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.

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.

Instructor in Modern Languages and Literature.

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); Certificate, (Universitie 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 Administration and Director of the Summer Session.

NEUFELD, DIETRICH D., Ph. D., (Jena).
Assistant Professor of Modern Languages and Literature.

NEWSON, CARROLL V., A. B., (College of Emporia); M. A., (University 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; American 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 University).
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.
   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.
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 Raynolds 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 ENVIRONMENT

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 Reynolds 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 universali 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 UNDERGRADUATES

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 unre­moved 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.
FEES.

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
FEES

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:

<table>
<thead>
<tr>
<th>Meal</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakfast</td>
<td>35c</td>
</tr>
<tr>
<td>Dinner</td>
<td>50c</td>
</tr>
<tr>
<td>Supper</td>
<td>50c</td>
</tr>
<tr>
<td>Dinner (Sundays and holidays)</td>
<td>75c</td>
</tr>
</tbody>
</table>

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 deportment 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-Omegans 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 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 scholarships 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.
The University of New Mexico

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 Círculo 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 women's 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.
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 toward 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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>English (21)</td>
<td>English (22)</td>
</tr>
<tr>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>For. Lang.</td>
<td>Chemistry (2)</td>
</tr>
<tr>
<td>Chemistry (1)</td>
<td>Home Econ. (12)</td>
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<tr>
<td>Home Econ. (11)</td>
<td>Electives</td>
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<tr>
<td>Electives</td>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Educ. (55)</td>
<td>Physical Educ. (56)</td>
</tr>
<tr>
<td>Biology (1)</td>
<td>Biology (26)</td>
</tr>
<tr>
<td>Home Econ. (53)</td>
<td>Home Econ. (54)</td>
</tr>
<tr>
<td>Home Econ. (61)</td>
<td>Home Econ. (62)</td>
</tr>
<tr>
<td>Economics (15)</td>
<td>Economics (18)</td>
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<tr>
<td>For. Lang., or Electives</td>
<td>Chemistry (68)</td>
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<tr>
<td></td>
<td>Electives</td>
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### THIRD AND FOURTH YEARS

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics (61)</td>
<td>Biology (92)</td>
</tr>
<tr>
<td>Home Econ. (to complete major)</td>
<td>Home Econ. (to complete major)</td>
</tr>
<tr>
<td>English</td>
<td>Electives</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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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-
The following subjects are included in the minimum two years of required, or the three years of recommended college work:

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>12-16</td>
</tr>
<tr>
<td>Biology</td>
<td>8-12</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>French or German</td>
<td>6-12</td>
</tr>
<tr>
<td>Electives</td>
<td>11-20</td>
</tr>
</tbody>
</table>

**Courses Advised (Electives):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics, including Algebra and Trigonometry</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>3-6</td>
</tr>
<tr>
<td>Latin</td>
<td>6-12</td>
</tr>
<tr>
<td>Economics</td>
<td>3-6</td>
</tr>
<tr>
<td>History</td>
<td>3-6</td>
</tr>
<tr>
<td>Additional Chemistry</td>
<td>3-6</td>
</tr>
<tr>
<td>Additional Biology</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**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 transcontinental 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.

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

For work of first year see page 69

SECOND YEAR

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Total 151-155
**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

For work of first year see page 69

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**THIRD YEAR**

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18
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**Total Credits:** 19

### Fourth Year

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**Total Credits:** 18

**Total Credits:** 148
# CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

For work of first year see page 69

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**18**
## Second Semester

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<tr>
<td>E. E. 102, 112</td>
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<td>C. E. 110, 114</td>
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<td>M. E. 102, 104</td>
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## Fourth Year

### First Semester

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<td>E. E. 161</td>
<td>Electrical Design</td>
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<td>E. E. 194</td>
<td>Communications</td>
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### Second Semester

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<td>E. E. 162</td>
<td>Elec. Design</td>
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<td>E. E. 182</td>
<td>Seminar</td>
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<tr>
<td>E. E. 192</td>
<td>Power Plant Eng.</td>
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CURRICULUM LEADING TO THE DEGREE OF
BACHELOR OF SCIENCE IN GEOLOGICAL
ENGINEERING

For work of first year see page 69

SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>Geol. 1</td>
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THIRD YEAR

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<tr>
<td>Geol. 51</td>
<td>Mineralogy</td>
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<td>C. E. 105</td>
<td>App. Mechanics</td>
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<table>
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<td>Geol. 52</td>
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<td>E. E. 106, 108</td>
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<td>Geol. 108</td>
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Total: 18-20

### FOURTH YEAR

#### First Semester

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<td>Chem. 112</td>
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Total: 18

#### Second Semester

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<td>Geol. 106</td>
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<tr>
<td>Chem. 110</td>
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Total: 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**

