

BULLETIN OF THE STATE
UNIVERSITY OF NEW MEXICO

NOTE TO PROSPECTIVE STUDENTS
1920-1921

(Whole Number 100)

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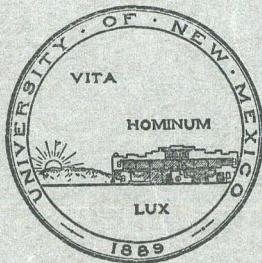
BULLETIN OF THE UNIVERSITY OF NEW MEXICO

CATALOGUE SERIES NO. 34. NO. 1

WHOLE NO. 102

THE STATE UNIVERSITY OF NEW MEXICO

THIRTIETH ANNUAL CATALOGUE
1920-1921



ANNOUNCEMENTS
1921-1922

ALBUQUERQUE
PUBLISHED BY THE UNIVERSITY
MARCH, 1921

PUBLICATIONS OF THE UNIVERSITY OF NEW MEXICO.

All the University publications are issued as Bulletins. These are arranged in a continuous series, numbered consecutively. The Bulletins are classified according to subject matter and each class is given a separate title and carries its own volume number. These classes issued to date are as follows:

CATALOGUE SERIES, VOLS. I-XXXIII; whole number 1-14,
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79, 80, 81, 82, 85, 86, 87, 90, 91, 92, 94, 96, 97, 98, 99, 100.

BIOLOGICAL SERIES, VOLS. I-III; whole numbers, 15, 16,
19, 22, 29-39, 44, 47, 49, 65, 95.

CHEMISTRY SERIES, VOL. 1; No. 1-2; whole numbers, 71, 75.

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PHYSICS SERIES, VOL. I; No. 1; whole number, 63.

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57, 62, 66.

EACH ONE BRING ONE,--A GOOD ONE.

This being our slogan for the summer, the enrollment next year will be doubled. Before you leave for the vacation, do not fail to report to the office the names and addresses of all prospective students in your community, with such facts as you can give.

Reports at any time during the summer will be appreciated, and prompt attention given to all inquiries.

Reservations for the residential halls have already begun. If YOU want to be assured of quarters, it would be wise to reserve at once. The deposit is five dollars.

And all remember

EACH ONE BRING ONE,--A GOOD ONE!

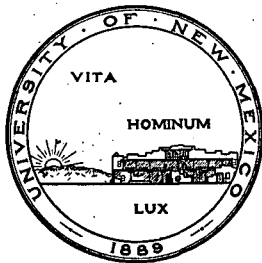
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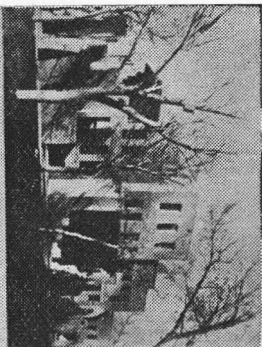
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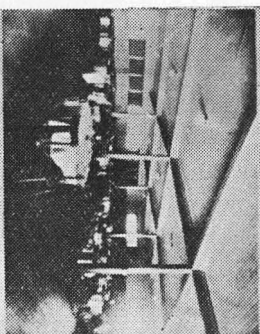


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1921-1922

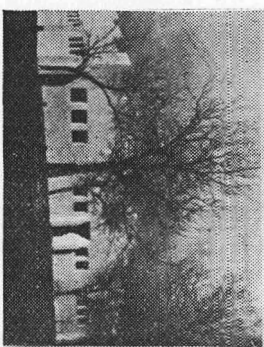
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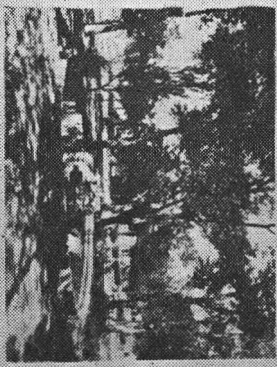
DINING HALL



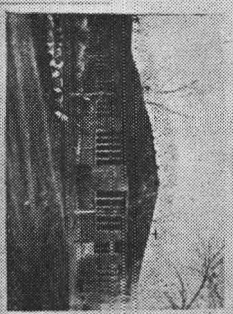
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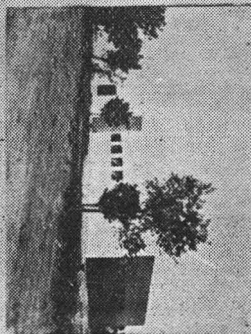
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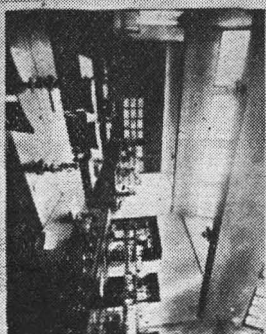
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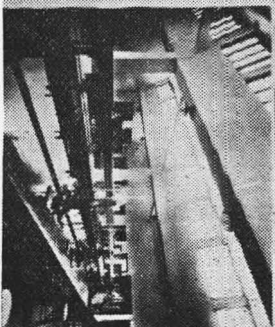
SCIENCE HALL



CHEMISTRY BUILDING



BIOLOGICAL LABORATORY



CHEMICAL LABORATORY

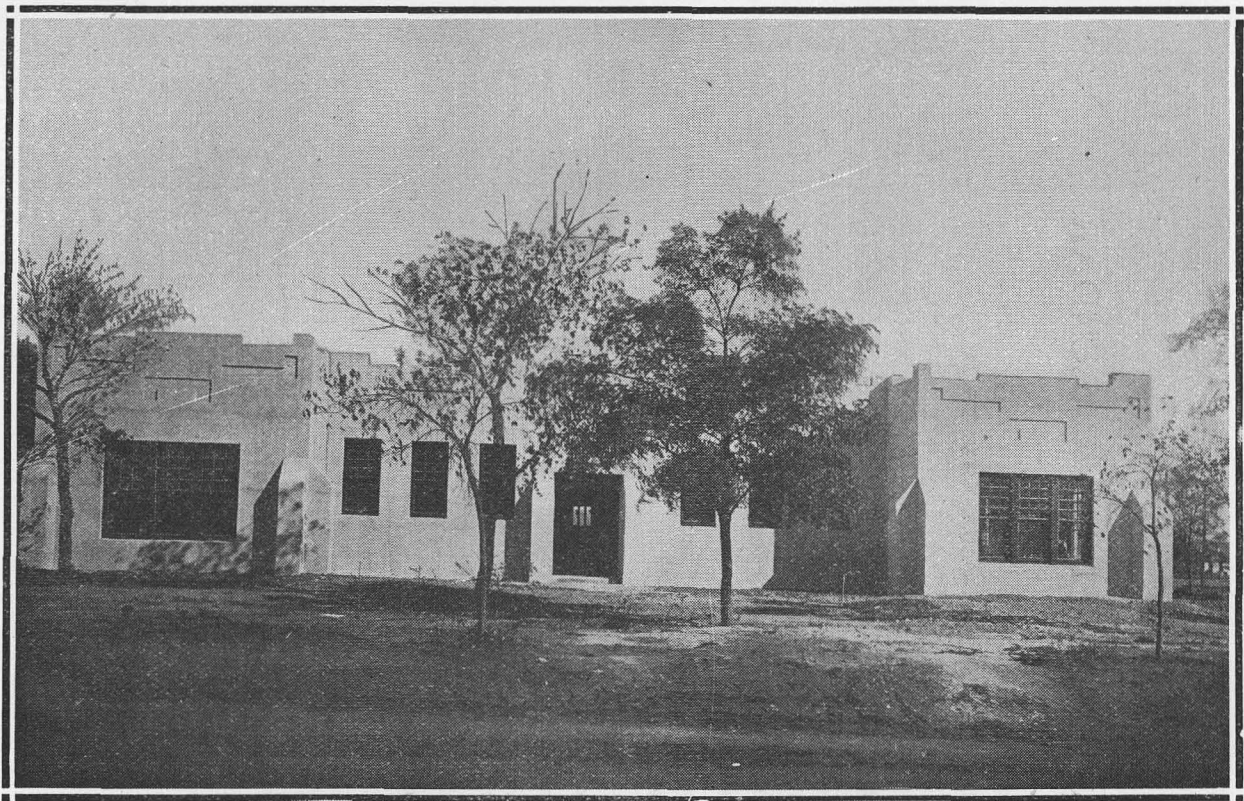
VIEWS of
State University of New Mexico

ALBUQUERQUE

CONTENTS

UNIVERSITY CALENDAR	8
ORGANIZATION AND ADMINISTRATION	9
BOARD OF REGENTS	9
ADMINISTRATIVE OFFICERS	9
FACULTY AND OTHER OFFICERS OF INSTRUCTION	10
Committees of the Faculty, 1920-1921	13
HISTORY	14
SITUATION AND ENVIRONMENT	19
AIM, SUPPORT, AND GOVERNMENT	21
BUILDINGS	23
LIBRARY	25
ADMISSION	26
Methods of Admission	26
Admission to the Colleges	27
Courses accepted for Admission	29
Admission from other colleges and Universities	40
Admission of Adult, Special Students	41
Admission to the Graduate School	41
GENERAL ACADEMIC REGULATIONS	42
Registration	42
Credit Hours	43
Regulations on Attendance	43
Grading and Examinations	45
Uniform Graduation Requirements	46
FEES, EXPENSES, AND EMPLOYMENT	49
SCHOLARSHIPS AND HONORS	52
STUDENT ORGANIZATIONS	53
COLLEGE OF ARTS AND SCIENCES	54
Requirements, Degree	55
Professional High School Teachers' Certificate	57
Curriculum Preparatory to Law	58
Curriculum Preparatory to Medicine	59

COLLEGE OF ENGINEERING	61
Graduation Requirements	62
Curriculum in Chemical Engineering	62
Curriculum in Civil Engineering	64
Curriculum in Electrical Engineering	66
Curriculum in Geological Engineering	68
GRADUATE SCHOOL	71
DEPARTMENT OF HYGIENE	75
EXTENSION DIVISION	78
COURSES IN THE DEPARTMENTS OF INSTRUCTION	81
Biology	81
Chemistry	83
<u>Civil Engineering</u>	85
Economics and Business Administration	87
Education	88
Electrical Engineering	90
English	91
Geology	93
Greek and Latin	94
History and Political Science	95
Home Economics	96
Library Science	98
Mathematics	98
Music	99
Philosophy and Psychology	101
Physics	102
Practical Mechanics	103
Romance Languages and Literatures	104
DIRECTORY OF STUDENTS, 1920	107
SUMMARIES	118
GRADUATES, 1920	123
CANDIDATES FOR DEGREES, 1921	124



SARA RAYNOLDS HALL FOR HOME ECONOMICS AT THE STATE UNIVERSITY, 1921

Erected by means of gifts of citizens and friends of Albuquerque and dedicated to the women and children of the whole State of New Mexico.

UNIVERSITY CALENDAR.

ACADEMIC YEAR

1921-1922

First Semester.

September 14, Wednesday—Registration Day for students resident in Albuquerque and vicinity.

September 15, Thursday—Registration Day for all other students.

September 16, Friday—Instruction begins in all departments.

October 22, Saturday—Examinations for removal of conditions.

November 11, Friday—Armistice Day, holiday.

November 24, Thursday—Thanksgiving Day, holiday.

December 22, Thursday—Holiday recess begins at 5 p. m.

January 2, Monday—Instruction is resumed in all departments at 8 a. m.

January 24-27, Tuesday-Friday—Semester Examinations. Semester ends Friday, January 27, 5 p. m.

Second Semester.

January 30, Monday—Registration Day for all students.

January 31, Tuesday—Instruction begins in all departments.

February 22, Wednesday—Washington's Birthday, holiday.

March 11, Saturday—Examinations for removal of conditions.

May 30, Tuesday—Memorial Day, holiday.

June 1, 2, 3, 5, 6, Thursday-Tuesday—Semester Examinations. Semester ends June 6, 5 p. m.

June 7, Wednesday, 10 a. m.—Commencement Exercises.

ORGANIZATION and ADMINISTRATION

ORGANIZATION.

During the academic year, 1919-1920, the State University was reorganized as follows:

THE COLLEGE OF ARTS AND SCIENCES.

THE COLLEGE OF ENGINEERING.

THE GRADUATE SCHOOL.

THE EXTENSION DIVISION.

THE DEPARTMENT OF HYGIENE, including the STATE HEALTH LABORATORY.

THE BOARD OF REGENTS OF THE STATE UNIVERSITY.

HIS EXCELLENCY, THE GOVERNOR OF NEW MEXICO, Ex-Officio
THE STATE SUPERINTENDENT OF PUBLIC INSTRUCTION, Ex-Officio.

NATHAN JAFFA, President.....Roswell
JOHN A. REIDY, Secretary-Treasurer.....Albuquerque
ANTONIO A. SEDILLO.....Albuquerque
MRS. RUPERT F. ASPLUND.....Santa Fe
THOMAS F. KELEHER, Jr.....Albuquerque

ADMINISTRATIVE OFFICERS OF THE STATE UNIVERSITY, 1920-21.

President: DAVID SPENCE HILL, Ph. D., LL. D.

Vice-President: CHARLES ELKANAH HODGIN, B. Pd.

Dean of College of Arts and Sciences: LYNN BOAL MITCHELL, Ph. D.

Dean of Graduate School: JOHN DUSTIN CLARK, Ph. D.

Acting Dean of College of Engineering: THOMAS T. EYRE, B. S. in
M. E.

Financial Secretary: JOSEPHINE S. PARSONS, B. A.

Registrar and Executive Assistant: RAY HAWKINS KIRK, B. A.

General Supervisor of Women: EDNA MOSHER, Ph. D.

Librarian: WILMA LOY SHELTON, B. A., B. L. S.

Acting Proctor of Men's Residential Hall: ROY WILLIAM JOHNSON,
B. S.

Acting Proctor of Women's Residential Hall: MINNIE VELNA WITT-
MEYER (Sargent.)

Campus Superintendent: HARRY FRANK.

**ALPHABETICAL LIST OF OFFICERS OF
INSTRUCTION, 1920-1921.**

- HILL, DAVID SPENCE, B. A., (Randolph-Macon); Ph. D., (Clark University); LL. D., (State University of Kentucky); LL. D., (State University of Arizona), President.
- BARNHART, CHARLES ANTHONY, B. A., M. A., (University of Illinois), Professor of Mathematics.
- CAREY, CHARLES EDWARD, B. S., E. E., (University of Oklahoma), Assistant Professor of Electrical Engineering.
- CLARK, JOHN DUSTIN, B. S., M. S., (New Hampshire College of Agriculture and Mechanic Arts); Ph. D., (Leland Stanford Junior University), Dean of the Graduate School and Professor of Chemistry.
- COAN, CHARLES FLORUS, B. A., (University of Washington); M. L., Ph. D., (University of California), Associate Professor of History and Political Science.
- DOUGHERTY, HARRY L., B. S., in S. E., (Pennsylvania State College) Assistant Professor of Civil Engineering.
- ELLIS, ROBERT WALPOLE, B. S., (University of South Dakota); M. A., (University of Wisconsin), Professor of Geology.
- EYRE, THOMAS TAYLOR, B. S., in M. E., (Purdue University), Acting Dean of the College of Engineering and Professor of Practical Mechanics.
- FEASEL, FRED, B. S., (Ohio State University); M. A., (University of Chicago), Assistant Professor of Economics and Business Administration.
- GREENFIELD, MYTLE, B. A., M. A., (University of Kansas), Bacteriologist in State Public Health Laboratory and Assistant Professor of Bacteriology.
- HESSLER, LEWIS BURTRON, B. A., M. A., Ph. D., (University of Pennsylvania), Professor of English and Chairman of the Department.
- HICKEY, ETHEL, B. A., (University of Kansas), Professor of English.
- HODGIN, CHARLES ELKANAH, B. Pd., (University of New Mexico), Vice-President and Professor of Education.
- IBARRA Y ROJAS, HANNIBAL, B. de CC. LL., (Barcelona); LL. B., J. D., (Chicago Law School), Assistant Professor of Romance Languages.
- JOHNSON, ROY WILLIAM, B. S., (University of Michigan); Certificat, Université de Poitiers, Assistant Professor of Physical Education of Men.
- LANDERS, JOSEPH SAMUEL, B. A., M. A., (University of Colorado), Professor of Philosophy and Psychology.
- LUKKEN, JOHN, B. S., (Fremont College); B. M., (American Conservatory, of Chicago), Associate Professor of Music.

MITCHELL, LYNN BOAL, B. A., (Ohio State University); M. A., Ph. D., (Cornell University); Dean of College of Arts and Sciences and Professor of Greek and Latin.

MOSHER, EDNA, B. S., (Cornell University); Ph. D., (University of Illinois), Acting Professor of Biology and Supervisor of Women.

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

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

SIMPSON, MRS. WALTER, (Michigan Agricultural College), Professor of Home Economics and Supervisor of Dining Hall.

WEESE, ASA ORRIN, B. A., (University of Minnesota); M. A., (University of Illinois), Professor of Biology and Acting Director of Department of Hygiene.

WITTMAYER, MINNIE VELNA, (Sargent School), in charge of Physical Education of Women and Supervisor of Women's Residential Hall.

Instructors and Assistants

COLLINS, WILLIAM, Laboratory Assistant in Biology.

DIXON, WENONAH, Assistant in Chemistry.

FAW, JENNIE STEVENS, Instructor in Piano.

HART, MAYME BURNETTE, First Assistant Librarian.

LIGHTON, EDWARD WILLIAM, Laboratory Assistant in Chemistry.

NICHOLS, LOUISE, Instructor in Piano.

OGG, FRANK CHAPPELL, Assistant in Mathematics.

ROSENBACH, SAMUEL, Assistant in Physics and Electrical Engineering.

ROY, EDNA, B. S., (University of New Mexico), Instructor in Home Economics.

SHORT, FLETCHER, L., Assistant in Civil Engineering.

STAFF OF DEPARTMENT OF HYGIENE AND STATE HEALTH LABORATORY.

WEESE, ASA ORRIN, B. A., (University of Minnesota); M. A., (University of Illinois), Acting Director of Department of Hygiene.

WALLER, C. E., M. D., State Commissioner of Health, Consultant.

ELLER, CHARLES ASBURY, D. D. S., (Indianapolis University), Dental Advisor.

FRISBIE, EVELYN, M. D., Medical Advisor of Women.

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

CORNISH, P. GILLETTE, B. A., (Yale); M. D., (Columbia), Medical Advisor of Men.

JOHNSON, ROY WILLIAM, B. S., (University of Michigan); (Certificat, Université de Poitiers), Assistant Professor of Physical Education for Men and Proctor of Men's Residential Hall.

CHESS, FLORA ELLA, B. A., (University of New Mexico), Technician in State Public Health Laboratory.

OTHER OFFICERS.

DEARING, CATHERINE, Secretary to the President.

KELEHER, KATHERINE, B. A., (University of New Mexico), Assistant Registrar.

SHARP, JONATHAN, Meteorological Observer.

ADVISORY COUNCIL AND STANDING COMMITTEES OF THE UNIVERSITY. 1920-1921

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

THE ADVISORY COUNCIL: President Hill, Vice-President Hodgkin, Deans Mitchell, Clark, Acting Dean Eyre, Supervisor of Women Mosher, Registrar and Executive Assistant Kirk.

ADMISSION AND STUDENT STANDING: Dean Mitchell, Acting Dean Eyre, Professors Hessler, Landers, Registrar Kirk.

