instruction in approved courses of graduate grade.

ADMISSION

Graduates of the University of New Mexico are admitted to the Graduate School upon application.

Graduates of other approved institutions maintaining standards equal and similar to those of the University of New Mexico are admitted upon presentation of a satisfactory transcript of previous academic record.

A graduate of an institution not approved may be admitted to the Graduate School, provided that his college course, when checked, entitles him to not less than one hundred and twenty-four semester hours of acceptable quality.

A student in one of the undergraduate colleges who lacks not more than six semester hours of completing the requirements for the bachelor's degree may be enrolled in the Graduate School for enough work to complete his schedule.

Students are admitted to the Graduate School by the Director, to whom application for admission should be addressed.

Admission to the Graduate School is not to be considered as equivalent to candidacy for a degree. A graduate student who wishes to become a candidate for a degree must make special application as provided for under "admission to candidacy."

REGISTRATION AND ENROLLMENT

Students who have been admitted to the Graduate School by the Director supply the Registrar with the data called for on the census card and receive enrollment cards.

Students planning to become candidates for advanced degrees will present the enrollment cards to the Director who will offer advice in the selection of majors and minors.

Students planning to become candidates for advanced degrees will select a major study in which they will do approximately two-thirds of their work, and a minor study in which they will do the remainder. By an agreement between the major professor and the Director of the Graduate School the work may all be done in the major field.

After students have selected their major and minor studies they will enroll with the major professors first, and then with the minor professors.

After students have enrolled with their major and minor professors, they will present their cards to the Director for final approval.

Students who do not expect to become candidates for advanced degrees may enroll with the Director for any work for which they have the necessary preparation.

Graduate students who expect to become candidates for advanced degrees should limit their enrollment to fifteen hours per semester:

In general, enrollment for credit is not accepted after Saturday of the second week.

Graduate students registering after Wednesday of the first week are subject to the late registration fee of five dollars unless excused by the Director.

AMOUNT AND DISTRIBUTION OF WORK

MAJORS AND MINORS

A major and a minor subject of study should be chosen by each candidate for the master of arts degree, in conference with the Director of the Graduate School. The choice of the minor subject must be approved by the professor in charge of the major subject. By an agreement between the major professor and the Director of the Graduate School the work may all be done in the major field.

Thirty semester hours of graduate work are required for the master of arts degree. Approximately eighteen hours should be in the major study and twelve in the minor study. The eighteen hours in the major study include the thesis which shall not represent more than six semester hours.

Undergraduate preparation for a major or a minor shall in every case be determined by the professor concerned. In general, the amount shall be the equivalent of that required in this University. For further information on undergraduate requirements see "Departments of Instruction."

CHARACTER AND QUALITY OF GRADUATE WORK

Although the amount of work for the advanced degree is specified for convenience in terms of credits hours, this does not mean that simply further time spent in undergraduates class exercises is all that is required to earn the degree. The graduate student is expected to develop initiative, power of thought, and research in his major field.

A graduate student may count no course with a grade below C, and he must have an average of B in both major and minor subjects.

A graduate student must receive an average of B in the work of any semester or summer session to be eligible for reregistration.

RESIDENCE AND ADVANCED STANDING

The Committee on Graduate Instruction may allow credit for work done in other institutions, but in no case may advanced standing reduce the residence requirement for the master of arts degree to less than one year. A year's residence means two full semesters unless otherwise specified.

A student who is deficient in his general training or in the specific preparation outlined by each department as prerequisite to advanced work must expect to take a longer time than the specified minimum.

For the master of arts degree, not more than nine semester hours will be allowed for work done elsewhere, and this only after the student has done satisfactory work in residence for one semester.

GRADUATE WORK IN THE SUMMER SESSION

Except for differences in fees and residence, the requirements for the summer session are the same as in the

regular year. The summer session offers nearly the same opportunities in most departments as are offered in the regular year, and in some departments the opportunities are greater than at other times.

The residence requirement for the master of arts degree may be met by attendance for four full summer sessions of eight weeks each or one semester and two summer sessions.

A student wishing to work towards a master of arts degree in summer sessions should apply for admission to the Graduate School, if possible, before the beginning of his first summer session.

GRADUATE WORK BY EXTENSION

A graduate student who has done satisfactory work in residence may take not to exceed seven semester hours by extension, provided the consent of the Director and of the department concerned has been obtained. In no case however, may work done by extension reduce the residence requirement to less than two full semesters, or one summer session and one semester, or three summer sessions.

The requirement of satisfactory work in residence before graduate work by extension is permitted, may be waived, with the consent of the department involved, and with the approval of the Committee on Graduate Instruction.

A student who is deficient in his preparation for graduate work may remove such deficiency, when possible, by extension work without the residence requirement.

DEGREES OFFERED

The Graduate School of the University of New Mexico offers only the degree of master of arts. A properly qualified student holding either the degree of bachelor of arts

or the degree of bachelor of science may proceed to the master of arts degree.

ADMISSION TO CANDIDACY

A graduate student who wishes to become a candidate for the master of arts degree should make formal application before the beginning of his last semester, or before the beginning of his third summer session. This application must be on a blank form obtained from the Director, and must be signed by the professors in charge of the major and minor subjects, certifying that the candidate's work is satisfactory and approving the applicant.

A graduate student who wishes to become a candidate for the master of arts degree should file with the Director of the Graduate School two additional blank forms obtained from the Director. One should contain all the graduate courses completed, and those to be taken in the major field, and should be approved by the major professor. The other should contain all the graduate courses completed and those to be taken in the minor field, and should be approved by the minor professor.

THESES AND EXAMINATIONS

As a part of his major work, the candidate must submit to the Committee on Graduate Instruction a thesis which shall give evidence of sound method and of capacity for research. This thesis must be approved by the major professor and by the Committee on Graduate Instruction. The finished thesis should be in the hands of the Committee on Graduate Instruction not later than May tenth.

The candidate must pass a final examination, oral, written, or both, conducted by the professors in charge of the major and minor subjects, and other members of the Graduate Faculty appointed by the Director of the Grad-

uate School in consultation with the major and minor professors.

GRADUATE COURSES OF STUDY

The courses in the University are divided into four groups as follows:

First, those numbered 1-50 are normally open to freshmen.

Second, those numbered 51-100 are normally open to Sophomores.

Third, those numbered 101-200 are open to advanced undergraduate and graduate students.

Fourth, those numbered above 200 are primarily for graduate students.

Not all the courses listed are available at any one time. Many of them are given in alternate years. Other courses than those scheduled may be arranged to meet the special needs of students of ability.

COURSES IN DEPARTMENTS OF INSTRUCTION

DEPARTMENT OF ARCHAEOLOGY AND ANTHROPOLOGY

EDGAR L. HEWETT, D. Sc., LL. D., Professor.

*MAMIE R. TANQUIST, M. A., Instructor.

REGINALD G. FISHER, B. S., Graduate Assistant.

Major Study. A major in this department consists of a minimum of 24 hours in addition to Anthropology 1. Correlative courses should be selected, with the advice of the head of the department, in Biology, Geology, History of the Southwest and the Spanish language. Freehand drawing is essential.

Minor Study. A minor consists of 12 hours or more in addition to course 1.

Equipment. The collections and equipment of the Museum of New Mexico are at the disposal of the University. These combined resources afford exceptional facilities for both undergraduate and graduate work.

Field School. The summer Field School, in cooperation with the School of American Research of the Archaeological Institute of America, is a unique feature of this Department. A class exclusively for graduate and advanced students is held for six weeks in June and July in Chaco Canyon for the excavation of ancient ruins, study of southwestern archaeological problems, intensive instruction and training in field technique. During the month of August, a class, open to undergraduates and a limited number of auditors, is held at Battleship Rock camp in the Jemez Mountains. Here students may witness and participate in the excavations and carry a full program of lecture, seminar and field laboratory work. (See special Field School Bulletin.)

*Beginning January, 1929.

PRIMARILY FOR UNDERGRADUATES

1. *General Anthropology.* Physical anthropology; man's origin, antiquity, evolution; dispersion, variations, present development. Culture history; outlines of culture growth, development of man's arts, industries, social structure, languages, beliefs and ceremonies. 5 credit hours.
51. *Archaeology of the Old World.* Egypt, Mesopotamia, Syria, the Hittites, Greece, Rome, Carthage. 2 credit hours. (Not given in 1929-30.)
61. *American Archaeology.* The ancient communities of the Pueblo Plateau interpreted through study of the physiographic conditions, the ancient cultural remains, and the surviving Pueblo Indians; Aztec Mexico; the ancient Maya cities of Central America. 2 credit hours.
62. *American Archaeology.* Study of material from the excavations in the Southwest and preparation of the same for future investigation and exhibition. Comparative study of ancient and modern Pueblo cultural material. This course is especially designed to prepare students for the field courses in the Summer School. 2 credit hours.
82. *Social Anthropology.* Primitive society; social activities in the stages of savagery and barbarism; the beginnings of social organization and integration. 3 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

141. *Sociology.* Elements of Social Theory; methods and problems of sociology; evolution and structure of society; social laws and processes. 3 credit hours.
- 161, 162. *American Archaeology.* Advanced courses in the same fields as 61, 62.

COURSES IN DEPARTMENTS OF INSTRUCTION 103

FOR GRADUATES ONLY

- 201A, B, C, *Research Course in Southwestern Archaeology and Ethnology*. A denotes Summer Field Course, B the fall, and C the spring semester. 3 credit hours.
- 251A, B, C, *Research Problems*. Directed investigation of assigned problems applied on the thesis requirement. 2 or more credit hours.

DEPARTMENT OF ART

DOROTHEA FRICKE, Instructor.

Major Study. A major study consists of Art 15, 16, 55, 56, 115, 116 and 12 additional hours which may include Engineering Drawing (P. M. 17.)

Minor Study. Art 15, 16, and 12 additional hours.

15. *Color Theory and Design*. A study of color with reference to its scientific background and artistic use, combined with a study of the fundamental principles of design. 3 credit hours.
16. *Perspective and Composition*. Practical application of the fundamental principles of perspective and of composition to drawing and design. 3 credit hours.
51. *History of Painting*. Principal artists of Italian, Flemish, Dutch, German, Spanish, French, and American Schools are studied. 2 credit hours.
- 55, 56. *Figure Drawing and Head Life*. Artistic Anatomy combined with figure drawing and head life from memory, imagination, casts and from posed models. Prerequisite: Art 16. 3 credit hours.
62. *Applied Design*. Study of design and its practical application to stenciling, decorative leather, batik, and basketry. Prerequisite: Art 15. 3 credit hours.
81. *Costume Design*. A study of historic dress and of the principles underlying the designing of costume

for different types and occasions. Problems in selecting and designing. Prerequisite: Art 15. 3 credit hours.

95. *Methods of Teaching Art.* Includes drawing and methods for grades one to eight. 2.5 credit hours. (Given only during summer session.)

- 115-116. *Drawing and Painting.* Charcoal, water color and oil work, from still-life, landscape, and figure subjects. Prerequisite: Art 56. 3 credit hours.

DEPARTMENT OF BIOLOGY

EDWARD F. CASTETTER, Ph. D., Associate Professor.

HELEN E. MURPHY, Ph. D., Associate Professor.

*CAROLYN ASPLUND, B. A., Graduate Assistant.

**SARAH LOUISE COOK, Graduate Assistant.

The Department of Biology offers instruction in many lines of scientific endeavor pertaining to plant and animal life. The work is organized from four different standpoints: to provide training along cultural lines for students majoring in Liberal Arts subjects other than biology, to furnish pre-medical instruction, to provide foundational work for home economics, and for students whose major interest is biology. The training prepares men and women for teaching biology, and for research in various phases of the subject.

The new Biology Building which houses the department is modern and well equipped. There is a large freshman laboratory with facilities for seventy-two students, a laboratory for advanced classes, a research laboratory, lecture rooms, and a germinating room.

The field school in Biology, conducted during the month of August, affords excellent opportunity for instruction and research along lines to which the State is peculiarly adapted, embracing plant and animal ecology, systematic botany and systematic zoology.

Major Study. A major study consists of 24 credit hours in courses above freshman grade.

Minor Study. 12 credit hours in courses above freshman grade.

Seminar. All students pursuing majors and minors in the department are required to enroll in seminar courses Numbers 199 and 200.

*Resigned January, 1929.

**Beginning January, 1929.

PRIMARILY FOR UNDERGRADUATES

1. *General Zoology.* For Pre-Medical, Home Economics and other students, who plan to take additional courses in Biology. Designed to acquaint the student with the fundamental structures, processes and principles of animal life and provide training in laboratory methods. Two lectures and two laboratory periods per week. 4 credit hours.
- 5-6. *General Biology.* A survey in condensed form of the field of biology, emphasizing fundamental principles common to all living things. Phases of biology are considered which are of greatest cultural value in contributing to a liberal education for the general student. Also, those students who wish to proceed from General Biology to more specialized work in botany or zoology will find this subject serves as a foundation and provides a perspective which could be secured in no other course. Two lectures and two laboratory periods per week. 4 credit hours.
7. *Principles of Biology.* A night course acquainting the student with the underlying principles and inter-relations of plant and animal life, with a view to furnishing a cultural appreciation of the field of biology. Intended for students unable to take 1 or 5. One 2-hour lecture per week. 2 credit hours.
14. *General Botany.* Activities and structures of the flowering plant. Type representatives of the four great groups of the plant kingdom are studied and underlying principles of plant life considered. Two lectures and two laboratory periods per week. 4 credit hours.
26. *General Physiology.* A consideration of the fundamental processes of the animal body as applied to the human. Prerequisites; Biology 1, or Biology 5, or Biology 14, and Chemistry 1. Two lectures and two laboratory periods per week. 4 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 107

48. *Heredity*. A survey of the field of heredity involving a study of the laws of inheritance in plants and animals, with special reference to man. Two lectures per week. 2 credit hours.
51. *Invertebrate Zoology*. Structure, life history and economic relations of representative invertebrates. Prerequisite: Biology 1 or Biology 5 and 6. Two lectures and two laboratory periods per week. 4 credit hours. (Offered in 1929-30. Alternates with General Embryology.)
55. *General Embryology*. Principles and processes of chordate development as represented by the frog, chick and pig. Prerequisite: Biology 1, or Biology 5 and 6. Two lectures and two 2-hour laboratory periods per week. 4 credit hours. (Offered in 1930-31. Alternates with Invertebrate Zoology.)
63. *Flora of New Mexico*. Identification of plants; training in the use of the manual; consideration of the more characteristic types of vegetation of the State. Prerequisite: Biology 14. Six hours of field work per week. 3 credit hours.
92. *General Bacteriology*. Activities of bacteria, yeasts and moulds in relation to the health of man, animals and plants, involving the problems of the home and community. Prerequisites: Biology 1, or Biology 5 and 6, or Biology 14, and Chemistry 1 and 2. Two lectures and two laboratory periods per week. 4 credit hours.
99. *Organic Evolution*. History of the theory of evolution from the time of the Greeks to the present, and the various developments resulting from investigations of modern scientists. Factors and problems in organic evolution, heredity, variation, origin, and distribution of life. Lecture and open discussion two hours per week. 2 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

122. *Comparative Vertebrate Anatomy.* A comparative study of the systems of representative vertebrates. Prerequisite: Biology 51 or Biology 56. Two lectures and two 3-hour laboratory periods per week. 5 credit hours. (Offered in 1930-31. Alternate years with Animal Histology.)
124. *Animal Histology.* A microscopic study of animal tissues and organs. Prerequisite: Biology 51, or Biology 55. One lecture and two 3-hour laboratory periods per week. 4 credit hours. (Offered in 1929-30. Alternate years with Comparative Vertebrate Anatomy.)
141. *Histological Technique.* Methods of fixing, imbedding, sectioning, and staining animal or plant tissues for microscopic study. Prerequisite: Biology 1, or Biology 5 and 6, or Biology 14. 3 credit hours.
146. *Problems.* Independent investigation in Zoology or Botany for properly qualified upperclassmen. 2 to 4 credit hours per semester.
154. *Plant Anatomy.* Detailed consideration of cells and tissues of root, stem, leaf, and reproductive structures of higher plants. Prerequisite: Biology 14. Two lectures and two 3-hour laboratory periods per week. 5 credit hours.
171. *Physiographic Ecology.* Distribution of plants in relation to topographic and climatic factors. Prerequisite: Biology 63. One lecture and two 3-hour laboratory periods per week. 4 credit hours.
- 199-200. *Seminar.* Meeting of the Biology staff and advanced students to discuss recent literature, research problems and other topics of biological interest. One meeting per week. 1 credit hour. (Required subject for all Biology major and minors.)

COURSES IN DEPARTMENTS OF INSTRUCTION 109

251A, B. *Thesis*. 1 or more credit hours.

261. *Research* in Systematic Botany. 4 credit hours.

271. *Research* in Plant Ecology. 4 credit hours.

DEPARTMENT OF CHEMISTRY

JOHN D. CLARK, Ph. D., Professor.

*VEON C. KIECH, M. S., Instructor.

IRVIN S. DANIELSON, M. S., Instructor.

Major Study. A major study of 24 hours in this department must include courses 1, 2, 51 and 52 or their equivalent, but courses 1, 2, and 51 shall not be counted toward fulfilling the requirements as to the number of hours taken in the major subject, except that, in the discretion of the professor in charge of the department, credits in excess of eight hours gained in these courses may be so counted.

Minor Study. For a minor the student must present credits in courses 51 and 52 and sufficient electives to make a total of 12 hours.

Equipment. The department of Chemistry is housed in the Chemistry Building. The building is thoroughly fire-proof and strictly modern. It is equipped for accommodating two hundred students. A large freshman laboratory, a laboratory for qualitative analysis, and a quantitative and organic laboratory occupy the larger portion of the building. A small special laboratory, a chemistry library, a balance room, offices, stock rooms, lavatories, locker rooms, and apparatus room, together with a larger lecture hall, make up the total space devoted to chemistry within the building. Within the patio of the building are to be found work benches equipped with gas and water, so that students may do much of the ill-smelling laboratory work in the open air. Modern, fan-ventilated hoods serve to keep the indoor laboratories free from disagreeable odors. The laboratories are equipped with the usual apparatus needed in the study of chemistry in its various branches.

*On leave of absence, 1928-29.

PRIMARILY FOR UNDERGRADUATES

1. *Inorganic Chemistry*. Lectures and recitations on general and theoretical chemistry, illustrated by demonstrations, charts, lantern slides, specimens, etc. Solution of chemical problems is required. 3 credit hours.
1. A, B, C. *Inorganic Laboratory*. One period a week. 1 credit hour.
2. *Inorganic Chemistry*. Course 2 is a continuation of 1, but the time will be spent mainly on the metallic elements, their metallurgy salts, etc. Prerequisite: Chemistry 1. 3 credit hours.
2. A, B, C. *Inorganic Laboratory*. One period a week. 1 credit hour.
51. *Qualitative analysis*. Laboratory practice with occasional lectures. The student is expected to become proficient in the separation and detection of the common acids and bases, and to keep a full set of notes. Frequent quizzes are given. These dwell upon the theory of the work. Prerequisite: Chemistry 1 and 2. 5 credit hours.
52. *Quantitative Analysis*. This course gives practice in the greatest variety of manipulation. Types of the important methods are taken up. Analysis of ores, metals, slags, alloys, fuels, soils, fertilizers, dairy products, food stuffs, water, urine, poisons, drugs, gases, and oils are taken. The needs of the individual student will be considered in the work. Prerequisite: Chemistry 51. Laboratory, 10 hours per week. 5 credit hours.
61. *Organic Chemistry*. Lectures and recitations. A study of the chemistry of the carbon compounds. Laboratory work taken in Course 62. Prerequisite: Chemistry 1, 2 and 51. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 111

62. *Organic Chemistry Laboratory.* This course consists mainly of laboratory practice in preparing and purifying organic compounds and a study of quantitative organic reactions and analysis. Prerequisite: Chemistry 61. Laboratory work, 6 hours per week. 3 credit hours.
68. *Household Chemistry.* This course consists mainly of laboratory work in carbohydrates, fats, protein, milk, blood, urine, etc. Prerequisite: Chemistry 1 and 2. 3 credit hours. (Given in alternate years.)
70. *Physiological Chemistry.* This course is intended for pre-medical students. Prerequisite: Chemistry 1, 2, 61, 62. 4 credit hours. Two class periods and two laboratory periods per week. Given in alternate years.
- 101-102. *Quantitative Analysis.* Continuation of Chemistry 52. Laboratory 10 hours per week. 5 credit hours each semester.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

110. *Physical Chemistry.* This work consists of advanced study of chemical theory. As far as possible, lectures touch the whole field of physical chemistry. Students are required to do a great deal of supplemental reading in works of the best authors in the different branches of the science. Prerequisite: Chemistry 1, 2, 51 and 52. 4 credit hours.
- 110A. *Physical Chemistry Laboratory.* One period a week. 1 credit hour.
112. *Industrial Chemistry.* This course consists of lectures on chemical manufactures such as sugar, sodium, carbonate, fertilizers, sulfuric acid, glass, matches, paints, dyes, illuminating gases, petroleum, etc. The lectures will be illustrated by lantern slides

- and charts. Prerequisite: Chemistry 1, 2, and 51. 2 credit hours.
113. *Metallurgy*. This course consists of lectures describing the process employed in the smelting of iron, lead, copper, zinc, silver, gold, etc. Prerequisite: Chemistry 1, 2, and 51. 2 credit hours.
- 151-152. *Quantitative Analysis*. Continuation of 102. Laboratory 10 hours per week. 5 credit hours.
160. *Chemistry Seminar*. 2 or more hours.