<table>
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<tr>
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<tr>
<td>Phys. 51, 53</td>
<td>Physics</td>
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<tr>
<td>C. E. 51, 53</td>
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<td>Econ. 21</td>
<td>Economics</td>
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<tr>
<td>M. E. 51</td>
<td>Machine Drawing</td>
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<td>Phys. Educ.</td>
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**Second Semester**

<table>
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<tr>
<th>Credits</th>
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<td>20</td>
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| 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 |

**THIRD YEAR**

<table>
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<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>M. E. 101</td>
<td>Thermo-dynamics</td>
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<tr>
<td>M. E. 121</td>
<td>Seminar</td>
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<td>E. E. 105, 107</td>
<td>P. &amp; P. of E. E.</td>
</tr>
<tr>
<td>C. E. 105</td>
<td>App. Mechanics</td>
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18
### Second Semester

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<td>M. E. 102</td>
<td>Thermo-dynamics</td>
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<td>M. E. 122</td>
<td>Seminar</td>
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<td>C. E. 108, 112</td>
<td>Strength of Materials</td>
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<td>M. E. 114</td>
<td>Mechanisms</td>
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<tr>
<td>C. E. 110, 114</td>
<td>Hydraulics</td>
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Total: 18

### FOURTH YEAR

#### First Semester

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<thead>
<tr>
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<td>M. E. 103</td>
<td>Power Plants</td>
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<td>M. E. 105</td>
<td>M. E. Lab.</td>
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<td>M. E. 115</td>
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<td>M. E. 123</td>
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<td>M. E. 133</td>
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Total: 18

#### Second Semester

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<td>Int. Comb. Engine</td>
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<td>M. E. 118</td>
<td>Plant Design</td>
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<td>M. E. 116</td>
<td>Machine Design</td>
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<td>M. E. 134</td>
<td>Technical Option</td>
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<td>M. E. 132</td>
<td>Industrial Management</td>
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Total: 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 execu-
tives, 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 re-
quired 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. Where-
ever 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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>English (Freshman Comp.) ___ 3</td>
<td>English (Freshman Comp.) ___ 3</td>
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<tr>
<td>Education (Introd. to Educ.) ___ 2</td>
<td>Classroom Org. &amp; Mang’t. ___ 3</td>
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<tr>
<td>Science ___ 3-5</td>
<td>Science ___ 3-5</td>
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<tr>
<td>Social Science ___ 3</td>
<td>Social Science ___ 3</td>
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<tr>
<td>Foreign Language ___ 3-5</td>
<td>Foreign Language ___ 3-5</td>
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SOPHOMORE YEAR

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<tr>
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<th>Second Semester</th>
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<tbody>
<tr>
<td>English Literature ___ 3</td>
<td>English Literature ___ 3</td>
</tr>
<tr>
<td>Psychology (General) 3</td>
<td>Educ. (Educ. Psych.) 3</td>
</tr>
</tbody>
</table>
COLLEGE OF EDUCATION

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.
COLLEGE OF EDUCATION

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
English (Fresh. Comp.), 3
Educ. (Intro. to Educ.) 2
Science _______ 3-5
Social Science _______ 3
Foreign Language _______ 3-5

Second Semester
English (Fresh. Comp.) 3
Classroom Org. & Mang't. _______ 3
Science _______ 3-5
Social Science _______ 3
Foreign Language _______ 3-5

SOPHOMORE YEAR

First Semester
English Literature _____ 3
Psychology (General) 3

Second Semester
English Literature _____ 3
Educ. (Educ. Psych.) 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-
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

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.
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.)
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.
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-
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. Pre-requisite 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. Pre-requisite 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 hydrodynamic 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.
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.
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.


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 supplemental 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

classroom 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;
treated 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 classroom 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.
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.
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 cur-
rent 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.
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 1. Courses 21, 22, and 25 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.


(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-
55. Public Speaking. 3 credit hours.
57. Types of English Literature. For students not ex-pecting to major in English. Prerequisites: English 21 and 22. 3 credit hours.
58. Argumentation and Debate. Training in the ap-plication of formal logic to oral and written argu-ment. 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 in-structor. Prerequisites: English 21, 22. 3 credit hours.
68. Special Course in Advanced Composition. Given for advanced students with considerable training or tal-ent. 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 repre-sentative 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 monu-ments of Palestine, Greece, Rome, Medieval and Ren-
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naissance 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.)
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.
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.

PRIMARILY 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.

PRIMARILY FOR UNDERGRADUATES

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

*Resigned, January, 1929.
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.


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.)
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. SCHOLE, 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.
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**


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.*
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.
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.
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, 1½ 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. Pré-Seminar. Prerequisite: A minor in mathematics. (Not open to graduate students.) 2 credit hours each semester.