SCHEDULE AND CURRICULUM: Professor Barnhart, Dean Mitchell, Professors Coan, Dougherty, Simpson.

STUDENT AFFAIRS: Dean Clark, Professors Ellis, Hickey, Johnson, Mosher, Mrs. Wittmeyer.

AUDIT OF STUDENT ACCOUNTS: Professors Feasel, Carey, Financial Secretary Parsons, Registrar Kirk.

ELIGIBILITY: Professors Weese, Barnhart, Ellis, Johnson.

LIBRARY: Librarian Shelton, Professors Coan, Rockwood.

ATHLETIC COUNCIL (Faculty Representatives): Professor Weese, Dean Clark, Acting Dean Eyre.

LITERARY CONTESTS: Professor Hessler, Vice-President Hodgkin, Professor Landers, Mrs. Wittmeyer.

HISTORY.

New Mexico was acquired from Mexico by the treaty of Guadalupe Hidalgo, February 2, 1848, and held under military control until the first territorial legislature was assembled in 1850. During the early years of territorial existence conditions were unfavorable for educational development and little was accomplished in the scattering efforts to establish schools of any kind. The centers of population were small and far apart, in the sparsely settled territory of that day. Unfriendly Indians were a source of considerable annoyance to the citizens. The passing between New Mexico and the States was infrequent, mail coming at long intervals. The expense of getting teachers was great, and there was a disposition on the part of many citizens to oppose public education. In the face of this discouraging situation successive legislatures sent memorials to the Federal Congress, making strong appeals for direct government aid in establishing some kind of educational facilities in New Mexico. Congress early made land appropriations (which brought in no funds) and turned a deaf ear to every appeal, not making provision even for teaching English to the Spanish-speaking people gathered under the American flag.

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 introduced by the Honorable Bernard S. Rodey 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. Ramsay was in direct charge of the institution for two years, followed by Professor Hiram Hadley, Vice-President in charge from 1894 to 1897. During this administration, the period of organization, there were many difficulties to encounter. Education throughout the territory was at an exceedingly low ebb, the law creating the University having preceded the general school law which made possible the establishment of high schools in the towns. And while the territorial institution bore the name of University, it was in reality a preparatory school. Throughout this administration there was but one building on the campus for educational purposes, and legislative appropriations for maintenance were very meagre. In addition to the normal and preparatory curricula, a commercial school was instituted in 1893.

The Board of Regents in the summer of 1897 elected Dr. C. L. Herrick, of Denison College in Ohio, as active president to take full charge of the University. President Herrick was a man of scholarly attainments in science and philosophy, and though in ill health he put into the science work new life which gave it an interest and impetus that meant continued growth. The great need for a science building, and the failure of the Legislature to provide for this need, prompted an effort on the part of President Herrick to solicit funds for a new building from friends of the institution. Mrs. W. C. Hadley made a gift of \$10,000 for a science hall,

other smaller donations from New Mexico citizens were added to this amount, and in 1899 an excellent three story building was erected, and named the Hadley Laboratory. About the same time a small gymnasium was built on the campus and physical training was made a part of the curriculum. President Herrick materially strengthened the teaching force of the University, and gathered about him a number of scientific students from the East and from New Mexico, giving to the small institution something of a college atmosphere.

In 1901 W. R. William G. Tight, a geologist, also from Denison College, was elected as successor to President Herrick, and served until 1909. Upon entering the work of the University and learning its needs, Dr. Tight found it necessary to sacrifice much of his professional scientific work to the duties of his executive office, into which he threw the vigor of his physical and mental energy for the larger interests of the institution. He conceived large plans for a greater University for New Mexico. The grounds were laid out with a thought of permanency, and hundreds of trees were placed in orderly arrangement as a start for a beautiful campus. A deep well was dug, a large windmill for motive power constructed, and an irrigating reservoir built, in an effort to furnish the abundance of water needed, on an economical basis. After studying and photographing various buildings in Indian villages throughout New Mexico, President Tight formulated plans for a distinctive type of University architecture, choosing a native style. A power house was first constructed on the new plan, and then dormitories—one for women, named Hokona, the Indian significance being virgin butterfly, and one for men, called Kwataka, or man-eaglet. The Administration Building, a large three-story structure and the first building on the campus, was remodeled on the lines of the adapted Pueblo plan, and an assembly room added and designated Rodey Hall, in recognition of the services rendered the University by the Honorable B. S. Rodey in the Territorial Legislature and the Federal Congress. The administration of Dr. Tight was marked also by advance in the college departments as well as in athletic activities. While special emphasis was placed upon the science work, other courses were not neglected. A school of music and expression was organized, and housed in the upper rooms of the Albuquerque Public Library building. A beginning was also made in putting the University into closer touch with the few high schools then in existence throughout the territory.

In 1909 Dr. E. D. McQueen Gray was chosen to succeed President Tight, and served until 1912. Dr. Gray, although a resident of the United States and of New Mexico for a number of years, had been educated in English universities and had spent time traveling in European countries. His scholarly attainments lay in the classics, modern languages, and history. He was of assistance to Rhodes scholarship candidates, for he had spent a number of years preparing men for Oxford University. He held also to English tradition in many features of university administration. With the beginning of the academic year 1909-1910 President Gray introduced a number of changes. 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 this construction a deviation from the Pueblo type of architecture was introduced.

In 1912, President Gray was succeeded by Dr. David Ross Boyd, who brought to the position experience in educational work and university administration, having been for a number of years president of the University of Oklahoma, from its struggling days to its successful establishment as a thriving state institution. Upon election President Boyd began a study of the general educational situation in New Mexico and the needs of the University. One of the first things to demand attention was the securing of a larger campus for immediate and future needs, while land could be purchased at a reasonable price. By persistent effort, the Campus was extended from twenty-five acres, when President Boyd assumed office, to a tract of over three hundred acres. With a view to unity in the development of plans for the greater university, the administration secured the services of a landscape architect and expert in city planning. His plans, now in the hands of the Regents, contemplate a permanent arrangement and beautification of the grounds, and an attractive grouping of new buildings. The rapidly growing Department of Chemistry called for the first building under the new plans. It is a plain, substantial structure, covering a ground space of 165 by 50 feet, with the interior marked by modern arrangement, and latest equipment for laboratory work. The well was deepened and the capacity of the irrigation system sufficiently increased to supply the needs of the University grounds for many years to come. The entire frontage of the campus was levelled and terraced, and planted, with grass, trees and shrubbery.

With President Boyd's administration also came changes in the university curriculum. A beginning was made in university extension and correspondence study. The Department of Home Economics was introduced with electrical equipment. A chair of philosophy and psychology was added to the College of Arts and Sciences. Courses in Latin-American and Spanish history were provided and emphasis was placed upon the teaching of the Spanish language. In addition, curricula in music were organized.

Several important changes were wrought 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. This temporary change was brought about in the first instance by the necessity of accommodating the calendar of the University to the large proportion of men students who wished to take part in the movement for increased and intensified agricultural production during the spring and summer months of the year. 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 alumni 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. After the signing of the Armistice, however, the Students' Army Training Corps was demobilized at the close of the autumn session in December, and the University in the early months of 1919 returned to normal status as rapidly as permitted by after-war conditions in a thinly populated State which contributed liberally in men and resources to the national effort.

Upon the resignation of President Boyd, the Regents, during July, 1919, appointed as his successor Dr. David Spence Hill, who came from the position of Professor of Education at the University of Illinois. President Hill immediately entered upon his duties with characteristic energy, setting himself at the outset, and with greater success than had been attained at any previous time in the history of the institution, to win for the State University a high degree of community interest and cooperation. The new Engineering Building, which houses the Departments of Civil Engineering and Mathematics, and the extensive Metal Working and Wood Working Shops, as well as the Drawing Rooms, was completed in January, 1920. In the preceding month, President Hill launched, with the help of the Chamber of Commerce of Albuquerque, a successful campaign to raise by popular subscription, a minimum of \$12,000 toward the initial expense of constructing and equipping a building unit for the Department of Home Economics. Friends and citizens of Albuquerque paid some \$16,000 toward this enterprise. The new building (Sara Raynolds Hall) now stands completed and equipped.

During that academic year the University became the seat in this State of the Department of Hygiene, for which the Federal government through the Interdepartmental Social Hygiene Board bears a part of the charge of maintenance. This Department provides free physical examinations, instruction in hygiene, physical training for all students, and preserves all of its records for statistical purposes. In December, 1919, a State Health Laboratory was instituted at the University, through the cooperation of the New Mexico Department of Health, to provide free service to poor citizens and to physicians and health officials in the examination of specimens submitted to it in the interest of the public health. Its vital work has grown rapidly.

President Hill and the Board of Regents effected a partial reorganization in the administration of the University. In addition to the Vice-President and the Dean of the College of Arts and Sciences, a Dean of the Graduate School and an Acting Dean of the College of Engineering were also appointed, all of whom, however, are teaching professors. To the work of the Registrar was added the duty of an Executive Assistant with functional activities appropriate to this twofold office. A General Supervisor of Women has also been added. These officers make up an Advisory Council to assist the President on important matters of administrative policy. During the first year of the new administration the finances of the institution were improved, an adequate requisition, purchase order, and internal budget system was enforced, the salaries of all members of the Faculty increased and many vacancies were filled.

Further, the Board of Regents formally adopted as a general policy the principle, that the President of the University shall be employed as an active executive manager working under the direction of the Board, and, at the same time, as colleague and captain of the Faculty.

The vigorous and intelligent policy of the Board of Regents during two years enabled the President to include in his report to the Governor the following statements on December 15, 1920.

The State University of New Mexico has been reorganized, improved and has been conducted upon a sound financial and academic basis.

For example:

(1) The Faculty has been improved by the appointment of men and women bearing credentials of graduate training from such universities as Michigan, Pennsylvania, California, Chicago, Illinois, Cornell.

(2) The State University now admits no preparatory students. Its admission requirements are fifteen high school units. The waste in duplication of high school work and the false impressions in the public mind regarding enrollment that may result from preparatory work in a university have thus been removed.

(3) Codes of student conduct have been adopted, and the morale of the institution is now excellent.

(4) Although funds for salaries and for improvements are inadequate, nevertheless, the State University begins the new fiscal year without debt.

(5) Two new buildings have been completed and paid for.

(6) The progress of Students and Faculty during the past year, and the record of efficient achievements during recent months, merit the attention and support of the Legislature. The State University is an increasingly good educational investment.

SITUATION AND ENVIRONMENT.

Albuquerque, the most populous city in New Mexico, and the commercial capital of the State, is the seat of the State University. The situation of the City is in every respect admirable. It occupies the center of a strip of highly fertile land on the left bank of the Rio Grande—the Rio Grande del Norte of the Spanish discoverers—at an elevation of five thousand feet above the level of the sea. On the Mesa, or elevated plateau, about a mile east of the City, stand the fourteen buildings of the University, overlooking the wide valley of the Rio Grande. The pure air of the Mesa, bracing and invigorating, surrounds the spot, and lassitude and depression are almost unknown in this atmosphere. Extremes of temperature, whether of 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, street railway, two daily newspapers, and important mercantile and manufacturing establishments.

Albuquerque is also an educational center, possessing in addition to the State University many schools of various kinds; while the public school system of the City compares favorably with the systems of much larger eastern towns. All the leading religious denominations are efficiently 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 strictly non-sectarian, but the students are encouraged to attach themselves to the religious organizations with which their families are connected.

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 effort; and lectures and addresses, concerts and plays, musical and literary gatherings occur throughout the year.

AIM, SUPPORT, AND GOVERNMENT.

The State University of New Mexico is the culmination of the educational system of the State. The State University is closely connected with high schools in the same way as the high schools are related to the grade schools. Just as it is not expected that all who complete the grammar grades will advance to and through the high school, it is likewise not expected that all who complete the high school course will go forward to and through the State University. The relation between the State University and high schools is such that the graduates from the latter may enter the University on a certificate plan in much the same way as graduates of the grammar school may pass to the first year of the high school, as easily and naturally as possible.

The State University encourages scholarship and learning and the application of scientific knowledge to the arts of life. 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 University is supported by the income from the proceeds of the sale of lands granted to it by the Federal Government on New Mexico's becoming a state, together with the income from leases and other uses of lands. Its chief support, however, is that of appropriations made for its maintenance by the State Legislature. Beginnings have been made in the way of donations by interested friends of the University. The beginning of a rotating loan fund for the benefit of worthy and needy students has been made. The chief contributors to this beginning were the Honorable Felix Martinez and the Honorable George A. Kaseman. A gift of \$500 has been made by Mrs. William Jennings Bryan, and is known as the Philo Sherman Bennett Fund, the income of which, after a certain amount has been realized, is to be used to assist needy students. Numerous valuable donations have been made of collections of scientific interest and of valuable books for the Library.

During the years 1919-1921, President Hill, with the assist-

ance of the Albuquerque Chamber of Commerce, solicited and secured cash subscriptions to the amount of \$16,000 toward the erection and equipment of a Home Economics Building. Again Mr. George A. Kaseman manifested his interest in the institution by starting the movement with the first cash gift of \$2,000. and Mr. Joshua Raynolds completed the list by subscribing \$5,000. Scores of other subscriptions were received and practically the whole amount desired was paid in cash—a united effort significant of the faith of citizens in the State University.

During 1921 Mr. C. T. French established the first honor prize for scholarship by a gift of \$500 in Liberty Bonds.

The government of the University is vested in a Board of Regents who possess the powers to accomplish the objects of the University's establishment and to perform the various duties prescribed by law. Five regents are appointed by the Governor of the State; the Governor and Superintendent of Public Instruction are ex-officio members of the Board. The Regents have delegated to the President of the University the power of naming all officers, instructors, and employees of the institution. These appointments and all faculty rules regarding the government of the students are subject to their approval. The University Faculty exercises authority, subject to the approval of the President and the Board of Regents, in educational policy, scholastic standards, and general matters relating to the University.

BUILDINGS.

At the southwest corner of the campus is the **ADMINISTRATION BUILDING**. This, the oldest building on the campus, has been remodeled to conform with the adapted Pueblo style of architecture in which the newer buildings have been constructed. The ground floor contains a rest room for women students, and a part of the stacks of the Library. The first floor houses the administration offices, and the reading and checking rooms and the remainder of the stacks of the Library. The two upper floors are given up to classrooms and departmental offices.

On the roof are the instruments of the local station of the U. S. Weather Bureau, maintained through the co-operation of the Albuquerque Chamber of Commerce and the State University.

Directly north stands **RODEY HALL**, an exact replica of the centuries-old Pueblo church at Taos, New Mexico. It has a seating capacity of five hundred, and is used for all assemblies and public lectures.

Further to the north and west is the **POWER HOUSE**, the heating plant which supplies all the buildings on the campus. It also is constructed in the adapted Pueblo style.

North and east of the Power House is the **NEW ENGINEERING BUILDING**, known as the **PRACTICAL MECHANICS BUILDING**, containing over eleven thousand square feet of floor space. The building contains shops, stock rooms, drawing rooms, class rooms, and offices.

To the east is the **UNIVERSITY COMMONS**, a wooden frame building which contains a dining room with seating capacity of one hundred seventy-five, and kitchen, scullery, and servants' quarters.

Just east of this building is **ENGINEERING HALL**, a one-story cement structure having laboratories, classrooms, a lecture room, and departmental offices for Electrical Engineering, Geology and Physics.

The **CHEMISTRY BUILDING**, north of **ENGINEERING HALL**, is of the adapted Pueblo style of architecture with an open patio in the center. It has laboratories, lecture rooms, and classrooms, as well as stockrooms and departmental offices for Chemistry, Animal Biology, Botany, and Hygiene.

Facing these buildings on the east stand the MEN'S and the WOMEN'S RESIDENTIAL HALLS, both good examples of the adapted Pueblo architecture. They are divided into suites of rooms, each consisting of a study and two bedrooms and intended for two or three students.

Southeast is the WOMEN'S GYMNASIUM, and further to the south are the MEN'S GYMNASIUM and the SWIMMING POOL. Considerably to the east of the main campus are the athletic field and the UNIVERSITY FIELDHOUSE for the use of the athletic teams. These three buildings are frame structures, but are well provided with showers, lockers, dressing rooms, apparatus, and floor space for training classes and indoor athletic sports. The MEN'S GYMNASIUM contains the examination room and departmental office for Physical Education.

THE SARA RAYNOLDS HALL, to be used exclusively by the Home Economics Department, was erected through the philanthropy of citizens and friends of Albuquerque, and was named in honor of the mother of Mr. Joshua Raynolds, who generously donated five thousand dollars for the purpose of providing equipment for the same. This building stands between the Men's Gymnasium and Central Avenue and is a unit of a still larger structure planned for the future.

In addition there are the UNIVERSITY HOSPITAL, the VARSITY SHOP, a student store, and several smaller buildings.

THE LIBRARY.

The University Library is housed in the Administration building and contains 39,068 bound volumes and 11,085 pamphlets, bulletins and publications of many learned societies. Current and bound periodicals, the leading newspapers of New Mexico and certain other newspapers are on file. The Library is depository for publications of the United States Government.

Two special collections are included as a part of the Library. The New Mexico collection, including printed material on the history of the state, at present contains 300 volumes. The College Publication Collection, comprising the catalogs and announcements of other educational institutions, numbers 6,000 volumes.

The resources of the Library are also made available to the people of the State through extension work. Loans of books are made to individuals on proper conditions and payment of postage, and traveling libraries are sent for periods of four months each to communities having no library facilities. Reference work is also cheerfully done by correspondence.

The Library is open every day except Saturday and Sunday from 8 a. m. to 5 p. m.; on Saturday from 8 a. m. to 12 m.

ADMISSION TO THE UNIVERSITY.

METHODS OF ADMISSION.

Students are admitted either upon examination at the University or upon presentation at the University of certificates from accredited schools, except that adult special students are admitted in accordance with the provisions stated under the Admission of Adult Special Students.

All secondary schools in New Mexico accredited by the State Department of Education and all other secondary schools in other States accredited by their State Universities are *ipso facto* accredited by the State University of New Mexico. Other applicants, except Adult Special Students, are subject to entrance examinations.

The following high schools in New Mexico were accredited by the State Department of Education and by the State University of New Mexico on March 7, 1921.

Albuquerque: Bernalillo County High School
Alamogordo: Otero County High School
Artesia
Aztec
Belen
Carlsbad
Carrizozo
Clayton
Clovis
Deming: Luna County High School
Des Moines
Dexter
East Las Vegas: High School and Normal University Preparatory School
Farmington
Ft. Sumner
Gallup: McKinley County High School and Sacred Heart High School.
Las Cruces
Lordsburg
Lovington
Portales
Raton: Colfax County High School
Roswell: High School and New Mexico Military Institute
Santa Fe
Santa Rosa
Silver City: New Mexico Normal School, Preparatory Division.
Socorro
Springer

State College: Agricultural College, Preparatory Division.
Tucumcari
Tularosa.

Fifteen units of acceptable subjects earned in accredited high schools admit the holders thereof to the Freshman class whenever the course of study pursued meets the entrance requirements of the College in which the student desires to matriculate.

ADMISSION TO THE COLLEGES.

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. A laboratory or other practice period should extend over at least two consecutive recitation periods and is considered the equivalent of one recitation.

UNIFORM REQUIREMENTS OF ADMISSION.

Fifteen units of subjects acceptable towards entrance are invariably required for admission to either undergraduate college, and must include **List A**, as follows:

English.....	3 units
Algebra.....	1 unit
Plane Geometry.....	1 unit
Total.....	5 units

FOR ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES.