DEPARTMENT OF CIVIL ENGINEERING

- A. DIEFENDORF, B. S. in C. E., C. E., Associate Professor.
J. B. BAKER, M. S., Associate Professor.
51. *Elementary Surveying*. Elementary course in plane surveying, including the theory and use of the chain, tape, compass, transit and level. Prerequisite Math. 16. 2 hours recitation per week. 2 credit hours.
52. *Topographic Surveying*. A study of topographic methods including the theory and use of the plane table, barometer, and sextant, and also a study of hydrographic and aerial surveying, geodetic triangulation and astronomical observations. Prerequisite: C. E. 51. 1 hour recitation per week. 1 credit hour.
53. *Elementary Surveying—Field*. Practice with the chain, tape, compass, transit, and level. Plotting traverses, maps and profiles from field notes. To accompany C. E. 51. 6 hours field work per week. 2 credit hours.
54. *Topographic Surveying—Field*. Solution of problems in topographic surveying, geodetic and precise surveying, astronomical observations for time, azimuth, latitude and longitude, trigonometric and barometric leveling. To accompany C. E. 52. 6 hours field work per week. 2 credit hours.
101. *Railway Curves and Earthwork*. A study of rail-

COURSES IN DEPARTMENTS OF INSTRUCTION 113

- road curves and earthwork. The theory and use of simple, compound, and spiral curves, study of frogs, switches, and turnouts. Taken with C. E. 103. Prerequisite C. E. 52. 3 hours recitation per week. 3 credit hours.
103. *Railroad Engineering.* The principles of economic location of railroads. To accompany C. E. 101. Prerequisite C. E. 52. 6 hours field work per week. 2 credit hours.
105. *Applied Mechanics.* The mechanics of engineering problems. Statistics, kinetics, work, energy, impulse and momentum, etc. Prerequisite Math. 52. 4 hours recitation per week. 4 credit hours.
107. *Field Surveying—Summer Camp.* Actual practice in plane and topographic surveying. Complete surveys of a project are made and the field notes are used for mapping in the succeeding course C. E. 109. Prerequisite C. E. 52 and 54. 1 hour recitation and 6 hours field for 6 days. 1 credit hour.
108. *Strength of Materials.* The mechanics of materials and problems in engineering construction. Theory of beams, columns, and shafts. The study of requirements for structural materials. Prerequisite C. E. 105. 3 hours recitation per week. 3 credit hours.
109. *Topographic Mapping.* Conventional signs used in representing topography. The notes taken during the preceding summer field work are plotted in the drafting room. A complete map of the field work is made by each student. Prerequisite C. E. 107. 3 hours drawing per week. 1 credit hour.
110. *Hydraulics.* Elementary theory of hydraulics and water power including the principles of hydrostatic and hydronamic pressures, flow through orifices, weirs, tubes, pipes, nozzles, conduits, canals, and rivers, with a brief discussion of water wheels, tur-

- bines and pumps. Prerequisite C. E. 105. 3 hours recitation per week. 3 credit hours.
112. *Strength of Materials Laboratory.* Materials testing dealing with the inspection and proper use of the materials of construction, including timber, iron, steel, masonry, cement, and concrete. To accompany C. E. 108. 3 hours laboratory per week. 1 credit hour.
114. *Hydraulics Laboratory.* A study of orifices, weirs, loss of head in pipes, flow of water in open channels and conduits. To accompany C. E. 110. 3 hours laboratory per week. 1 credit hour.
152. *Graphic Statics.* Elements of graphic statics. Graphical solution of problems in mechanics; determination of stresses in beams, roof trusses and bridges. Prerequisite C. E. 108. 1 hour recitation and 6 hours drawing per week. 3 credit hours.
156. *Highway Engineering.* This course covers the location, construction, maintenance, cost, durability, and methods of financing all types of county roads and city pavements. Prerequisite C. E. 52. 3 hours recitation per week. 3 credit hours.
159. *Theory of Structures.* A study of methods for the determination of stresses, and for the design and detail of timber, steel, and concrete beams, girders, and trusses under varied conditions of loading. Prerequisite C. E. 108. 2 hours recitation and 6 hours laboratory per week. 4 credit hours.
161. *Water Supplies.* The principal features of water supply engineering including the study of the quantity of water required for municipal supplies, estimation of flow from drainage basins, computation of necessary storage. A study of the principles of designs of dams, conduits and distributing systems. Conditions affecting the quality of water and methods of purification. Prerequisite C. E. 110. 3 hours recitation per week. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 115

164. *Sewerage.* Instruction in the principles involved in the design and construction of sewers; the disposal of sewage and garbage, sewerage treatment by up-to-date methods. Prerequisite C. E. 110. 3 hours recitation per week. 3 credit hours.
166. *Sanitary Design.* The student is required to design, subject to the criticisms and suggestions of the instructor, a water supply system, or a sewage system for a small town. Prerequisite C. E. 161. 3 hours drawing per week. 1 credit hour.
167. *Reinforced Concrete.* The principles of reinforced concrete rectangular and tee beams, slabs, columns, dams, retaining walls, arches and building design. Prerequisite C. E. 105. 3 hours recitation per week. 3 credit hours.
168. *Masonry.* The study of the nature of bricks, stone, lime, clay products, cement, gravel, concrete, and water ratio of concrete mixes. The methods of constructing culverts, retaining walls, arches, and foundations. Prerequisite C. E. 108. 2 hours recitation per week. 2 credit hours.
170. *Contracts and Specifications.* The law governing engineering practice, contracts, and specifications. 2 hours recitation per week. 2 credit hours.
172. *Irrigation Engineering.* A discussion of the different methods of irrigation, the control of irrigation water, and works for distribution and storage. Prerequisite C. E. 110. 2 hours recitation per week. 2 credit hours.
182. *Seminar.* Readings and discussions of engineering topics. Each student presents papers upon assigned 2 hours recitation per week. 2 credit hours.
200. *Thesis.* The analysis and solution of a satisfactory problem in civil engineering. Subject to be chosen during first semester. 3 credit hours.

DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

GEORGE W. TERBORGH, Ph. D., Associate Professor.

TOM L. POPEJOY, B. A., Instructor.

Group Requirements. Course 21 is accepted toward the requirement of Group III.

Major Study. A major in the department consists of 27 hours in addition to the introductory course. The department offers alternative majors in economics and business administration. Students selecting the economics major must take courses 21, 63, 70, 110, 111, 141, 152, and 162. Students majoring in business administration must take 21, 53-54, 70, 109, 111, and 131-132. All students majoring in the department must pass a comprehensive final examination in the field of their major study as a condition of graduation.

Minor Study. A minor in the department consists of 12 or more hours in addition to the introductory course.

PRIMARILY FOR UNDERGRADUATES

21. *Introduction to Economics.* A general survey of the structure, institutions, and operation of modern industrial society. A prerequisite to all other courses in the department. 3 credit hours. (The course is repeated the second semester.)
- 53-54. *Principles of Accounting.* A general introduction to accounting principles and practice. Credit not given for either semester separately. One recitation and two two-hour laboratory periods each week. 3 credit hours.
63. *Economic History of the United States.* A review of the development of American economic organization. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 117

70. *Marketing*. The place of marketing in the economic system. Modern organization, institutions, and methods. 3 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

- 103-104. *Advanced Accounting*. The preparation of balance sheets and financial statements, with an analysis of their component items. Prerequisite: Econ. 53-54. 3 credit hours.
109. *Statistics*. The collection, arrangement, and interpretation of statistical material relating to business operations. 3 credit hours.
110. *Corporation Finance*. The financial organization and policies of the modern corporation. 3 credit hours.
111. *Financial Organization of Society*. A study of money, banking, foreign exchange, the stock market, and the financial system as a whole. 3 credit hours.
- 131-132. *Business Law*. Contracts, negotiable instruments, agency, partnership, sales, guaranty and suretyship, insurance, real property. 3 credit hours.
141. *Labor Problems*. The position of the laborer in modern society. Trade unionism and collective bargaining. Labor law and labor legislation. 3 credit hours.
152. *Public Finance*. The theory and practice of taxation, governmental borrowing, financial administration, and public expenditures. 3 credit hours.
162. *Advanced Economics*. The course is intended to give an intensive training in economic analysis, with the emphasis upon practical problems. 3 credit hours.

PRIMARILY FOR GRADUATES

The following seminars will be offered as occasion permits:

- 251A Seminar in current economic literature. 2-4 credit hours.
- 253A Seminar in government regulation of industry. 2-4 credit hours.
- 255A Seminar in economic theory. 2-4. credit hours.
- 257A Seminar in money and banking. 2-4 credit hours.
- 259A Problems. 2-4 credit hours.

DEPARTMENT OF EDUCATION

SIMON P. NANNINGA, PH. D., Professor
BENJAMIN F. HAUGHT, PH D., Professor.
LOYD S. TIREMAN, PH. D., Associate Professor.
JOHN W. DIEFENDORF, PH. D., Associate Professor.
JAMES T. REID, M. A., Assistant Professor.
CHARLES E. BROWN, B. S. Graduate Assistant.

Major Study. Students majoring in Education will complete 24 hours in the Department.

Minor Study. Students minoring in Education will complete 12 hours in the Department.

High school teachers should select a major and minor outside of the professional courses in Education.

Students preparing to become administrators, supervisors, high school teachers or elementary teachers should refer to the respective curricula.

MISCELLANEOUS AND GENERAL COURSES IN EDUCATION

UNDERGRADUATE COURSES

31. (formerly 103) *Introduction to Education.* This course is an introduction to the various fields of education. It takes up the typical phases of the organization and administration of public schools with present day problems as they relate to citizens and teacher. Lectures, following a text, and assigned readings and reports. 2 credit hours.

**ADVANCED UNDERGRADUATE AND
GRADUATE COURSES**

101. (formerly 51.) *History of Education in Europe.* A study of the development of education practices and systems through the Greek, Roman, medieval and modern periods in Europe, with the main emphasis upon the post-renaissance period. Study of text and sources, with discussions. 3 credit hours.
102. (formerly 52.) *History of Education in America.* A study of the evolution of American educational ideals and practices, with special reference to the origin and development of those features of our present day practices which are most characteristically American. Study of text and sources with discussions. 3 credit hours.
109. (formerly 139.) *Educational Sociology.* A practical treatment of the sociological aspects of school problems. Studies are made of education as a civic enterprise; the social background as a basis for determining educational objectives; specific objectives of different phases of the curriculum; problems of public control; the nature and needs of the school population; analysis of curricula and extra-curricular programs as training for social control. 2 credit hours.
112. (formerly 150a.) *Current Educational Problems.* A seminar type study and discussion of current problems in education. A course designated to acquaint students with educational thought appearing in leading journals, periodicals, bulletins and reports. More than one semester's work is recorded as 112b, 112c, etc. 2 credit hours.
115. (formerly 157.) *Educational and Vocational Guidance.* A course in principles, methods, and literature of educational and vocational guidance. Considera-

tion will be given to the methods of educational and vocational guidance in high schools and to the organization and administration of a vocational guidance program for high school teachers and principals. 2 credit hours.

251. *Special Problems in Education.*— An investigation or experimental problem in research selected by the student and approved by the instructor. Prerequisite: Consent of the instructor. More than one semester's work is recorded as 251b, c, etc. 2 or 3 credit hours.

ELEMENTARY EDUCATION

UNDERGRADUATE COURSES

42. (formerly 137.) *Classroom Organization and Management.* The problems of attendance, order, promotion, recitation, and study hours; testing results, growth and health of the teacher. 3 credit hours.
61. (formerly 121b.) *Supervision of Elementary Education I.* This will be the basic course of two semesters for all who expect to complete two years of college work and then teach in the elementary grades. The work of the first semester will deal primarily with the Language Arts (Reading, Language, Spelling), Methods of Teaching, construction of supplementary material, diagnosis and remedial work. 3 credit hours.
62. (formerly 221.) *Supervision of Elementary Education II.* A continuation of Education 61, dealing with Methods of Teaching History, Geography, and Arithmetic; an analysis of current textbooks and construction of units of drill work. 3 credit hours.
64. *Practice Teaching in the Elementary Grades.* This course consists of observation of methods and actual

COURSES IN DEPARTMENTS OF INSTRUCTION 121

class room teaching experience under supervision.
3 credit hours.

121. *Supervision of Reading.* A course dealing with methods and materials best adapted to the improvement of instruction in reading. Special emphasis will be placed upon the following problems: Building a well balanced reading program, preparation of work type reading materials, the improvement of oral reading, diagnosis and remedial work. 2 credit hours.
132. *Supervision of Social Sciences.* A course dealing primarily with the method involved in the teaching of history and geography. Special attention will be given to teaching by problems, and the socialized recitation. 2 credit hours.

SECONDARY EDUCATION

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

141. *Principles of Secondary Education.* A course dealing with the aims, purposes, and general principles which apply to secondary education as a whole. 3 credit hours.
142. *High School Curriculum.* Principles and procedures in curriculum-making as applied particularly to programs in both the junior and senior high schools. 3 credit hours.
144. *The Junior High School.* The course consists of lectures, outside readings and reports, and deals with the history of the junior high school movement, the advantages and disadvantages of the junior high school, and some of the problems arising from its organization and administration. 3 credit hours.
153. *Principles of Teaching.* A course dealing with the relationship of problems and principles of education to the principle of teaching in secondary schools;

treating the aims of the educative processes, types of lessons, questioning, discipline, lesson plans, supervision and its purposes. 3 credit hours.

156. (formerly 167.) *Practice Teaching in High Schools*. Open to seniors who have had 153 (formerly 146) and recommended for all students preparing for high school teaching. The course consists of observation of methods and actual class room teaching experience under supervision. 3 credit hours.
158. *High School Supervision*. A course dealing with the principles and practices of supervision. A fundamental purpose of the course is to develop an appreciative attitude toward supervision on the part of the high school teacher. Open to high school teachers and administrators. 3 credit hours.

EDUCATIONAL ADMINISTRATION

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

161. (formerly 106.) *School Law of New Mexico*. The present school laws and school system. 2 credit hours.
163. (formerly 149.) *State School Administration*. The organization and administration of state school systems. The course includes a study of such topics as federal and state policy, forms of control. 3 credit hours.
164. (formerly 147.) *City School Administration*. A study of the educational, financial and administrative principles underlying the administration of school systems in cities. 3 credit hours.
166. (formerly 148.) *Principal and His School*. A course dealing with the organization and administration of a single school, the organization and supervision of instruction as applied to the elementary school principal, the junior high school principal, and high school principal. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 123

171. *Problems of the Teaching Profession.* A study of the principles of educational administration, and organization as applied to the duties and responsibilities of the classroom teacher. 3 credit hours.
- 261a. *Seminar in Educational Administration.* Limited to advanced and graduate students whose special interest is educational administration. Topics chosen according to interest of students enrolled. Admission on consultation with the instructor. 2 credit hours.

EDUCATIONAL PSYCHOLOGY

UNDERGRADUATE COURSES

51. *General Psychology.* A general survey of psychology; its material, fundamental laws, applications, and relations to other sciences. 2 lectures and 1 class experiment each week. 3 credit hours.
54. *Educational Psychology.* An elementary course emphasizing the following topics; inherited nature, learning and study, transfer of training, individual differences and their causes, the maladjustment and the backward child. Prerequisite: 51 or its equivalent. 2 lectures and 1 class experiment each week. 3 credit hours.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

183. (formerly 107.) *Educational Psychology.* The nature of learning and retention; learning curves, their uses and significances; factors affecting the rate and permanency of learning; problems relating to the learning capacity; transfer of training; applications to practical school work. Lectures, experiments, and discussions. Prerequisite: 51 or 54. 3 credit hours.
185. (formerly 113.) *Intelligence Tests.* A survey of group and individual tests; the technique of giving

- and scoring tests; interpretations of results. Prerequisites: 51 or 54. 3 credit hours.
186. *Educational Tests.* A survey of the available tests; the technique of giving and scoring tests; the tabulation and interpretation of scores; the construction of new type examinations. Prerequisite: 51 or its equivalent. 3 credit hours.
192. *Statistical Methods.* A study of statistical methods as applied to psychology and education. 3 lectures or recitations each week. 3 credit hours.

DEPARTMENT OF ELECTRICAL ENGINEERING

*PHILIP S. DONNELL, M. E. E., Professor.

F. M. DENTON, A. C. G. I., Associate Professor.

1. *Engineering Lectures.* A course designed to give the student upon his entrance into the College of Engineering a broad conception of the general field of engineering and of the duties and requirements of the professional engineer. 1 hour lecture per week. 1 credit hour.
2. *Engineering Lectures.* Continuation of course EE 1 including the solution of simple and fundamental problems met with in the various fields of engineering. 1 hour lecture per week. 1 credit hour.
101. *Direct Current Machinery.* A study of the construction, theory of operation and characteristics of direct current generators and motors, with a preliminary study of the more advanced fundamental principles of electrical engineering. Prerequisites: Physics 111 and 113, Math. 22 and 52. 4 hours recitation per week. 4 credit hours.

*Resigned, January, 1929.

COURSES IN DEPARTMENTS OF INSTRUCTION 125

102. *Theory of Alternating Currents.* The theory of alternating currents and methods for the solution of single phase and polyphase circuits carrying harmonic and non-harmonic currents. Wave form analysis and study of methods and apparatus used in current and power measurements in A. C. circuits. Prerequisites: E. E. 101 and 106. 4 hours recitation and problem work per week. 4 credit hours.
- 105-106. *Principles of Electrical Engineering.* A course designed for students pursuing courses in Civil, Chemical, Geological, or Mechanical Engineering. Includes study of the fundamentals of electrical engineering, direct current dynamos, the theory of alternating currents, and alternating current machinery. Prerequisites: Physics 52, Math. 22 and 52. 2 hours recitation per week. 2 credit hours each.
- 107-108. *Electrical Engineering Laboratory.* Experimental work to accompany courses E. E. 105 and 106. 3 hours laboratory per week. 1 credit hours each.
111. *Direct Current Machinery Laboratory.* Experimental work with direct current generators and motors. To accompany E. E. 101. 6 hours laboratory per week. 2 credit hours.
112. *Alternating Current Laboratory.* Experimental work on alternating current circuits and phenomena. To accompany E. E. 102. 6 hours laboratory per week. 2 credit hours.
- 151-152. *Alternating Current Machinery.* A detailed study of alternating current instruments, apparatus and machinery, including the theory of operation and characteristics of alternators, transformers, A. C. motors, synchronous converters, and regulators. Prerequisite: E. E. 102. 4 hours recitation and problem work per week. 4 credit hours each.
- 155-156. *Alternating Current Machinery Laboratory.* Experimental work in the determination of the char-

acteristics of the various types of alternating current machinery. To accompany E. E. 151 and E. E. 152. 6 hours laboratory per week. 2 credit hours each.