PRIMARILY FOR GRADUATES

214. Modern Algebra. Prerequisites: Mathematics 113 and 115. 3 credit hours.

221. Projective Geometry. Prerequisites: Mathematics 102 and 121. 3 credit hours.
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.
FOR ADVANCED UNDERGRADUATES AND GRADUATES

103-104. Advanced Composition and Conversation. Pre-requisites: 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 ½ 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-
interpreted 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

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, Tschaikowsky, 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.
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 Mazza’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

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, basketball, 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.
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.

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.


DEPARTMENT OF PSYCHOLOGY


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.
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 ...........

Problems in the Teaching of the Content Subjects ...........

History of Education in Europe .............. Visiting Instructor Donaldson
Classroom Organization and Management ..........

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:

<table>
<thead>
<tr>
<th>CLASS</th>
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<tbody>
<tr>
<td></td>
<td>Arts and Sciences</td>
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<tr>
<td>Freshmen</td>
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<td>Juniors</td>
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<td>Seniors</td>
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</tbody>
</table>

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
<table>
<thead>
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<th>City</th>
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<td>Baca, Tony</td>
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<td>Baer, Darice F.</td>
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<td>Bonnell, Mildred</td>
<td>Glencoe</td>
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<td>Boyle, Alorie</td>
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<td>Bratton, Emma Lee</td>
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<td>Brave, Mrs. Louis</td>
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<td>Brickley, Marjorie</td>
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<td>Cagle, Reese</td>
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<td>Campbell, John D.</td>
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<td>Carden, Mrs. Elva E.</td>
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<td>Carter, John Willis</td>
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<td>Carver, Donald W.</td>
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<td>Castetter, Robert P.</td>
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<td>Castle, Anna Belle</td>
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<td>Cate, Beverley</td>
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<td>Chamberlin, Lillian</td>
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<td>Chavez, Otero</td>
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<td>Clark, Nellie</td>
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<td>Clayton, Barbara A.</td>
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<td>Cleaves, Catherine D.</td>
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<td>Coggin, Eloise</td>
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<td>Cooper, Barnett</td>
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<td>Cottrrell, Dorothy</td>
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<td>Coverdale, George A.</td>
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<td>Crist, Elmer P.</td>
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<td>Curlin, Harry S.</td>
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<td>Dannell, J. Thomas, Jr.</td>
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<td>Davidson, Blanche A.</td>
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Davidson, Fayette ——— Roswell
Dunkerley, Garner, Jr. ——— Ennis, Texas

Eckerman, Vedna ——— Laguna, N. M.
Edgerton, Georgette ——— El Paso, Texas
Eller, Barbara ——— Albuquerque
Esquivel, 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
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Rydholm, Clarence E. ............................................... Albuquerque

Salle, George A. ..................................................... Trinidad, Colorado
Sargent, William Hall .............................................. Santa Fe
Scheele, Helene ..................................................... Belen
Scott, Mildred ........................................................ Clovis
Seamans, Herbert P. ................................................ Belen
Sellers, Dorothy ..................................................... Mountainair
Shaw, Thomas B. ..................................................... Albuquerque
Shockley, Charles L. ............................................... Albuquerque
Shoemaker, Charles R. .............................................. Phoenix, Arizona
Shoemaker, Mabie L. ................................................ Phoenix, Arizona
Shrode, Minnie M. ................................................... Salem, Oregon
Smith, Francis A. ................................................... Albuquerque
Smith, Gladys ........................................................ Clovis
Smyer, Frances ...................................................... Thoreau
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
Titsworth, 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 ........................................................ Albuquerque
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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. ................................ Albuquerque
Watson, Josephine ......................... Santa Fe
Wentworth, Mrs. Madelyn S. ............... Albuquerque
White, Edna ................................ Albuquerque
White, Morgan ................................ Albuquerque
Wiley, Lloyd ................................ Springer
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
Doizadelli, 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
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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
Pepleman, Lannes .......................................... Melrose
Pence, Ned ................................................... Albuquerque
Peverley, Barbara ........................................... Belen
Pomerenk, Dorothy ........................................ Albuquerque
Pratt, Ruth .................................................. Raton
Prentice, Florence ......................................... Tucumcari

*Deceased.