List A (see above).....	5 units
Foreign language, in one language.....	2 units
History, including Civics.....	1 unit
Laboratory Science.....	1 unit
Total prescribed.....	9 units
From List B (see below).....	2-6 units
From List C (see below).....	0-4 units
Total.....	15 units

(**Note.**—A high school science, in order to be accepted as a laboratory science, must be truly scientific in its nature, and represent some real laboratory work. This work involves the development of abilities to observe carefully and correctly the phenomena of science and to state clearly the deductions drawn therefrom.)

CONDITIONED ENTRANCE.

Students, who offer for admission to the College of Arts and Sciences a total of fifteen units in subjects acceptable for entrance but who lack as much as two units of the prescribed subjects (except List A), are admitted as conditioned Freshmen.

This condition may be removed by the end of the first year of residence by taking extra courses in the subjects in which they are deficient at the ratio of one three-hour course for each unit of deficiency. Courses thus required to cancel entrance deficiencies can not be counted toward fulfilling group requirements for graduation, but are counted as electives towards a degree.

FOR ADMISSION TO THE COLLEGE OF ENGINEERING

List A (see above).....	5 units
Other acceptable subjects.....	10 units
Total.....	15 units

While ten of the fifteen units required for entrance may be offered in subjects acceptable for entrance, subject to certain limitations (see below), the following subjects are recommended (but not prescribed) for students who expect to matriculate in the College of Engineering:

Solid Geometry.....	$\frac{1}{2}$ unit
Intermediate Algebra.....	$\frac{1}{2}$ unit
Foreign language, one language.....	2 units
English, fourth year.....	1 unit
Physics.....	1 unit
History, including Civics.....	1 unit

List B.

Limitations.—Not more than four units will be accepted from any one group in List B except in the case of foreign languages, including the amounts of that group prescribed and elective.

1. English Grammar and Composition, English and American

Literature.....	3 units
Additional Composition, English or American Literature..	1 unit

(Note.—In the case of foreign students, their native language and literature will be accepted in lieu of the above requirement of English, if equal to this requirement in nature and amount. When this substitution is made, a reading and speaking knowledge of English is to be offered to meet the requirement of two units in a foreign language.)

2. Group of Foreign Languages.

Six units is the maximum accepted from the group.

French.....	1-4 units
German.....	1-4 units
Greek.....	1-3 units
Latin.....	1-4 units
Spanish.....	1-4 units
Other foreign languages.....	1-4 units each

3. Group of History, Government, and Economics.

Ancient History.....	1-2 - 1 unit
Mediaeval and Modern History.....	1-2 - 1 unit
American History.....	1-2 - 1 unit
English History.....	1-2 - 1 unit
Civics.....	1-2 unit
Economics.....	1-2 - 1 unit

4. Group of Mathematics.

Algebra to Quadratics.....	1 unit
Algebra, completed.....	1-2 unit
Plane Geometry.....	1 unit
Solid Geometry.....	1-2 unit
Algebraic Theory, advanced.....	1-2 unit
Trigonometry.....	1-2 unit

5A. Group of Laboratory Sciences.

Physics.....	1 unit
Chemistry.....	1 unit
Geology.....	1-2 - 1 unit
Physical Geography.....	1-2 - 1 unit
Botany.....	1-2 - 1 unit
Zoology.....	1-2 - 1 unit
Physiology-Biology.....	1 unit

5B. Group of Non-Laboratory Sciences.

Any of the above if given without adequate laboratory work, and the following:

General Science.....	1-2 - 1 unit
Astronomy.....	1-2 unit
Psychology.....	1-2 unit

List C.

The maximum amount that may be offered from this list for entrance to the various Colleges of the University is four units. The maximum that will be accepted in any one subject contained in the group is shown below:

Agriculture.....	1-2 - 2 units
Home Economics (Domestic Science).....	1-2 - 3 units
Industrial Subjects.....	1-2 - 2 units
Manual Training and Arts.....	1-2 - 2 units
Commercial Subjects.....	1-2 - 4 units
Music.....	1-2 - 2 units

OPTIONAL SUBJECTS: Other subjects completed in accredited high schools will be considered on their merits.

COURSES ACCEPTED FOR ADMISSION.**1. GROUP OF ENGLISH.**

Three units prescribed, one additional elective.

It is expected that three years of the high school course in English will conform to the following standard. This amount of work, if of satis-

factory quality, will be accepted as fulfilling the prescribed requirement of three units in English.

Uniform college entrance requirements in English.—The study of English in school has two main objects which should be considered of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

Grammar and composition.—The first object requires instruction in grammar and composition. English grammar should be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects of this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature.—The second object is sought by means of two lists of books, headed respectfully **Reading** and **Study**, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. Reading.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by means of a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as provided under Group I.

Group I—Classics in Translation.

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther.

The Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI.

The Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI.

The Aeneid.

The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may substituted.

Group II—Drama.

Shakespeare:	Richard II,	
Midsummer Night's Dream,	Richard III,	
Merchant of Venice,	Henry V,	
As You Like It,	Coriolanus,	
Twelfth Night,	Julius Caesar,	} If not chosen for study under B.
Tempest,	Macbeth,	
Romeo and Juliet,	Hamlet.	
King John		

Group III—Prose Fiction.

Malory: Morte d'Arthur (about 100 pages).
 Bunyan: Pilgrim's Progress, Part I.
 Swift: Gulliver's Travel's (voyages to Lilliput and Brobdingnag).
 Defoe: Robinson Crusoe, Part I.
 Goldsmith: Vicar of Wakefield.
 Frances Burney: Evelina.
 Scott's Novels: any one.
 Jane Austen's Novels: any one.
 Maria Edgeworth: Castle Rackrent, or The Absentee.
 Dicken's Novels: any one.
 Thackeray's Novels: any one.
 George Eliot's Novels: any one.
 Mrs. Gaskell: Cranford.
 Kingsley: Westward Ho! or Hereward, the Wake.
 Reade: The Cloister and the Hearth, or Griffith Gaunt.
 Lytton: Last Days of Pompeii.
 Blackmore: Lorna Doone.
 Hughes: Tom Brown's Schooldays.
 Stevenson: Treasure Island, or Kidnapped, or Master of Ballantrae,
 or Dr. Jekyll and Mr. Hyde.
 Kipling: Kim, or Captains Courageous, or Jungle Books.
 Cooper's Novels: any one.
 Poe: Selected Tales.
 Hawthorne: The House of the Seven Gables, or Twice Told Tales, or
 Mosses From an Old Manse.
 Howells: The Rise of Silas Lapham, or a Boy's Town.
 Wister: The Virginian.
 Cable: Old Creole Days.
 A collection of short stories by various standard writers.

Group IV—Essays, Biography, Oratory, Etc.

Addison and Steele: The Sir Roger de Coverly Papers, or Selections from The Tatler and Spectator (about 200 pages).
 Boswell: Selections from the Life of Johnson (about 200 pages).
 Franklin: Autobiography.
 Washington: Farewell Address.

Burke: Speech on Conciliation With America.

Irving: Selections from the Sketch Book (about 200 pages),or Life of Goldsmith.

Southey: Life of Nelson.

Lamb: Selections from the Essays of Elia (about 100 pages).

Lockhart: Selections from the Life of Scott (about 200 pages).

Thackeray: Lectures on Swift, Addison, and Steele in the English Humorists.

Macaulay: Any one of the following: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madame d'Arbly, Life of Johnson, Two Speeches on Copyright, History of England, Chapter III.

Trevelyan: Selections from the Life of Macaulay (about 200 pages).

Carlyle: Essay on Burns, with a selection from Burns' Poems.

Ruskin: Sesame and Lilies, or Selections (about 150 pages).

Dana: Two Years Before The Mast.

Webster: First Bunker Hill Oration.

Lincoln: Selections, including at least the Speech of Cooper Union, the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley; together with a brief memoir or estimate of Lincoln.

Parkman: The Oregon Trail.

Emerson: Manners, or Self-Reliance.

Thoreau: Walden.

Lowell: Selected Essays (about 150 pages).

Holmes: The Autocrat of the Breakfast Table.

Burroughs: Selected Essays.

Warner: In the Wilderness.

Curtiss: Prue and I, or Public Duty of Educated Men.

Stevenson: An Inland Voyage and Travels With a Donkey.

Huxley: Autobiography and selections from Lay Sermons, including the address on Improving Natural Knowledge, A Liberal Education, and a Piece of Chalk.

Hudson: Idle Days in Patagonia.

Clemens: Life on the Mississippi.

Riis: The Making of an American.

Bryce: The Hindrances to Good Citizenship.

A collection of Essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers.

A collection of Letters by various and standard writers.

Group V—Poetry.

Palgrave: Golden Treasury (First Series): Books II and III, with special attention to Dryden, Collins, Gray, Cowper and Burns.

Palgrave: Golden Treasury (First Series): Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B).

Milton: L'Allegro, Il Penseroso, Comus, Lycidas.

Goldsmith: The Traveler and the Deserted Village.

Pope: The Rape of the Lock.

A collection of English and Scottish Ballads, as, for example, some Robin Hood ballads, the Battle of Otterburn, King Estmere, Young

Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads.

Coleridge: *The Ancient Mariner*, *Christobel*, and *Kubla Kahn*.

Byron: *Childe Harold*, Canto III or IV, and *the Prisoner of Chillon*.

Scott: *The Lady of the Lake*, or *Marmion*.

Macaulay: *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*.

Tennyson: *The Princess*; or *The Coming of Arthur*, *Gareth and Lynette*, *Lancelot and Elaine*, *The Holy Grail*, and *The Passing of Arthur*.

Browning: *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News From Ghent to Aix*, *Home Thoughts From Abroad*, *Home Thoughts From The Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, "*De Gustibus—*", *Instans Tyrannus*.

Arnold: *Sohrab and Rustum*, *The Forsaken Merman*, and *Balder Dead*.

Selections from American Poetry, with special attention to Bryant, Poe, Lowell, Longfellow, Whittier, and Holmes.

B. Study.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

Group I—Drama.

Shakespeare: *Julius Caesar*, *Macbeth*, *Hamlet*.

Milton: *L'Allegro*, *Il Penseroso*, and *Comus*.

Tennyson: *The Coming of Arthur*, *The Holy Grail*, and *The Passing of Arthur*.

Palgrave: *Golden Treasury* (First Series): Book IV, with special attention to Wordsworth, Keats, and Shelley.

Group III—Oratory

Burke: *Speech on Conciliation With America*.

Macaulay: *Two Speeches on Copyright*; and Lincoln: *Speech at Cooper Union*.

Washington: *Farewell Address*; Webster: *First Bunker Hill Oration*; and Lincoln: *Gettysburg Address*.

Group IV—Essays.

Carlyle: *Essay on Burns*, with a selection from *Burn's Poems*.

Macaulay: *Life of Johnson*.

Emerson: *Essay on Manners*.

2. GROUP OF FOREIGN LANGUAGES.

For admission to the College of Arts and Sciences two units in one foreign language should be offered. The students, who are deficient in this requirement, may be admitted conditionally. See page 27 for Conditioned Entrance.

For admission to the College of Engineering a modern language is

recommended. A maximum of six units may be offered from this group for admission.

1. French.

First year's work.—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of modern French should be read.

Second year's work.—Advanced grammar, with all the irregular verbs. Elementary composition and conversation. About 300 pages of modern French should be read.

Third year's work.—Intermediate composition, and conversation. About 500 pages of standard authors should be read, including a few classics.

Fourth year's work.—Advanced composition, and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

2. German.

Pupils should be trained to understand spoken German, and to reproduce freely, in writing and orally, what has been read. Whatever method of teaching is used, however, a thorough knowledge of grammar is expected.

First year's work.—Pupils should learn to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may well be memorized. Elementary grammar should be mastered up to the subjunctive as arranged in most books for beginners. Easy prose composition rather than the writing of forms will be the test of this grammatical work.

Second year's work.—About 250 pages of modern writers should be read, preferably material which lends itself readily to conversational treatment in the classroom. Recitations should afford constant oral and written drill on the elementary grammar of the previous year. More importance is attached to accuracy and facility in simple modes of expression than to theoretical knowledge of advanced syntax.

Third year's work.—Most of the time should be devoted to good modern prose. There should be work in advanced prose composition—based on German models—and daily oral practice. Pupils ought by this time to understand spoken German fairly well.

Fourth year's work.—The reading should be divided about equally between modern and classical authors. At the end of this year a pupil should be able to read at sight prose or verse of moderate difficulty. He should also express himself orally or in writing with considerable readiness and a high degree of accuracy. Composition should include both free reproduction of the texts studied, and translations of English selections.

3. Greek.

First year's work.—The exercises in any of the beginning books, and one book of the *Anabasis* or its equivalent.

Second year's work.—Two additional books of the *Anabasis* and three

of Homer, or their equivalent, together with an amount of Greek prose composition equal to one exercise a week for one year.

4. Latin.

The requirements for admission in Latin are those recommended by the Commission on College Entrance Requirements in Latin, as follows: (a) In grammar and prose composition a knowledge of forms and syntax shall be acquired sufficient for writing simple Latin prose. (b) In reading, the amount shall not be less than Caesar: Gallic War, I-IV; Cicero: six orations; and Vergil; Aeneid I-IV, and shall be chosen from Caesar (complete), Nepos, Cicero (Orations, Letters, and De Senectute), Sallust, Ovid, and Vergil (complete). (c) Out of the above, the following reading is prescribed: Cicero: Manilian Law and Archias; and the Aeneid I, II, and either IV or VI. (d) Sight translation shall be performed of prose and verse of such difficulty as the scope of the above would justify.

5. Spanish.

First year.—The first year should include: The elements of grammar including all the regular and the more common irregular verbs, the forms and order of the personal pronouns, the uses and meanings of the common prepositions, adverbs, and conjunctions, the uses of the verbs *ser*, *estar*, *haber*, and *tener*, the personal accusative, and other elementary rules of syntax. The reading of not less than 100 pages of prose texts. Careful drill in pronunciation, including accentuation. Occasional dictations and oral and written composition should be employed as aids to memory and expression. Suitable text books are: Hills and Ford's First Spanish Course or Wagner's, or Coester's Spanish Grammar; Harrison's Elementary Spanish Reader; Hill's Tales of Beginners; Johnson's Cuentos Modernos (too difficult for a first reader).

Second year.—In addition to the foregoing, the reading of not less than 300 pages of easy modern prose in the form of stories, plays, and short novels. Conversation, grammar, and composition based upon the reading. Suitable texts for the second year are: Gil Blas de Santillana (Padre Isla); Marienla (Galdós); La Barraca (Ibáñez); Novelas Cortas (Alarcón); Spanish Short Stories (edited by Hills and Reinhardt); El Pájaro verde (Valera); Zaragueta (Ramos Carrión and Vital Aza); Fortuna (Pérez Escrich).

Third year.—The third year calls for the ability to use the language effectively as a means of written and oral expression. The work should comprise: The study of a more complete and detailed grammar. The reading of not less than 500 pages of Spanish prose and poetry of ordinary difficulty. The translation of English into Spanish, conversation, letter writing, and simple business forms. Suitable texts for the third year are: Ramsey's Text Book of Modern Spanish; Umphrey's Spanish Composition; José (Valdés); María (Jorge Isaacs); Amalia (José Mármol); Pepita Jiménez (Valera); Guzmán el Bueno (Gil y Zárate); El Haz de Léna (Núñez de Arce); Consuelo (López de Ayala); Becquer's Legends; Tales and Poems (edition by Olmstead); Selections from Mesonero Romanos (edition by Northup).

The Department of Romance Languages will be particularly pleased to supply upon request additional information concerning Spanish texts, periodicals, bibliography, foreign study, etc.

3. GROUP OF HISTORY, GOVERNMENT, AND ECONOMICS

A maximum of four units is accepted from this group towards admission.

1. History.

Each year's work should cover some standard high school text, together with a book of readings and the drawing of maps. The McKinley Outline Topics are recommended as providing excellent material for map work, as well as giving outlines, references, illustrations, and additional source materials for collateral reading. It is advisable that students present their map work and note books upon entering the University.

The following text and source books are indicated as examples of the amount and character of the material for each unit:

A. Ancient history.—Botsford: History of the Ancient World (Macmillan); West: The Ancient World (Allyn and Bacon); Wolfson: Essentials of Ancient History (American Book Co.); Davis: Readings in Ancient History (Allyn and Bacon); G. W. and L. S. Botsford: Source Book of Ancient History (Macmillan); Breasted: *Ancient Times (to 800 A. D.)*; Breasted and Robinson: Outlines of European History (to 1700).

B. Mediaeval and modern history.—West: The Modern World (Allyn and Bacon); Harding: Essentials in Mediaeval and Modern History (American Book Co.); Robinson: Readings in European History, abridged edition (Ginn); Ogg: Source Book of Mediaeval History (American Book Co.); Robinson: Mediaeval and Modern Times (800 to present); Robinson and Beard: Outlines of European History, vol 2 (1700—).

C. English history.—Cheyney: Short History of England (Ginn); Andrews: History of England (Allyn and Bacon); Walker: Essentials of English History (American Book Co.); Cheyney: Reading in English History (Ginn); Tuell and Hatch: Selected Readings in English History (Ginn).

D. American History.—Muzzey: American History (Ginn); James and Sanford: American History (Scribner's); Muzzey: Readings in American History (Ginn); James: Readings in American History (Scribner's); Hart: Source Book of American History (Macmillan); Forman, S. E.: Advanced American History (Century Co.).

if only one year's work is offered in high school, Ancient History is recommended; if two years', Ancient and American; if three years', Ancient, Mediaeval and Modern, and American; if four, the order should be Ancient, Mediaeval and Modern, English, and American.

2. Government and Economics.

Civics.—This course must not be confined to the study of the form of our government, but must investigate the functions that it performs and the manner in which it performs them. Only modern texts should be used. Among the best of these are: Beard and Beard: American Citizenship (for first-year courses); Garner: Government in the United States; and Guiteau: Government and Politics in the United States. Forman, S. E.: Essentials in Civil Government (Am. Bk. Co.); Forman, S. E.: Advanced Civics (Century Co.).

Economics.—The instruction for the first half unit should represent

a general survey of industrial society, its structure, its institutions, and its operations. For one unit of entrance credit the student should be familiar with the principles of value, including those determining rent, wages, interest, and profit in our pecuniary organized society. One half or one unit.

4. GROUP OF MATHEMATICS.

One unit of Algebra and one of Plane Geometry are required for entrance to either College. A maximum of four units may be offered from the group.

1. **Algebra.**—One unit. Elementary Algebra through simple Quadratics, including the elementary operations of polynomials and fractions, the solution of linear equations, factoring, powers, and roots.

2. **Algebra.**—One and one-half units. Complete elements of algebra and thorough work in quadratic equations, surds, exponents, and graphs, such as is given in standard textbooks.

3. **Plane Geometry.**—One unit. The work in Plane Geometry, in order to be acceptable, must cover a whole year's work in a good text and should include the applications of algebra to geometry and geometry to algebra.

Solid Geometry.—One half unit. The work, to be acceptable, must cover one-half of a year's work in such texts as that of Wentworth or Wells.

An additional one-half unit in advanced algebra beyond 2, outlined above, and one-half unit in trigonometry will be acceptable only upon the approval of the Department of Mathematics.