161-162. *Design of Electrical Machinery.* Electrical design of direct and alternating current machinery. Prerequisites: E. E. 102. To accompany but not precede E. E. 151. 1 hour lecture and 6 hours in design room per week. 3 credit hours each.

182. *Electrical Engineering Seminar.* Reports on assigned reading and on original studies made by the student. Study and discussion of current technical literature. Prerequisite: E. E. 102. 2 hours recitation per week. 2 credit hours.

192. *Electric Power Plants.* A study of rate making and of the economics of central stations as a public utility; location, design, construction and operation of central station plants and sub-stations and distribution systems including the prime movers, generators, transformers, and switching and control equipment, for both steam and hydroelectric plants. Prerequisites: E. E. 102 and E. E. 151. 3 hours lecture per week. 3 credit hours.

194. *Communications.* A theoretical and mathematical treatment of the more important means of communications, including submarine telegraphy, land telegraphy, telephony, and radio. The course includes a rather thorough study of the origin and use of hyperbolic functions as applied to the electric transmission of energy. Prerequisite. E. E. 102. 3 hours lecture per week. 3 credit hours.

196. *Transmission.* Exact and approximate solutions of power transmission problems; design of transmission systems, including transmission line construction and protection. Prerequisites: E. E. 151 and 194. 3 hours lecture per week. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 127

DEPARTMENT OF ENGLISH

GEORGE ST. CLAIR, Ph. D., Professor.

CECIL V. WICKER, M. A., Assistant Professor.

THOMAS MATTHEW PEARCE, M. A., Assistant Professor

CARL TAYLOR, B. A., Graduate Assistant.

ELSIE RUTH CHANT, B. A., Graduate Assistant.

Group Requirements. Course 21 and 22 and three hours to be elected from courses numbered above 50 are prescribed for students in Arts and Sciences to meet the requirements of Group I. Courses 21, 22, and 65 are required of students in Engineering.

Major Study. For a major study, candidates must complete 24 hours in courses numbered above 50, but courses 53 and 54 may not be counted toward this requirement. The courses taken must include 53, 54, 58 or 61, 88, 91, and 151 or 152. Seniors majoring in English will be required to pass a comprehensive final examination in English literature, language, and composition, before they will be recommended by the department for a degree.

Minor Study. For a minor study, candidates must complete 15 hours in courses numbered above 50, in addition to the group requirements mentioned above.

11. *Review English.* A rapid review of spelling, sentence structure, punctuation, and grammar. No college credit.

(Course 11 is required of all students who fail to pass the test prescribed on page 20, and it must be completed by such students before they are admitted to English 21.)

21-22. *Freshman Composition.* The principles and practice of composition. 3 credit hours each semester.

51a, b, c. *History of Books.* Open to all students. May be taken three times. 1 credit hour each.

53-54. *History of English Literature.* Prerequisite for majors to all other courses in English literature. Pre-

requisites: English 21 and 22. 3 credit hours each semester.

55. *Public Speaking*. 3 credit hours.
57. *Types of English Literature*. For students not expecting to major in English. Prerequisites: English 21 and 22. 3 credit hours.
58. *Argumentation and Debate*. Training in the application of formal logic to oral and written argument. Prerequisites: English 21 and 22. 3 credit hours.
61. *Advanced Composition*. Practice in the writing of exposition. Prerequisites: English 21 and 22. 3 credit hours.
63. *Advanced Composition*. Practice in narrative and descriptive writing. Prerequisites: English 21 and 22.
65. *Technical English*. Primarily for engineers, though others may be admitted at the discretion of the instructor. Prerequisites: English 21, 22. 3 credit hours.
68. *Special Course in Advanced Composition*. Given for advanced students with considerable training or talent. The nature of the work is determined by the needs and abilities of the students. Prerequisites: English 21, 22, and 58 or 61. 1 or 2 credit hours.
81. *The Victorian Period*. A careful study of the representative poets and prose writers from 1830-1890. Prerequisites: English 21 and 22. 3 credit hours.
82. *American Literature*. A general survey of the whole field down to 1900, with more intensive study of the great writers of the 19th century. Prerequisites: English 21 and 22. 2 credit hours. (Given in alternate years.)
88. *Comparative Literature*. Lectures on literary monuments of Palestine, Greece, Rome, Medieval and Ren-

COURSES IN DEPARTMENTS OF INSTRUCTION 129

aissance Europe, supplemented by the reading of kindred and derived work in English literature. Prerequisites: English 21 and 22. 2 credit hours.

91. *History of the English Language.* An elementary survey of the etymology, morphology, phonetics, and semantics of English. Special attention is given to the relation between linguistic and cultural changes. Prerequisites: English 21 and 22. 2 credit hours.

95-96. *Masterpieces of Greek Literature in English Translation.* See Greek 95 and 96. 2 credit hours each semester. (Not given in 1929-30.)

PRIMARILY FOR ADVANCED UNDERGRADUATES

132. *Contemporary Poetry.* Chiefly English poetry. Prerequisites: English 21, 22, 53, and 54. 3 credit hours.

141. *Shakespeare.* A detailed study of selected plays. Prerequisites: English 21 and 22. 3 credit hours.

142. *Elizabethan Drama.* The dramatic works of Shakespeare's immediate predecessors and of his contemporaries, with special attention to their influence on Shakespeare's plays. Prerequisites: English 21, 22, and 53. 3 credit hours. (Not given in 1929-30.)

143. *Modern Drama.* English dramatic history from 1660-1900. Prerequisites: English 21, 22, and 53. 3 credit hours. (Not given in 1929-30.)

145. *Spenser.* Most of Spenser's poetry will be read with special emphasis upon this poet as an interpreter of Renaissance spirit. 2 or 3 credit hours.

146. *Milton.* Most of Milton's poetry will be read, some of his prose, and some representative prose and verse from other writers of the period. Prerequisites: English 21, 22, and 53. 2 or 3 credit hours. (Not given in 1929-30.)

147. *Studies in World Drama.* Prerequisites: English 21 and 22. 2 credit hours. (Not given in 1929-30.)
148. *Elizabethan Literature Exclusive of the Drama.* Studies in the prose and poetry of the period. Prerequisites: English 21, 22, and 53. 3 credit hours.
151. *Chaucer.* Chaucer and a general survey of 14th century literature. Prerequisites: English 21, 22, and 53. 3 credit hours.
152. *Old English.* Prerequisites: English 21, 22, and 53. 3 credit hours. (Not given in 1929-30.)
154. *Middle English.* Prerequisites: English 21, 22, 53, 151, or 152. Restricted to seniors and graduates. 3 credit hours.
159. *Versification.* 1 credit hour.
177. *The Classical Period in English Literature.* A detailed study of the chief writers in England from the Restoration to the decline of neo-classicism. Prerequisites: English 21 and 22. 3 credit hours.
178. *The Romantic Movement.* A detailed study of the forerunners of romanticism in the 18th century and of the poetry and prose of the early 19th century. Prerequisites: English 21 and 22. 3 credit hours.
185. *The English Novel.* A survey of fiction before the 18th century which contributed to the development of the novel, and a history of the form since Richardson. Prerequisites: English 21, 22, 53, and 54. 3 credit hours.

PRIMARILY FOR GRADUATES

199. *Problems seminar.* 2 or 3 credit hours. (For graduates only.)
210. *Seminar in Contemporary Poetry.* 2 credit hours.
240. *History of English Criticism.* 1 credit hour. (Not given in 1929-30.)

COURSES IN DEPARTMENTS OF INSTRUCTION 131

DEPARTMENT OF GEOLOGY

STUART A. NORTHROP, PH. D., Assistant Professor.

ROBERT W. ELLIS, M. A., Professor.

Major Study. For a major study, students must complete 24 hours in courses other than 1. Chemistry 1 and 2 are required. Civil Engineering 52 and 54 may be counted towards a major; also, Chemistry 113.

Minor Study. For a minor study, students must complete 12 hours in courses other than 1.

PRIMARILY FOR UNDERGRADUATES

1. *Physical Geology.* Elementary chemistry and physics should precede. 4 credit hours.
2. *Historical Geology.* Prerequisites: Geology 1 with some knowledge of botany and zoology. 4 credit hours.
51. *Mineralogy.* Prerequisite: Elementary chemistry. 2 credit hours.
52. *Determinative Mineralogy.* Prerequisite: Geology 51. 2 to 4 credit hours.
53. *Meteorology.* Prerequisite: Some knowledge of physics. 2 credit hours.
54. *Geography of North America.* Geology 1 should precede. 2 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

101. *Economic Geology.* Non-metals. Prerequisites: Geology 2, 51, and 52. 3 credit hours.
102. *Economic Geology.* Metals. Prerequisites: Geology 2, 51, and 52. 3 credit hours.
105. *New Mexico Geology.* Prerequisites: Geology 2, 101, and 102. 2 credit hours.
106. *Geologic Mapping.* Prerequisites: Geology 2, and C. E. 52 and 54. 2 credit hours.
107. *Petrology.* Prerequisites: Geology 51 and 52. 3 credit hours.

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108. *Structural Geology*. Prerequisites: Geology 2. 3 credit hours.
109. *Stratigraphy*. Prerequisite: Geology 2. 4 credit hours.
110. *Stratigraphy*. A continuation of Geology 109. 4 credit hours.
111. *Paleontology*. Prerequisite: Geology 2. 4 credit hours.
112. *Paleontology*. A continuation of Geology 111. 4 credit hours.

PRIMARYLY FOR GRADUATES

201. *Physiography*. Prerequisites: Geology 2, and 108. 3 credit hours.
202. *Physiography*. A continuation of Geology 201. 3 credit hours.
251. *Seminar in Geology*. Research work. Character of work, and credit, to be arranged.

DEPARTMENT OF GREEK AND LATIN

LYNN BOAL MITCHELL, PH. D., Professor.

*RUTH WARNSHUIS, B. A., Graduate Assistant.

GREEK

Group Requirements. Courses 95 and 96 are not accepted toward the requirement in Group II.

Major and Minor Studies. Not offered at present time.

Miscellaneous. Courses numbered above 90 receive credit in the Department of English. Classes will not be organized for small number of applicants.

PRIMARYLY FOR UNDERGRADUATES

1. *Elementary Greek*. The common forms, idioms, constructions and grammatical principles of Attic Greek are studied. 4 credit hours.

*Resigned, January, 1929.

COURSES IN DEPARTMENTS OF INSTRUCTION 133

2. *Elementary Reading Course.* Xenophon; Anabasis, Books I-III, or the equivalent. 3 credit hours.
12. *Composition and Grammar.* Intended to accompany 2. 1 credit hour.
95. *Greek literature in English translation.* Poetry. Epic, lyric, and dramatic poetry. No previous knowledge of Greek is required for admission to the course, the only prerequisite being two courses in English. Same course as English 95. 2 credit hours. (Not given in 1929-30.)
96. *Greek literature in English translation.* The rise and development among the Greeks of the writing of history, oratory, philosophy, romance, and literary criticism. Same prerequisite as for 95. Same course as English 96. 2 credit hours. (Not given in 1929-30.)

LATIN

Group Requirements. Courses up to and including 52 may be counted towards fulfilling of Group II.

Major Study. A major study consists of 24 hours earned in courses exclusive of 1, 2, 3 and 4.

Minor Study. A minor study consists of 12 hours earned in courses exclusive of 1, 2, 3 and 4.

PRIMARILY FOR UNDERGRADUATES

- 1-2. *Beginning Latin.* A course intended for those who have not previously studied Latin, and covering approximately the work completed in two years of high school but with considerable emphasis on general linguistic derivatives, and some attention given to semasiology. 4 credit hours each.
- 3-4. *Intermediate Latin.* Intended to meet the demands of those who have had two units of Latin in high school. Selections from various authors especially Cicero, Sallust, and Ovid. 3 credit hours each. (Not given in 1929-30.)

- 5-6. *Vergil*. Selections from Vergil and other authors of similar difficulty with studies in prosody. Intended for those who have had two or three units of high school Latin. 3 credit hours each.
- 21. *Freshman Latin: Literature*. Cicero: de Senectute and Sallust. 3 credit hours.
- 22. *Freshman Latin: Literature*. Livy and Horace: Odes and Epodes. 3 credit hours.
- 31-32. *Freshman Latin: Composition and Grammar*. Intended to accompany 21 and 22. 1 credit hour each semester.
- 51. *Sophomore Latin: Literature*. Selections from Catullus, Propertius, Martial, and Pliny the Younger or Tacitus. 3 credit hours.
- 52. *Sophomore Latin: Literature*. Two comedies of Plautus and one of Terence. 3 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

- 101. *Advanced Latin*. Tacitus, Agricola, and Germania: selections from Seneca. Outside readings bearing on the condition of the Roman people during the first century A. D. 3 credit hours.
- 102. *Advanced Latin*. Apuleius and Petronius. A study of the development of the Roman novel and plebeian Latin. Assigned readings. 3 credit hours.
- 105. *Advanced Latin*. Selected readings from medieval Latin and topics for investigation. 3 credit hours. (Not given in 1929-30.)
- 106. *Advanced Latin*. Selections from Horace, Persius, and Juvenal. A study is made of Roman satire. Assigned readings. 3 credit hours. (Not given in 1929-30.)

COURSES IN DEPARTMENTS OF INSTRUCTION 135

- 179-180. *Roman Life*. Lectures and topics for investigation in Roman public and private life. 2 credit hours each. (Probably not given in 1929-30.)

PRIMARILY FOR GRADUATES

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

- 231-232. *Latin Grammar and Syntax*. Lectures, and topics for investigation in the fields of historical and comparative grammar and syntax. Prerequisite: A reading knowledge of French or German. 2 credit hours each.
- 251a. *Seminar*. Directed investigation of an assigned problem, usually applied on the thesis requirement. More than one semester's work is indicated by 251b, 251c, etc. 2 or more credit hours.

DEPARTMENT OF HEALTH

JAMES R. SCOTT, Ph. D., M. D., Associate Professor.

MYRTLE GREENFIELD, M. A., (Chief, State Health Laboratory), Lecturer.

LORETTA BARRETT, B. A., Instructor.

Major Study. None offered at the present time.

Minor Study. A minor study consists of 12 hours in advanced courses, including general bacteriology, and, in addition, other courses as prescribed.

1. *Personal Health*. A course dealing with the principles of healthful living, emphasizing mental and nervous hygiene, foods, posture, exercise, rest, clothing and care of the body. Required of all freshmen. 2 credit hours.

2. *Community Health.* A consideration of community endeavor for the protection of its citizens, emphasizing health supervision of water supplies, sewage disposal, milk and food production, control of communicable disease, vital statistics, publicity and health education methods for the general population. 2 credit hours.
72. *Educational Hygiene.* Sanitation and ventilation of school buildings; common health defects and their causes, detection, and remedy; teaching health in the school. Primarily for prospective teachers. 2 credit hours.
105. *Epidemiology.* A study of the epidemic diseases which may affect a locality, state, or nation, emphasizing general epidemiological methods and discussing the various diseases of epidemiologic importance. 2 or 3 credit hours.
- 115-116. *Public Health Laboratory Methods.* A course designated to acquaint the student with laboratory procedure utilized in diagnosing communicable diseases and in preventing or controlling an outbreak of disease in any community. Students admitted only after consultation with instructor. 3 credit hours.
122. *Public Health Practice.* A field course given in conjunction with the Bernalillo County Health Department. Students will be given actual field experience in inspection of dairies, restaurants, and other food handling establishments, in the control of communicable disease, registration of births and deaths and general routine procedure employed in any city or county health department. Field periods three hours, one to two afternoons per week. Students admitted only on consultation with instructor. 1 or 2 credit hours.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

*CHARLES F. COAN, PH. D., Professor

FRANCE V. SCHOLLES, M. A., Associate Professor

JAMES F. ZIMMERMAN, Ph. D., Professor

FRANK D. REEVE, M. A., Instructor

EDWARD W. LIGHTON, B. S., Instructor

HISTORY

Group Requirements. Courses in History are accepted toward fulfillment of the requirement in Group III.

Major Study. For a major study, students must complete 30 hours, including introductory courses in European and American history. Courses in Ancient history are recommended. Beginning with the year 1929-1930, all major students must pass a comprehensive examination as a condition of graduation.

Minor Study. For a minor study, students must complete 18 hours, including introductory courses in European and American history.

PRIMARILY FOR UNDERGRADUATES

11. *Ancient History.* From the earliest times to the decline of the Hellenic States. 3 credit hours.

12. *Ancient History.* From the decline of the Hellenic States to the fall of the Roman Empire. 3 credit hours.

(Note: Course 11 and 12 discontinued after 1928-29.)

21. *Medieval History.* From the Fall of Rome to the Peace of Westphalia, (1648.) 3 credit hours.

22. *Modern History.* From the Peace of Westphalia to the present. 3 credit hours.

61. *History of New Mexico.* From the earliest times to the present. 3 credit hours.

*Deceased.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

(Note: Beginning in 1929-30, 101, 102, and 142 will not be open to graduate students.)

101. *History of the United States.* From the adoption of the Constitution to the Civil War. 3 credit hours.

102. *History of the United States.* From the Civil War to the present. 3 credit hours.

111-112. *History of the West.* 3 credit hours. (Not given in 1928-29.)

121. *History of England.* From the earliest times to the overthrow of James II. Prerequisite: History 21. 3 credit hours.

122. *History of England.* From the reign of William and Mary to the present. Prerequisite: History 22. 3 credit hours.

131-132. *Ancient History.* 3 credit hours. (Not given in 1928-29.)

141. *History of Colonial North America.* From the period of discoveries to the Constitution. 3 credit hours.

142. *History of the Southwest.* From the earliest times to the present. 3 credit hours. (Not given in 1928-29.)

161. *History of Spain.* From the earliest times to the present. Prerequisites: History 21 and 22. 3 credit hours.

162. *History of Latin America.* From the period of discovery and exploration to the present. Prerequisite: one course in Modern History or American History. 3 credit hours. (Given in 1928-29, but not hereafter.)

171-172. *History of Latin America.* 3 credit hours. (Not given in 1928-29.)

182. *World Politics since 1870.* A survey of modern history and international problems, with special reference to the World War and post-war problems. Prerequisite: History 22. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 139

183. *Advanced European History.* 3 credit hours. (Not given in 1928-29.)
192. *Historical Method.* 3 credit hours. (Not given in 1928-29.)

PRIMARILY FOR GRADUATES

251. *Seminar in Western American History.* 2 credit hours.

POLITICAL SCIENCE

Group Requirements. Courses in Political Science are accepted toward the fulfillment of the requirements in Group III.

Major Study. For a major study, students must complete 30 hours, including courses 21 and 22.

Minor Study. For a minor study, students must complete 18 hours, including courses 21 and 22.

PRIMARILY FOR UNDERGRADUATES

21. *American Government.* A general survey of the organization of American government (national, state, and local.) 3 credit hours.
22. *American Government.* Continuation of course 21, which is a prerequisite. 3 credit hours.
71. *European Government.* A study of the organization of the principal governments of Europe. 3 credit hours.
72. *European Government.* Continuation of course 71, which is a prerequisite. 3 credit hours. (Not given in 1928-29.)

FOR ADVANCED UNDERGRADUATES AND GRADUATES

101. *Municipal Government.* A study of the organization of city government in the United States. Prerequisites: Courses 21 and 22. 3 credit hours. (Not given in 1928-29.)

102. *Party Government.* A study of the organization and functions of political parties in the United States. Prerequisites: Courses 21 and 22. 3 credit hours. (Not given in 1928-29.)
141. *International Law and Relations.* A study of the origin, development, and practical application of the rules governing the intercourse of nations. Prerequisite: 6 hours of History or Political Science. 3 credit hours. (Not given in 1928-29.)
161. *Problems of Democracy.* A study of some of the more important problems of modern democracy. Prerequisite: 6 hours of History or Political Science. 3 credit hours. (Not given in 1928-29.)
- (Note: The above courses will be revised before September 1, 1929.)

DEPARTMENT OF HOME ECONOMICS

MRS. ELIZABETH SIMPSON, B. S., Professor.