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DIRECTORY OF STUDENTS

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
Connor, 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

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Leese, Elzadie ................................ Albuquerque
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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
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Mulroney, Jane ................................ Albuquerque
Muntzing, Ernest ............................. Maysville, West Virginia

Nicholas, Walter A. .......................... Roswell

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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Pooler, Mrs. Lolita H. .......................................... Albuquerque

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Wylie, Mrs. Lockey P. .......................................... Albuquerque

SENIORS

Barker, Doris ................................................... Santa Fe
Black, Gladys .................................................... Albuquerque
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Olson, Alice                        Albuquerque
Olson, Mabel                        Albuquerque
Parra, Ezekiel                      Albuquerque
Pettit, Lenore                      Albuquerque
Quintana, Irene                     Santa Fe
Salazar, Adriano R.                 Albuquerque
Scheele, Anita                      Albuquerque
Shaver, Christine                  Albuquerque
Sieglitz, Ellis H.                  Albuquerque
Silver, Lela                        Albuquerque
Stansifer, Helen                   Albuquerque
Stubbs, Stanley                    Albuquerque
Taylor, Lester A.                   Alamo, Tennessee
Ullrich, Leon                      Roswell
Watson, John T.                     Santa Fe
Wells, Mable L.                    Danville, California
Wortman, Emmy                      Peralta
Wright, Gilbert                    Springer
Zimmer, Norbert W.                 Albuquerque

SPECIAL AND UNCLASSIFIED STUDENTS

Allen, Cora                        Albuquerque
Armijo, Ernestine                  Albuquerque

Ballard, Charles M.                Albuquerque
Bollman, Mrs. Betty J.             Albuquerque
Borland, Glenn W.                  Albuquerque
Betts, C. M.                       Albuquerque
Bower, Mrs. Bertha Lee             Albuquerque
Brady, Mrs. Mary Shaw              Chicago Illinois
Brewington, Dr. Margaret           Albuquerque
Bullock, Eleanor                   Colorado Springs, Colorado

Castetter, Mrs. Ellen W.           Albuquerque
Clark, Juanita                     Boulder, Colorado
Clayton, Edmund M. ............................................ Albuquerque
Clinton, Mrs. Jane A ........................................ Albuquerque
Cross, Ray M. .................................................... Albuquerque
Diefendorf, Mrs. May F. ....................................... Albuquerque
Dozier, Louise .................................................... Albuquerque
Ellis, Mrs. Helen H. ........................................... Albuquerque
Embry, James ..................................................... Albuquerque
Fink, I. J. .......................................................... Albuquerque
French, Mrs. Elizabeth T. ..................................... Albuquerque
Garcia, Dolores .................................................. Albuquerque
Gardner, Mrs. Gertrude ......................................... Albuquerque
Goddard, Bertha M. ............................................. New York City
Goddard, Sarah A. ................................................ Albuquerque
Graham, Leona .................................................... Tulsa, Oklahoma
Griego, Adele ..................................................... Albuquerque
Haeglin, August A. .............................................. Atchison, Kansas
Hall, Mrs. Jean Beatriz ........................................ New York City
Hannett, Mrs. Louise W. ........................................ Albuquerque
Hayes, Edward F. ................................................ Albuquerque
Henry, Emma ........................................................ Albuquerque
Howard, Coy ........................................................ Elgin, Oklahoma
Hurt, Mrs. Amy .................................................... Albuquerque
James, Wendell W. .............................................. Albuquerque
Jamison, Mrs. Edna J. .......................................... Albuquerque
Johnston, Mrs. Florence P. ..................................... Albuquerque
Johnston, Leonora ............................................... Albuquerque
Jones, Mrs. Irene A. ............................................. Albuquerque
Kelly, Emmett J. ................................................. Franklin, Kentucky
Kendrick, R. C. ................................................... Albuquerque
Kim, Oliver C. .................................................... Chinampo, Korea
Leggett, Kenneth ................................................ Albuquerque
McGuire, Dwight ................................................ Albuquerque
McNary, Ruth E. ................................................ Albuquerque
Maddox, Arlin M. ................................................ Las Vegas
Montgomery, Paul ............................................... Albuquerque
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Nolting, Mrs. Nell .................................................. Albuquerque
Nutty, George D. .................................................. Roswell

Pearce, Maybelle ................................................... Orla, Texas
Perry, Reuben ....................................................... Albuquerque
Pfuetze, Paul E. ..................................................... Albuquerque
Priest, Mrs. Ruby G. ............................................... Albuquerque

Reid, Iola ............................................................ Albuquerque
Reiter, Mrs. Anna C. ............................................... Albuquerque
Roberson, Lucy K. ................................................ Albuquerque
Rockwood, Mrs. Ethel C. ......................................... Albuquerque

Salazar, Annie ....................................................... Albuquerque
Scheffer, M. Esther ................................................ Albuquerque
Scholes, Mrs. Lillith A. ....................................... Albuquerque
Scott, Hunter D. ................................................... Albuquerque
Skrivanek, Joseph W. ........................................... Albuquerque
Strumquist, Niles ................................................ Albuquerque

Terry, Mrs. Winifred .............................................. Albuquerque
Thompson, Harry L. .............................................. Albuquerque
Thompson, Mrs. Winifred D. ................................... Albuquerque
Tireman, Mrs. Pearl ............................................... Albuquerque