5. GROUP OF SCIENCES.

A. Laboratory Sciences.

1. **Physics.**—One unit. One year's high school work covering the elements of physical science as presented in the best of the current high school textbooks of physics. Laboratory practice in elementary quantitative experiments should accompany the textbook work. The candidate's laboratory notebook must be presented as part of the requirement.

2. **Chemistry.**—One unit. The instruction must include both textbook and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course as it is given in the best high schools in one year will satisfy the requirements of the University for the one unit for admission. The laboratory notes, bearing the teacher's endorsement, must be presented as evidence of the actual laboratory work accomplished.

3. **Physical geography.**—One-half or one unit. The time should be distributed in the ratio of three recitations and two double periods of laboratory work per week. When offered to meet the requirement in laboratory science, the applicant should present certified statement of teacher or principal, showing the nature and amount of work done.

4. **Botany.**—One-half or one unit. A familiar acquaintance with the general structure of plants, and of the principal organs and their functions, derived to a considerable extent from a study of the objects,

is required; also a general knowledge of the main groups of plants; and the ability to recognize the more common species. Laboratory notebooks and herbarium collections should be presented.

5. Zoology.—One-half or one unit. The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for textbook and recitation work. Notebooks and drawings must be presented to show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must of course, determine the nature of the work done and the kinds of animals studied; but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several of the larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characteristics, and with illustrative examples, selected when practicable, from familiar forms, ought also to be known.

6. Biology-Physiology.—One unit. A profitable year's work may be done, consisting of a half-year of Zoology as described above, and a half-year of Physiology. There should be laboratory work throughout, with carefully kept notebooks which should be presented when this combination course is offered to satisfy the requirement of one unit of laboratory science. The laboratory work in physiology should consist of demonstrations and simple experiments. The compound microscope should be used occasionally, but studies of gross structures are more important. A large place in the course should be left for such practical topics as diet, sanitation, and personal hygiene.

B. Non-Laboratory Sciences.

Four units are the maximum amount acceptable from groups 5A and 5B combined towards admission to the University, Group 5B consists of any of the subjects in 5A, if taught without laboratory work, and also the following:

1. General science.—One-half or one unit. Intended for the first year of high school. Hessler, or Caldwell and Eikenberry is recommended as a textbook.

2. Astronomy.—One-half unit. In addition to a knowledge of the descriptive matter in a good textbook, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the heavenly bodies conspicuous to the naked eye.

3. Psychology.—One-half unit is allowed for the completion of some such textbook as Halleck; Psychology and Psychic Culture, or Pillsbury; Essentials of Psychology.

LIST C.

This list consists of various industrial subjects and Music. A maximum of four units is acceptable from the subjects contained in this list. The amount that is acceptable in each subject of the list is also to be noticed.

1. Agriculture, 1-2 - 2 Units.

The courses under this head may consist of Agronomy, Crops, Horticulture, Irrigation, Animal Husbandry, etc. There should be laboratory work given as a part of each course, and notebooks should be presented.

2. Home Economics (Domestic Art and Science). $\frac{1}{2}$ -3 Units.

(a) An equivalent of 180 hours of prepared work in foods, with at least two recitation periods a week. (b) An equivalent of 180 hours of prepared work in clothing, with at least one recitation period a week. (c) An equivalent of 180 hours of prepared work on the home with at least two recitation periods a week. (Two periods of laboratory work are considered equivalent to one period of prepared work.) Of the foregoing (a) will be accepted as a unit's work; or two half units taken from (a) and (b), or (a) and (c), or (b) and (c) will be accepted as a unit's work. The work is to be done by trained teachers, with individual equipment for students.

3. Industrial Subjects. $\frac{1}{2}$ -2 Units.**4. Manual Training and Arts. $\frac{1}{2}$ -2 Units.**

1. **Drawing.**—Free-hand or mechanical drawing, or both. Drawing books or plates must be submitted. The number of units allowed depends on the quantity and quality of the work submitted.

2. **Bench, lathe, and forge.**—The number of units allowed depends upon the amount and quality of work done and the evidence of the work completed should be submitted.

5. Commercial Subjects. $\frac{1}{2}$ -4 Units.

1. **Bookkeeping.**—One unit. This unit should consist of a working knowledge of double entry bookkeeping for the usual types of business. The student should be familiar with commercial papers, checks, notes, drafts, bills of lading, etc. that are used as evidences for journal entries. The student should be drilled in the making of profit and loss statements and of balance sheets and should be able to explain the meaning of the items involved therein. The work should be done under the immediate supervision of a teacher and the student should devote to it at least ten periods of not less than forty minutes full time in class each week for one academic year.

2. **Business law.**—One-half of one unit. The fundamental legal principles governing the business relations of men should be presented in this course by means of simple, concrete examples and problems so far as possible. While no attempt should be made to present the intricate phases of the subject, the student should not be led to believe that he has mastered the whole of the law as applied. The recommended text for this work is Huffcut: Essentials of Business Law.

3. **Commercial arithmetic.**—One-half unit.
4. **Commercial geography.**—One-half or one unit. The amount and character of the work accepted in this subject is indicated by the scope of textbooks such as Adams: *Elementary Commercial Geography*; Brigham: *Commercial Geography*; Macfarlane: *Commercial and Industrial Geography*; Redway: *Commercial Geography*; Robison: *Commercial Geography*; and Trotter: *Geography of Commerce*.
5. **Stenography.**—One-half to one unit.
6. **Typewriting.**—One unit when offered with stenography.

6. Music. $\frac{1}{2}$ -2 Units.

1. **Elements of composition; harmony and structure.**—One-half to one unit. Harmonic series. Intervals. Erection of the three primary triads. Root positions and doubling in major. Formation of scales. Relations of scale constituents to root and their tendencies. Consonance and dissonance. Chord connection in four parts. Harmonizing of melodies. Elements of melodic construction; cadence; phrase and double phrase. Minor mode. Secondary triads and their use. Other sevenths (within the key). Suspension and retardation. Modulation (simple). Anticipation and embellishment.

2. **Instrumentation and vocal technique.**—One-half to one unit. Ability to perform with satisfactory technique and intelligent interpretation one or more numbers in one of the following sections: (a) piano-forte: Bach: *Well-Tempered Clavichord*; *Prelude or Fugue*; 2 and 3 part inventions; Mozart or Beethoven: a sonata; Chopin: *Study, nocturne, or prelude of moderate difficulty*; (b) violin: Bach, Handel, Mozart, Beethoven: a sonata; Rode, Fiorillo: a study of moderate difficulty; Viotti, Spohr: a concerto; (c) orchestral instruments: similar ability to perform on any orchestral instrument; (d) voice: Bach, Mozart, Schubert, Schumann, Brahms, Franz, Wagner: songs; or an aria by an old Italian master.

In order to obtain entrance credit for voice or any instrument, the candidate must submit to an examination, given by the department concerned, on one of the above numbers or a similar one and upon ability to read at sight a piece of moderate difficulty.

ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES.

Students from other institutions who have pursued standard college courses will be admitted and will receive credit for such courses upon the presentation of proper certificates of creditable standing and honorable dismissal.

Students entering with advanced standing must complete in this University at least thirty hours of work before graduation, including six hours in their major study.

ADMISSION OF ADULT SPECIAL STUDENTS.

Students over twenty-one years of age who are not working for a degree may register for course of their selection without fulfilling the entrance requirements, provided they give evidence of ability to pursue such courses with profit.

ADMISSION TO THE GRADUATE SCHOOL.

Students are admitted to the Graduate School upon the completion of all the scholastic requirements for the Bachelor's degree in this University or some other institution of approved rank. (See also page 71.)

GENERAL ACADEMIC REGULATIONS.

REGISTRATION.

REGISTRATION OF NEW STUDENTS.

All persons who expect to attend the University for the first time should send to the Registrar at their earliest convenience 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. The Committee will gladly accredit records of past work no matter how remote are the prospects of attendance. These transcripts should be received by the University before Registration Day.

The steps necessary to complete registration are as follows:

(1) Presentation of certified transcripts of secondary work before Registration Day.

(2) The student supplies the Registrar with the data called for by the Census Card blanks.

(3) He then pays the matriculation, tuition, and other fees at the office of the Financial Secretary.

(4) He then presents himself before the Committee on Admission and receives his classification which he then presents to the Committee on Enrollment.

(5) The Committee on Enrollment, consisting of all members of the Faculty not otherwise engaged, will then advise and assist the student in selecting his program of studies, due care being taken to include in this program of studies courses which are prescribed in the curriculum which the student elects to pursue.

(6) The Director of the Department of Hygiene gives each student appointments with the Medical and Dental Advisors, at which times the student shall present himself for examination.

(7) The matriculant then must secure the approval of the Dean of his College of the program of studies which he has selected.

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 two dollars.

Students, who enter after the second week of a semester, may not, except in cases approved by the Dean, receive the maximum credit earned in the course in which they enroll. The amount of credit given will be in proportion to the portion of the semester which remains.

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.

CREDIT HOURS.

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.

Students are expected to attend regularly all exercises of the courses in which they are enrolled. Attention is invited to the following Faculty regulations on this subject:

1. Three tardinesses may be counted by the instructor as one absence. The grade for the class exercise may be reduced one-third on account of an unexcused tardiness. It shall lie in the province of the instructor to judge the merits of excuses offered for tardiness, which shall be offered at the close of the class exercise, and to permit, in his discretion, the student to make up the work lost on account of such tardiness. If such

lost work is made up the grade for that day's exercise shall be increased proportionately.

2. Absences incurred on the day preceding or on the day following a holiday or recess (Sundays excepted) shall be counted double.

3. Officers of instruction shall make a daily report to the Dean, or, in the case of women, to the Supervisor of Women, of the absences incurred by students on that day. When three tardinesses are counted by the instructor as one absence, they shall be reported in the same way, together with the dates on which they were incurred.

4. When a student is absent, the instructor shall mark him zero for that particular class exercise.

5. A student, who has been absent from a class exercise, may offer reason for such absence to the Dean, or, in the case of women students, to the Supervisor of Women, and if the excuse offered be accepted, the student will be given a "Permit to Make Up Lost Work," which shall authorize the instructor of the course involved, in his discretion, to permit the student to make up the work lost on account of absence. When such lost work will have been made up, wholly or in part, the instructor will change the grade of zero incurred on account of absence to what the work done for the day in question deserves.

6. When absences for any cause whatsoever exceed twice the number of class exercises per week in a course, the student is automatically dropped from the course and his final grade for that course shall be F, except in cases provided for in Section 7. In the case of students who register late, the number of absences allowed without penalty shall be in proportion to the length of the semester which remains.

7. In case a student is dropped from a course under operation of Section 6, he may offer his reason for absence to the Dean or to the Supervisor of Women, and if the reason for absence be accepted, the student, on the recommendation of the instructor of the course involved and of the approval of the Dean, shall be readmitted to the course from which he has been debarred, and the grade of F, incurred by absences, shall be thereby cancelled. It lies in the province of the instructor of the course, subject to the approval of the head of the department, to recommend whether the student should be readmitted, and, if readmitted, whether he should have an opportunity to

make up the lost work or to earn credit in proportion to the amount of work completed.

8. If a student, who has been readmitted to a class, incur any additional absence in that course, he shall be dropped from that course with a grade of F, unless his absence be promptly explained and excused by the Dean or the Supervisor of Women.

GRADING AND EXAMINATIONS.

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

A-----	93-100-----	Excellent.
B-----	92-85-----	Good.
C-----	84-77-----	Average.
D-----	76-70-----	Barely passing.
X-----	69-60-----	Conditioned.
F-----	60 and below	Failed.
I-----	Work not completed.	

Students receiving I in a course are permitted, in the discretion of the instructor, to complete the unfinished work within the first six weeks of the period of residence following the semester wherein the I was incurred. When the work is completed they will receive the grade and amount of credit to which their record entitles them. 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 sixth week of the following semester. (Cf. Special Examinations.) Any condition remaining unremoved becomes automatically a failure after the time limit has expired for the removal of such conditions. Only one opportunity is allowed for the removal of a condition.

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.

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 examination 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 Financial Secretary. The fee is charged for each final semester examination given at any but the time scheduled for the final examination of the course and for each special examination held on a set date to remove conditions. The instructor shall decide whether the fee shall be collected for special examination given within the semester.

No final examination may be given to a class or to an individual before the time appointed by the Committee on Schedule and Curriculum.

DISHONESTY IN EXAMINATIONS.

A student found guilty of dishonest practices in a quiz, test, examination, or other work, renders himself liable to suspension or expulsion.

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, in the discretion of the Dean and of the President may be suspended from the University and debarred from registration until such time as they see fit to readmit him.

HONORABLE DISMISSAL.

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. Additional transcripts are furnished at the rate of one dollar a copy.

UNIFORM GRADUATION REQUIREMENTS.

MINIMUM RESIDENCE REQUIREMENT.

Every candidate for a degree must spend in residence at this University at least one academic year, during which time he shall complete a normal program of studies in course.

ACADEMIC REQUIREMENTS (QUANTITATIVE).

The academic requirements for a degree in either College are based upon both quantity and the quality of the work completed by the candidate. The quantitative requirement is 124 credit hours in the College of Arts and Sciences, and 144 in the College of Engineering, in both cases based on average quality of work. These amounts include credit hours earned in the prescribed courses in Hygiene, but do not include credit hours earned in prescribed courses in Physical Education or those earned in attending Public 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.

HYGIENE.

Hygiene 1 and 2 must be taken by all students in all Colleges of the University in their Freshman year or in the first year of residence in the case of students who enter with advanced standing but without credit in this subject.

PHYSICAL EDUCATION.

Physical Education 1 and 2 or 5 and 6 must be taken by all students of all Colleges of the University, in their freshman year, or in the first year of residence in the case of students who enter with advanced standing but without credit in this subject. Physical Education 51 and 52 or 55 and 56 must be taken during the sophomore year or the second year in residence. Each course earns one-half credit hour. A total of two credit hours, four semesters' work, must be earned for any baccalaureate degree, in addition to the amounts required in academic subjects.

Students who fail to meet this requirement may have their grades and credits withheld in other courses.

PUBLIC ASSEMBLIES.

Assemblies are held in Rodey Hall regularly on Fridays, and

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. The record of attendance are based upon the reports of student monitors appointed by the President of the Student Body. 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 requirements for degrees.

FEES, EXPENSES, AND EMPLOYMENT.

EXPENSES.

In accordance with the desire of the people of the State it is the policy of the State University to reduce its fixed charges to a minimum sum. Board and lodging for a limited number of students is furnished upon an approximate cost-basis. The Board of Regents reserves the right to change the rates at any time as the interests of the institution may demand.

Registration fee per semester.....	\$ 3.00
Tuition, resident students, per semester.....	5.00
*Tuition, non-resident students, per semester.....	20.00
Student activities fee (voted by students), per semester..	5.00
Guarantee deposit, not less than.....	10.00

At the time of registration a deposit of \$10 to cover possible breakage or damage to University property, is required of each student. This sum, or the remainder thereof after deduction for breakage or damage, is returned to the student at the end of the year or at withdrawal.

SPECIAL FEES

Late registration fee.....	\$2.00
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All students who register at a later date than the time appointed or who fail to appear for their medical or dental examinations at the time appointed, pay this extra fee of \$2.00.

Special examination fee:.....	2.00
Change in program fee.....	\$1.00

For every change in program of studies made after the end of the second week of the semester, except on written demand of the instructor of the course to be dropped, a fee of \$1.00 is charged. Not more than \$2.00 shall be charged for the change authorized on any one change slip.

Laboratory fee, per semester credit hour.....	\$3.00
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Laboratory fees are deducted from the guarantee deposit 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.

*Students, who have been residents of New Mexico for less than one calendar year at time of registration, are subject to this charge.

BOARD AND LODGING.

In the Residential Halls for Men and Women respectively, in connection with the Dining Hall, or University Commons, board and lodging are furnished for \$27.50 per month in advance. By order of the Board of Regents, students occupying University property for residential purposes are required to pay this sum (\$27.50 per month). The rate is not subject to deduction except on account of absence on seven consecutive days, excused by Deans. The privilege of the Residential and Dining Halls may be withdrawn from any person violating the rules and regulations of the University.

Quarters for resident students are provided in the two Residential Halls, one for men and one for women. These Halls are divided into suites, each consisting of two bedrooms and a study. Two or three students, as a rule, occupy a suite. The rooms are furnished and electric light and steam heat provided, but students supply their own bedding, towels, etc., and pay their own laundry bills. The Men's Residential Hall is in charge of a Proctor, and the Women's Residential Hall is also in charge of a Proctor. Accommodations are limited, therefore prospective students will remit as soon as possible to the Registrar a reservation fee of five dollars, to be applied toward the first month's account.

Guests are not entertained in the residential halls without the previously obtained consent of the supervisors who are in charge.

MEALS.

Persons connected with the State University who do not reside in University property may procure meals at the following rates:

Meals for one month, \$22.50, cash in advance. Tickets for students or faculty members not domiciled in University property are non-transferable and good only during current month, and the rate is not subject to deduction except on account of absence on seven consecutive days, excused by Deans.

COUPON BOOKS.

Good only for noon-day luncheon on weekdays (except on holidays). Price \$7.00 for 20 coupons, which are non-transferable.

SINGLE MEALS.

In the interest of service, economy and health, the buying of single meals is discouraged. However, single meals will be supplied to those connected with the University at the following rates:

Breakfast.....	40c
Dinner.....	60c
Supper.....	60c
Dinner (Sundays and holidays).....	85c

It is the intention of the Board of Regents to supply good board and lodging at cost. The above prices are subject to change at any time.

STUDENT EMPLOYMENT.

Some students earn the whole or part of their expenses while attending the University. Students are employed on the campus wherever advisable, as janitors, waiters in the dining room, helpers in the kitchen, etc. There is also some demand from the homes and business houses of Albuquerque for student help.

The attention of new students who intend to earn the whole or part of their living is called to the following results of past experiences:

(1) There is always a waiting list for the jobs available on the campus. These jobs are usually assigned a year in advance to the students who have been in residence a year and who have made a good record in their studies and labor.

(2) Students who can do any kind of domestic or manual labor well, and who have very good health, often earn their board and room. But no student is advised to come to the University without resources sufficient for the expenses of one semester.

(3) The university curriculum is adapted to those who have control of their entire time for study. The student who must earn his living, therefore, should expect to enroll for less than the usual amount of University work.

Inquiries concerning opportunities for employment should be addressed to the President.

SCHOLARSHIPS AND HONORS.

THE C. T. FRENCH MEDAL FOR SCHOLARSHIP.

A friend of the University, Mr. Chester T. French of Albuquerque, during the Spring of 1921, notified President Hill of his willingness to establish a permanent fund, the proceeds of which might be used perpetually as a prize to stimulate scholarship. Mr. French accordingly gave \$500 in Liberty Bonds for this purpose. THE C. T. FRENCH MEDAL FOR SCHOLARSHIP will be awarded annually by the President of the State University to the student who meets these conditions:

(1) He or she shall have obtained during that year the highest general average for scholarship in a regular course of not less than 15 hours, leading to the Bachelor's degree, during a residence of not less than one full academic year.

(2) Only Juniors and Seniors in residence will be eligible in competition for the C. T. French Medal, and the Medal can be awarded to the same person but once.

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 \$1,500, New Mexico has the privilege of electing a scholar from the candidates who present themselves.

The selection 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 are made to the State Committee by the authorities of the University.