*MILDRED E. DODDS, B. S., M. S., Assistant Professor.

**SUSAN MOSER, B. S., M. S., Instructor.

Major Study. To complete a major study in Home Economics, students must present credits in courses 11, 12, 53, 54, 61, 62, 105, 106, 127, 132, 181 and 194.

Minor Study. To complete a minor study in Home Economics, students must present credits to the total of 12 hours in courses bearing numbers above 50.

PRIMARILY FOR UNDERGRADUATES

- 11-12. *Clothing and Textiles.* Construction of garments, emphasizing technique and principles of art applied to dress. Problems in cotton materials and sport silk. Study of textiles. 1 lecture and 2 laboratory periods a week. 3 credit hours each.

*Resigned, January, 1929.

**Beginning January, 1929.

COURSES IN DEPARTMENTS OF INSTRUCTION 141

53. *Foods and Cookery.* Food supply in relation to source, composition, nutritive value, cost, and proper combinations. Practical work in beverages, cereals, vegetables, eggs, milk, cheese, and meat. 1 lecture and 2 laboratory periods a week. 3 credit hours.
54. *Foods and Cookery.* Continuation of 53. Practice includes flour mixtures, fats, salads, desserts, preparation and serving of breakfast, luncheon, and dinner. Attention is given to nutritive value, cost, artistic arrangement of table and food. Prerequisite: 53. 1 lecture and 2 laboratory periods a week. 3 credit hours.
61. *Dressmaking.* Fundamental principles of selection and construction of clothing. Advanced study of textiles. Problems in wool. Prerequisite: 12. 1 lecture and 2 laboratory periods a week. 3 credit hours.
62. *Dressmaking.* Continuation of 61. Problems of silk. Study of historic costume. Prerequisite: 61. 1 lecture and 2 laboratory periods a week. 3 credit hours.
75. *Art.* Fundamental principles of design, handicraft, and interior decoration. 1 lecture and 2 laboratory periods a week. 3 credit hours.

FOR ADVANCED UNDERGRADUATES

105. *Advanced Foods.* Preservation of foods, food laws, canning and advanced cookery. Prerequisite: 54 and Chemistry 68. 1 lecture and 2 laboratory periods a week. 3 credit hours.
106. *Advanced Foods.* Review of courses 53, 54, 105, with special emphasis on fundamental principles of nutrition. Advanced cookery. Demonstration in selection and preparation of foods. Prerequisite: 105. 1 lecture and 2 laboratory periods a week. 3 credit hours.
127. *Dietetics.* Dietary standards. Relation of food to health, food requirements dependent on age, occupation, and health. Prerequisite: 106. 4 credit hours.

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132. *Home Management and Sanitation.* Care of the house, household accounts, ventilation, water supply, heating, lighting, site and surroundings, the home as social center. Prerequisite: 106. 3 credit hours.
138. *Care of Children.* Growth, development, and care of the child through infancy, childhood, and adolescence. 3 credit hours.
181. *Serving of Meals.* Actual experience in selecting and purchasing food. Cooking and serving of daily meals and meals for special occasions. Prerequisite: 106. 2 lecture hours, 6 practice hours a week. 4 credit hours.
194. *Teacher's Course.* Principles underlying curricula, methods of presentation, planning and equipping laboratories. Prerequisite: 62 and 106. 4 credit hours.

DEPARTMENT OF LIBRARY SCIENCE

WILMA LOY SHELTON, B. A., B. L. S.,
Associate Professor

1. *Elementary Library Science.* Introduction to library methods, with a survey of cataloguing, classification, and the standard works of reference. Problems, discussions, and lectures. 2 credit hours.

DEPARTMENT OF MATHEMATICS

CHARLES ANTHONY BARNHART, M. A., Professor.
J. B. BAKER, M. S., Associate Professor.
CARROLL V. NEWSOM, M. A., Instructor.

Group Requirements. Students in the College of Arts and Sciences or the College of Education may elect the courses Mathematics 17 (or 11), and 18 toward fulfilling the requirements of Group IV.

COURSES IN DEPARTMENTS OF INSTRUCTION 143

Major Study. A major study in mathematics consists of a minimum of 24 hours earned in courses numbered above 20.

Minor Study. A minor study in mathematics consists of a minimum of 12 hours earned in courses numbered above 20.

PRIMARILY FOR UNDERGRADUATES

- A. *Solid Geometry.* Prerequisites: Entrance algebra, 1 unit; plane geometry, 1 unit. (Open only to students registered in the College of Engineering and to students who plan to register in calculus.) 2 hours a week, no college credit.
11. *Introductory Course.* A combined course which completes the subject matter of college algebra and plane trigonometry. Prerequisites: Entrance algebra, 1 unit; plane geometry, 1 unit. 6 credit hours.
17. *Freshman Course.* A combined course in college algebra and plane trigonometry. Prerequisites: Entrance algebra, $1\frac{1}{2}$ units; plane geometry, 1 unit. 5 credit hours.
18. *Plane Analytic Geometry.* (New course for freshmen to replace Mathematics 21, 22.) Prerequisites: Mathematics 17 (or 11.) 5 credit hours.
- 21-22. *Plane Analytic Geometry.* (Sophomore course to be discontinued after 1929-30.) Prerequisites: College algebra, plane trigonometry. 3 and 2 credit hours, respectively.
- 51-52. *Differential and Integral Calculus.* (To be discontinued after 1929-30.) Prerequisites: Solid geometry, college algebra, plane trigonometry. 3 and 4 hours, respectively.
- 53-54. *Calculus.* (To replace Mathematics 51, 52 beginning in 1930-31.) Prerequisites: Mathematics A, 17 (or 11), 18. 5 credit hours each.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

(The following will be given as facilities permit. Applicants for graduate work should consult the chairman of the department in advance.)

- 102. *Modern Geometry*. Prerequisite: Mathematics 22. 3 credit hours.
- 106. *Mathematics of Investments*. Prerequisite: Mathematics 15. 3 credit hours.
- 107. *Descriptive Astronomy*. Prerequisite: Mathematics 22. 3 credit hours.
- 111. *Spherical Trigonometry with Application to Astronomy*. Prerequisite: Mathematics 22. 3 credit hours.
- 113. *Theory of Determinants*. Prerequisite: Mathematics 52. 2 credit hours.
- 115. *Theory of Equations*. Prerequisite: Mathematics 51. 3 credit hours.
- 121. *Analytic Geometry of Space*. Prerequisite: Mathematics 52. 3 credit hours.
- 151. *Advanced Calculus*. Prerequisite: Mathematics 52. 3 credit hours.
- 152. *Differential Equations*. Prerequisite: Mathematics 52. 3 credit hours.
- 161. *History of Mathematics*. Prerequisite: Mathematics 52. 3 credit hours.
- 162. *Teachers' Course*. Prerequisite: Mathematics 22. 3 credit hours.
- 181-182. *Prè-Seminar*. Prerequisite: A minor in mathematics. (Not open to graduate students.) 2 credit hours each semester.

PRIMARYLY FOR GRADUATES

- 214. *Modern Algebra*. Prerequisites: Mathematics 113 and 115. 3 credit hours.
- 221. *Projective Geometry*. Prerequisites: Mathematics 102 and 121. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 145

222. *Introduction to Differential Equations*. Prerequisites: Mathematics 115, 151, and 152. 5 credit hours.
- 241-242. *Functions of a Complete Variable*. Prerequisites: Mathematics 115, 151, and 152. 3 credit hours each.
- 247-248. *Theory of Statistics*. Prerequisites: Mathematics 106, 151, and 152. 3 credit hours each.
- 251a. *Seminar*. 2 to 3 credit hours. Note.—If more than one semester is given, the course will be numbered 251b, etc.

DEPARTMENT OF MECHANICAL ENGINEERING

J. B. BAKER, M. S., Associate Professor.

ALEXANDER W. LUCE, B. S., M. E., Assistant Professor.

51. *Machine Drawing*. Sketches, detail, and assembly drawings of machine parts according to commercial practice. Prerequisite: PM 18. Two three-hour drawing periods. 2 credit hours.
52. *Empirical Design*. Design of machine elements from empirical formulae; use of handbook; detail drawings. Prerequisite: ME 51. Two three-hour drawing periods. 2 credit hours.
54. *Materials*. The common materials of construction, metallurgy of iron and steel, heat treatment, foundry methods. Prerequisite: Chemistry 2. 2 lecture hours per week. 2 credit hours.
- 101-102. *Thermodynamics*. Transformation of heat into work, the second law, properties of heat media, perfect gases, saturated and superheated vapors, flow of fluids, engines, turbines. Prerequisites: Mathematics 52 and Physics 52. 3 hours recitation per week. 3 credit hours each.
103. *Steam Power Plants*. Application of thermodynamics to engines, boilers, pumps, condensers, etc. Prerequisite: ME 102. 3 hours recitation per week. 3 credit hours.

104. *ME Heat Laboratory.* Standard tests of steam equipment. One three hour laboratory period. One credit hour. For students of electrical and civil engineering. Prerequisites: ME 101. 2 credit hours.
105. *Mechanical Engineering Laboratory.* Standard methods of testing mechanical engineering equipments. Prerequisite: ME 102. 1 hour lecture and 6 hours laboratory per week. 3 credit hours.
106. *Internal Combustion Engines.* Gas, oil, and gasoline engines, designs, and thermodynamics applications. Prerequisite: ME 102. 3 hours recitation and lecture per week. 3 credit hours.
113. *Rational Design.* Development and use of rational formulae for design of machine elements; analysis; computations; detail drawings. Prerequisites: ME 52, Math. 52, Phys. 52. Two two-hour recitations and two three-hour drawing periods. 4 credit hours.
114. *Mechanisms.* Link motions; cams; gears; kinematics. Prerequisites: CE 105, PM 18. Two hours lecture and two three-hour laboratory periods. 4 credit hours.
- 115-116. *Machine Design.* Design of machinery subjected to heavy and variable stresses. Prerequisites: ME 113, 114. 2 recitations and three three-hour laboratory periods, first semester. 3 hours recitation and 3 hours drawing second semester. 5 credit hours and 4 credit hours respectively.
118. *Plant Design.* Layout and correlation of essential components of an industrial plant. Prerequisites: ME 103, ME 113. 6 hours in-drafting room per week. 2 credit hours.
- 121, 122, 123, 124. *Seminar.* Review of current literature, reports. One hours each semester required of junior and senior mechanical engineering students. 1 credit hour each.

COURSES IN DEPARTMENTS OF INSTRUCTION 147

- 132. *Industrial Management.* The application of economics to engineering problems. 3 hours lecture per week. 3 credit hours.
- 141. *Theory of Aviation.* Essential principles of aeronautics; results of wind tunnel and flight experiments; modern aerodynamical theories. Prerequisites: CE 105. Three hours recitation per week. 3 credit hours.
- 142. *The Aeroplanes.* A description of modern aircraft; the performances of airplanes; the aircraft power plant. Prerequisites: ME 141. Three hours recitation per week. 3 credit hours.
- 144. *Propellers and Instruments.* The theory of propellers; analysis of propeller performance; discussion of aeronautical instruments and control devices. Prerequisite: ME 141. Three hours recitation per week. 3 credit hours.
- 146. *Aeroplane Design.* Design of the airplane from aeronautic and strength standpoints. Discussion and practice. Prerequisites: ME 141, ME 115. Six hours in drafting room per week. 2 credit hours.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURE

HELENE M. EVERS, Ph. D., Associate Professor.

*DIETRICH D. NEUFELD, Ph. D., Assistant Professor.

ANITA M. OSUNA, M. A., Assistant Professor.

WILLIAM F. J. DE JONGH, M. A., Instructor.

JOHN E. ENGLEKIRK, M. A., Instructor.

Entrance Requirements. Students who enter with two units of French, Spanish, or German may enroll in French 55, Spanish 51 or 53, or German 51. If they have not had a course in the respective language the preceding half year,

*On leave of absence, 1928-29.

they are admitted to these courses by permission and on trial. Students who enter with four units may enroll in French 103 or Spanish 103.

Major Study. In Spanish, 24 credit hours above 1 and 2, including 103-104. A minor in French or in Latin will be required of students who offer a major study in Spanish. For these students, English 53, 78, 91, 95, 96, and History 1, 2, and 141 are strongly recommended as electives. No major study in French or German is offered at present.

Minor Study. In French or Spanish, 12 hours above 1, 2, including 53, 54. No minor study in German is offered at present.

FRENCH

PRIMARILY FOR UNDERGRADUATES

1-2. *Elementary French.* 4 credit hours each.

55-56. *Intermediate French.* Reading and composition. 4 credit hours each.

111-112. *Literature of the 19th and 20th Centuries.* 3 credit hours each.

GERMAN

PRIMARILY FOR UNDERGRADUATES

1-2. *Elementary German.* 4 credit hours each.

51-52. *Intermediate German.* 3 credit hours each.

SPANISH

PRIMARILY FOR UNDERGRADUATES

1-2. *Elementary Spanish.* 5 credit hours each.

3. *Review of Fundamentals.* Three hours a week. No credit.

51-52. *Intermediate Reading.* 3 credit hours.

53-54. *Intermediate Composition.* 2 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 149

FOR ADVANCED UNDERGRADUATES AND GRADUATES

103-104. *Advanced Composition and Conversation*. Prerequisites: 51, 52, 53 and 54. 3 credit hours each.

111-112. *Literature of the 19th and 20th Centuries*. 3 credit hours each.

(Not more than four credit hours of the following will be offered in any one semester.)

141. *Modern Syntax*. 2 credit hours.

151. *Survey Courses*. 3 credit hours.

153. *Phonetics*. 2 credit hours.

191. *Course for Teachers*. 2 credit hours.

FOR GRADUATES

201. *Historical Grammar*. 3 credit hours.

202. *Old Spanish Readings*. 1 or 2 credit hours.

DEPARTMENT OF MUSIC

GRACE THOMPSON, B. MUS., Associate Professor of Music.

CORA FERNE PIERCE, Instructor in Piano and Theory.

FLORENCE SMITH, Instructor in Voice.

IONE AITKEN, B. MUS., Instructor in Violin and Theory.

NINA ANCONA, Part-Time Instructor in Pipe Organ.

Major Study. A major study in Music implies specialization in voice, piano, or violin, and consists of a minimum of 24 credit hours in courses not open to freshmen, including theory and history of music.

Minor Study. The requirement for a minor study is one-half of the requirement for a major study.

Fees. Additional fees are charged respectively, for Piano, Voice, Violin and for Pipe Organ. See page 39.

Miscellaneous. Each student of Voice, Piano, or Organ, is required to give one successful performance in recital, during the junior and senior years.

THEORY OF MUSIC

- 1-2. *Elementary Harmony*. Scales, intervals, triads and their inversions, chord connections and simple part writing from given melodies; chords of the seventh with their inversions in exercises; examples and transpositions of chord progressions at the piano; the principles of form and form elements; ear work from the harmonic viewpoint. 2 credit hours.
- 11-12. *Ear-Training and Sight Singing*. Two hours a week. 1 credit hour.
- 51-52. *Advanced Harmony*. Modulations, foreign tones, dominant ninth chord and its inversions, secondary seventh chords, accompaniments, original work, keyboard work. Two hours a week. 2 credit hours.
- 61-62. *History of Music*. Two recitations a week. 2 credit hours.
- 93-94. *Methods in Music for Public Schools*. Methods of teaching music in the public school. A study of available textbooks. Observation and practice as far as feasible. Prerequisites: Music 1, 2, 11, 12. Two recitations a week. 2 credit hours.
- 101-102. *Melody Writing and Counterpoint*. Prerequisites: Music 1 and 2. Two recitations a week. 2 credit hours.

Ensemble Music. The following courses are organized each year, when circumstances permit: Choruses for men's, women's and mixed voices, Orchestra and Band. Each course in chorus includes instruction and practice in sight reading. Open to all students. Credit for more than four semesters in ensemble music is not counted towards graduation. One or two meetings a week, earning $\frac{1}{2}$ to 1 credit hour.

VOICE

The offerings in Voice are intended to develop the voice and perception of music, so that all vocal music can be inter-

preted with understanding and spontaneity. A complete course in the art of vocalization is offered, including a series of graded studies selected from the works of the celebrated masters, together with other exercises adapted to the needs of individual students. Students transferring from other Universities will be given placement examinations.

Students will generally be able to complete each of the following courses at the rate of two half-hour lessons a week, with outside practice, as prescribed in each case. Students who do not care to carry at any one time so heavy a course in voice may register for one lesson a week. Students are expected to attain such standards of proficiency as are established for each year's work, and those who fail to do so are required to register in the same course for no additional credit in order to attain eligibility for registration in the next following course.

- 1a, b, 2a, b. *Freshman Course*. Scientific instructive ideas in natural breathing; development of the singing tone; vocal exercises compiled by Abt, Nana-Concone, Panopka, Sieber, and Gorrell; simple Italian and English songs to develop the emotional and artistic abilities of students. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.
- 51a, b, 52a, b. *Sophomore Course*. Further attention is given to the development of pure tone; vocal exercises compiled by Bordoni, and Marchesi; simple classics of Italian, German, and English composers. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.
- 101a, b, 102a, b. *Junior Course*. Advanced technique and simple arias from Italian and French operas; the oratorio; modern French and English songs. A maximum of 8 credit hours may be earned in this course.

One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.

151a, b, 152a, b, *Senior Course*. Advanced technical studies for the development of the singing voice; repertoire in opera and oratorio; public appearance and recitals as prescribed. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.

195a, b, 196a, b, *Advanced Courses*. Prerequisite: Voice 151, 152. One or two lessons a week. 2 or 4 credit hours.

PIANO

(Note.—Beginning pupils are not accepted. In order to be eligible for registration in piano 1, applicants must have had satisfactory training in Hanon's Exercises, Easy Studies of Koehler, Little Preludes of Bach, or the equivalent. Each applicant for piano will be given a placement examination.)

Students will generally be able to complete each of the following courses at the rate of two half-hour lessons a week, and outside practice as prescribed in each case. Students who do not care to carry at any one time so heavy a course in piano may register for one lesson a week. Students are expected to attain such standards of proficiency as are established for each year's work, and those who fail to do so are required to reregister in same course for no additional credit in order to attain eligibility for registration in the next following course.

1a, b, 2a, 2b, *Freshman Course*. Development of technique. Pedal exercises. Major scales in parallel motion and thirds, sixths and tenths. The equivalent of the following will be studied: Bach's Little Preludes, and Two-part Inventions, Czerny 299, Heller Studies, easy Mozart and Haydn Sonatas, Hanon's Virtuoso Pian-

COURSES IN DEPARTMENTS OF INSTRUCTION 153

ist, Rogers Double Note Studies, Vogt Octave Studies. One or two private lessons a week. 2 or 4 credit hours.

51a, b, 52a, b. *Sophomore Course*. Compositions designed to develop artistic appreciation and interpretation. Exercises to increase ability, accuracy, and endurance. Special attention to touch, tone and the left hand. Minor scales and arpeggios, sixths, tenths, or thirds. Czerny, Op. 740; Bertini, Selected Studies; or Cramer, Selected Studies. Sonatas and pieces as the student may require. One or two private lessons a week. 2 or 4 credit hours.

101a, b, 102a, b. *Junior Course*. Selections studied will be the following or their equivalent: Clementi, Gradus ad Parnassum; Bach, Well-Tempered Clavichord; Beethoven, Sonatas; Chopin, Preludes, and Nocturnes; MacDowell, Grieg and other modern composers. Appearances in recital and in accompanying are required. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.

151a, b, 152a, b. *Senior Course*. Pieces of concert grade by Liszt, Chopin, Debussy, Brahms, Grieg, Tchaikowsky, and others, or their equivalent, will be studied. A public recital from memory is required towards the end of the senior year. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours.

195a, b, 196a, b. *Advanced Studies in Repertoire*. A concerto will be studied. Prerequisite: Piano 151, 152. One or two lessons a week. 2 or 4 credit hours.