Walker, Madge ....................................................... Albuquerque
Warner, Mrs. Edmonia F. ....................................... Albuquerque
Whitner, Mrs. Mary T. .......................................... Albuquerque
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Barela, Rachael ................................................... Albuquerque
Bonner, John Tedrowe .......................................... Fort Sumner
Bowers, Dell ....................................................... Albuquerque
Bowers, Nell ....................................................... Albuquerque
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Brownlee, Mary Tandy .......................... Santa Fe
Buehring, Ruth .................................. Albuquerque
Bullock, Edna .................................. Artesia
Bustamente, Rose ............................... Albuquerque

Chamberlin, Mayme ............................. Albuquerque
Clayton, Marcella .............................. Roswell
Colby, Lewis F. ................................ Albuquerque

Davis, Genevieve ............................... Gallup
Duran, Gilbert E. ............................... Albuquerque

Freed, Hazel .................................. Albuquerque

Gilbert, Beth .................................. Alamogordo
Goetz, Amalia ................................ Hot Springs

Halbrooks, Helen ............................... Anthony
Herndon, Creta ................................ Portales

Johnson, Betty ................................ Roswell

Keim, Joe .................................. El Paso, Texas
Keller, Mary Ellen ............................. Hope

Little, Roberta ................................. Albuquerque
Loudon, Louise ................................. Albuquerque

McGill, Carl R. ................................. Clovis
Manning, Earl V. ............................... Clovis
Martinez, Andres A. .......................... Ranches of Taos
Martinez, Patricio ............................ Ranches of Taos
Mitchell, Elizabeth ........................... Albuquerque

Nelson, Merle A. ............................... Monrovia, California
Noonen, Mary ................................ Gallup

Payne, Mildred ................................. Willard
Poorbaugh, John ............................... Roswell

Reding, Susie ................................ Albuquerque
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Roberts, Alda .................................................. Roswell
Romero, Sostenita ........................................... Albuquerque
Rowan, Maxine .................................................. Artesia

Salome, Eva .................................................. Magdalena
Schulmeister, Dorothy ....................................... Albuquerque
Shawhan, Andy W. ............................................. Frankfort, Indiana
Simpson, Glen E. .............................................. Albuquerque
Smith, Helen ................................................... Moses
Smith, Margaret Ellen ........................................ Moses

Telles, Elias .................................................... Bent
Wasson, Drayton E. ............................................. Estancia
Williams, Alice Ruth ......................................... Hope

SOPHOMORES

Alderete, Frances ............................................. Albuquerque
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

Foster, Horace Mannie ....................................... Albuquerque

Gibson, Blanche P. ........................................... Albuquerque

Herby, Dora ................................................... Albuquerque
Hilliard, Winifred ............................................. Albuquerque
Hix, Mrs. Dorothy H. .......................................... Albuquerque
Houston, Violet ............................................... Albuquerque
Hubbell, Mrs. Helen E. ....................................... Albuquerque
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Walker, Bertha H. ........................... Albuquerque
Weaver, Ethel ................................ Dexter
Weaver, Genevieve ........................... Bellview
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Wiley, Marion ............................... Albuquerque
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JUNIORS

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Panzlau, Leona Helen .................................... Albuquerque
Perce, Myrtle ............................................. Albuquerque

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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
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Van Doren, Hazel ......................................... Roswell

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McFatter, Caroline ............................... Canadian, Texas
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Reeder, Janice B. ................................. Albuquerque
Riedeman, Mrs. Mildred S. ........................ Albuquerque
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Sharp, Mrs. W. S. ................................. Albuquerque
Walters, Mrs. Lydia M. ........................... Albuquerque

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Clark, Arva Blanche ............................. Canyon City, Colorado
Coughlin, Joe .................................... Monrovia, California
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
Sweet, Emma Belle .......................... Albuquerque

Tubbs, Rhoda .......................... Candor, New York
Turner, Ada .......................... Albuquerque
Turner, Virginia .......................... Albuquerque

Walls, Mrs. Anna G. .......................... Albuquerque
Wells, Lorena .......................... Old Albuquerque
Williamson, Mrs. Lois B. .......................... Albuquerque

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Adams, Scott .......................... Albuquerque
Bankston, Charles A. .......................... Albuquerque
Barela, Eugene P. .......................... Albuquerque
Barker, Charles .......................... Santa Fe
Barnett, Stanley .......................... Roswell
<table>
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Roberts, Carl E. .................................................. Albuquerque
Rose, William G. .................................................. Albuquerque
Scott, Myrven ......................................................... Monrovia, California
Scott, Walter ......................................................... Silver City
Stamm, Roy Allen .................................................... Albuquerque
Stockton, James Earl .................................................. Amarillo, Texas
Thorne, Ronald A. .................................................. Albuquerque
Torres, Sinesio A. .................................................. Albuquerque
True, Austin ........................................................... House
Vidal, Charles B., Jr. .................................................. Gallup
Ward, Milton E. ......................................................... Bluewater
Wheatley, John R. ..................................................... Mount Dora
Wheatley, William C. .................................................. Clayton
Wilhelm, Phillip F. .................................................... Albuquerque
Yates, Thurman ........................................................ Gallup
Young, Hubert E. ....................................................... Sanford, Colorado