The scholars selected so far are: Thomas S. Bell (U. N. M.), 1906; Frank C. Light (U. N. M.), 1908; Hugh M. Bryan (U. N. M.), 1910; Karl G. Karsten (U. N. M.), 1911; W. Coburn Cook (U. N. M.), 1914; George Adlai Feather (U. N. M.), 1916 (Scholarship postponed until 1919 on account of the war); Donovan M. Richardson (U. N. M.), 1917 (Appointment postponed until January, 1920, on account of the war); Milan Wayne Garrett (U. N. M.), 1920 (Appointment postponed until January, 1921); John V. Hopkins (State College), 1921.

HONOR FRATERNITY.

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 in the spring semester of 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 fourth of his class in scholarship. The students elected from the class of 1920 were: Anne G. Cristy, Clyde Y. Morris, Clifford G. Wolking.

STUDENT ORGANIZATIONS.

The students of the University form a general student body organization which is called "The Associated Students of the State University of New Mexico," and which controls the other organizations of general interest. The editorial and managerial boards of the newspaper, the U. N. M. Weekly, and year-book, The Mirage, are elected by the Associated Students. Under the direction of the Dramatic Club plays are presented. The Glee Club, the Orchestra, and the Chorus are of interest to many students. The University participates in the State Oratorical Contest held annually at the meeting of the New Mexico Educational Association. Debates are held with other educational institutions. All athletic activities are under the direction of the Athletic Association, which is controlled by the Athletic Council. All Associated Students are members of the Association. The University has been a member of the Rocky Mountain Conference since 1916.

The students support several other organizations which are independent of the Associated Students' control. Among these are the Y. M. C. A., the Y. W. C. A., El Circulo Español, the Tennis Club, the Lowell Literary Society, and the Student Chapter of the American Association of Engineers.

Two national fraternities and one local fraternity are represented among University men, and four national fraternities among the women. The women's fraternities have formed a local Pan-Hellenic Association which regulates "rushing" and other fraternity matters. Some fraternities own houses near the campus.

COLLEGE OF ARTS AND SCIENCES.

FACULTY.

- HILL, DAVID SPENCE, Ph. D., LL. D., President.
- MITCHELL, LYNN BOAL, Ph. D., Dean of College of Arts and Sciences and Professor of Greek and Latin.
- HODGIN, CHARLES ELKANAH, B. Pd., Professor of Education and Vice-President.
- CLARK, JOHN DUSTIN, Ph. D., Professor of Chemistry and Dean of Graduate School.
- WEESE, ASA ORRIN M. A., Professor of Biology and Acting Director of Department of Hygiene.
- HICKEY, ETHEL, B. A., Professor of English.
- LANDERS, JOSEPH SAMUEL, M. A., Professor of Psychology and Philosophy.
- BARNHART, CHARLES ANTHONY, M. A., Professor of Mathematics.
- ELLIS, ROBERT WALPOLE, M. A., Professor of Geology.
- SIMPSON, MRS. WALTER, Professor of Home Economics and Supervisor of the Dining Hall.
- MOSHER, EDNA, Ph. D., Acting Professor of Biology and General Supervisor of Women.
- HESSLER, LEWIS BURTRON, Ph. D., Professor of English and Chairman of the Department.
- ROCKWOOD, ROBERT SPENCER, M. S., Professor of Physics.
- LUKKEN, JOHN, B. S., B. M., Associate Professor of Music.
- COAN, CHARLES FLORUS, Ph. D., Associate Professor of History and Political Science.
- IBARRA y ROJAS, HANNIBAL, B. de CC. LL., J. D., Assistant Professor of Romance Languages.
- FEASEL, FRED, M. A., Assistant Professor of Economics and Business Administration.
- SHELTON, WILMA LOY B. A., B. L. S., Librarian and Assistant Professor of Library Science.
- JOHNSON, ROY WILLIAM, B. S., Assistant Professor of Physical Education of Men.
- WITMEYER, MINNIE VELNA, Instructor of Physical Education of Women and Proctor of Women's Residential Hall.
- FAW, JENNIE STEVENS, Instructor in Piano.
- NICHOLS, LOUISE, Instructor in Piano.
- ROY, EDNA, B. S., Instructor in Home Economics.
- COLLINS, WILLIAM A., Laboratory Assistant in Biology.
- DIXON, WENONAH, Assistant in Chemistry.
- LIGHTON, EDWARD WILLIAM, Laboratory Assistant in Chemistry.
- OGG, FRANK CHAPPELL, Assistant in Mathematics.
- ROSENBACH, SAMUEL, Assistant in Physics and Electrical Engineering.

COLLEGE OF ARTS AND SCIENCES.

The College of Arts and Sciences aims to provide a liberal as well as a thorough education. It offers courses of both cultural and practical nature in various departments, including animal biology, botany, 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, philosophy, physics, psychology, and romance languages and literatures. It gives opportunity also for special work in the Curricula Preparatory to Law and to Medicine. In addition, it accepts a certain amount of work from the College of Engineering.

GRADUATION REQUIREMENTS.

A total of 124 credit hours of work of C grade (see page 47) is required for graduation with the Bachelor of Arts degree. A small proportion of the course is prescribed for the program of the first two years with the intention that every student shall lay a sufficiently broad foundation in English, other languages, the sciences and mathematics, and history, government, economics, and philosophy. During the last two years he devotes about one-half of his time to his major and minor studies and chooses his electives under the advice and approval of his major professor.

Requirements in Hygiene, Physical Training, and Public Assembly (see page 47).

The remainder of the required work is arranged in groups and a specified amount of work must be taken in each group.

GROUP I.

- A. English.
- B. Foreign Language.

GROUP II.

- Economics.
- Education.
- History.
- Philosophy.
- Political Science.

GROUP III.

Biology.

Chemistry.

Geology.

Home Economics (food courses only).

Mathematics.

Physics.

Psychology (51 and 52 when accompanied by 61 and 62, and other laboratory courses).

REQUIREMENTS IN GROUP I-A.

English 1 and 2 must be taken in the first year.

REQUIREMENTS IN GROUP I-B.

Courses earning 12 credit hours must be taken in languages other than English in the first two years. By the end of the second year the student must have studied at least two foreign languages, including offerings toward entrance earned in his secondary school.

REQUIREMENTS IN GROUP II.

Courses earning nine credit hours must be completed in subjects contained in this group. This requirement must be met by the end of the second year and not more than two-thirds of the amount required may be taken in one subject.

REQUIREMENTS IN GROUP III.

Courses earning 12 credit hours must be completed in subjects contained in this group. This requirement must be met by the end of the second year and not more than two-thirds of the amount required may be taken in one subject.

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 24 credit hours earned in those courses prescribed for or accepted by the department towards a major study. Such work must be of at least C quality. Courses in which the grade of D is earned are accepted as electives towards graduation but are not accepted for the major study.

A minor study of 12 credit hours shall be completed in an-

other department and shall conform to the same standards set up for the major study except only 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 and minor 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.

RESTRICTIONS IN ELECTIVES.

Not more than 50 credit hours earned in courses open to Freshmen are accepted towards 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 14 to 16 credit hours, except for reasons approved by the Dean.

No member of this College may enroll in courses which earn more than 16 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 Admission and Student Standing, who may, in their discretion, grant permission to enroll for extra work up to a maximum of 18 credit hours.

DEGREE.

Upon recommendation of the President and Faculty, the degree of Bachelor of Arts is conferred by the Regents upon those candidates who have completed at this institution not less than the last two semesters of a four years' curriculum in accordance with the requirements and regulations of the University. If such candidates have completed a major course in Group III, they may, upon request, receive the degree of Bachelor of Science.

PROFESSIONAL HIGH SCHOOL TEACHER'S CERTIFICATE.

Graduates of the College are awarded a professional high school teacher's certificate upon the completion of the following requirements:

General Psychology, three credit hours; Educational Psychology, three credit hours; Principles of Education, three credit hours; History of Education, six credit hours, and the completion of a major course, including methods of teaching the major subject.

The requirements in Physiology, United States History and Civics, and the History and Civics of New Mexico, to which all applicants for all grades of certificates are held, must be met by applicants for the professional high school certificate. If these subjects have not been offered for entrance they must be taken before graduation.

Graduates of the University who include in their curriculum the above prescribed subjects receive a certificate showing that they have completed this work. Upon the presentation of this certificate to the State Department of Education, a professional certificate is issued permitting the holder thereof to teach in high schools in New Mexico for a period of three years. Upon the expiration of this time and upon the presentation of evidence of successful teaching, this certificate will be renewed.

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.

The School of Law of Northwestern University has effected an affiliation with the College of Arts and Sciences, by the terms of which the student may secure the advantages of the following seven years' program of combined liberal and professional studies. He may spend three years in residence in the College of Arts and Sciences and then proceed to the School of Law for the remaining four years, receiving his Bachelor of Arts degree from the University of New Mexico at the end of the first four years of study, and his Bachelor of Laws degree

from Northwestern University at the close of the seven years' program.

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 credit hours, extending through two years of at least 32 weeks each, exclusive of holidays, in the College of Arts and Sciences. It is recommended that whenever possible, the student 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 Professor of Biology, to meet the requirements of that particular school.

The subjects included in the minimum two years of required college work or the recommended three years of desirable college work should accord with the following curriculum:

Required Courses:	Semester Hours
Chemistry	12
Physics	8
Biology	8
English Language and Rhetoric.....	6
Other non-science courses.....	18

Courses Strongly Urged:

French or German.....	6-12
Advanced Botany or Advanced Zoology.....	3-6
Advanced Mathematics, including Algebra and Trigonometry..	3-6
Psychology	3-6
Additional Chemistry	3-6

Suggested Elective Courses:

Additional English Language and Rhetoric or English Literature, Economics, History, Sociology, Government, Logic, Mathematics, Latin, Greek, Drawing.

Suggestions Regarding Individual Subjects.

Chemistry.—12 semester hours required, of which at least 8 must be

in general inorganic chemistry, including 4 credit hours of laboratory work. Work in qualitative analysis may be counted as general inorganic chemistry. The remaining 4 hours may consist of additional work in general chemistry or of work in analytic or organic chemistry.

Physics.—8 semester hours required, of which at least 2 must be laboratory work. It is urged that this course be preceded by a course in trigonometry. This requirement may be satisfied by 4 credit hours of college physics, of which 2 must be laboratory work, if preceded by a year (one unit) of high school physics.

Biology.—8 semester hours required, of which 4 must consist of laboratory work. This requirement may be satisfied by a course of 8 semester hours in either general biology or zoology, or by courses of 4 semester hours each in zoology and botany, but not by botany alone.

English Language and Rhetoric.—The usual 6 semester hours of college composition are required.

Non-Science Courses.—Of the 60 semester hours required as the measurement of two years of college work, at least 18 including the 6 credit hours in English should be in departments other than Physics, Chemistry, and Biology.

French and German.—A reading knowledge of one of these languages is strongly urged. If the reading knowledge in one of these languages is obtained on the basis of high school work, the student is urged to take the other language in his college course. It is not considered advisable however, to spend more than 12 of the required 60 semester hours on foreign languages. In case a reading knowledge of one language is obtained by 6 semester hours of college work, another 6 semester hours may be well spent in taking the beginner's course in the other language. If this is followed up by a systematic reading of scientific prose, a reading knowledge of the second language may be readily acquired. When a student spends more than two years in college he may well spend 12 semester hours of his college work in the second language.

COLLEGE OF ENGINEERING.

FACULTY.

- HILL, DAVID SPENCE, Ph. D., LL. D., President.
- EYRE, THOMAS TAYLOR, B. S., in M. E., Acting Dean of College of Engineering and Professor of Practical Mechanics.
- CLARK, JOHN DUSTIN, Ph. D., Professor of Chemistry and Dean of Graduate School.
- WEESE, ASA ORRIN, M. A. Acting Director of Department of Hygiene and Professor of Biology.
- BARNHART, CHARLES ANTHONY, M. A., Professor of Mathematics.
- ELLIS, ROBERT WALPOLE, M. A., Professor of Geology.
- HESSLER, LEWIS BURTRON, Ph. D., Professor of English.
- ROCKWOOD, ROBERT SPENCER, M. S., Professor of Physics.
- IBARRA, Y ROJAS, HANNIBAL, B. de CC. LL., J. D., Assistant Professor of Romance Languages.
- CAREY, CHARLES EDWARD, E. E., Assistant Professor of Electrical Engineering.
- DOUGHERTY, HARRY L., B. S., in S. E., Assistant Professor of Civil Engineering.
- FEASEL, FREDERICK, M.A., Assistant Professor of Economics and Business Administration.
- DIXON, WENONAH, Assistant in Chemistry.
- LIGHTON, EDWARD WILLIAM, Assistant in Chemistry.
- ROSENBACH, SAMUEL JOSEPH, Assistant in Physics and Electrical Engineering.
- SHORT, FLETCHER, Assistant in Civil Engineering.

The College of Engineering offers courses in chemical, civil, electrical, and geological engineering, and practical mechanics; it offers, in addition, the first two years of four-year curricula in mechanical, mining, and sanitary engineering. The aim of each department is to make entrance requirements and requirements for graduation meet the standard of the leading engineering colleges. The curricula have been so outlined as to include both professional and cultural studies in order that the student may not only receive instruction in theory and practice but may also enlarge his mental horizon. To this end a number of non-technical subjects are required in all engineering courses.

It is the endeavor of the departments of engineering to give a thorough grounding in mathematics and theoretical subjects during the earlier years, with a reasonable amount of special-

ization during the later years in each curriculum. The drawing and laboratory instruction continues progressively throughout the four years in each curriculum.

INSPECTION TRIPS.

From time to time throughout the curriculum inspection tours are made, under the direction of an instructor, to engineering and industrial establishments in the City of Albuquerque, and the coal and metal mines, the mills, kilns, and smelters in this region. Through the courtesy of these establishments it is possible for the engineering students to get a much better idea of the actual processes and the methods in use in up-to-date, practical plants than could possibly be gained in the shops and laboratories of an educational institution, where the equipment must of necessity be limited. In this way the observation work in connection with the discussions and practical work at the University laboratories offers excellent opportunity for the students to become familiar with practical applications.

GRADUATION REQUIREMENTS.

Candidates for the degree of Bachelor of Science in engineering curricula must complete 144 credit hours, including all the prescribed courses.

Electives, where prescribed in the following curricula, are to be chosen with the advice and consent of the Dean and the head of the Engineering Department in which the student is a candidate for a degree.

(See also Uniform Graduation Requirements, page 46.)

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

FIRST YEAR

First Semester

		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 1	Inorganic Chemistry	3	3	4
English 3	Composition and Rhetoric	3	0	3
Math. 13	College Algebra	3	0	3
Math. 11	Trigonometry	3	0	3
P. M. 1	Wood Shop	0	6	2
P. M. 11	Engineering Drawing	0	6	2

Second Semester

		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 2	Inorganic Chemistry	3	3	4
E. E. 1	Engineering Lectures	2	0	2
English 4	Composition and Rhetoric	3	0	3
Math. 14	Analytical Geometry	5	0	5
P. M. 3	Wood Shop	0	6	2
P. M. 16	Descriptive Geometry	0	6	2
				<hr/> 18

SECOND YEAR**First Semester**

Chem. 51	Qualitative Analysis	0	10	5
Math. 51	Calculus	4	0	4
Physics 51	Mechanics, Heat and Sound	3	0	3
Physics 53	Physics Laboratory	1	3	2
*Language or Economics				
(a) Spanish 1 Elementary Spanish				
(b) French 1 Elementary French				
(c) Economics 1 Principles of Accounting				
				<hr/> 18

*The course that is elected must be taken four semesters.

Second Semester

Chem. 52	Quantitative Analysis	0	8	4
Math. 52	Calculus	4	0	4
Physics 52	Electricity, Magnetism & Light	3	0	3
Physics 54	Physics Laboratory	1	3	2
Language or Economics				
As elected in first semester....				
P. M. 6	Machine Shop	0	6	2
				<hr/> 19

THIRD YEAR**First Semester**

Chem. 61	Organic Chemistry	0	6	3
C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng....	3	0	3
E. E. 103	Heat Power Engineering	3	0	3
Chem. 101	Quantitative Analysis	0	6	3
Language or Economics				
As elected in Soph. year....				
				<hr/> 19

Second Semester

		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 62	Organic Chemistry	0	6	3
C. E. 108	Mechanics of Materials.....	3	0	3
E. E. 104	Heat Power Engineering	3	0	3
E. E. 106	Electrical Engineering Lab....	1	6	3
E. E. 108	Electrical Machinery	3	0	3
Language or Economics	As elected in Soph. year	3	0	3
				<hr/> 18

FOURTH YEAR**First Semester**

English 61	Engineering English	3	0	3
Chem. 151	Advanced Quantitative Analysis	0	10	5
Chem. 112	Industrial Chemistry	2	0	2
C. E. 51	Elementary Surveying	2	6	4
Electives			4
				<hr/> 18

Second Semester

Chem. 110	Physical Chemistry	5	0	5
Chem. 113	Metallurgy	2	0	2
C. E. 110	Hydraulics	3	0	3
C. E. 52	Topographic Surveying	1	6	3
Electives			4
				<hr/> 17

Total 144

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR
OF SCIENCE IN CIVIL ENGINEERING.****FIRST YEAR****First Semester**

Chem. 1	Inorganic Chemistry	3	3	4
English 3	Composition and Rhetoric	3	0	3
Math. 13	College Algebra	3	0	3
Math. 11	Trigonometry	3	0	3
P. M. 1	Wood Shop	0	6	2
P. M. 11	Engineering Drawing	0	6	2
				<hr/> 17

Second Semester

Chem. 2	Inorganic Chemistry	3	3	4
E. E. 1	Engineering Lectures	2	0	2

		Lecture Hours	Laboratory Hours	Credit Hours
English 4	Composition and Rhetoric	3	0	3
Math. 14	Analytical Geometry	5	0	5
P. M. 3	Wood Shop	0	6	2
P. M. 16	Descriptive Geometry	0	6	2
				<hr/> 18

SECOND YEAR

First Semester

C. E. 51	Elementary Surveying	2	6	4
Math. 51	Calculus	4	0	4
Physics 51	Mechanics Heat and Sound	3	0	3
Physics 53	Physics laboratory	1	3	2
*Language or Economics				
(a) Spanish 1	Elementary Spanish			
(b) French 1	Elementary French	5	0	4
(c) Economics 1	Principles of Accounting			
				<hr/> 17

*The course that is elected must be taken four semesters.