PIPE ORGAN

1a, b, 2a, b. *Freshman Course*. Pedal exercises, exercises for independence between manuals and pedals, registration, and hymn-playing. Stainer: The Organ, and Schneider: Forty-four Studies for the Organ will be used. Prerequisite: Piano 1 and 2. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

51a, b, 52a, b. *Sophomore Course*. Special attention will be given to solo and choir accompaniment, practice in sight reading, and music for use in church services. Dudley Buck: Studies in Pedal Phrasing, and Bach: Little Preludes and Fugues will be used. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

101a, b, 102a, b, 151a, b, 152a, b. *Advanced Courses for Juniors and Seniors*. Advanced compositions suitable for church and concert use. Particular attention will be given to interpretation and registration and individual needs of each student. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

VIOLIN

Students will generally be able to complete each of the following courses at the rate of two half-hour lessons a week, and outside practice as prescribed in each case. Students who do not care to carry at any one time so heavy a course in violin may register for one lesson a week. Students are expected to attain such standards of proficiency as are established for each year's work, and those who fail to do so are required to reregister in same course for no additional credit in order to attain eligibility for registration in the next following course.

COURSES IN DEPARTMENTS OF INSTRUCTION 155

1a, b, 2a, b. *Freshman Course*. Thorough grounding in fundamentals. Exercises and pieces selected according to the needs and temperament of individual students. Belgian School of the Violin, Book I is used. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each semester.

51a, b, 52a, b. *Sophomore Course*. The seven positions; further study of bowing and of technique; double stopping and natural harmonics. Belgian School of the Violin, Book II, and Maza's Etudes will be used and other pieces assigned according to needs of the students. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each semester.

101a, b, 102a, b. *Junior Course*. Advanced work in the different varieties of bowing; scales; chords, double stopping and advanced technique. Belgian School of the Violin, Book III, exercises of Kayser and Kreutzer, orchestral and ensemble playing, and standard pieces embodying practical application of newly learned principles. A maximum of 8 credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each semester.

151a, b, 152a, b. *Senior Course*. Advanced study. Three octave scales with Paganini fingering; concertos and sonatas suitable to advanced students; musical intelligence; Belgian School of the Violin, Book IV, exercises of Kreutzer, Fiorillo, and Rode. Student is required to give a recital program including a concerto or sonata and groups of smaller numbers. A maximum of 8 credit hours may be earned in this

course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each.

- 195a, b, 196a, b. *Advanced Courses*. Prerequisites: Violin 151, 152. One or two lessons a week. 2 or 4 credit hours.

DEPARTMENT OF PHYSICAL EDUCATION

ROY W. JOHNSON, B. A., Professor and Director
of Athletics.

LORETTA BARRETT, B. A., Instructor.

MALCOLM A. LONG, B. A., Assistant Director.

HARRY W. BLISS, Assistant Coach in Football.

(Note.--Participation in major sports can be counted toward meeting the requirement in the case of men and may be substituted in some cases for the courses in gymnasium work indicated below. The following courses have two objects: to correct physical defects and weaknesses, and to supply the needs of students who otherwise are not taking sufficient exercise.)

COURSES FOR MEN

- 1-2. *Freshman Course*. Setting up exercises, elementary floor and apparatus work, games involving agility. Required of all Freshmen, and of upper classmen who have not credit for a similar course. Three hours per week. 1 credit hour.
- 51-52. *Sophomore Course*. Advanced floor and apparatus work, and games such as wrestling, boxing, fencing, swimming, etc. Required of all sophomores and upper classmen who have not credit for a similar course. Three hours per week. 1 credit hour. (First given 1929-1930.)
- 57-58. *Boxing and Wrestling*. Elective, and may be substituted for 51, 52. Credit earned in this course is

COURSES IN DEPARTMENTS OF INSTRUCTION 157

not counted towards a degree in addition to credit earned in 1, 2, 51, and 52. Two hours a week. 1 credit hour.

135-136. *Coaching*. Strategy and tactics as applied to football, basketball, and track. Lectures, quizzes, and assigned readings. Open to all advanced students or to those who have been members of a Varsity squad. 2 credit hours.

COURSES FOR WOMEN

The uniform consists of white blouse, black knickers, light tan hose, and high all-white tennis shoes.

5-6. *Freshman Course*. This course is adapted to the needs of students as revealed by their physical examinations. Swimming, tennis, hockey, horse-back riding, volley-ball, posture training, floor work, dancing, basket-ball, base-ball, golf, and track and field athletics. Required of all Freshmen and of upper class students who do not have credit for a similar course. Three hours per week. 1 credit hour.

55-56. *Sophomore Course*. Swimming, tennis, field hockey, horse-back riding, volley ball, posture training, floor work, dancing, basket-ball, base-ball, golf, and track and field athletics. Prerequisite: 5, 6. Required of all second-year students. Three hours per week. 1 credit hour.

105-106. *Recreational Leadership*. Psychology of play, practice of games, suitable to different ages, organization, equipment and management of play-grounds, community recreation in its relation to mental hygiene, and social attitudes, Girl scouts, Camp fire girls, and Girls Clubs. Lectures, recitations and practices. Prerequisites: 5, 6, 55 and 56. Three hours per week. 3 credit hours.

DEPARTMENT OF PHYSICS

ROBERT S. ROCKWOOD, M. S., Professor.

F. M. DENTON, A. C. G. I., Associate Professor.

CARROLL V. NEWSOM, M. A., Instructor.

Major Study. 24 credit hours, but not including 1, 2, and 61.

Minor Study. 12 hours, but not including 1, 2, and 61.

Note.—Courses 51 and 52 may be taken without 53 and 54 by students of the College of Arts and Sciences. All laboratory periods are of 3 hours each.

- 1-2. *General Physics.* Intended to give a general knowledge of physics. Students who offer physics as an entrance requirement will receive half credit. Lectures and problems, 3 hours, laboratory, 1 period per week. 4 credit hours each.
51. *Advanced General Physics.* Mechanics, magnetism, and electricity. Lectures and recitations, 3 hours per week. Prerequisite: Physics 1 and 2, and mathematics 16. 3 credit hours.
52. *Advanced General Physics.* Heat, sound, and light. Lectures and recitations, 3 hours per week. Prerequisite: Physics 51. 3 credit hours.
53. *Laboratory Physics.* Mechanics, magnetism, and electricity. To accompany Physics 51. Discussion and problems, 1 hour; laboratory, 1 period per week. 2 credit hours.
54. *Laboratory Physics.* Heat, sound and light. To accompany Physics 52. Discussion and problems, 1 hour; laboratory, 1 period per week. 2 credit hours.
61. *Household Physics.* Intended for students of home economics. Lectures and recitations, 3 hours per week. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 159

FOR ADVANCED UNDERGRADUATES AND GRADUATES

112. *Electricity and Magnetism*. Lectures and recitations; 2 hours per week. Prerequisites: Physics 51, 52, and mathematics 51 and 52. 2 credit hours.

114. *Electrical Measurements*. To accompany Physics 112. Laboratory, 2 periods per week. 2 credit hours.

(Note.—The following courses will be offered as circumstances permit.)

131. *History of Physics*. Lecture 2 hours per week. Prerequisite: Physics 51 and 52. 2 credit hours.

151. *Seminar*. Prerequisites: Physics 51, 52, 53, 54. 2 credit hours.

156. *Advanced Light*. Lecture and recitations, 2 hours per week. Prerequisites: Physics 51, 52, 53, 54, and mathematics 51 and 52. 2 credit hours. (Not given in 1929-1930.)

162. *Advanced Heat*. Lectures and recitations, 2 hours per week. Prerequisites: Physics 51, 52, 53, 54, and calculus. 2 credit hours.

164. *Heat Laboratory*. To accompany Physics 162. Laboratory 2 periods per week. 2 credit hours.

171. *Atomic Structure*. Lectures, 2 hours per week. Prerequisites: Physics 51, 52. 2 credit hours.

FOR GRADUATE STUDENTS

201. *Einstein's Theory of Relativity*. Prerequisites: Mathematics 51, 52, and Physics 51, 52. 2 credit hours.

DEPARTMENT OF PRACTICAL MECHANICS

ALEXANDER W. LUCE, B. S. in M. E., M. E.,
Assistant Professor.

4. *Pattern Shop*. Bench and lathe work in wood. Practice in the interpretation of working drawings.

- Pattern making. Instruction in molding and core making. 6 hours shop work per week. 2 credit hours.
6. *Machine Shop.* Bench forging and machine work in metals. 6 hours shop work per week. 2 credit hours.
- 17-18. *Engineering Drawing and Descriptive Geometry.* Correlation of the science and practice of mechanical drawing. Lettering. Projections. Developments. Intersections. Pictorial Representations. Sketching. Tracing. Prerequisite: Mathematics A or enrollment for it first semester. One hour recitation. 6 hours in drafting room per week. 3 credit hours each.

DEPARTMENT OF PSYCHOLOGY

BENJAMIN F. HAUGHT, Ph. D., Professor.

ARABELLA STERRETT, B. A., Graduate Assistant.

Group Requirements. Courses 51, 52, 121 and 122 are accepted toward fulfillment of the requirements in Group IV.

Major Study. Students majoring in psychology will complete 24 hours in the department.

Minor Study. Students minoring in psychology will complete 12 hours in the department.

FOR UNDERGRADUATES

51. *General Psychology.* A general survey of Psychology; its material, fundamental laws, applications, and relations to other sciences. 2 lectures and 1 class experiment each week. 3 credit hours.
52. *General Psychology.* A continuation of 51 with some attention to applications to medicine, law, advertising, education, etc. 2 lectures and 1 class experiment each week. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION 161

54. *Educational Psychology*. An elementary course emphasizing the following topics: inherited nature, learning and study, transfer of training, individual differences and their causes, the maladjusted and the backward child. Prerequisite: 51 or its equivalent. 3 recitations a week. 3 credit hours.

FOR ADVANCED UNDERGRADUATES AND GRADUATES

- 101 *Social Psychology*. A study of behavior as influenced by other human beings. 3 lectures or recitations each week. Prerequisite: 51 or 54. 3 credit hours.
103. *Abnormal Psychology*. Mental adjustments, conflicts and dissociations, suggestion and hypnotism; types of insanity, hereditary factors in mental disorganizations. 3 lectures or recitations each week. Prerequisite: 51 or 54. 3 credit hours.
121. *Experimental Psychology*. The exercises are so selected and arranged as to familiarize the student with the methods, apparatus and results of experiments in each of the approved lines of psychological research. Prerequisite: 51 and 52. 3 credit hours.
122. *Experimental Psychology*. A continuation of 121. Prerequisite: 51 and 52. 2 credit hours.
183. *Educational Psychology*. The nature of learning and retention; learning curves, their uses and significances; factors affecting the rate and permanency of learning; problems relating to the learning capacity; transfer of training; applications to practical school work. Lectures, experiments, and discussions. Prerequisite: 51 or 54. 3 credit hours.
185. *Intelligence Tests*. A survey of group and individual tests, interests, rating scales, trade tests, other determinants of results. Prerequisite: 51 or 54. 3 credit hours.

186. *Educational Tests.* A survey of the available tests; the technique of giving and scoring tests; the tabulation and interpretation of scores; the construction of new type examinations. Prerequisite: 51 or its equivalent. 3 credit hours.
189. *Employment Psychology.* Topics; history of vocational psychology, types of mental tests, mental test technique, evaluating tests, interests, rating scales, trade tests, other determinants of vocational fitness. Prerequisite: 51 or 54. 3 credit hours.
192. *Statistical Methods.* A study of statistical methods as applied to psychology and education. 3 lectures or recitations each week. 3 credit hours.

PRIMARILY FOR GRADUATES

211. *Comparative Psychology.* A survey of original studies dealing with experiments on instincts, heredity, learning, delayed reactions, multiple choice reactions. Prerequisite: Consent of the instructor. 3 credit hours.
- 251a. *Special Problems.* A detailed study of a problem agreed upon by the student and the instructor. Prerequisite: Consent of the instructor. 2 credit hours. More than one semester's work is recorded as 251b, 251c, etc.

SUMMER SESSION

The University of New Mexico, after a lapse of four years, resumed summer instruction in 1922 with a session six weeks in length.

In 1926, the summer session was extended to eight weeks and has been of that length yearly.

The Bulletin of the Summer Session contains a list of the instructors and a description of the courses offered.

A large variety of courses is offered with special attention given to the needs of teachers and prospective teachers. All courses may be counted towards the baccalaureate degree, unless otherwise specified, and in some cases arrangement may be made to pursue work leading to the master's degree.

PURPOSE

The purposes of the summer session are to enable regular students to put ahead the day of their graduation, to obtain instruction in courses not offered in the regular session, and to afford to all interested adults an opportunity to turn their vacation to account. Numerous courses are designed particularly for ambitious teachers, principals, superintendents, and coaches of athletic teams.

ADMISSION

Admission to regular status in courses for which credit toward a degree is granted is limited to students who can meet the regular requirements of admission. Any person of good character, who is over twenty-one years of age (eighteen years of age in the case of teachers) may be admitted subject to the general regulations of the University relating to special students.

MISCELLANEOUS INFORMATION

All information desired relating to courses, credit, requirements for degrees, tuition, fees, board and lodging on the campus, etc., may be found in the Summer Session Bulletin, which will be sent free on request.

COURSES OF STUDY

SUMMER SESSION, 1928

Art	Instructor Fricke
Indian Art	Visiting Instructor Chapman
General Zoology	Instructor Thompson
Heredity	Instructor Thompson
Organic Evolution	Instructor Thompson
Economic Geography	Professor Roloff
Modern Economic Life	Professor Roloff
Business Letter Writing	Professor Roloff
Problems of the County Superintendent	Visiting Professor Hart
Problems in the Teaching of the Language Arts	Assistant Professor Tireman
Problems in the Teaching of the Content Subjects	Assistant Professor Tireman
History of Education in Europe	Visiting Instructor Donaldson
Classroom Organization and Management	Visiting Instructor Stewart
Introduction to Education	Visiting Instructor Donaldson
Educational Sociology	Visiting Instructor Stewart
Methods of High School Teaching	Professor Nanninga
The Junior High School	Visiting Instructor Donaldson
Administration of Public Education	Professor Nanninga
The Principal and His School	Visiting Instructor Stewart
The Elementary School Curriculum	Visiting Professor Kyte
Review English	Assistant Professor Wicker
Freshman Composition	Assistant Professor Wicker
Greek Literature in Translation	Professor Mitchell
Public Speaking	Assistant Professor Wicker
Elizabethan Drama	Assistant Professor Wicker
History of Europe	Assistant Professor Neufeld
The Graeco-Roman Heritage	Professor Mitchell
History of the United States	Instructor Reeve
New Mexico History and Civics	Instructor Reeve
History of Russia and the East	Assistant Professor Neufeld
Child Care	Instructor Rosenberger
The Teaching of Home Economics	Instructor Rosenberger
Elements of School Health	Instructor Luckett

Educational Hygiene	Instructor Walton
Plays and Games for Elementary Schools	Instructor Walton
Swimming	Instructor Walton
Coaching Girls Athletics	Instructor Walton
Coaching of Foot Ball and Track	Coach Johnson
Coaching of Basket Ball	Coach Johnson
Swimming	Coach Johnson
Library Reference Course	Librarian Shelton
Library Methods for Teachers	Librarian Shelton
College Algebra	Professor Barnhart
Plane Trigonometry	Professor Barnhart
Mathematics Course for Teachers	Professor Barnhart
Elementary French	Assistant Professor Neufeld
Elementary German	Assistant Professor Neufeld
Advanced German	Assistant Professor Neufeld
Spanish, Review Course	Assistant Professor Osuna
Spanish Short Story	Assistant Professor Osuna
Spanish-Modernist Movement	Assistant Professor Osuna
Piano	Instructor Pierce
Voice	Instructor Smith
Public School Music	Professor Thompson
Educational Psychology	Professor Haught
Intelligence Tests	Professor Haught
Objective Measurement	Professor Haught

SUMMER SESSION, 1929

S. P. NANNINGA, Ph. D., Director.

JUNE 3 TO JULY 27, EIGHT WEEKS

College courses may be had in the following departments:

Archaeology and Anthropology
Art
Biology
Economics
Education:
 Elementary Education
 Secondary Education
 School Administration
 Educational Psychology
 History of Education
 Classroom Organization and Control
 Elementary School Curriculum
 Methods
 Supervision of Elementary Education
 Educational Tests

Intelligence Tests
Statistics and Measures
Educational Hygiene
English
French
Geography
Geology
History and Political Science
Home Economics
Hygiene
Mathematics
Music
Physical Education:
 Athletic Coaching
 Plays and Games
 Swimming
Psychology
Spanish

A VACATION OPPORTUNITY

FACULTY includes men and women with credentials of graduate training in leading universities.

RECREATION—Popular lectures. Visits to mountains, Indian villages, and ancient ruins may be made. Out-of-doors swimming pool.

GENERAL FEES, \$12.50 for Session; \$20.00 for non-residents of state; new students must pay matriculation fee of \$5.00.

BOARD AND ROOM ON CAMPUS, \$32.50 to \$37.50 a month. Accommodations are for limited number only. Remit five dollars for advance reservation.

Opportunity for vacation study and recreation in the great "Health Country." Intended for teachers, college students, and adults seeking self-improvement.

Address

REGISTRAR, SUMMER SESSION

The University of New Mexico, Albuquerque, New Mexico

DIRECTORY OF STUDENTS 1928-1929

The following list of names includes all students registered prior to April 1, 1929, during the academic year beginning June 5, 1928, and ending June 3, 1929. This classification is tentative only and is in accordance with credits earned before April 1, 1929. No additions for bonuses nor deductions for penalties have been included.

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

CLASS	COLLEGE		
	Arts and Sciences	Education	Engineering
Freshmen	0 - 26	0 - 26	0 - 30
Sophomores	27 - 56	27 - 56	31 - 65
Juniors	57 - 90	57 - 90	66 - 105
Seniors	91 - 124	91 - 124	106 - 144

A special student is a person over twenty-one years of age who has not fully satisfied the entrance requirements.

The Extension Division includes students enrolled for correspondence work, as well as those enrolled in classes off the campus other than in the Field Schools.

The Field Schools are conducted by the University in conjunction with the School of American Research, at suitable places in the state.