SOPHOMORES

Anderson, Augustus E. ................................................. Buffalo, New York
Bangerter, Harry G. ..................................................... Clayton
Blair, Sam B. .......................................................... Albuquerque
Carter, Rufus H., Jr. .................................................. Albuquerque
Chavez, Joseph E. ..................................................... Albuquerque
English, Don B. ......................................................... Carrizozo
Fairly, John A., Jr. .................................................... Portales
Gomez, Claude J. ....................................................... Albuquerque
Harris, Robert S. ....................................................... Albuquerque
Huffine, William B. ..................................................... Raton
McCormick, Richard S. ................................................. Monrovia, California
McCraw, James L. ...................................................... Albuquerque
Martin, William A. ................................................... Clovis
Mulroy, Harry C. ...................................................... Roswell
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Pelatowski, Stanley Albuquerque
Perce, Marion A. Albuquerque
Pelcher, John E. Albuquerque

Root, Lindsay F. Albuquerque
Sadler, James E. Albuquerque
Sandoval, Pete Albuquerque
Seery, James D. Belen
Smith, Burton L. Santa Fe
Spahr, Richard B. Albuquerque

Uhl, Dean E. Farmington
Wilson, William Gallup
Wylie, Lenuel F. Albuquerque

JUNIORS

Abbott, W. I. Albuquerque
Allen, Carl V. Albuquerque
Anderson, Grant S. Roswell

Barrows, Wilbur Carlsbad
Bisbee, Wallace Bristow, Oklahoma
Butler, Lloyd S. Decatur, Illinois

Carden, Leo F. Albuquerque
Cline, Jack Albuquerque

Eatinger, Wilbur L. Albuquerque
French, Baird Miller Carrizo
Henderson, Carl E. Carlsbad

Luthey, Forrest N. Albuquerque
McDowell, Lawrence E. Albuquerque
Mitchell, David Albuquerque
Moses, Horace Gamerco
Mudgett, William Albuquerque
Murphy, Kenneth A. Monrovia, California
Neal, Frank                                Buffalo, New York
Palmer, Robert S.                           Alamogordo
Phillips, Homer N.                          Albuquerque
Smith, William Bernice                      Albuquerque
Sterrett, John D.                           Albuquerque
Thomas, Paul                                Albuquerque
Tully, James                                Glencoe
Wylie, Marshall J.                          Allison

**SENIORS**

Brown, Vollie G.                            Albuquerque
Crawford, James G.                          Albuquerque
Dietzman, John R.                           Tucumcari
Fricke, Frederick J.                       Albuquerque
Hall, Wendell G.                            Santa Fe
Jenkins, Robert D.                          Albuquerque
Key, John C.                                Big Springs, Tennessee
Lewis, William Gordon                      The Plains, Virginia
McDonald, Charlie C.                        Albuquerque
Pyle, Fred M.                               Albuquerque
Reed, William                               Albuquerque
Smith, Charles C.                           Albuquerque
Stortz, Frank A., Jr.                      Albuquerque

**SPECIAL AND UNCLASSIFIED STUDENTS**

Echols, Vance                                Portsmouth, Virginia
Harris, George H.                           Albuquerque
McKeever, Charles E.                        Albuquerque
Montgomery, Eugene                          Albuquerque
Mutz, John                                  Albuquerque
Slocum, Frank E.                            Albuquerque
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Shepard, Anna O. ___________________________ Glendale, California
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Sinninger, Harlan ___________________________________ Albuquerque
Smysor, Mrs. Mabel S. ___________________________ Albuquerque
Sterrett, Arabella ___________________________ Albuquerque
Sturgeon, Kate ___________________ Albuquerque
Swedenborg, Mrs. Clara L. ___________________________ Albuquerque

Taylor, Carl N. ___________________________ Albuquerque
Thomas, Barber-Nell ___________________________ Carlsbad
Tolle, Vernon O. ___________________________ Albuquerque

Warnshuis, Mrs. Ruth M. ___________________________ Albuquerque
Weil, Mrs. Ellen E. ___________________________ Albuquerque
Wentworth, Kenneth L. ___________________________ Albuquerque
Wollman, Benjamin B. ___________________________ Albuquerque