Second Semester

C. E. 52	Topographic Surveying	1	6	3
Math 52	Calculus	4	0	4
Physics 52	Electricity, Magnetism & Light	3	0	3
Physics 54	Physics Laboratory	1	3	2
Language or Economics				
	As elected in first semester.....	5	0	4
P. M. 6	Machine Shop	0	6	2
				<hr/> 18

THIRD YEAR

First Semester

C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng....	3	0	3
E. E. 103	Heat Power Engineering.....	3	0	3
C. E. 101	R. R. Curves and Earthwork..	3	0	3
C. E. 103	R. R. Engineering	0	6	2
Language or Economics				
	As elected in the Soph. year...	3	0	3
				<hr/> 18

Second Semester

C. E. 108	Mechanics of Materials	3	0	3
C. E. 110	Hydraulics	3	0	3
C. E. 157	Highway Engineering	2	0	2
E. E. 106	Electrical Engineering Lab....	1	6	3

		Lecture	Laboratory	Credit
		Hours	Hours	Hours
E. E. 104	Heat Power Engineering	3	0	3
E. E. 108	Electrical Machinery	3	0	3
Language or Economics	As elected in the Soph. year...	3	0	3
				20

FOURTH YEAR

First Semester

English 61	Engineering English	3	0	3
C. E. 153	Masonry Construction	3	0	3
C. E. 155	Theory of Structures	3	0	3
C. E. 151	Graphic Statics	2	4	3
C. E. 161	Water Supplies	3	0	3
C. E. 163	Irrigation	2	0	2
C. E. 181	Seminar	2	0	2
				19

Second Semester

C. E. 154	Reinforced Concrete	2	0	2
C. E. 158	Masonry Tests	0	3	1
C. E. 164	Sewerage	3	0	3
C. E. 165	Sanitary Design	0	3	1
C. E. 156	Structural Design	0	12	4
C. E. 170	Contracts and Specifications...	2	0	2
C. E. 182	Seminar	2	0	2
C. E. 200	Thesis			3
				18

Total 145

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

FIRST YEAR

First Semester

Chem. 1	Inorganic Chemistry.....	3	3	4
English 3	Composition and Rhetoric	3	0	3
Math. 13	College Algebra	3	0	3
Math. 11	Trigonometry	3	0	3
P. M. 1	Wood Shop	0	6	2
P. M. 11	Engineering Drawing	0	6	2
				17

Second Semester

Chem. 2	Inorganic Chemistry	3	3	4
E. E. 1	Engineering Lectures	2	0	2

		Lecture Laboratory Credit		
		Hours	Hours	Hours
English 4	Composition and Rhetoric	3	0	3
Math. 14	Analytical Geometry	5	0	5
P. M. 3	Wood Shop	0	6	2
P. M. 16	Descriptive Geometry	0	6	2

 18

SECOND YEAR

First Semester

C. E. 51	Elementary Surveying	2	6	4
Math. 51	Calculus	4	0	4
Physics 51	Mechanics, Heat and Sound ...	3	0	3
Physics 53	Physics Laboratory	1	3	2

 *Language or
Economics

(a) Spanish 1 Elementary Spanish

(b) French 1 Elementary French 5 0 4

(c) Economics 1 Principles of Accounting

 17

*The course that is elected must be taken four semesters.

Second Semester

C. E. 52	Topographic Surveying	1	6	3
Physics 54	Calculus	4	0	4
Language, or	Electricity, Magnetism & Light	3	0	3
Economics	Physics Laboratory	1	3	2
Math 52				
Physics 52	As elected in first semester....	5	0	4
P. M. 6	Machine Shop	0	6	2

 18

THIRD YEAR

First Semester

C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng...	3	0	3
E. E. 103	Heat Power Engineering	3	0	3
Physics 111	Electricity and Magnetism	2	0	2
Physics 113	Electrical Measurements	0	6	2
E. E. 106	Electrical Laboratory	0	6	2
E. E. 105	Direct Current Problems	1	0	1
Language or				
Economics	As elected in the Soph. year...	3	0	3

 20

Second Semester

C. E. 108	Mechanics of Materials	3	0	3
C. E. 110	Hydraulics	3	0	3
E. E. 102	Alternating Currents	4	0	4

		Lecture Hours	Laboratory Hours	Credit Hours
E. E. 104	Heat Power Engineering	3	0	3
E. E. 108	Alternating Current Problems..	1	0	1
E. E. 110	Steam Laboratory	0	3	1
E. E. 171	Electrical Laboratory	0	6	2
Language or Economics	As elected in the Soph. year...	3	0	3
				<hr/> 20

FOURTH YEAR

First Semester

E. E. 151	Alternating Current Machinery	4	0	4
E. E. 153	Alternating Current Problems ..	1	0	1
E. E. 155	Electrical Laboratory	0	6	2
E. E. 192	Power Plants	3	0	3
E. E. 196	Transmission Lines	2	0	2
E. E. 161	Electrical Design	1	6	3
English 61	Engineering English	3	0	3
				<hr/> 18

Second Semester

E. E. 152	Advanced A. C. Machinery...	4	0	4
E. E. 154	Electrical Laboratory	0	6	2
E. E. 193	Electric Railways	3	0	3
E. E. 162	Electric Design	1	6	3
E. E. 182	Seminar	1	0	1
	Thesis			3
				<hr/> 16

Total 144

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

FIRST YEAR

First Semester

Chem. 1	Inorganic Chemistry	3	3	4
English 3	Composition and Rhetoric	3	0	3
Math. 13	College Algebra	3	0	3
Math. 11	Trigonometry	3	0	3
P. M. 1	Wood Shop	0	6	2
P. M. 11	Engineering Drawing	0	6	2
				<hr/> 17

Second Semester

Chem. 2	Inorganic Chemistry	3	3	4
E. E. 1	Engineering Lectures	2	0	2

		Lecture	Laboratory	Credit
		Hours	Hours	Hours
English 4	Composition and Rhetoric	3	0	3
Math. 14	Analytical Geometry	5	0	5
P. M. 3	Wood Shop	0	6	2
P. M. 16	Descriptive Geometry	0	6	2

18

SECOND YEAR

First Semester

Geol. 1	Physical Geology	2	3	3
Math. 51	Calculus	4	0	4
Physics 51	Mechanics, Heat and Sound ...	3	0	3
Physics 53	Physics Laboratory	1	3	2
C. E. 51	Elementary Surveying	2	6	4

*Language or

Economics

(a) Spanish 1 Elementary Spanish

(b) French 1 Elementary French 5 0 4

(c) Economics 1 Principles of Accounting

20

*The course that is elected must be taken four semesters.

Second Semester

Geol. 2	Historical Geology	2	3	3
Math 52	Calculus	4	0	4
Physics 52	Electricity, Magnetism & Light	3	0	3
Physics 54	Physics Laboratory	1	3	2
C. E. 52	Topographic Surveying	1	6	3
Language or				
Economics	As elected in the first semester	5	0	4

19

THIRD YEAR.

First Semester

Geol. 51	Mineralogy	1	3	2
Geol. 101	Economic Geology	2	3	3
C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng. ...	3	0	3
E. E. 103	Heat Power Engineering	3	0	3
Language or				
Economics	As elected in Soph. year	3	0	3

18

Second Semester

Geol. 52	Mineralogy	0	6	2
Geol. 102	Economic Geology	2	3	3
C. E. 108	Mechanics of Materials	3	0	3

		Lecture	Laboratory	Credit
		Hours	Hours	Hours
C. E. 110	Hydraulics	3	0	3
E. E. 104	Heat Power Engineering	3	0	3
E. E. 106	Electrical Laboratory	0	6	2
Language or Economics	As elected in Soph. year	3	0	3

 19

FOURTH YEAR

First Semester

Geol. 103	Paleontology	1	6	3
Geol. 105	New Mexico Geology	0	6	2
Chem. 51	Qualitative Analysis	0	10	5
Chem. 112	Industrial Chemistry	2	0	2
English 61	Engineering English	3	0	3
	Electives			3

 18

Second Semester

Geol. 104	Petrology	1	6	3
Geol. 106	Geological Mapping	0	6	2
Chem. 52	Quantitative Analysis	0	8	4
Chem. 110	Physical Chemistry	5	0	5
Chem. 113	Metallurgy	2	0	2

 16

 Total 145

GRADUATE SCHOOL.

FACULTY.

DAVID SPENCE HILL, Ph. D., LL. D., President of the University.

JOHN DUSTIN CLARK, Ph. D., Dean of the Graduate School and Professor of Chemistry.

LYNN BOAL MITCHELL, Ph. D., Professor of the Latin and Greek Languages and Literatures, and Dean of the College of Arts and Sciences.

ASA ORRIN WEESE, M. A., Professor of Biology and Acting Director of the Department of Hygiene.

JOSEPH SAMUEL LANDERS, M. A., Professor of Psychology and Philosophy.

CHARLES ANTHONY BARNHART, M. A., Professor of Mathematics.

ROBERT WALPOLE ELLIS, M. A., Professor of Geology.

LEWIS BURTRON HESSLER, Ph. D., Professor of English and Chairman of the Department.

ROBERT SPENCER ROCKWOOD, M. S., Professor of Physics.

EDNA MOSHER, Ph. D., Acting Professor of Biology and Supervisor of Women.

CHARLES FLORUS COAN, Ph. D., Associate Professor of History and Political Science.

FRED FEASEL, M. A., Assistant Professor of Economics and Business Administration.

MYRTLE GREENFIELD, M. A., Bacteriologist in State Public Health Laboratory and Assistant Professor of Bacteriology.

At the beginning of the 1919-20 college year, a small nucleus of a graduate school was organized at the University of New Mexico. This school offers to men and women the opportunity of extending and rendering more thorough the scholarship obtained in the undergraduate courses, and of advancing the boundaries of knowledge by specialized work and original research.

REGARDING COURSES.

The privileges of this school are extended to graduates of this University or of other institutions of equal grade. The general scope of the graduate instruction offered in any subject may be gathered from an inspection of the statements in the Courses of Instruction. The work of graduate students is expected, however, to be in a measure, independent of the regular courses of instruction. Some of the graduate courses offered may be elected in the senior year by properly prepared undergraduate

students. Work done in this way, however, before the attainment of the bachelor's degree, will not be allowed to count as graduate work if the student afterward becomes a candidate for an advanced degree. Nor will any work of undergraduate grade done by a graduate student be, as a rule, credited toward an advanced degree, but certain courses primarily for seniors will be open to graduate students and may, at the discretion of the Committee on Graduate Studies, be counted toward an advanced degree.

ADMISSION OF SPECIAL STUDENTS.

Properly prepared students who have not obtained a baccalaureate degree and who are not candidates for a degree may be admitted to the Graduate School, it being understood that the work undertaken by them must be all of a higher grade than that required for the baccalaureate degree. The admission of such students will be upon sanction of the professors under whom they are to study and the Committee on Graduate Studies. The graduate work done by this class of special students shall in no case count toward the acquisition of an advanced degree.

The University of New Mexico will not confer advanced degrees on students who have not obtained a baccalaureate degree from an institution of standard grade.

ADMISSION TO CANDIDACY.

All graduate students will be considered merely resident graduates, unless admitted to candidacy for a degree by the Dean of the Graduate School, after formal application. Applicants for advanced degrees are required to announce their proposed courses to the Dean within two weeks after the opening of the session. Applicants for advanced degrees may, at the discretion of the Committee on Graduate Studies, receive proper credit for graduate work done either in private study or at another university of standard grade, but their degrees will not be granted unless applicants have been resident graduates at this University for at least one year.

CHANGES IN REQUIREMENTS.

Candidates standing examinations for advanced degrees more than three years after the beginning of their graduate study must satisfy all the requirements adopted in the interval.

MINIMUM SIZE OF GRADUATE CLASSES.

Graduate classes of fewer than three students will be formed only at the discretion of the professor concerned and with the approval of the administration.

CHOICE OF MINOR SUBJECTS.

The choice of minor subjects may be made only after consultation with the professor in charge of the major subject and the Dean of the Graduate School.

UNIT COURSES OF GRADUATE STUDY, REQUIRED MINIMUM OF COURSES.

The unit for estimating the quantity of graduate instruction is a graduate course. A unit course is one which requires ten hours of time a week through one semester, irrespective of the mode of distribution of that time in classroom, laboratory or private study. Four such courses or their equivalent, constitute a full minimum for one semester and eight such courses or their equivalent, which may include the preparation of a Master's thesis, are expected to occupy the time for a year of a well prepared, able graduate student and constitute the minimum formal year's work required for a Master's degree.

Five and ten are the maximum for one semester and the year, respectively.

RECORDS OF GRADUATE WORK.

At the close of the academic year, each professor shall file with the Dean of the Graduate School, a record of the year's work of each graduate student, showing, first, the quantity of each student's work, stated in unit graduate courses, as defined above, and second, the quality of this work stated in terms of the same system of grades as is used in the Academic Colleges.

EXAMINATIONS.

Final examinations for all advanced degrees shall be conducted jointly by the professors in charge of the major and minor subjects and shall be written and oral, or oral in part.

THESIS.

Copies of theses for the Master's degree must be deposited with the Dean of the Graduate School not later than the first

day of May in the year of which the degree is sought. The Master's thesis should demonstrate accuracy of thinking, clearness of expression, and ability to carry on independent investigation. The thesis must show literary merit. It must be submitted in prescribed typewritten form on unruled paper of good quality, $8\frac{1}{2} \times 11$ inches in size, with a margin of one inch on the four sides of the page. The title page shall contain the words, "Submitted to the Faculty of the University of New Mexico in partial fulfillment of the requirements of the degree of——." A full list of authorities and books consulted and a short biographical sketch suitable for publication must be appended.

DEGREES.

The Master's degree is conferred upon students who complete successfully advanced study in one major subject and in one or two minor subjects, amounting to not less than eight graduate units, who pass a final examination, and who present a satisfactory thesis within the field of their major subject. If one minor be chosen, not less than one-half of the courses shall be in the major subject. If two minors be chosen, then to these two together shall be devoted one half of the total time, and the remaining half shall be devoted to the major subject.

TIME REQUIRED TO OBTAIN MASTER'S DEGREE.

A well prepared and able graduate student may find it possible to attain his Master's Degree after one year of graduate study, provided he devotes his entire time for one year to this study and does not undertake teaching, tutoring, or any other outside work whatsoever. The amount of time and the number of unit credits are, however, not the only criteria, the satisfactory completion of the work being the final consideration.

DEPARTMENT OF HYGIENE.

FACULTY.

DAVID S. HILL, Ph. D., LL. D., President.

C. E. WALLER, M. D., State Commissioner of Health, Consultant.

ASA ORRIN WEESE, M. A., Professor and Acting Director.

PERCY GILLETTE CORNISH, Jr., M. D., Medical Advisor for Men.

EVELYN FRISBIE, M. D., Medical Advisor for Women.

CHARLES ELLER, D. D. S., Dental Advisor.

MYRTLE GREENFIELD, A. M., Bacteriologist in the State Public Health Laboratory and Assistant Professor of Bacteriology.

ROY W. JOHNSON, B. A., Assistant Professor of Physical Education.

MINNIE V. WITTMAYER, Instructor of Physical Education for Women.

FLORA ELLA CHESS, B. A., Technician in the State Public Health Laboratory.

This Department is organized in cooperation with, and with the assistance of the Interdepartmental Social Hygiene Board and exercises general supervision over the activities conducted under the heads of Physical Education, Health Supervision, etc., as well as instruction in General Hygiene, Physiology, Bacteriology, etc. The Public Health Laboratory of the University and of the State Board of Health is under the general supervision of the Director of the Department of Hygiene.

No major is at present offered in the Department. All elective courses giving academic credit may be counted toward a minor in Hygiene.

HEALTH EXAMINATIONS.

A health examination is required each semester of each student. Every reasonable provision is made for a private, personal, confidential relation between the examiner and the student. Each student so advised must report to his health advisor within a reasonable time as directed, and the advisor is available during his regular office hours for consultation by the student on any matter concerning his health or physical welfare.

The instruction given in the regular courses of the Department is, from time to time, supplemented by lectures on public hygiene, public health, and related topics from competent members of the local, state and national health departments and organizations and from other appropriate sources.

Sanitary surveys and hygiene inspections are applied regularly to all departments and divisions of the University.

Primarily for Undergraduates.

1, 2. The principles of hygiene.—General, individual, group and intergroup hygiene. The human body in health, the agents that injure health, the carriers of disease, the contributory causes of poor health, the defenses of health, the sources of health; the care of the body and its organs, correction, repair, preventive hygiene, constructive hygiene, hygiene of the home and the family, school hygiene, occupational hygiene, community hygiene, interfamily, intercommunity, interstate and international hygiene. Required of all Freshmen. Two hours a week.

26. Elementary physiology.—A general survey of the work of the human body as a whole, with the relations and activities of its individual organs. The chemistry of the body processes. Laboratory 2 hours, 4 hours a week. Prerequisite: Chemistry 1 and 2; Hygiene 1 and 2.

51. Principles of hygiene.—A continuation of courses 1 and 2, with special emphasis on community hygiene. 2 hours a week.

91. Bacteriology.—Morphology, culture and physiology of micro-organisms. Microbiology of air, water and special industries. Plant and animal diseases and their control. Household and sanitary bacteriology. Laboratory 2 hours. Four hours a week.

Prerequisite: Chemistry 1 and 2.

121. Physiological chemistry.—Chemical constituents of the body tissues and food substances. The chemistry of metabolic processes. Qualitative and quantitative work on gastric juice, blood, urine and milk. Diagnostic methods. Hours as arranged.

Prerequisite: Chemistry 51, 52, 61, and 62.

PHYSICAL EDUCATION.

This Department is a division of the Department of Hygiene. Every student of Freshman rank is required to spend one hour a day in physical exercise or recreation. Athletics, outdoor games and sports can be counted toward meeting this requirement, 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 be taken by students who otherwise are not taking sufficient exercise.

Courses for Men.

1, 2. Freshman course.—Drilling, army setting-up exercises, work on gymnasium apparatus, etc. 3 hours a week, $\frac{1}{2}$ credit hour, not counted toward a degree.

51, 52. Sophomore course.—Continuation of the preceding course introducing advanced work. 3 hours a week, $\frac{1}{2}$ credit hour not counted towards a degree.

71, 72. Principles of physical education.—Open to Juniors and Seniors. 2 hours a week.

Courses for Women.

The aim of these courses is to give each student the opportunity of engaging in some physical activity, to correct physical defects, to encourage equal development of body and mind, to conserve and promote vigorous health, and to develop such habits of exercise in students that they will continue their practice after leaving the University.

5, 6. Freshman course.—Military marching, figure marching, progressive exercises in free work, drills with light apparatus, dumbbells, wands, etc. 3 hours a week, $\frac{1}{2}$ credit hour, not counted towards a degree.

21, 22. Classic dancing.—2 hours a week, $\frac{1}{2}$ credit hour:

55, 56. Sophomore course.—Continuation of 5 and 6, but of more advanced character. 3 hours a week, $\frac{1}{2}$ credit hour, not counted towards a degree.

71, 72. Classic dancing.—An advanced course, open to those who have had 21, 22 or its equivalent. 2 hours a week, $\frac{1}{2}$ credit hour.

92. Playground course.—The course includes the psychology of play, the aims and purposes of playground activities, organization, construction, and equipment. 2 hours a week, 2 credit hours.

105. Folk dancing.—A selection is made of those folk dances of various nationalities which are practical for school and playground purposes. 2 hours a week, $\frac{1}{2}$ credit hour.

Prerequisite: 5, 6, 55, and 56.

EXTENSION DIVISION.

The State University is extending its service to a larger constituency than was reached through the regular class room channel, although the University has received no appropriations for this.

The Extension Division, though limited in its possibilities has conducted successfully, and nearly upon a self-supporting basis, a surprisingly wide range of activities during the year 1920-1921. To date these activities were as follows, and consisted of lecture courses and classes open to qualified adults upon payment of small fees.

APPLIED PSYCHOLOGY—David S. Hill, Ph. D., LL. D.

1. The Definition and Fields of Modern Psychology.
2. The Mystery of the Mind-Body Relation.
3. The Process of Habit-Building.
4. The Realities and Illusions of Perception.
5. Memory—Its Nature and Development.
6. Memory—Its Training and Limitations.
7. Imagination—Phases and Uses.
8. The Psychology of Choice and Decision.

JOURNALISM—(First Series) Marion L. Fox, A. B., LL. B.

1. Origin and Purpose of the Newspaper.
2. Journalistic Style.
3. Gathering the News, and What is News.
4. The Reporter and His Boss.
5. Words and Phrases.
6. Telling the Story.
7. The Make-up.
8. Advertising.