COLLEGE OF ARTS AND SCIENCES

FRESHMEN

Anderson, Darlene G.	Chanute, Kansas
Anderson, Gladys M.	Hanover
Anton, Mary R.	Las Vegas
Armijo, David	Albuquerque
Artt, Buren E.	Albuquerque
Ash, Nathalyn	Albuquerque
Askren, Ruth	Roswell

Baca, Tony	Albuquerque
Bachechi, Mario J.	Albuquerque
Baer, Daurice F.	Monticello, Indiana
Bailey, Revis Betty	Farmington
Bandy, Virginia Alice	Los Lunas
Barela, John	Albuquerque
Barnett, Lucius	Albuquerque
Benham, James Prescott	Cleveland, Ohio
Berry, Jean	Fort Stanton
Bezemek, James	Albuquerque
Bonnell, Mildred	Glencoe
Boren, Eloise	Albuquerque
Boren, John Paul	Albuquerque
Boyle, Alorie	Albuquerque
Bratton, Emma Lee	Albuquerque
Brave, Mrs. Louis	Albuquerque
Brickley, Marjorie	Tucumcari
Cagle, Reese	Roswell
Campbell, John D.	Albuquerque
Carden, Mrs. Elva E.	Albuquerque
Carter, John Willis	Santa Fe
Carver, Donald W.	Melrose
Castetter, Robert P.	Shamokin, Pennsylvania
Castle, Anna Belle	Tyler, Texas
Cate, Beverley	Amarillo, Texas
Chamberlin, Lillian	Albuquerque
Chavez, Otero	Albuquerque
Chiles, Helen	Albuquerque
Clark, Nellie	Albuquerque
Clayton, Barbara A.	Albuquerque
Cleaves, Catherine D.	Albuquerque
Coggin, Eloise	Nara Visa
Coombs, Ralph	Taos
Cooper, Barnett	Brooklyn, New York
Cottrell, Dorothy	Albuquerque
Coverdale, George A.	Monrovia, California
Crist, Elmer P.	Albuquerque
Curlin, Harry S.	Albuquerque
Daily, Ruth M.	Albuquerque
Dannell, J. Thomas, Jr.	Albuquerque
Davidson, Blanche A.	Norfolk, Virginia

Davidson, Fayette	Roswell
Dunkerley, Garner, Jr.	Ennis, Texas

Eckerman, Vedna	Laguna, N. M.
Edgerton, Georgette	El Paso, Texas
Eller, Barbara	Albuquerque
Esquibel, Alfonso	Albuquerque

Falkenberg, Frances	Albuquerque
Farrell, Alice Rose	Clayton
Fell, Dorothy	Albuquerque
Fernandez, Eloy M.	Springer
Fletcher, Maxine	Albuquerque
Forsman, Otto	Roy
Foster, Rebecca M.	Albuquerque
Foster, Wesley M.	Roswell

Garcia, Donald	Albuquerque
Garvin, Glenn H.	Duncan, Oklahoma
Gasparich, Stephen J.	Swastika
Gere, A. Raymond	Albuquerque
Gillette, Mrs. Ethel B.	Albuquerque
Glabasnia, Helen	Albuquerque
Goff, Harold R.	Albuquerque
Gower, Charlie W.	Elida
Graham, Dorothy	Albuquerque
Graham, Marjorie	Tulsa, Oklahoma
Gray, Reirdan R.	Ojo Feliz
Greenwald, John L.	Socorro
Greenwald, Magdalene	Socorro

Hammock, Katherine	Albuquerque
Hardman, Lucille P.	Albuquerque
Harp, Ernest L.	Roswell
Haynes, John R.	Park View
Heber, Helen	Albuquerque
Heflin, Ruben M.	Farmington
Herndon, Ro Jeane	Portales
Hershfield, Harriet	Albuquerque
Hickok, Ruth	Ulysses, Kansas
Hocker, Joe	Albuquerque
Hocker, Katherine	Albuquerque
Holt, John	Carlsbad

Holt, Russell	Albuquerque
Homan, Lilburn C.	McIntosh
Howard, Charles	Jeffersonville, Indiana
Howard, Ruth	Taos
Hughes, Anna Belle	Albuquerque
Hughes, Levi A.	Santa Fe

Jackson, J. D.	Artesia
Jensen, Carl R.	Santa Fe
Jenson, Neal, Jr.	Estancia

Keller, Delight	Albuquerque
Kennedy, Joseph C.	Santa Fe
Kiehne, Chester O.	Reserve
King, Henry Grady	Albuquerque
Kleinheinz, Florence	Albuquerque
Koch, J. O.	Clayton
Koch, Jocelyn	Clayton
Koogler, John A.	Albuquerque
Krannawitter, Helen	Encino

Lawson, Tom L.	Tucumcari
Lee, Philip F.	Mt. Vernon, Ohio
Lieberman, Joseph	Brooklyn, New York
Liser, George	Fort Worth, Texas
Livingston, Margaret Ellen	Albuquerque
Loken, Ralph	Albuquerque
Lommori, Joe J.	Albuquerque
Love, Mabel J.	Clyde, Ohio
Ludiker, James	Tucumcari
Lusk, Wilma	Silver City

McConnell, Mary Louise	Albuquerque
McCormick, Alice	Santa Fe
McCoy, Dorothy	Albuquerque
McGee, Dorothy	Albuquerque
McGillivray, Ethel Jean	Santa Fe
McKenzie, Robert C.	Santa Fe
McKnight, Mary Helen	Albuquerque
Mabry, Scott	Albuquerque
Maddux, Louie	Texico
Malone, Lorene	Albuquerque
Mann, Ruth	Albuquerque

Margrave, Charles W.	Albuquerque
Martin, Katherine	Albuquerque
May, Byrnes O.	Albuquerque
Mays, Aurora	Liberal, Kansas
Messick, Norvall	Albuquerque
Meyer, Jack	Albuquerque
Michner, Leone	Albuquerque
Miles, Martha	Albuquerque
Miller, James A.	Elida
Mobley, Marie	Albuquerque
Moncus, Ray	Tucumcari
Mouriquand, Hazel	Albuquerque
Mozley, Joe T.	Albuquerque
Napoleon, Vincent	Albuquerque
Norment, Mary Sadie	Albuquerque
Parenteau, Mildred	Albuquerque
Peck, P. H., Jr.	Albuquerque
Peeples, Robert	Albuquerque
Pomerenk, Esther	Albuquerque
Porterfield, J. C.	Capulin
Prieto, Abelardo G.	Albuquerque
Puccetti, Leo	Albuquerque
Quintana, Josefita	Albuquerque
Ramsey, Tom W.	Albuquerque
Reid, Tom M.	Albuquerque
Reiter, Herbert C.	Albuquerque
Renfro, Everett C.	Albuquerque
Reutinger, Otto W.	San Diego, California
Rice, Grace C.	Cubero
Rich, Howard B.	Santa Fe
Riordan, Frank B.	Albuquerque
Rivera, Felix	Albuquerque
Robberson, John D.	Tucumcari
Robberson, Thomas	Tucumcari
Roberts, Edward G.	Asheville, North Carolina
Robinson, Grace	Albuquerque
Rollie, Allen B.	Gallup
Romero, Candido T.	Albuquerque
Rousseau, Jacqueline	Estancia

Rowe, Catherine	Albuquerque
Ruch, Monroe K.	Frederick, Oklahoma
Rutz, Howard J.	Belen
Ryan, Edward Marshall	Albuquerque
Rydholm, Clarence E.	Albuquerque
Salle, George A.	Trinidad, Colorado
Sargent, William Hall	Santa Fe
Scheele, Helene	Belen
Scott, Mildred	Clovis
Seamans, Herbert P.	Alamogordo
Sellers, Dorothy	Mountainair
Shaw, Thomas B.	Albuquerque
Shockey, Charles L.	Albuquerque
Shoemaker, Charles R.	Phoenix, Arizona
Shoemaker, Mable L.	Phoenix, Arizona
Shrode, Minnie M.	Salem, Oregon
Smith, Francis A.	Albuquerque
Smith, Gladys	Thoreau
Smyer, Frances	Clovis
Snapp, Edwin	Albuquerque
Snider, Betty Lou	Socorro
Soell, Edna	Albuquerque
Springwater, Herbert A.	Los Angeles, California
Stanfill, Frances	Tucumcari
Stephens, Tom	Tularosa
Stewart, Martha Ann	Albuquerque
Stewart, Waueta Lee	Albuquerque
Strong, Hazel R.	Albuquerque
Stuart, James P.	Los Angeles, California
Stump, Roy C.	Albuquerque
Taylor, Ruth R.	Roy
Tharp, Fred C.	Clovis
Thomas, Annie Lee	Carlsbad
Thorpe, Maxine	Albuquerque
Titworth, Finn	Capitan
Townsend, Harriett	St. Johns, Michigan
Trammell, Morgan E.	Santa Fe
Trigg, Ralph S.	Fort Sumner
Trimble, Lawrence	Albuquerque
Tucker, Albert F.	Fairfax, Alabama
Turner, William	Gallup

Van Cleave, Errett	Albuquerque
Vann, Lee	Albuquerque
Vaughn, Jack	Albuquerque
Wagoner, Rowan W.	Albuquerque
Waldie, Earl	Albuquerque
Walker, Charlotte Belle	Carlsbad
Walsh, Everett	Albuquerque
Walsh, Zona	Albuquerque
Ward, James Richard	Tucumcari
Waters, Quentin D.	Albuquerque
Watson, Alf C.	Knoxville, Iowa
Watson, Josephine	Santa Fe
Wentworth, Mrs. Madelyn S.	Albuquerque
White, Edna	Albuquerque
White, Morgan	Springer
Wiley, Lloyd	Albuquerque
Wilkerson, William	Albuquerque
Wilmot, Paul D.	Roswell
Wittwer, Fanny Belle	Los Lunas
Wortmann, Harry	Peralta
Zilles, Gertrude	Albuquerque

SOPHOMORES

Andrick, Fred E.	Belen
Bachechi, Carlo	Albuquerque
Baker, Mary	Albuquerque
Barnhart, Mildred	Albuquerque
Black, Janis	Albuquerque
Bostick, Walter	Portales
Brophy, William	Albuquerque
Buchanan, Cleland C., Jr.	Wichita, Kansas
Burks, Garnett R.	Albuquerque
Carroll, Cecil H.	Roswell
Childers, Mary Ruth	Albuquerque
Clark, Van D.	Deming
Coe, Curtis	Albuquerque
Coleman, Edith May	Hillsboro
Coleman, John H.	Tucumcari
Conley, Vernita R.	San Benito, Texas

Conrad, Edith	Santa Fe
Cook, Fletcher	Raton
Cox, Louise	Albuquerque
Craft, James R.	Carlsbad
Dillard, Anita	Hearne, Texas
Dillard, Leila	Carlsbad
Dinkle, Clifford	Greenville, Texas
Dolzadelli, John	Albuquerque
Draper, Nellie	Albuquerque
Espinosa, Louis	Albuquerque
Farrow, Joe B.	Deming
Ferree, Cyrena	Albuquerque
Flowers, Dorothy	Carlsbad
Flowers, Eleanor	Carlsbad
Garrison, William J.	Albuquerque
George, Adele	Des Moines
George, Margaret	Des Moines
Grinstead, Juanita	Albuquerque
Gross, Norman R.	Roswell
Gutierrez, Ofimiano J.	Albuquerque
Hall, Ethelyn P.	Albuquerque
Hall, Marguerite G.	Chama
Hancock, William	Albuquerque
Harris, Owen	Albuquerque
Heaney, James	Albuquerque
Hertzmark, Marcia	Santa Fe
Hickman, Charles S.	Terre Haute, Indiana
Hill, Mrs. Hazel H.	Albuquerque
Hillebrand, Edward P.	Albuquerque
Hinkle, John R.	Rough Run, West Virginia
Hobbs, Hulda	Roswell
Hogins, Estelle	Albuquerque
Holbrook, McKinley	Bernalillo
Howden, William	Albuquerque
Huston, George	Lovington
Jaramillo, Prospero	Albuquerque
Johnson, Jessie L.	Albuquerque

DIRECTORY OF STUDENTS

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Kahnt, Beulah	Albuquerque
Krannawitter, Richard	Encino
Latham, Barbara Ray	Nutt Station
Lewis, Bessie	Belen
Lewis, Romero H.	Albuquerque
Long, John Edward	Albuquerque
Lynch, Mae	Albuquerque
McCarthy, Helen	Albuquerque
McDonald, Alva Bro	El Reno, Oklahoma
McDowell, Archie	Albuquerque
McKinley, Kathryn	Alamogordo
Major, Charles LeRoy	Albuquerque
Malone, George Max	Albuquerque
Marron, Margaret	Albuquerque
Mason, Naomi	Bloomington, Indiana
Matteucci, Gino J.	Albuquerque
Miller, Homer I.	Hollywood, California
Miller, Margaret	Roswell
Miller, Stanley	Belen
Morrison, Dorothy	Roswell
Morrison, George S.	Loving
Moss, Louise	Beckley, West Virginia
Mulroy, Katherine	Roswell
Neville, Catherine	Albuquerque
Nye, Kyle	Albuquerque
O'Connor, Louise	Crown Point
Oliver, Jewell E.	Albuquerque
Owen, Edith	Los Lunas
*Patton, J. Max	Gallup
Paulson, Jerome M.	Albuquerque
Peipleman, Lannes	Melrose
Pence, Ned	Albuquerque
Peverley, Barbara	Belen
Pomerenk, Dorothy	Albuquerque
Pratt, Ruth	Raton
Prentice, Florence	Tucumcari

*Deceased.

Records, Dorothy	Albuquerque
Reindrop, Reginald C.	Albuquerque
Reiter, Paul	Albuquerque
Rice, Lucien G.	Albuquerque
Riley, Monte Mae	Tajique
Riley, Richard M.	Albuquerque
Rixey, Harry F.	Clayton
Robinson, Mary Jane	Roswell
Robinson, Roscoe H.	Albuquerque
Rodda, Harold E.	Wichita, Kansas
Roehl, Mary Lou	Albuquerque
Romero, Gregorita	Magdalena
Rose, Marie	Hollene
Schaad, John	Bath, Illinois
Scheele, Elizabeth	Belen
Schmidt, Margaret	Albuquerque
Sears, Lillian	Raton
Seddon, Bess	Albuquerque
Seery, Alfred J.	Belen
Shaver, Wilson	Albuquerque
Sherman, Betty Ann	Trinidad, Colorado
Shields, Dayton	Albuquerque
Sifuentes, Fernando	Albuquerque
Smith, Florence	Thoreau
Smith, Gertrude	Tucumcari
Smith, Roy Royale	Jourdanton, Texas
Solleder, Sam K.	Alhambra, California
Stamps, Arthur	Albuquerque
Stephens, Fairfax	Hollywood, California
Stover, Haldane	Albuquerque
Swayne, William W.	Albuquerque
Van Lue, Voll E.	Albuquerque
Vaught, Jethro S.	Albuquerque
Vivian, Gordon	Albuquerque
Wagner, Floyd L.	Albuquerque
Waldo, Melba	Oberlin, Kansas
Walker, Charles S., Jr.	Las Cruces
Warriner, Ann Opal	Gallup
Watts, George T.	Hope
Webb, Gerald P.	Albuquerque

Wehmhoner, Martin	Deming
Westfall, Archie	Dexter
Whistler, Carl	Albuquerque
Williamson, Margaret	Albuquerque
Wilson, Norwyn	Albuquerque
Wilson, Robert	Albuquerque
Wolfe, Dorothy Mae	Albuquerque

JUNIORS

Amis, Robert B.	Albuquerque
Arledge, Richard	Albuquerque
Armijo, Willard	Albuquerque

Balling, Marie	Albuquerque
Bentley, L. Estelle	Albuquerque
Bess, Mildred Emily	Albuquerque
Bezemek, Marvin E.	Albuquerque
Bishop, Mrs. Irene	Albuquerque
Botts, Robert	Albuquerque
Bratton, Karl H.	Lawrence, Kansas
Brewer, Gertrude	Albuquerque
Brown, Willadene	El Paso, Texas
Burdell, Georgia	Albuquerque
Burns, Blanche	Carlsbad

Campbell, Jeanne	Albuquerque
Castillo, Margaret	Albuquerque
Caughey, Donald	Albuquerque
Chambon, Marie	Socorro
Cisco, Lucile	Nara Visa
Cohnor, Wesley O., Jr.	Santa Fe
Coulter, Dorothy	Albuquerque
Cox, Margaret	Albuquerque

Davies, Merlyn	Sugarite
Delaney, Francis	Albuquerque
Dillon, Virginia	Santa Fe
Diver, Dorothy	Dawson
Dunkerley, Lillian	Ennis, Texas
Dunkerley, Marian	Ennis, Texas

Edwards, Riley Kenneth	Socorro
Elder, Ned	Albuquerque

Fee, Rebecca	Albuquerque
Fish, Jack	Albuquerque
Foraker, Creighton	Albuquerque
French, Evelyn	Carrizozo
Giesler, Rosamond	Albuquerque
Gonzales, Eugenio	Santa Fe
Grose, Irvin R.	Albuquerque
Heath, Fay	Gallup
Hickok, Kathleen	Ulysses, Kansas
Hitson, Margaret	Carlsbad
Howard, Leona	Albuquerque
Jones, Dale M.	Albuquerque
Joyce, Mrs. Sofia Y.	Albuquerque
Kay, Ruth Margaret	Albuquerque
Keleher, Julia	Albuquerque
Kelso, Donald	Albuquerque
Lathrop, Eugene G., Jr.	Dexter
Leese, Elzadie	Albuquerque
Leone, Oliver Q.	Gallup
Levert, James A.	Baton Rouge, Louisiana
Lopez, Alfredo	Carrizozo
Love, Ruth S.	Clyde, Ohio
McKenzie, Donal A.	Cincinnati, Ohio
McRae, Bruce	Albuquerque
Malone, Lawrence	Albuquerque
Marcus, Sidney	Albuquerque
Matthew, Janet	Albuquerque
Mulroney, Jane	Albuquerque
Muntzing, Ernest	Maysville, West Virginia
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O'Connell, Margaret	Fort Dodge, Iowa
Osuna, Benjamin	Albuquerque
Osuna, Tom R.	Albuquerque
Parkhurst, Eleanor	Albuquerque

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Paulsen, Corder G.	El Reno, Oklahoma
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Pettit, Mrs. Elizabeth F.	Albuquerque
Pomerenk, May	Albuquerque
Pooler, Mrs. Lolita H.	Albuquerque

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Redle, Marion	Albuquerque
Reidy, John	Albuquerque
Russell, John C.	Albuquerque

Schafer, Howard	Albuquerque
Sharp, Jeffie	Albuquerque
Shattuck, Floyd L.	Carlsbad
Shortle, Margaret	Albuquerque
Spalding, Branch	Albuquerque
Spillers, Mrs. Frances P.	Albuquerque
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Stuart, Raymond	Roswell
Stubbs, Helen	Albuquerque

Thompson, Jay B.	Los Lunas
Thompson, William M.	Los Lunas
Timboe, Guyfred	Albuquerque
Trigg, John H.	Fort Sumner

Umberhine, Ethel M.	Santa Fe
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Vann, Richard	Albuquerque
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Walsh, Tom B.	Raton
Watson, Neil B.	Albuquerque
White, Mary Elizabeth	Albuquerque
Whitmore, John E.	Tucumcari
Wilson, Alice Ray	Roswell
Wylie, Mrs. Lockey P.	Albuquerque

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Gallier, Ted _____	Albuquerque
Herkenhoff, Eunice _____	Albuquerque
Houp, Helyn R. _____	Albuquerque
Hust, Harry H. _____	Albuquerque
Hyde, Herbert R. _____	Albuquerque
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King, Eleanor _____	Santa Fe
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Shaver, Christine	Albuquerque
Sieglitz, Ellis H.	Albuquerque
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Stansifer, Helen	Albuquerque
Stubbs, Stanley	Albuquerque
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Watson, John T.	Santa Fe
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Wright, Gilbert	Springer
Zimmer, Norbert W.	Albuquerque

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Montgomery, Paul	Albuquerque

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Herndon, Creta	Portales
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Manning, Earl V.	Clovis
Martinez, Andres A.	Ranches of Taos
Martinez, Patricio	Ranches of Taos
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Smith, Helen	Moses
Smith, Margaret Ellen	Moses

Telles, Elias	Bent
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Williams, Alice Ruth	Hope

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Ayala, Anita	Albuquerque

Baker, Virginia Lee	Roswell
Bobo, Mrs. Irma G.	Albuquerque

Charlton, Lillian	Albuquerque
Chaves, Dolores	Santa Fe

Davisson, Clara Lee	Roswell
Doll, Ronald C.	Taiban

Elliott, Bernice	Albuquerque
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Foster, Horace Mannie	Albuquerque
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Gibson, Blanche P.	Albuquerque
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Hilliard, Winifred	Albuquerque
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Houston, Violet	Albuquerque
Hubbell, Mrs. Helen E.	Albuquerque

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Kennedy, Helen LaRue	Albuquerque
Kimbrough, Ina Evelyn	Albuquerque
Loy, Nellie	Albuquerque
Lynch, Nettie	Albuquerque
McDermott, Luetta	Dawson
McGillivray, Jessie Ann	Santa Fe
Mack, Zilpha	Albuquerque
Mara, John R.	Syracuse, New York
Matthew, Mrs. Mabel Y.	Albuquerque
Moar, Thomas Hector	Albuquerque
Montgomery, Mary Lucy	Roswell
Mossman, George	Albuquerque
Moyer, Elizabeth	Hanover
Moyer, Ella	Hanover
Muff, Mrs. Fleta M.	Albuquerque
Nannah, Mrs. Blossom L.	Albuquerque
Poland, Bertha	Albuquerque
Sanchez, Barbara	Albuquerque
Sandoval, Joe R.	Albuquerque
Schroeder, Erna	Albuquerque
Scott, Mae	Albuquerque
Sell, Clara	Albuquerque
Sell, Esther	Albuquerque
Shanks, Lillian	Albuquerque
Sherwood, Lucille	Dawson
Smith, Margaret Frances	Santa Fe
Snapp, Gertrude	Albuquerque
Stickney, Mrs. Adela S.	Albuquerque
Stirrat, May	Albuquerque
Stone, Gertrude	Albuquerque
Stuart, Annabelle	Roswell
Taylor, Eleanor	Albuquerque
Tucker, Pearle	Governador