EXTENSION DIVISION
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Alexander, Louise ____________________ Reserve
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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 ___________________________ Lovingston
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
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Wiley, Thomas M. ........................................................... Albuquerque

NON-RESIDENT CLASSES

Allen, W. A. .................................................................... Santa Cruz
Baca, Santiago ................................................................ Socorro
Bandy, Bertha E. ............................................................. Los Lunas
Beyle, Leona E. ............................................................... Magdalena
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Bright, Philip S. ................................................................ Los Lunas
Chaves, Adolfo P. ............................................................ Lemitar
Chaves, E. M. .................................................................. Lemitar
Chavez, Luz .................................................................. Lemitar
Crespin, J. C. .................................................................. Socorro
Davis, Adele .................................................................. Los Lunas
Gallegos, Lenora ............................................................ Socorro
García, Boleslo ............................................................... Socorro
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Aragon, Mrs. Cleotide S. ................................ Albuquerque
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Bonnell, Orilla ........................................ San Patricio
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 Eveleth, Catherine .................................. Schenectady

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Fell, Dorothy .......................................... Albuquerque
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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
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Stover, Haldane ......................................... Albuquerque
Stroope, Irene ........................................... Albuquerque
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Stuppi, Florence ......................................... Phoenix, Arizona
Sturgeon, Kate ........................................... Albuquerque
Swayne, Florence E. ..................................... Albuquerque
Swenson, Vernice ........................................ Balaton, Minnesota

Tartaglia, Concetta .................................... Albuquerque
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Taylor, Carl N. .......................................... Albuquerque
Taylor, James W. ........................................ Portales
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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
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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
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Well, Mrs. Ellen E. ........................................ Albuquerque
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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

BATTLESHP 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
DIRECTORY OF STUDENTS

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
Tietgens, 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

First and Second Semesters, 1928-1929.

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Extension Division

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Summer Session, 1928

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Less Duplicates

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Total enrollment, first semester

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Total enrollment, second semester

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<th>Course</th>
<th>Men</th>
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Total for year

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Less duplicates (students enrolled both semesters)

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Total different persons registered

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### ENROLLMENT BY CLASSES

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<td>Freshmen</td>
<td>196</td>
<td>139</td>
<td>335</td>
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<tr>
<td>Sophomores</td>
<td>111</td>
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<td>Juniors</td>
<td>79</td>
<td>92</td>
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<td>Seniors</td>
<td>39</td>
<td>49</td>
<td>88</td>
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<td>27</td>
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<td><strong>Total</strong></td>
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<td>495</td>
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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)

<table>
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<tr>
<th>County</th>
<th>Students</th>
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<tr>
<td>Bernalillo</td>
<td>574</td>
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<tr>
<td>Catron</td>
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<tr>
<td>Chaves</td>
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<tr>
<td>Colfax</td>
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<tr>
<td>Curry</td>
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<tr>
<td>DeBaca</td>
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<tr>
<td>Dona Ana</td>
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<td>Eddy</td>
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<tr>
<td>Grant</td>
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<tr>
<td>Harding</td>
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<tr>
<td>Lea</td>
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<tr>
<td>Lincoln</td>
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<td>Luna</td>
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<td>McKinley</td>
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<td>Mora</td>
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<td>Quay</td>
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<td>Rio Arriba</td>
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<td>Roosevelt</td>
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<td>Sandoval</td>
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<td>San Juan</td>
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<td>San Miguel</td>
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<td>Santa Fe</td>
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<td>Sierra</td>
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<td>Taos</td>
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<td>Union</td>
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<td>Valencia</td>
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<tr>
<td>Total from New Mexico</td>
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Other States

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<td>Arizona</td>
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<td>Arkansas</td>
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<tr>
<td>California</td>
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<tr>
<td>Colorado</td>
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<tr>
<td>Georgia</td>
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<td>Illinois</td>
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<tr>
<td>Indiana</td>
<td>6</td>
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<tr>
<td>Iowa</td>
<td>5</td>
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<tr>
<td>Kansas</td>
<td>11</td>
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<tr>
<td>Kentucky</td>
<td>1</td>
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<tr>
<td>Louisiana</td>
<td>1</td>
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<tr>
<td>Michigan</td>
<td>2</td>
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<tr>
<td>Minnesota</td>
<td>1</td>
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<tr>
<td>Mississippi</td>
<td>1</td>
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<tr>
<td>New Jersey</td>
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<td>New York</td>
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<td>North Carolina</td>
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<tr>
<td>Ohio</td>
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<td>Oklahoma</td>
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<tr>
<td>Oregon</td>
<td>1</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>1</td>
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<tr>
<td>Tennessee</td>
<td>2</td>
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<tr>
<td>Texas</td>
<td>17</td>
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<tr>
<td>Virginia</td>
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<tr>
<td>West Virginia</td>
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<tr>
<td>Total from other states</td>
<td>114</td>
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</table>