JOURNALISM—(Second Series) Gilbert Cosulich, LL. B.

1. The History of Journalism.
2. The Organization of a Newspaper Office.
3. Getting the News.
4. Newspaper English.
5. The News Story.
6. The Interview.
7. The Feature Story.
8. Dramatic and Musical Criticism.
9. Art and Book Reviewing.
10. The Society Story.
11. The Sports Story.
12. The Editorial.
13. The Headline.
14. Copy-reading and Proof-reading.

15. The Law of Libel.
16. Journalism as a Career.

SALESMANSHIP—Charles M. Barber, Ph. B.

1. Preliminary Training in Salesmanship.
2. The Psychology of Salesmanship.
3. Presentation and Approach in Salesmanship.
4. Character as Capital in Salesmanship.
5. The Part of Persuasion and Enthusiasm in Salesmanship.
6. Competition in Salesmanship.
7. Necessary Knowledge of the Barometers of Business in Salesmanship.
8. The Supreme Test of Salesmanship—Closing the Deal.

HOME ECONOMICS—(First Series) Mrs. Walter L. Simpson (Ypsilanti).

1. Introductory Food Study.
2. Meats.
3. Fish and Left-over Meats.
4. Cake Making.
5. Salads and Salad Dressings.
6. Table Service.
7. Meal Planning.
8. Balanced Meals.

HOME ECONOMICS—(Second Series) **Home Nursing and Health.** Weekly Lectures and Demonstrations.

Tuesday, February 8.—The Social Significance of Hygiene, Asa O. Weese, A. M.

Thursday, February 10.—Pure Water and Milk in the Home, John D. Clark, Ph. D.

Tuesday, February 15.—Bacteria in Relation to Health, Myrtle Greenfield, A. M.

Thursday, February 17.—Essential Factors in Healthful Home Conditions, J. Frank Docherty, M. D.

Thursday, February 24.—How Diseases Are Transmitted, J. A. Van Atta, M. D.

Tuesday, March 1.—Diseases of Children, E. E. Royer, M. D.

Thursday, March 3.—Diseases of Children, E. E. Royer, M. D.

Tuesday, March 8.—Home Care of the Tubercular, L. S. Peters, M. D.

Thursday, March 10.—The Prevention of Tuberculosis, A. G. Shortle, M. D.

Tuesday, March 15.—First Aid, P. Gillette Cornish, Jr., M. D.

Thursday, March 17.—First Aid, continued, P. Gillette Cornish, Jr., M. D.

Tuesday, March 22.—The Cripple, J. A. Reidy, M. D.

Thursday, March 24.—Obstetrics, L. G. Rice, M. D.

Tuesday, March 29.—Maternity, prenatal, Evelyn Frisbie, M. D.

Thursday, March 31.—Maternity, postnatal, Evelyn Frisbie, M. D.

Tuesday, April 5.—The Feeding of Infants, Mrs. Walter Simpson.

Thursday, April 7.—Home Care of the Surgical Convalescent, G. S. McLandress, M. D.

Tuesday, April 12.—Diet in Diseases, Trained Nurse.

Thursday, April 14.—Personal Hygiene, Edna Mosher, Ph. D.

Tuesday, April 19.—Social Hygiene, Edna Mosher, Ph. D.

Thursday, April 21.—The Prevention of Mental Disorders, David S. Hill, Ph. D., LL. D.

Tuesday, April 26.—Care of the Eye, H. L. Brehmer, M. D.

Thursday, April 28.—Care of the Ear, G. K. Angle, M. D.

Tuesday, May 3.—Care of the Teeth, C. A. Eller, D. D. S.

Lectures and demonstrations by Trained Nurse on May 5, May 10, May 12, May 19, May 24, May 26, May 31 (Subjects to be announced).

PRACTICAL SPANISH—Hannibal Ibarra y Rojas, B. de CC. LL., LL. B., J. D.

ELEMENTARY COURSE—Length—twelve weeks, two lessons per week.

ADVANCED COURSE—Length—twelve weeks, two lessons per week.

COURSES IN THE DEPARTMENTS OF INSTRUCTION.

Courses numbered 1-50 are open to Freshmen, 51-100 to none below Sophomore rank, 101-150 to none below Junior rank, 151-200 to none below Senior rank, 201 and above to graduates only.

Courses bearing odd numbers are generally offered the first semester; courses bearing even numbers are generally offered the second semester.

DEPARTMENT OF BIOLOGY.

ASA ORRIN WEESE, Professor.

EDNA MOSHER, Acting Professor.

WILLIAM A COLLINS, Laboratory Assistant.

Major study.—To obtain the recognition for a major study in this department, the student must present credits in courses 1, 8 or 14, and 191; but credits obtained in courses 1, 8, and 14 shall not be counted towards fulfilling the requirement as to number of hours to be taken in the major study.

Minor study.—Courses 1, 8, and 14 shall not be counted toward the fulfillment of the requirement of a minor study, but either 1 or 14 must be taken in order to obtain recognition for a minor in this department.

Equipment.—The Department of Biology is temporarily located in quarters in the Chemistry Building, the rooms including a large general laboratory 24 by 160 feet, a lecture room 24 by 50 feet, office, stock room, etc. The general laboratory is so equipped that different sections of the room may be used at the same time by various classes. The laboratory is well equipped for the courses offered, the apparatus including an adequate supply of microscopes, with such accessories as mechanical stages, micrometers, camera lucida, ultra-microscopic attachments, large collection of illustrative models and charts for use in the laboratory and the lecture room.

Primarily for Undergraduates.

1. **Zoology.**—A comparative study of the principles of structure, physiology, ecology, and development of animals. The laboratory work consists essentially of a detailed examination of one or more types in each phylum and a more superficial study of closely related organisms. A study of typical metazoan tissues is included. In the field, a beginning of the study of typical animal communities is made. Laboratory and field work, 3 hours, total 5 hours. (MOSHER).

8. **Vertebrate morphology.**—Dissections of types of the common groups of vertebrates, with references and discussions. Prerequisite 1. Laboratory work 4 hours, total 5 hours. (MOSHER).

14. **Botany.**—A study of the evolution of the plant kingdom and the underlying principles of plant life. Type studies of representatives of the principal plant groups. The life processes in the individual plant. Laboratory work 4 hours, total 5 hours. (MOSHER).

16. Plant identification.—A laboratory and field course in the identification and recognition of common flowering plants of New Mexico. While this is not a formal course in taxonomy, the general principles of plant classification will be considered. The manuals of Wooten and Standley, Coulter and Nelson, and Clements will be used. Prerequisite: Biol. 14, Laboratory and field work, 2 hours, total 2 hours.

51. Histology.—The minute structure of the animal as an organism, built up of tissues combined into organs. Practice in general methods of micro-technique and the use of apparatus. Prerequisites: 1 and 8 or their equivalent. Laboratory work, 3 hours, total 5 hours.

53. Histological technique.—Practical work in the preparation of histological and embryological material. May be taken in connection with course 51. 2 hours.

55. General embryology.—The development of the individual treated from its broadly biological standpoint. The main facts of development are considered in the laboratory. Prerequisites: 1 and 8 or their equivalent. Laboratory work, 3 hours, total 5 hours. (Not offered 1921-22).

56. Vertebrate embryology.—A continuation of course 55 in which special attention is given to the embryology of the chick. Practical work in the preparation of material for study. Reconstruction methods, etc. Laboratory work, 3 hours, total 5 hours. (Not offered 1921-22).

58. Comparative anatomy.—A comparative study of the types dissected in course 8 with additional studies on brain and skeleton. Prerequisites 1 and 8. Laboratory work, 3 hours, total 5 hours. (MOSHER).

61. Heredity and evolution.—Heredity, variation, elements of biometry, proofs of organic evolution, probable factors involved. Prerequisite 1. Laboratory work 2 hours, total 4 hours. (Not offered in 1921-22). (WEESE).

71. Entomology.—The structure, physiology, development, and economic relations of insects. A discussion of the principles of taxonomy and their application to the classification of insects. Prerequisite 1. Laboratory work, 2 hours, total 4 hours. (MOSHER).

72. Medical entomology.—A study of insects and closely related invertebrates in relation to the transmission of disease. Prerequisite 71, or its equivalent. Laboratory work, 1 hour, total 3 hours. (MOSHER).

82. Field zoology.—The field study, collection, and identification of local fauna, including migratory birds. Prerequisite 1. 71 is desirable. Laboratory and field work, 2 hours. (Not offered in 1921-22).

85. Ecology.—A study of the factors which make up the home of the organism. Response of the organism to its environment. Regional relations of animal life. Prerequisite: 71 is a desirable prerequisite. Laboratory and field work, 2 hours, total 4 hours. (WEESE).

For Advanced Undergraduates and Graduates.

101. General physiology.—The physical, structural, and functional features of living substance; the cell; present conditions and expressions of life; and the theories of the origin of life. The organism as a whole in relation to its surroundings. Prerequisites: 1 and two other courses in the department. 3 hours. (Not offered 1921-22).

104. Animal behavior.—The tropisms, instincts, and intelligence of animals and the evolution of the animal mind. Prerequisite 1. Laboratory work, 1 or 2 hours, total 3 hours. (Not offered 1921-22).

111. Experimental ecology and geography.—The physiology of environmental relations: analysis of behavior. World and regional aspects of behavior and ecology; animal distribution as related to climate and vegetation. 2 or 4 hours. Prerequisite: one year of zoology. (WEESE).

126. Experimental zoology.—Genetics, regeneration, experimental embryology. Laboratory, 2 hours, total 4 hours. Prerequisite: One year of zoology. (WEESE).

160. Organic evolution.—The history of the evolution idea, modern theories, experimental evolution, practical aspects, problems in genetics. Lectures and assigned reading. Much attention will be paid to the reading and discussion of current literature pertaining to the subject matter of the course. Prerequisites: three courses in the department. 2 hours. (Not offered 1921-22).

191, 192.—Advanced work along the lines indicated by the above introductory courses may be elected by students having proper preparation. Problems. Semi-independent work. Seminar. Details must be arranged in consultation with the professor in charge. (WEESE, MOSHER).

DEPARTMENT OF CHEMISTRY.

JOHN D. CLARK, Professor.

EDWARD E. LIGHTON, Assistant.

WENONAH DIXON, Assistant.

Major study.—For a major course in this department the student must present credits in courses 1, 2, 51, and 52 or their equivalent, but courses 1, 2, and 51 shall not be counted towards 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 1, 2, 51, and 52.

Equipment.—The department of Chemistry is housed in the new Chemistry Building which was completed in 1918. The building is thoroughly fireproof 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 an apparatus room, together with a large 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 well equipped with the usual apparatus needed in the study of chemistry in its various branches. Apparatus for research is added as needed.

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. Laboratory 1 period a week. 4 hours.

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: 1. Laboratory, 1 period a week. 4 hours.

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. Prerequisites: 1 and 2. 5 hours.

52. Quantitative analysis.—This course gives practice in the greatest variety of manipulation. Types of the important methods are taken up. Analyses of ores, metals, slags, alloys, fuels, soils, fertilizers, dairy products, food stuffs, waters, urine, poisons, drugs, gases, and oils are taken. The needs of the individual student will be considered in the work. Prerequisite: 51. Laboratory, 10 hours. 5 hours.

101-102. Quantitative analysis.—Continuation of 52. Laboratory 10 hours. 5 hours, each semester.

61. Organic chemistry.—Lectures and recitations. A study of the chemistry of the carbon compounds. Laboratory work taken in Course 62. Prerequisites: 1, 2, and 51. (Not given in 1921-22) 3 hours.

62. Organic chemical laboratory.—This course consists mainly of laboratory practice in preparing and purifying organic compounds and a study of qualitative organic reactions and analysis. Prerequisite: 61. Laboratory work, 3h. (Not given in 1921-22) 3 hours.

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. Prerequisites: 1, 2, and 51. 2 hours. (Given in alternate years. Given in 1921-22).

113. Metallurgy.—This course consists of lectures describing the processes employed in the smelting of iron, lead, copper, zinc, silver, gold, etc. Prerequisite: 1, 2, and 51. (Not given in 1921-22) 2 hours.

For Advanced Undergraduates and Graduates.

110. Physical chemistry.—This work consists of advanced study of chemistry theory. As far as possible, lectures cover 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: 1, 2, 51 and 52. 5 hours. (Not given in 1921-22).

151. Quantitative analysis.—Continuation of 102. Laboratory 10 h. 5 hours.

DEPARTMENT OF CIVIL ENGINEERING.

HARRY L. DOUGHERTY, Assistant Professor.

FLETCHER SHORT, Assistant.

51. Elementary surveying.—The theory, use and adjustment of instruments. The determination of distances with chain and tape; the determination of areas with transit and compass; profile and differential leveling. City, farm, and mine surveying; practical problems. Prerequisite: Math. 11. Recitation 2 hours per week, field 6 hours per week. 4 credit hours.

52. Topographical surveying.—The theory and use of the plane table, stadia, and other instruments used in making topographical survey. Base line measurement and triangulation. The plotting of field notes for making a complete topographic map. Practice in making topographical symbols, and the solution of problems involving the making and use of contour maps. Prerequisite: C. E. 51. Recitation 1 hour per week, field 6 hours per week. 3 credit hours.

101. Railway curves and earthwork.—A study of railroad curves and earthwork. In connection with the class-room work the student is required to solve problems intended to familiarize him with the methods of staking out curves and earthwork, and the computations involved. The theory and use of simple, compound, and spiral curves, study of frogs, switches, and turnouts are included in this course. Taken with C. E. 103. Prerequisite: C. E. 52. Recitation 3 hours per week. 3 credit hours.

103. Railroad engineering.—The principles of economic location and construction of railways. The student is required to make a complete topographical survey of a proposed railroad and complete a map and profile of the preliminary line. This is followed by a paper location including computation of earth work and a mass diagram. Special attention is paid to grades and drainage. Taken with C. E. 101. Prerequisite: C. E. 52. 6 hours field work per week. 2 credit hours.

105. Analytical mechanics.—The mechanics of engineering problems. Statics, kinetics, work, energy, impulse and momentum, etc. Prerequisite: Math. 51. 4 recitation hours per week. 4 credit hours.

108. Mechanics 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 recitations per week. 3 credit hours.

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, turbines and pumps. Prerequisite: C. E. 105. 3 recitation hours per week. 2 credit hours.

151. 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. Recitation 2 hours, and drawing room 4 hours per week. 3 credit hours.

153. **Masonry construction.**—The study of the nature of stone, brick, lime, cement, sand, gravel and concrete as applied to engineering. The methods of constructing culverts, retaining walls, arches and foundations including those under water. Prerequisite: C. E. 108. 3 recitation hours per week. 3 credit hours.

154. **Reinforced concrete.**—The principles of reinforced concrete beams, slabs, columns, retaining walls, dams, arches and other structures. Prerequisite: C. E. 153. 2 recitation hours per week. 2 credit hours.

155. **Theory of structures.**—A study of the principles governing the stresses in beams, girders and trusses. Analytical method employed in finding shears and moments in beams and trusses, and centers of gravity and moments of inertia in rolled and built-up sections. Prerequisite: C. E. 108. 3 recitation hours per week. 3 credit hours.

156. **Structural design.**—The design of structures of steel, masonry, plain and reinforced concrete, including beams, dams, arches, plate girders, roof and bridge trusses, etc. Both algebraic and graphical methods are used. Prerequisite: C. E. 155. Drawing room 12 hours per week. 4 credit hours.

157. **Highway engineering.**—This course covers the location, construction, maintenance, cost, durability and methods of financing all types of country roads and city pavements. Prerequisite: C. E. 52. 2 recitation hours per week. 2 credit hours.

158. **Masonry tests.**—Laboratory course in which the student is trained in the standard methods of testing concrete materials. Prerequisite: C. E. 153. 3 laboratory hours per week. 1 credit hour.

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 design of dams, conduits and distributing systems. Conditions effecting the quality of water and methods of purification. Prerequisites: C. E. 110. 3 hours recitation per week. 3 credit hours.

163. **Irrigation engineering.**—The elementary theory of hydraulics relating to the flow of water in ditches, etc. A discussion of the different methods of irrigation, the control of irrigation water, and works for distribution and storage. A study of the subject especially for the development of the Southwest. Prerequisite: C. E. 110. 2 recitation hours per week. 2 credit hours.

164. **Sewerage.**—Instruction in the principles involved in the design and construction of sewers; the disposal of sewage and garbage; sewage treatment by up-to-date methods. Prerequisite: C. E. 110. 3 recitation hours per week. 3 credit hours.

165. **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. Prerequisites: C. E. 161 and C. E. 164. Drawing room 3 hours per week. 1 credit hour.

170. **Contracts and specifications.**—The law governing engineering practice, contracts, and specifications. 2 recitation hours per week. 2 credit hours.

181. Seminar.—Readings and discussions of engineering topics. Each student presents papers upon assigned topics and participates in the discussion of others. 2 recitation hours per week. 2 credit hours.

182. Seminar.—A continuation of C. E. 181. 2 recitation hours 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.

FRED FEASEL, Assistant Professor.

Group requirements.—Courses 53 and 54 are not accepted towards the requirement in Group II.

Major course.—A major in this department consists of a minimum of 24 hours other than Courses 15 and 18.

Minor study.—A minor study in this department consists of 12 or more hours other than Courses 15 and 18.

Primarily for Undergraduates.

15. Principles of economics. I.—Industrial society. This course represents a general survey of industrial society, its structure, its institutions, and its operations. The course is designed to serve as an introduction to the later work in economics, which is so arranged as to constitute progressively more intensive studies in the field here rapidly surveyed. 3 hours.

18. Principles of economics. II.—Value and distribution in industrial society. A study of the laws of production, exchange, distribution, and consumption of wealth, combined with an analysis of the industrial action of men as regards land, capital, wages, etc. Prerequisite: 15. 3 hours.

53-54. Principles of accounting.—Fundamental principles of accounting: Theory of debit and credit; statements, accounts and books of original entry. Prerequisites: 15 and 18. Credit not given for either semester separately. Two recitations and one two-hour laboratory period each week, 3 hours each semester. (Given in alternate years. Not given in 1921-22).

67. Business organization and administration.—This is a general survey from the point of view of the business manager, of the problems of business administration. A study is made of business organization, and of the problems connected with production, marketing, finance, etc. Prerequisites: 15 and 18. 3 hours. (Given in alternate years. Not given in 1921-22).

68. Marketing.—A study of the problems involved in the marketing of goods. The evolution of methods and institutions of marketing from those of simple industrial communities to those of complex industrial societies. Prerequisites: 15, 18, and 67. 3 hours. (Given in alternate years. Not given in 1921-22).

For Advanced Undergraduates and Graduates.

103-104. Advanced principles of accounting.—The principles of modern accounting, including a study of some of its problems, especially those connected with the balance sheet and the income statement, as the valuation of assets, and the treatment of good will, depreciation, capital stock, profits, surplus, etc. Prerequisites: 15, 18, 53 and 54. 3 hours each semester. (Given in alternate years. Not given in 1921-22).

111. Money and banking.—The nature and functions of money; the relation between money and price levels; the various types of financial institutions, including the Federal Reserve System, national and state banks, investment banks, and the like. Prerequisites: 15, 18, and registration in 53. 3 hours. (Given in alternate years. Not given in 1921-22).