Victor, Helen	Albuquerque
Walker, Bertha H.	Albuquerque
Weaver, Ethel	Dexter
Weaver, Genevieve	Bellview
Webb, James S.	Roswell
Wiley, Marion	Albuquerque
Willson, James D.	Gallup
Woolman, Mrs. Esther	Albuquerque

JUNIORS

Augustine, Mrs. Hannah F.	Socorro
Balzer, Jacob	Albuquerque
Carter, Mrs. Diana B.	Albuquerque
Cook, Margaret	Albuquerque
Crile, Florence	Roswell
Crist, Robert	Springfield, Ohio
Daily, Dorothy	Albuquerque
Delgado, Catherine	Belen
Eller, Marian	Albuquerque
Erlandson, Ethel	Albuquerque
Freed, Ethel	Albuquerque
Fyke, Wren	Weatherford, Texas
Good, Pete	Frankfort, Indiana
Goodart, Lela	Roswell
Greaves, Elizabeth	Portales
Gutierrez, Veneranda	Albuquerque
Hendon, Telfair	Albuquerque
Henry, Harriett	Albuquerque
Judy, Virgil	Albuquerque
Kiekhaefer, Elmer J.	Albuquerque
Kirk, Thelma	Crown Point

Lathrop, Ruth	Albuquerque
Lawson, Adeline	Alamogordo
Lewis, Mabel Irene	Glendale, Arizona
Littlefield, Rosalie	Elida
Low, Mrs. Lorena C.	Albuquerque
McSpadden, Maxine	Albuquerque
Monahan, Tessie	Albuquerque
Monk, Harriet	Albuquerque
Nicholas, Catharine	Magdalena
Panzlau, Leona Helen	Albuquerque
Perce, Myrtle	Albuquerque
Rankin, Jessie May	Albuquerque
Ream, Mrs. Ann M.	Albuquerque
Redwine, Mrs Abby H.	Albuquerque
Risser, Anna	El Paso, Texas
Roberson, Mrs. Kathleen S.	Batesville, Mississippi
Rowley, Lucile	Portales
Sanchez, Mrs. Virgie R.	Albuquerque
Schupp, Ona E.	Albuquerque
Sill, Thera Mae	Albuquerque
Snyder, Hazel	Sapulpa, Oklahoma
Spencer, Mary Lou	Albuquerque
Spillers, Eula B.	Albuquerque
Spillers, Lena	Albuquerque
Stinnett, Rufus M.	Portales
Traylor, Lynda	Tucumcari
Van Doren, Hazel	Roswell
Wait, Galen	Nashua, Iowa
Wootton, Marguerite	Albuquerque

SENIORS

Allport, Eleanor	Albuquerque
Andrews, Flora J.	Albuquerque
Bentley, Cecile A.	Albuquerque
Blackshare, Mrs. Jessie K.	Albuquerque

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DeGryse, William G. _____	Albuquerque
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Henry, Helen _____	Fort Sumner
Leak, Mrs. Louise B. _____	Albuquerque
Lostutter, Melvin _____	Albuquerque
Lybarger, Mrs. Edna L. _____	Albuquerque
McFatter, Caroline _____	Canadian, Texas
Milne, John _____	Albuquerque
Popejoy, Mrs. Bess K. _____	Albuquerque
Reeder, Janice B. _____	Albuquerque
Riedeman, Mrs. Mildred S. _____	Albuquerque
Sanders, Mrs. Ruth M. _____	Albuquerque
Sharp, Mrs. W. S. _____	Albuquerque
Walters, Mrs. Lydia M. _____	Albuquerque

SPECIAL AND UNCLASSIFIED STUDENTS

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Coulston, Ima V. _____	Albuquerque
Duran, Lena A. _____	Albuquerque
Fee, Catherine _____	Albuquerque
Gutierrez, Rudolph O. _____	Albuquerque

Heyman, Mrs. Pauline M.	Albuquerque
Hopkins, Ruth M.	Albuquerque
Huffman, Howard W.	Monrovia, California
Jobe, Cole	Albuquerque
Kerr, Nannie	Albuquerque
Leibold, Clara C.	Albuquerque
Levagood, Edith L. C.	Frankfort, Michigan
Lucas, Isabel M.	Albuquerque
Luttrell, Mrs. Nelle W.	Albuquerque
McDonald, Mabel	Albuquerque
Mullison, Mrs. Helen E.	Albuquerque
Rockey, Dautin W.	Albuquerque
Rollins, Annabel	Albuquerque
Sanchez, Beatriz	Albuquerque
Sanchez, Emilia	Albuquerque
Sanchez, George I.	Albuquerque
Schmidt, Caroline	Albuquerque
Schulz, Mrs. Elise A.	Albuquerque
Sullivan, Ethel P.	Wichita, Kansas
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Tubbs, Rhoda	Candor, New York
Turner, Ada	Albuquerque
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Deck, Harold	Albuquerque
Denton, Dalton F.	Tucumcari
Dunaway, Paul H.	Albuquerque
Dyer, Finis L.	Albuquerque
Fish, Stanley	Estancia
Foley, Neil H.	Santa Fe
Fox, Vernon S.	Albuquerque
Francis, Ancel W.	Melrose
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Hall, John R.	Santa Fe
Henderson, Roy	Tularosa
Johns, Charles	Carlsbad
Lipp, Maurice	Roswell
Lutz, Julius	Albuquerque
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Officer, John	Raton
Officer, Robert	Raton
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 True, Austin ----- House

Vidal, Charles B., Jr. ----- Gallup

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 Wheatley, William C. ----- Clayton
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 Chavez, Joseph E. ----- Albuquerque

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Wilson, William	Gallup
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Cline, Jack	Albuquerque
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McDowell, Lawrence E.	Albuquerque
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Tully, James	Glencoe
Wylie, -Marshall J.	Allison

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Lewis, William Gordon	The Plains, Virginia
McDonald, Charlie C.	Albuquerque
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Reed, William	Albuquerque
Smith, Charles C.	Albuquerque
Stortz, Frank A., Jr.	Albuquerque

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Montgomery, Eugene	Albuquerque
Mutz, John	Albuquerque
Slocum, Frank E.	Albuquerque

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Cook, Sarah Louise	Albuquerque
Crile, Winifred	Roswell
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Eilers, Harrison	Albuquerque
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Fernandez, Abran	Albuquerque
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Hart, Maude	Albuquerque
Herron, Jane	Albuquerque
Hext, Howard A.	Albuquerque
Low, Frank	Albuquerque
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Swedenborg, Mrs. Clara L.	Albuquerque
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Thomas, Barber-Nell	Carlsbad
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Weil, Mrs. Ellen E.	Albuquerque
Wentworth, Kenneth L.	Albuquerque
Wollman, Benjamin B.	Albuquerque

EXTENSION DIVISION CORRESPONDENCE COURSES

Alexander, Louise	Reserve
Arledge, Mrs. Ellen	Albuquerque
Ayala, Arthur	Jemez
Baca, Josefita	Veguita
Baird, N. M.	Artesia
Barber, Mrs. Gladys D.	Palo Alto, California
Bigger, Mildred	Moriarty
Bishop, Ruth	Gallup
Brown, Ella	Artesia
Chavez, Sarah	Tijeras
Crespin, J. C.	Socorro
Crutchfield, Carl	Lovington
Cullers, Lucille	Barton
Davidson, Blanche A.	Albuquerque
DeBaca, Fabiola C.	State College
DeHart, Mrs. Lula S.	Aztec
Dillon, Florence	Santa Fe
Dillon, Virginia	Lamy
Dufur, Mrs. Elizabeth	Kirtland

DIRECTORY OF STUDENTS

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Fidelis, Brother	Bernalillo
Finley, Ruth C.	Gallup
Fitzgerald, Ora	Albuquerque
Frazier, Lake J.	Roswell
Gibson, Blanche P.	Albuquerque
Gonzales, Marietta	Zuni
Goodner, Veva	Estancia
Gray, Howell	Las Vegas
Green, Mrs. Belle S.	Albuquerque
Hanlon, Lawrence	Willard
Henley, Enid D.	Reserve
Hill, Lelon A.	Ramah
Hix, Mrs. Dorothy	Albuquerque
Horton, Mrs. Alma W.	Albuquerque
Jones, Mrs. Ava	Compton, California
Kerr, Mrs. Nannie	Albuquerque
Lawrence, Stella	Helweg
Leeper, Ruth	Albuquerque
Lentz, Samuella	Tularosa
McFete, Merle J.	Reserve
McKnight, Virgil	Albuquerque
Manker, Marian M.	Estancia
Martin, Robert	Gallup
Morgan, Ruth	Orogrande
Morris, Edna A.	Albuquerque
Napoleon, Mrs. Fred V.	Santa Fe
Nylander, J. H.	Albuquerque
Olson, Alice	Albuquerque
Parcell, Laura	El Rito
Pettersen, Edyth J.	Yuma, Arizona
Peyton, Norman	Cloudcroft
Podesva, Sister Geralda	Pecos
Pool, Chester	Dawson
Powell, Mrs. Henrietta W.	Santa Fe
Quintana, Josefita	Albuquerque

Rea, Grace	Portales
Redwine, Mrs. Abby	Albuquerque
Reed, Clarice	Reserve
Reiter, Mrs. Anna C.	Albuquerque
Robinson, Brandon T.	Taiban

Schut, Dora	Indian Wells, Arizona
Sides, Mrs. Viola M.	Young, Arizona
Silver, Lela	Albuquerque
Simmons, Mary	Fairview
Snodgrass, Vernon J.	Tularosa
Soto, Mrs. Bennie L.	Albuquerque
Stapp, Mabel	Mountainair
Stewart, Virginia E.	Gamercio
Stone, Gertrude	Albuquerque
Swopp, Virginia	Reserve

Tinney, Oral E.	Reserve
Trujillo, Miguel H.	Yuma, Arizona
Trujillo, Vianez	Petaca

White, Alice	Albuquerque
Wiley, Thomas M.	Albuquerque

NON-RESIDENT CLASSES

Allen, W. A.	Santa Cruz
Baca, Santiago	Socorro
Bandy, Bertha E.	Los Lunas
Beyle, Leona E.	Magdalena
Botts, Walter W.	Los Lunas
Bright, Philip S.	Los Lunas

Chaves, Adolfo P.	Lemitar
Chaves, E. M.	Lemitar
Chavez, Luz	Lemitar
Crespin, J. C.	Socorro

Davis, Adele	Los Lunas
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Gallegos, Lenora	Socorro
Garcia, Boleslo	Socorro
Gill, J. L.	Belen
Giron, Remigio	Polvadera
Gooch, Josephine	Espanola

DIRECTORY OF STUDENTS

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Haddock, Mrs. V. Pearl	Socorro
Henry, Hazel D.	Espanola
Herrick, Zella	Santa Cruz
Jaramillo, Filbert	Socorro
Johnson, Mina Lee	Socorro
Kay, Helen	Albuquerque
Laird, Thomas K.	Los Lunas
Lewis, Zell	Belen
Lopez, Andres	Socorro
Lucero, Augustine	San Acacia
Lujan, Mrs. Marie T.	Espanola
McKinley, Frances	Los Lunas
Mead, Catherine	Espanola
Morris, Irene A.	Espanola
Morrow, Mrs. Mary	Socorro
Paxton, Mrs. Ruth B.	Socorro
Peralta, Emilio C.	Socorro
Powers, Katherine	Los Lunas
Reising, Edith M.	Los Lunas
Romero, Andres R.	Valencia
Sanchez, Barbara M.	Los Lunas
Smith, Hazel	Espanola
Stapleton, Ernest	Socorro
Stout, Mrs. Addie	Espanola
Torres, Edward	Socorro
Torres, Mary	Socorro
Vigil, Aurora	Socorro
Vigil, Irene	Socorro
Walker, Lawrence	Los Lunas
Womeladuff, Frank	Otowi
Young, Barton	Los Lunas

SUMMER SESSION, 1928

Abbott, Washington I.	Albuquerque
Albritton, Alva M.	Carlsbad
Alderete, Frances	Albuquerque
Allport, Eleanor	Albuquerque
Apodaca, Mrs. Katherine B.	Albuquerque
Apodaca, Miquela	San Antonio
Aragon, Mrs. Cleotilde S.	Albuquerque
Aragon, Irene	Albuquerque
Aragon, Mary	Los Lunas
Archibeck, Sadie E.	Albuquerque
Arellano, Maria L.	Springer
Arledge, Richard	Albuquerque
Armijo, Frances	Albuquerque
Ayala, Anita A.	Albuquerque
Ayala, Arturo	Albuquerque
Baca, Casamira	Belén
Baca, Chonita	Albuquerque
Baca, Josefita	Socorro
Baca, Manuel A.	Tome
Baker, Alice May	Meeker, Colorado
Baker, Mary Virginia	Santa Fe
Barela, Rachael	Albuquerque
Barreras, Eracilia	Albuquerque
Beahm, Mrs. Estelle M.	Albuquerque
Benjamin, Dolores	Albuquerque
Bentley, Cecile	Albuquerque
Bigger, Mildred Myrtle	Moriarty
Bing, Mrs. Nettie G.	Independence, Missouri
Blattman, Minnie E.	Wagon Mound
Bonnell, Orilla	San Patricio
Bower, Mrs. Bertha Lee	Albuquerque
Bowers, Dell	Albuquerque
Bowers, Nell	Albuquerque
Brock, Mrs. Ora	Gallup
Brophy, William	Albuquerque
Brown, Charles E.	Tatum
Brown, Mrs. Charles E.	Tatum
Brown, Mrs. Cora Rose	Albuquerque
Brown, Rose	Albuquerque
Bruce, Richard A.	Vaughn
Brunell, Herbert H.	Duran

DIRECTORY OF STUDENTS

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Burcham, Carl	Albuquerque
Burdell, Frances	Albuquerque
Bustamente, Rose	Albuquerque
Butler, Mrs. Bertha C.	Corona
Calkins, Fred M.	Albuquerque
Campbell, Marguerite	Lindrieth
Candelaria, Emilia	Albuquerque
Candelaria, Isabel	Albuquerque
Candelaria, Josephine	Albuquerque
Canfield, Anna	Albuquerque
Canfield, Helen	Albuquerque
Cannon, Mary L.	Moriarty
Carleton, Edmund V.	Albuquerque
Carrasco, Caroline	Albuquerque
Carter, Mrs. Diana B.	Albuquerque
Castillo, Margaret D.	Albuquerque
Chavez, Adolfo P.	Socorro
Chavez, Esther	San Marcial
Chavez, Jose A.	Albuquerque
Chavez, Luz	Lemitar
Chavez, Rosaria	Galisteo
Christopher, Marjorie	Fort Apache, Arizona
Clark, Marie	Mount Dora
Clarke, Samuel C.	Albuquerque
Clarke, Vioalle	Gallup
Coleman, Edith	Albuquerque
Collister, Grace	Albuquerque
Cone, Carrie	Carlsbad
Conley, Vernita	Albuquerque
Conway, Carroll H.	Tucumcari
Cook, Sarah Louise	Albuquerque
Corbin, Eudora	Hill
Costales, Beatriz	Albuquerque
Costales, Edelmira	Albuquerque
Coulter, Dorothy	Albuquerque
Coury, Emma	Duran
Cowan, Mary Jane	Belen
Cox, Louise	Albuquerque
Craft, Ruth	Albuquerque
Cravens, Helen B.	Pedernal
Cravens, Mary Jane	Pedernal
Crawford, Laura	Albuquerque
Crawford, Marian	Albuquerque

Creecy, Henry C.	Montezuma
Crespin, J. C.	Socorro
Crosno, Maude	Albuquerque
Cullers, Lois Lucille	Moriarty
Daley, R. Santiago	Grants
DeBaca, Griselda C.	Pena Blanca
DeBaca, Nathaniel M.	Peralta
Deck, Harold	Albuquerque
Devine, Thomas S.	Springer
Diaz, Mrs. Margaret	Albuquerque
Dillard, Dorothy	Carlsbad
Dillard, Mrs. Wilma	Carlsbad
Dixon, Saverne	Albuquerque
Dorris, Gladys	Albuquerque
Douglas, Vita T.	Estancia
DuBois, Geraldine M.	Corona
Dufur, Elizabeth J.	Aztec
Easterday, Floyd G.	Seligman, Arizona
Eilers, Harrison	Albuquerque
Elliott, Bernice	Albuquerque
Enderlin, Katharine E.	Albuquerque
Erlandson, Ethel E.	Albuquerque
Espinosa, Vicenta	Abiquiu
Estabrook, Mrs. Emma F.	Chestnut Hill, Massachusetts
Eveleth, Catherine	Schenectady
Falls, Anna Elizabeth	Albuquerque
Fee, Catharine	Albuquerque
Fell, Dorothy	Albuquerque
Fernandez, Abran	Albuquerque
Ferree, Cyrena	Albuquerque
Fickinger, Paul L.	Tularosa
Finn, Jennie B.	Albuquerque
Fitzgerald, Ora	Albuquerque
Foraker, Mary	Albuquerque
Foster, Vera	Cedarvale
Freed, Ethel	Albuquerque
Fullerton, Elvina S.	Santa Fe
Gallegos, Benceslao	Lemitar
Gallegos, Dolores	Albuquerque
Garcia, Josephine	Clayton

DIRECTORY OF STUDENTS

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Garcia, Cecilia	Albuquerque
Garcia, Dolores	Albuquerque
Gatlin, Danny	Albuquerque
Gerhardt, Charles	Albuquerque
Gibson, Blanche P.	Albuquerque
Giron, Remigio	Polvadera
Goddard, Sara A.	Albuquerque
Gonzales, Eduviges	Lemitar
Gonzalez, Hilario C.	Albuquerque
Gonzalez, Jennie M.	Albuquerque
Gonzalez, Ramon	Tome
Goodner, Veva	Estancia
Gott, Margaret	Holbrook, Arizona
Graham, Eliza	Lovington
Green, Belle S.	Albuquerque
Griego, Adele	Albuquerque
Guthrie, Grace	Albuquerque
Gutierrez, Rudolph	Albuquerque
Gutierrez, Veneranda	Albuquerque
Ham, Emma Lee	Hagerman
Hamer, Helen	Red River
Harvey, Belle	Fort Sumner
Hendon, Telfair	Albuquerque
Henry, Harriett P.	Albuquerque
Herkenhoff, Eunice	Albuquerque
Hernandez, Louis	Albuquerque
Herrera, Timmy	Armijo
Herrick, Lowell P.	Santa Cruz
Herring, Louis B.	Breckenridge, Texas,
Hess, Pearl F.	Albuquerque
Hill, Elizabeth R.	Albuquerque
Hill, Hazel H.	Albuquerque
Hilliard, Winifred	Albuquerque
Hix, Mrs. Harriet D.	Albuquerque
Hiyi, Mabel B.	Seama
Hofheins, Estelle	Albuquerque
Hogrefe, Harry L.	Albuquerque
Hubbell, Louise M.	Pajarito
Hughes, Mrs. Mary S.	Albuquerque
Hunnicut, Edna	Tucumcari
Hust, Harry	Albuquerque
Ingle, Lorine	Grants