Foreign Countries

<table>
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<tr>
<th>Country</th>
<th>Students</th>
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<tbody>
<tr>
<td>Korea</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>981</td>
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</table>
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
DEGREES 1928

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Major Studies</th>
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<tbody>
<tr>
<td>Thelma Mary Adams</td>
<td>Education, English</td>
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<tr>
<td>Geard Bert Armstrong, Jr.</td>
<td>History, Economics</td>
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<tr>
<td>Loraine Lafayette Black</td>
<td>Economics</td>
<td>History</td>
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<tr>
<td>Mildred Louise Bliss</td>
<td>English</td>
<td>History, Educ.</td>
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<tr>
<td>Raymond Allen Brodie</td>
<td>Economics</td>
<td>History</td>
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<tr>
<td>Richard Arnold Bruce</td>
<td>Education, History</td>
<td>English</td>
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<tr>
<td>Barney Tillman Burns</td>
<td>Economics</td>
<td>French</td>
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<tr>
<td>Arthur Leon Campa</td>
<td>Spanish</td>
<td>History, Psychology</td>
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<tr>
<td>Ted Franks, Clark</td>
<td>Economics</td>
<td>Education</td>
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<tr>
<td>Clyde Charles Cleveland</td>
<td>English</td>
<td>Spanish</td>
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<tr>
<td>James Bryson Corbett</td>
<td>Economics</td>
<td>Political Science</td>
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<tr>
<td>Maude Davis Crosno</td>
<td>English</td>
<td>Music</td>
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<tr>
<td>Janet Virginia Edwards</td>
<td>Mathematics</td>
<td>Education</td>
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<tr>
<td>Letitia Frances Eells</td>
<td>English, Latin</td>
<td>Spanish</td>
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<tr>
<td>Dorothy Margaret Eilers</td>
<td>Psychology</td>
<td>Education</td>
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<tr>
<td>Harrison Eilers</td>
<td>History</td>
<td>History</td>
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<tr>
<td>Katharine Owen Forgetson</td>
<td>English</td>
<td>Education, Geology</td>
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<tr>
<td>Katherine Elizabeth Gallagher</td>
<td>Education</td>
<td>Chemistry</td>
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Amalia Chavez Gonzalez _______Music
Ellen Goodart _____________Education, Math.
Samuel Shortle Goodwin ______History
Blanche Wurdack Harper ____Education, English
Amy Elizabeth Haymaker ____English
Howard Anderson Hext _______Spanish
Loreen Inez Hurley ________Music
Helen Gertrude Kay _________English

Albert Richard Kool __________Economics
Malcolm Lee Long ___________English
Germaine Pauline McCraney ___English
Virginia Estelle McManus ____English, Music
Ellen Herron Mapes __________English
Annie Fairchild Montoya ____History
Katherine Fairchild Montoya ___History
Auburn Hillery Muncy ________Economics
Max O'Brien _________________History
Alpha Odle _________________Economics
Leona Marie Raillard __________History

William Bryan Reardon _______Economics
Marcella Reidy ______________English, Spanish
Charles Francis Renfro _______Education
Nell Snyder Rhoades __________English
Robert McNicol Ruoff _________Economics
Susanna Arabella Sterrett ___English, Psychology
Barber-Nell Thomas __________Psychology

June Butler Willhite _________Education

BACHELOR OF SCIENCE

Forest Appleby ___________Chemistry
Moynelle Stevenson Blessum Mathematics, Physics
Maynard Lea Bowen _________Chemistry
Winifred Lucille Crile _______Home Economics
Charlotte Klyng ___________Home Economics

Education, History
English
History, Music
Education, English
Home Economics
Education, Psychology, Home Economics
History
Economics
Psychology
Music, Education Home Economics
Education, English
Spanish
Economics
Education
English, Education
DEGREES 1928

Louis Addison McRae, Jr. — Chemistry
Margaret Lola Spencer —— Home Economics
Mabel Minnie Weaver —— Mathematics

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

MASTER OF ARTS

Carolyne Victora Dorsey-McClure — Education
Gladys Neel ———— History
Frank Driver Reeve ———— History
John Edward Seyfried ———— Education
Elizabeth Strong Shamberger ———— History

HONORARY DEGREE

DOCTOR OF LAWS

Ray Lyman Wilbur, A. B., A. M., M. D., Sc. D., LL. D.

DEGREES CONFERRED JULY 28, 1928

BACHELOR OF ARTS

Louise Marion Hubbell ———— History
Libradita Marquez ———— Spanish
Irene Louise Spade ———— Home Economics

BACHELOR OF SCIENCE

Edward Grant McCann ———— Chemistry
Elizabeth Parkinson Simpson ———— Home Economics
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