Jaramillo, Isidro	Belen
Jensen, Carl R.	Santa Fe
Jiron, Carlos Longino	Reserve
Johnson, Bessie Lee	Albuquerque
Johnson, Jessie	Albuquerque
Justus, Mary Louise	Albuquerque
Kahnt, Beulah	Albuquerque
Kassing, Jessie L.	Albuquerque
Kellner, Charlotte	Raton
Kennedy, Cleo	Rochester, Minnesota
Kerr, Nannie	Albuquerque
Killough, Laura C.	Belen
Kimbrough, Ina Evelyn	Albuquerque
Kimmel, Alyce	Albuquerque
King, Carrie E.	Santa Fe
King, Eleanor	Santa Fe
Kirk, Thelma	Albuquerque
Klyng, Charlotte	Roswell
Ladner, Adeline	Albuquerque
Laing, Mabel	Westfield, Wisconsin
Lamb, Marie	Moriarty
Landavazo, Fred	Atarque via Zuni
Lawrence, Bessie	Albuquerque
Lawrence, Ellen	Albuquerque
Lawrence, Stella	Albuquerque
Leedy, Ethol W.	Albuquerque
Lewis, Doris	Dexter
Lewis, Mona Isabelle	St. Louis, Missouri
Lewis, Richard R.	Weed
Leyba, Pancha	Albuquerque
Little, Roberta	Albuquerque
Long, Lorraine	Albuquerque
Looney, Katherine F.	Dulce
Lopez, Guadalupe	Socorro
Lopez, Mrs. Piedad S.	Old Albuquerque
Low, Frank	Gallup
Low, Mrs. Lorena C.	Albuquerque
Lucero, Augustine	San Acacia
Lucero, Aurelia	Mesilla
Lucero, Bennie	Albuquerque
Lucero, Beulah	Albuquerque
Lybarger, Mrs. Edna L.	Albuquerque

McCann, Edward G.	Albuquerque
McClure, Charles E.	Albuquerque
McDermott, Luetta	Dawson
McDonald, Ellen	Belen
McFatter, Caroline	Canadian, Texas
McGaughey, Myrtle M.	Laguna
McGowan, Janet G.	Albuquerque
McIntyre, Maude	Albuquerque
McKaye, Vara L.	Tyrone
McKellar, Pauline K.	Albuquerque
McMillen, Wilma Lee	Albuquerque
McSpadden, Maxine	Albuquerque
MacLaren, Elizabeth	Magdalena
Maher, Josephine	Cibeqe, Arizona
Maher, Raymond	Cibeqe, Arizona
Manire, L. Z.	Tatum
Marmon, Mrs. Walter K.	Laguna
Marquez, Libradita	Albuquerque
Martin, Walter H.	Albuquerque
Martinez, Naomi	Tierra Amarilla
Matthew, Mrs. Mabelle Y.	Albuquerque
Mauger, Harry	Albuquerque
Melaas, Hazel C.	Albuquerque
Middleton, Mrs. Roberta P.	Gallup
Miller, Pearl H.	Albuquerque
Miller, Mrs. Ruth C.	Cerrillos
Milne, John	Albuquerque
Mitchell, Geo. F.	Albuquerque
Mitchell, Maurita	Albuquerque
Monahan, Tess	Albuquerque
Moore, Violet C.	Albuquerque
Morgan, Ruth	Alamogordo
Morris, Mrs. Era B.	Weed
Mulvaney, Jennie	Mountainair
Mumford, Marian	Estancia
Muniz, Frances	Albuquerque
Munroe, Mrs. Harriett	Albuquerque
Nannah, Blossom	Albuquerque
Napoleon, Josephine	Albuquerque
Neville, Catherine	Albuquerque
Nohl, Frederick	Albuquerque
Nylander, Joseph H.	Albuquerque

Olson, Alice M.	Albuquerque
Olson, Mabel	Albuquerque
Ortiz, Emily K.	Santa Fe
Otero, Bernardino	Valencia
Otero, Santiago	Tome
Otero, Teresa	Albuquerque
Owens, Ruth Elaine	Albuquerque
Padilla, Angelina	Albuquerque
Palmer, Paul A.	Beebe, West Virginia
Parcell, Laura	El Rito
Parkhurst, Myrtle Eleanor	Albuquerque
Parra, Ezequiel R.	Albuquerque
Paxton, Mrs. Ruth Bursum	Socorro
Peipelman, Lannes	Melrose
Pellman, Fred	Mescalero
Penfield, Julia E.	Lincoln
Perea, Demecio	Torreón
Pettit, Lenore	Albuquerque
Peverley, Barbara	Belen
Philbrick, Ruth	Albuquerque
Pino, Selfa	Albuquerque
Pomerenk, Dorothy	Albuquerque
Poynter, Helen C.	Springer
Prentice, Florence	Tucumcari
Prickett, Claribel	Alamogordo
Quintana, Dora	Albuquerque
Quintana, Irene	Santa Fe
Quintana, Josefita	Albuquerque
Rael, Mrs. Susie Page	Puerto de Luna
Rankin, Jessie May	Albuquerque
Redwine, Abby H.	Albuquerque
Reeder, Janice B.	Blanchester, Ohio
Reid, Iola	Albuquerque
Reidy, John	Albuquerque
Retick, Mrs. Lulu K.	Albuquerque
Riley, Ruth	Tajique
Risser, Anna	Albuquerque
Rivers, Mrs. H. J.	Coal Basin
Robertson, G. E.	Weed
Roberson, Lucy K.	Albuquerque
Roehl, Mary Lou	Albuquerque

Romero, Eloisa	Peralta
Romero, Sostenita	Albuquerque
Rowe, Catherine	Albuquerque
Russell, John C.	Albuquerque
Salazar, Annie	Albuquerque
Salazar, Cesaria	Bernalillo
Salazar, Pablo	Tome
Sanchez, Adelino	Tome
Sanchez, Barbara	Albuquerque
Sanchez, Carlota	Old Albuquerque
Sanchez, George I.	Albuquerque
Sanchez, Manuel	Tome
Sanchez, Mrs. Matilde	Tome
Sanchez, Cosme S.	Tome
Sanchez, Telesfor	Albuquerque
Sanchez, Mrs. Virgie R.	Albuquerque
Sandoval, Abel	Deming
Sandoval, Frank	Estancia
Sandoval, Joe N.	Albuquerque
Sandoval, Petrita	Albuquerque
Sandoval, Thomas A.	Marquez
Sasse, Ruby	Dalton, Missouri
Scheele, Anita	Belen
Scheele, Helene	Belen
Schmidt, Caroline	Albuquerque
Schmidt, Margaret	Albuquerque
Schulz, Elsie	Albuquerque
Scott, Emma	Albuquerque
Scott, Mrs. Velma	Santa Rita
Schupp, Ona E.	Albuquerque
Seery, Katherine	Belen
Sharp, Mrs. W. S.	Albuquerque
Shaw, Mrs. Elda K.	Albuquerque
Sherman, Louise A.	Albuquerque
Siler, Randolph	Albuquerque
Simmons, Mary	Magdalena
Simmons, Zelda	Magdalena
Simpson, Mrs. Elizabeth P.	Albuquerque
Sletwold, Ferdinand O.	Sioux City, Iowa
Sletwold, Ruth	Sioux City, Iowa
Spade, Irene	Clovis
Spencer, Margaret	Estancia
Spillers, Eula B.	Albuquerque

Spillers, Lena	Albuquerque
Spillers, Mrs. Frances	Albuquerque
Stamm, Winifred R.	Albuquerque
Stearns, Marjorie	Albuquerque
Stephens, Mrs. Edith L.	Albuquerque
Stinnett, Marion M.	Portales
Stinnett, Rufus	Portales
Stone, Gertrude	Albuquerque
Stone, Luther M.	Albuquerque
Stover, Haldane	Albuquerque
Stroope, Irene	Albuquerque
Stubblefield, Cleva	Mt. Dora
Stubblefield, William M.	Mt. Dora
Stubbs, Helen	Albuquerque
Stuppi, Florence	Phoenix, Arizona
Sturgeon, Kate	Albuquerque
Swayne, Florence E.	Albuquerque
Swenson, Vernice	Balaton, Minnesota
Tartaglia, Concetta	Albuquerque
Tartaglia, Stella	Albuquerque
Taylor, Carl N.	Albuquerque
Taylor, James W.	Portales
Taylor, Mrs. James W.	Portales
Taylor, Margaret	Madrid
Taylor, Martin L.	Penasco
Terrazas, Juana	Albuquerque
Terry, Winifred	Albuquerque
Thompson, Mrs. Blanche	Albuquerque
Thompson, Winifred	Albuquerque
Tolle, Vernon O.	Albuquerque
Traylor, Lynda D.	Tucumcari
Trudelle, Mrs. Mary O.	Albuquerque
Trujillo, Josie	Taos
Trujillo, Miguel	Isleta
Turner, Ada	Albuquerque
Turner, Virginia	Albuquerque
Tuttle, Edna F.	Albuquerque
Van Dyken, Joan	Santa Fe
Vergolio, Frances	Cerrillos
Vergolio, Genevieve	Cerrillos
Vergolio, Julia	Cerrillos

Vigil, Aurora	Socorro
Vigil, Bernardo	Lemitar
Vigil, Catarino	Lemitar
Von Ehrenfeld, Mrs. Eva	Congress, Arizona
Walls, Mrs. Anna G.	Albuquerque
Walter, Mrs. Alva J.	Albuquerque
Walters, Mrs. Eleanor L.	Gallup
Weaver, Alda Mae	Dexter
Weil, Mrs. Ellen E.	Albuquerque
Wells, Lorena	Albuquerque
Wentworth, Kenneth L.	Albuquerque
Wentworth, Madelyn	Albuquerque
White, Alice F.	Albuquerque
Wiley, Genevieve	Albuquerque
Wiley, Marion Amy	Albuquerque
Williams, Corinne	Estancia
Williams, Jasper B.	Las Cruces
Williams, Leila F.	Albuquerque
Wilson, Mrs. Bertha L.	Albuquerque
Woodall, Mrs. Etna	Estancia
Wootton, Marguerite	Albuquerque
Wortman, Edith May	Albuquerque
Wyland, Grace	Isleta
Yearout, Cora Cecilia	Albuquerque
York, Ethel J.	Albuquerque
Zamora, Luis	Bosque
Zeliff, Verr	Albuquerque

FIELD SCHOOL

BATTLESHIP ROCK, JEMEZ HOT SPRINGS, NEW MEXICO, AUGUST, 1928

Anderson, Arthur James O.	San Diego, California
Archer, Mary Lee	Santa Rita
Ballard, Charles M.	Albuquerque
Barlett, Katharine	Denver, Colorado
Bengler, Mrs. Bertha L.	New York City
Boyd, Mrs. W. F.	Saguache, Colorado
Brophy, William	Albuquerque
Bruce, William F.	Cisco, Texas

Cramer, Mrs. Edith M. ----- Santa Rita
 Cramer, Helen ----- Santa Rita

DuBois, Geraldine M. ----- Corona
 DuMond, Frank L. ----- Grand Rapids, Michigan
 Dunbar, Helen Elizabeth ----- San Diego, California
 Dunbar, Mrs. Helen ----- San Diego, California

Flynn, William J. ----- Albuquerque

Geradehand, Clara H. ----- San Diego, California
 Goddard, Sara ----- Albuquerque

Harding, Mabel Virginia ----- San Diego, California
 Harper, Mrs. Blanche W. ----- Jemez
 Harrington, Mrs. Guyneth B. ----- Chestnut Hill, Massachusetts
 Hickey, Mayo E. ----- Albuquerque
 Holloman, Elizabeth B. ----- Santa Fe

Johnson, Bessie Lee ----- Albuquerque
 Johnson, Mrs. Elizabeth B. ----- New York City

Leasure, Mary B. ----- National City, California
 Leavitt, Charlott ----- Hartsdale, New York
 Leggo, Evelyn ----- St. Paul, Minnesota
 Leibold, Clara C. ----- Albuquerque

McKee, Kathleen L. ----- Starkville, Colorado
 Mayes, Ada ----- El Monte, California
 Milne, John ----- Albuquerque
 Murphy, Helen E. ----- Albuquerque

Neel, Gladys ----- Albuquerque

Osuna, Anita ----- Albuquerque

Patton, Mrs. Katharine ----- Hartford, Connecticut

Randel, Helen M. ----- San Diego, California
 Reiter, Paul ----- Santa Fe
 Risser, Anna ----- Albuquerque
 Rogers, Spencer L. ----- San Diego, California
 Russell, John ----- Albuquerque

Scott, Mrs. Velma	Santa Rita
Sherman, John	South Euclid, Ohio
Stamm, Winifred R.	Albuquerque
Stevens, Mrs. Harold W.	Ravenna, Ohio
Stubbs, Stanley	Albuquerque
Tanquist, Mamie R. E.	St. Paul, Minnesota
Taylor, Carl N.	Albuquerque
Tietjens, Janet	Chicago, Illinois
Trowbridge, Mrs. Lydia J.	Winnetka, Illinois
Trujillo, Miguel H.	Isleta
Vann, Dick	Albuquerque
Vivian, Gordon	Albuquerque
Watkins, Frances Emma	Denver, Colorado
Weir, William	South Euclid, Ohio
Wilford, Lloyd Alden	Minneapolis, Minnesota

SUMMARIES AND STATISTICS

ENROLLMENT

	Men	Women	Total
First and Second Semesters, 1928-1929.			
College of Arts and Sciences	293	292	585
College of Education	42	176	218
College of Engineering	128	0	128
Graduate School	23	27	50
Totals	486	495	981
Extension Division			
Correspondence Courses	20	54	74
Non Resident Classes	21	26	47
Totals	41	80	121
Summer Session, 1928	92	310	402
Field School, 1928	19	36	55
Totals	638	921	1559
Less Duplicates	53	157	210
Net Total	585	764	1349
Total enrollment, first semester			862
Total enrollment, second semester			784
Total for year			1646
Less duplicates (students enrolled both semesters)			665
Total different persons registered			981

ENROLLMENT BY CLASSES

Freshmen	196	139	335
Sophomores	111	113	224
Juniors	79	92	171
Seniors	39	49	88
Special and Unclassified Students	38	75	113
Graduate School	23	27	50
Total	486	495	981

DISTRIBUTION OF STUDENTS BY STATES AND COUNTIES

(First and second semesters, 1928-1929. Does not include Extension Division, Summer Session, or Field School.)

New Mexico (Counties)

Bernalillo	574	Otero	8
Catron	1	Quay	19
Chaves	40	Rio Arriba	3
Colfax	17	Roosevelt	11
Curry	11	Sandoval	2
DeBaca	5	San Juan	4
Dona Ana	3	San Miguel	2
Eddy	25	Santa Fe	36
Grant	5	Sierra	2
Harding	2	Socorro	11
Lea	1	Taos	4
Lincoln	8	Torrance	12
Luna	4	Union	12
McKinley	20	Valencia	23
Mora	1		

Total from New Mexico 866

Other States

Alabama	1	Minnesota	1
Arizona	3	Mississippi	1
Arkansas	1	New Jersey	1
California	17	New York	1
Colorado	9	North Carolina	1
Georgia	1	Ohio	7
Illinois	3	Oklahoma	8
Indiana	6	Oregon	1
Iowa	5	Pennsylvania	1
Kansas	11	Tennessee	2
Kentucky	1	Texas	17
Louisiana	1	Virginia	3
Michigan	2	West Virginia	3

Total from other states 114

Foreign Countries

Korea	1
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Total 981

SCHOLARSHIPS - AWARDS - HONORS

IVES SCHOLARSHIP FOR 1928-1929

Anita Ayala
Irene Quintana
Jessie Rankin

C. T. FRENCH MEDAL FOR SCHOLARSHIP

Marcella Reidy

SIMMS PRIZE FOR ENGLISH COMPOSITION

Maude Crosno

BREECE PRIZE IN ENGINEERING

Donald Crosno

PRAGER PRIZE IN ACCOUNTING

Fletcher Bowman

CHI OMEGA PRIZE IN ECONOMICS

Dora Herby

MARIAN COONS AWARD

Winifred Crile

HARRY L. DOUGHERTY MEMORIAL PRIZE IN ENGINEERING

Robert Palmer

ALFRED GRUNSFELD MEMORIAL FOUNDATION

Robert Amis

ALPHA CHI OMEGA MUSIC PRIZE

Pearle Tucker

UNNAMED DONOR SCHOLARSHIPS

Wilma Lusk
Robert Officer

PHILO S. BENNETT AWARD

Marcella Clayton

BEST STUDENTS FOR 1927-1928

COLLEGE OF ARTS AND SCIENCES

Freshman	Marie Rose
Sophomore	Eleanor Parkhurst
Junior	Gladys Jones
Senior	Marcella Reidy

COLLEGE OF ENGINEERING

Freshman	William Huffine
Sophomore	Robert Palmer
Junior	Charlie McDonald
Senior	Donald Crosno

DEGREES CONFERRED JUNE 4, 1928

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

	Major Studies.	Minor Studies
Thelma Mary Adams	Education, English	
Geard Bert Armstrong, Jr.	History, Economics	
Elvin Brant Bass	Economics	History, Educ.
Loraine Lafayette Black	Economics	History
Mildred Louise Bliss	English	History, Educ.
Raymond Allen Brodie	Economics	History
Richard Arnold Bruce	Education, History	
Barney Tillman Burns	Economics	English
Arthur Leon Campa	Spanish	French
Ted Franks, Clark	Economics	History, Psychology
Clyde Charles Cleveland	English	Education, Spanish
James Bryson Corbett	Economics	Political Science
Maude Davis Crosno	English	Music
Janet Virginia Edwards	Mathematics	Education
Letitia Frances Eells	English, Latin	Spanish
Dorothy Margaret Eilers	Psychology	Education, History
Harrison Eilers	History	Education, Geology
Katharine Owen Forgotson	English	Education
Katherine Elizabeth Gallagher	Education	Chemistry

Amalia Chavez Gonzalez -----	Music	Education, History
Ellen Goodart -----	Education, Math.	English
Samuel Shortle Goodwin -----	History	History, Music
Blanche Wurdack Harper -----	Education, English	Education, English
Amy Elizabeth Haymaker -----	English	Home Economics
Howard Anderson Hext -----	Spanish	Education, Psychology, Home Economics
Loreen Inez Hurley -----	Music	History
Helen Gertrude Kay -----	English	Economics
Albert Richard Kool -----	Economics	Education
Malcolm Lee Long -----	English	Education
Germaine Pauline McCraney ..	English	Latin
Virginia Estelle McManus ----	English, Music	Education
Ellen Herron Mapes -----	English	Education
Annie Fairchild Montoya ----	History	History
Katherine Fairchild Montoya ..	History	Economics
Auburn Hillery Muncy -----	Economics	Psychology
Max O'Brien -----	History	Music, Education
Alpha Odle -----	Economics	Home Econ- omics
Leona Marie Raillard -----	History	Education, Eng.
William Bryan Reardon -----	Economics	English, Geol.
Marcella Reidy -----	English, Spanish	Education, Music
Charles Francis Renfro -----	Education	History
Nell Snyder Rhoades -----	English	French
Robert McNicol Ruoff -----	Economics	English, Education
Susanna Arabella Sterrett ----	English, Psychology	English
Barber-Nell Thomas -----	Psychology	
June Butler Willhite -----	Education	

BACHELOR OF SCIENCE

Forest Appleby -----	Chemistry	Spanish
Moynelle Stevenson Blessum	Mathematics, Physics	Economics
Maynard Lea Bowen -----	Chemistry	Education
Winifred Lucille Crile -----	Home Economics	English, Education
Charlotte Klyng -----	Home Economics	

Louis Addison McRae, Jr.	Chemistry	Biology
Margaret Lola Spencer	Home Economics	Education
Mabel Minnie Weaver	Mathematics	Biology, Education

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE

Charles Morrill Allen	General Engineering
Arthur Bryce	Chemical Engineering
Charles Donald Crosno	Electrical Engineering
Ray Dukeminier	Electrical Engineering
Jesse R. French	Civil Engineering
Fletcher Livingston Short ..	Civil Engineering

GRADUATE SCHOOL

MASTER OF ARTS

Carolyn Victoria Dorsey-McClure	Education	History
Gladys Neel	History	Education
Frank Driver Reeve	History	Education
John Edward Seyfried	Education	Psychology
Elizabeth Strong Shamberger ..	History	Education

HONORARY DEGREE

DOCTOR OF LAWS

Ray Lyman Wilbur, A. B., A. M., M. D., Sc. D., LL. D.

DEGREES CONFERRED JULY 28, 1928

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

Louise Marion Hubbell	History	Education
Libradita Marquez	Spanish	Education
Irene Louise Spade	Home Economics	Education

BACHELOR OF SCIENCE

Edward Grant McCann	Chemistry	Mathematics
Elizabeth Parkinson Simpson ..	Home Economics	Education

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