112. Bank management and foreign exchange.—This is a technical course, treating of the problems of bank organization, bank management, and foreign exchange. Prerequisites: 15, 18, 53, 54, and 111. 3 hours. (Given in alternate years. Not given in 1921-22).

131. Public finance.—Public expenditures, their growth and control; the budget; financial administration; public debts; systems of public revenue and taxation. A study of the theory and practice of taxation. Prerequisites: 15, and 18. 3 hours. (Given in alternate years. Not given in 1920-21).

132. Problems of taxation.—A critical examination of tax systems with particular reference to questions of incidence and of proposed reforms. The system of taxation in New Mexico will be given special consideration. Prerequisites: 15, 18, and 131. 3 hours. (Given in alternate years. Not given in 1920-21).

135. Corporation finance.—Methods of financial management and control of corporations; issue of stocks and bonds; problems of re-organization and liquidation; and the relation of stock and bond holders to the management. Prerequisites: 15 and 18. 3 hours. (Given in alternate years. Not given in 1920-21).

136.—Monopolies and trusts.—A study of industrial combinations, an analysis of the motives for their formation, the sources of their power and the elements of their weakness, the character and extent of any possible social advantage to be derived from them as well as the disadvantages and evils which have followed their growth, the attempts at state and federal regulation, etc. Prerequisites: 15, 18, and 135. 3 hours. (Given in alternate years. Not given in 1920-21).

DEPARTMENT OF EDUCATION.

CHARLES E. HODGIN, Professor.

Major course.—The department does not offer a major course in Education at the present time.

Minor study.—A student electing Education as a minor will be expected to complete 12 hours from the courses offered.

Professional high school teacher's certificate.—Courses 101, 102, and 131, are acceptable toward the requirement in Education for the professional high school teacher's certificate.

101. History of education.—Relation of education to civilization. Survey of education in the Orient. Development of educational ideals in the ancient classical nations, and in Europe from the beginning of Christian education to the present. Study of educational theorists and leaders. 5 hours.

102. Education in America.—European influences which shaped early educational practices in the Colonies. Education during revolutionary and reorganization periods. Study of leading American educators, and educational institutions. 5 hours.

115. New Mexico school law.—Early educational conditions and school laws in New Mexico as a territory. The change of education with statehood. The present school laws and school system. 1 hour.

121. Educational classics.—A study of some of the best educational classics chosen from the writings of great philosophers and educators of ancient and modern times. 1 hour.

131. Principles of education.—Emphasis upon secondary education and its place in the school system. Distinction of elementary and secondary education. Consideration of education as physiological, sociological, and psychological adjustment. Nature and educational possibilities of human beings, as compared with sub-human or animal life. Educational aims, values, and general methods. Adjustment of individual to institutional life. Aspect of social and athletic activities in secondary schools. Discipline through group control. Special high school problems. Vocational and industrial education. Prerequisite, 3 credit hours in General Psychology. 4 hours.

134. Current educational problems.—Designed to acquaint students with current educational thought as appearing in leading journals, periodicals, bulletins, surveys, and reports. Discussion of modern ideas and tendencies in education, and current problems. The changed conception of the function of the school. Recent tendencies in correlation of home work with that of the school. The closer relation of high schools with business concerns. Socializing school centers. Visual education. The modern playground movement. Rural school development. Open air schools. Medical inspection and modern hygienic instruction. Vocational education and guidance. Work of the United States Bureau of Education. Mental measurements. 1 hour.

135. School administration and management.—The fundamental laws that underlie the organization of the school. The different factors to be held in unity. American ideals back of school systems. Adapting courses of study to social needs. The school as a community center. Changed conceptions of the function of the school and reforms in its organization and administration. Health supervision and medical inspection. Management of social activities. Causes of retardation and elimination. 3 hours.

DEPARTMENT OF ELECTRICAL ENGINEERING.

CHARLES EDWARD CAREY, Assistant Professor.

SAMUEL ROSENBACH, Assistant.

1. **Engineering lectures.**—A course designed to give the student an adequate conception of the general field of engineering and of the duties and requirements of the professional engineer. 2 hours per week. 2 credit hours.

101. **Direct current machinery.**—Advanced work in electricity and magnetism. Electric circuits, direct current machinery and instruments. Prerequisite: Physics 52. 3 recitation hours per week. 3 credit hours.

102. **Alternating currents.**—A study of alternating currents and voltages, sine waves, vectors, and elementary alternating current machinery. Prerequisite: E. E. 101. 4 recitation hours per week. 4 credit hours.

103. **Heat power engineering.**—General theory of heat engines; Steam engines, turbines and internal combustion engines. Prerequisites: Physics 51 and 52. 3 recitation hours per week. 3 credit hours.

104. **Heat power engineering.**—A study of the types of engines, boilers, steam turbines and internal combustion engines, their characteristics and applications. Prerequisite: E. E. 103. 3 recitation hours per week. 3 credit hours.

105. **Direct current problems.**—Solution of direct current, magnetic circuits, and direct current machinery calculations. To be taken with E. E. 101. 1 hour per week. 1 credit hour.

106. **Electrical laboratory.**—Experimental work with direct current circuits and direct current machinery. To be taken with or after E. E. 101. 6 laboratory hours per week. 2 credit hours.

108. **Alternating current problems.**—Solution of problems in alternating current circuits and machinery together with elementary transmission line and transformer design. To be taken with E. E. 102. 1 hour per week. 1 credit hour.

110. **Steam laboratory.**—Operation of and testing for mechanical and thermal efficiency of steam and internal combustion engines. Prerequisite: E. E. 103. 3 laboratory hours per week. 1 credit hour.

151. **Alternating current machinery.**—Alternators, motors, converters, regulators and instruments. Prerequisite: E. E. 102. 4 recitations per week. 4 credit hours.

152. **Advanced alternating current machinery.**—Advanced study of special apparatus, rotary converters, induction regulators, induction generators, etc. Prerequisite: E. E. 151. 4 recitation hours per week. 4 credit hours.

153. **Alternating current problems.**—Solution of the more difficult problems arising in the theory of alternating currents. Prerequisite: E. E. 102. 1 hour per week. 1 credit hour.

154. **Electrical laboratory.**—Experimental work with special apparatus, rotary converters, frequency changers, etc. To be taken with E. E. 152. 6 laboratory hours per week. 2 credit hours.

155. **Electrical laboratory.**—Operation and testing of alternating cur-

rent machinery and combinations of direct and alternating current machinery. To be taken with E. E. 151. 6 laboratory hours per week. 2 credit hours.

161, 162. Design of electrical machinery.—Study and design of direct and alternating current machinery; including calculations and drawings. Prerequisite: E. E. 102. 1 lecture and 6 design room hours throughout the year. 3 credit hours per semester.

182. Electrical engineering seminar.—Assigned readings and reports. Study and discussion of current technical literature. Prerequisite: E. E. 151. 1 hour per week. 1 credit hour.

192. Power plant engineering.—A detailed study of standard electric generating and substation equipment, arrangement, and location. Prerequisite: E. E. 102. 3 recitation hours per week. 3 credit hours.

193. Electric railways.—Dynamics of electric train movements and predetermination of curves necessary to selection of proper car and power equipment to make required schedules. Hand, automatic and multiple unit control systems. Alternating current railways, electric locomotives, and electrification of steam roads. Prerequisite: E. E. 102. 3 recitation hours per week. 3 credit hours.

196. Transmission line calculations.—Exact and approximate solutions of transmission problems. Design of transmission lines. Surges and oscillations, standing and traveling waves, and corona. Transmission line construction and protection. Prerequisite: E. E. 151. 2 recitation hours per week. 2 credit hours.

200. Electrical engineering thesis.—The analysis and solution of a satisfactory problem in electrical engineering. Subject to be chosen during the first semester. 3 credit hours.

DEPARTMENT OF ENGLISH.

LEWIS BURTRON HESSLER, Chairman and Professor of English.

ETHEL A. HICKEY, Professor of English and Literature.

M. L. FOX and G. COSULICH, Lecturers in Journalism.

Group requirements.—Beginning with 1921, students must take English 1 and 2, to complete group requirements. Students who entered in 1920 and who have taken English 1 and 2, must take English 43.

Major study.—To complete a major study, candidates must complete 24 credit hours exclusive of courses numbered below 50.

Minor study.—To complete a minor study, candidates must complete 12 hours, exclusive of courses numbered below 50.

Restrictions.—Courses 1 and 2 are prerequisite to all other courses.

Primarily for Undergraduates.

1 and 2. Freshman English.—The principles and practice of composition, together with a study of the classics of English literature. 4 hours. (MISS HICKEY and MR. HESSLER).

3 and 4. Freshman Composition.—The principles and practice of composition. For Engineers. 3 hours. (MR. HESSLER).

43. History of English literature.—A survey of the history of English literature from Elizabethan times to the present day. This course is prerequisite to further work in English. 3 hours. (After 1921-22, combined with 1 and 2).

58. Argumentation and debate.—The theory and practice of argument. Prerequisite: English 1 and 2. 3 hours. (MR. HESSLER).

61. Exposition.—A general course in the analysis and writing of exposition. Adapted to the needs of technical students. Prerequisite: English 1 and 2, or 3 and 4. 3 hours. (MR. HESSLER).

63 or 64. Journalism.—Practical work in news writing. Prerequisite: English 102. 1 hour.

67 and 68. Short story writing.—A course in the writing of the short story. Prerequisite: English 1 and 2. 2 hours. (MISS HICKEY).

77. Elizabethan literature.—Principally for advanced students. The non-dramatic prose and poetry of the Elizabethan period. Prerequisite: English 1, 2, and 43. 2 hours. (MR. HESSLER).

78. The Romantic movement.—The course embraces a review of the beginnings of the Romantic movement and a detailed study of the poetry and prose of the period. Prerequisite: English 1, 2, and 43. 3 hours. (MR. HESSLER).

79. Shakespearean reading.—Prerequisites: English 1, 2, and 43. Candidates admitted only by permission of instructor in charge. 2 hours. (MR. JOHNSON).

81. The Victorian period.—A course in the prose and poetry of the Victorian age. Prerequisite: English 1, 2, and 43. 3 hours. (MISS HICKEY).

82. American literature.—An examination of the influences at work in American literature from Colonial times to the present day. Prerequisites: English 1, 2, and 43. 3 hours. (MR. HESSLER). (Not given 1921-22).

85. The Novel.—A rapid course in the history of the novel with reading of the master novels. Prerequisites: English 1, 2, and 43. 2 hours. (MISS HICKEY).

95 and 96. Masterpieces of Greek literature in English translation.—Prerequisites: English 1 and 2. 2 hours. (MR. MITCHELL).

102. Seminar in criticism.—For advanced undergraduates and graduates. A consideration of the history and theory of criticism, together with an analysis of the principal art forms. Prerequisites: English 1, 2, and 43. 3 hours. (MR. HESSLER).

121. Early English drama.—History and study of the English drama from its origin to the Twentieth Century. Prerequisites: English 1, 2, and 43. 3 hours. (MISS HICKEY). (Not given in 1921-22).

122. Contemporary drama.—Study of European and English drama of the last three decades. Prerequisites: English 1, 2, and 43. 3 hours. (MISS HICKEY). (Not given in 1921-22).

128. The modern novel.—An advanced course in the novel of the nineteenth and twentieth centuries, with particular attention to contem-

porary writers. Prerequisites: English 1, 2, and 43. 3 hours. (MISS HICKEY).

141. **Shakespeare.**—A detailed study of selected plays of Shakespeare. Prerequisite: English 1, 2, and 43. 3 hours. (MISS HICKEY).

144. **Browning.**—A reading and analysis of Browning's chief works. Prerequisites: English 1, 2, and 43. 3 hours. (MISS HICKEY).

150. **History of the English language.**—Modern English in the light of the past history of the language. Prerequisites: English 1, 2, and 43. 3 hours. (MR. HESSLER). (Not given in 1921-22).

DEPARTMENT OF GEOLOGY.

ROBERT W. ELLIS, Professor.

Major study.—Courses 1, 2, 3, 4, 51, 52, or their equivalent, must be taken by major students in this department; but credits in 1, 2, 3, and 4 may not be counted towards fulfilling requirements as to the number of hours to be taken in the major study, except that, at the discretion of the professor in charge of the department, credits in excess of 6 hours may be so counted.

Minor study.—Courses 1 and 2 must be, and courses 51 and 52 should be included in the offerings towards a minor study in this department.

Primarily for Undergraduates.

1. **Physical geology.**—Elementary chemistry and physics should precede. 3 hours.
2. **Historical geology.**—Prerequisite: Geology 1. 3 hours.
3. **Meteorology.**—Weather, weather maps, climate, etc. 2 hours.
4. **Geography of North America.**—Geology 1 should precede. 2 hours.
- 51, 52. **Mineralogy.**—Prerequisite: Elementary chemistry. 2 hours.

For Advanced Undergraduates and Graduates.

101, 102. **Economic geology.**—Building stones, coal, ores, oil, etc. Prerequisites: Geology 1, 2, 51 and 52. 3 hours.

103. **Paleontology.**—Prerequisites: Geology 1 and 2, Biology 1. 3 hours. (Not given in 1921-22).

104. **Petrology.**—Prerequisites: Geology 51 and 52. 3 hours.

105. **New Mexico geology.**—Prerequisites: Geology 1 and 2. 2 hours.

106. **Geologic mapping.**—Prerequisites: Geology 1 and 2 and C. E. 52. 2 hours.

151. **Advanced geology.**—Reading and research in special problems. 2 to 5 hours, either semester.

201. **Research course.**—Credit will be given according to amount of work accomplished.

DEPARTMENT OF GREEK AND LATIN.

LYNN BOAL MITCHELL, Professor.

GREEK.

Group requirements.—Courses 95 and 96 are not accepted towards the requirement in Group I-B.

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 hours. (Not given in 1921-22).

2. **Elementary reading course.**—Xenophon: Anabasis, Books I-III, or the equivalent. 3 hours. (Not given in 1921-22).

12. **Composition and grammar.**—Intended to accompany 2. 1 hour. (Not given in 1921-22).

16. **Scientific Greek.**—Intended to assist students in mastering scientific terminology. Emphasis is placed on etymology and formation of words. 2 hours.

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 one course in English. Same course as English 95. 2 hours.

96. **Greek literature in English translation: prose.**—The rise and development among the Greeks of the writing of history, oratory, philosophy, romance, and literary criticism. Same prerequisite as for 95. 2 hours. Same course as English 96.

LATIN

Group requirements.—Courses up to and including 106 may be counted towards fulfilling requirement of Group I-B.

Major study.—A major study consists of 24 credit hours earned in courses exclusive of 1 and 2.

Minor study.—A minor study consists of 12 credit hours earned in courses exclusive of 1 and 2.

Primarily for Undergraduates.

1. **Beginning Latin.**—This course is for students who have not previously studied Latin, and covers approximately the work completed in one year of high school. 5 hours.

2. **Caesar and composition.**—Selections from Caesar to the amount of four books or their equivalent. Further study of grammar and syntax, but the chief aim of the course is to acquire speed and facility of translation. 5 hours.

21. **Freshman Latin: literature.**—Cicero: de Senectute and Sallust. 3 hours.

22. **Freshman Latin: literature.**—Livy and Horace: Odes and Epodes. 3 hours.

31, 32. **Freshman Latin: composition and grammar.**—Intended to accompany 21 and 22. 1 hour.

51. **Sophomore Latin: literature.**—Selections from Catullus and Pliny the Younger or Tacitus. 3 hours.

52. **Sophomore Latin: literature.**—Two comedies of Plautus and one of Terence. 3 hours.

For Advanced Undergraduates and Graduates.

101, 102, 105, 106. **Advanced Latin.**—Courses in Tacitus, Apuleius, Petronius, Latin hymns, Roman philosophy, and satire, by arrangement, each 3 hours.

137, 138. **Roman political institutions.**—The Roman constitution, contributions of Romans to modern government in such matters as the initiative, referendum, recall, conservation of resources, government of cities and provinces, imperialism, balance of power, etc. Prerequisites: History 12 credit hours. 2 hours. (Not given in 1921-22).

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE.

CHARLES F. COAN, Associate Professor.

HISTORY

Group requirements.—Courses in History are accepted toward fulfillment of the requirement in Group II.

Major study.—Students taking a major in history will be required to complete 24 credit hours in the department, exclusive of 1 and 2.

Minor study.—Students taking a minor in history will be required to complete 12 credit hours in the department, exclusive of 1 and 2.

Advanced work.—Courses are arranged to provide a sound foundation for advanced work in the History of the Arid Southwest.

Primarily for Underclassmen.

1. **History of Europe.**—From the Reformation to the French Revolution. 3 hours.

2. **History of Europe.**—From the French revolution to the present. 3 hours.

51. **European expansion.**—From the Age of Discoveries to the American revolution. 3 hours.

52. **European expansion.**—From the American revolution to the present. 3 hours.

For Upperclassmen and Graduates

101. **History of America.**—From the adoption of the Constitution to the Civil War. 3 hours. (Not given in 1921-22).

102. **History of American.**—From the Civil War to the present. 3 hours. (Not given in 1921-22).
121. **English history.**—From the Roman invasion to the fall of Stuart despotism. 3 hours.
122. **English history.**—From the fall of Stuart despotism to the present. 3 hours.
131. **History of Spain.**—From the Roman invasion to the discovery of America. 3 hours. (Not given in 1921-22).
132. **History of Spain.**—From the discovery of America to the present. 3 hours. (Not given in 1921-22).
- 137, 138. **Roman history.**—Same as Latin 137, 138. 2 hours a week. Dean Mitchell. (Not given in 1921-22).
141. **History of the Arid Southwest.**—From pre-European times to the end of the Spanish period. Two hours. (Not given in 1921-22).
142. **History of the Arid Southwest.**—From the beginning of the American period to the present time. Two hours.
151. **Methods of teaching history.**—For those who expect to teach history. One hour. (Not given in 1921-22).
152. **Methods of teaching history.**—One hour. For those who expect to teach history. (Not given in 1921-22).
161. **Historical criticism and Historiography.**—One hour. (Not given in 1921-22).
162. **Historical criticism and Historiography.**—One hour. (Not given in 1921-22).
171. **Seminar in Western American History.**—Two hours.
172. **Seminar in Western American History.**—Two hours.

POLITICAL SCIENCE

Group requirement.—Courses in Political Science are accepted toward fulfillment of the requirements in Group II.

Major and minor studies.—Not offered at present time.

1. **American government.**—Political theory and national and state government. Three hours.

2. **European governments.**—Three hours.

101. **American diplomacy.**—Two hours. (Not given in 1921-22).

102. **Oriental politics.**—Relations to the European powers and the United States to China and Japan. Two hours. (Not given in 1921-22).

DEPARTMENT OF HOME ECONOMICS.

MRS. WALTER SIMPSON, Professor.

EDNA ROY, Instructor.

Major study.—To complete a major study in Home Economics, students must present credits in courses 11, 12, 53, 54, 61, 62, 102, 105, 106, 127, 132, 135, 181 and 194.

Minor study.—To complete a minor study in Home Economics, stu-

dents must present credits to the total of 12 hours in courses bearing numbers above 50.

Primarily for Undergraduates.

11. Elementary handwork and sewing.—A study is made of primitive forms of industrial work as weaving, crocheting, knitting, and basketry. As a foundation for later courses, all stitches and processes commonly used in sewing are studied and used in making simple articles. Commercial patterns are introduced. Two laboratory periods, and one lecture. 3 hours.

12. Drafting and pattern making.—Patterns are drafted to personal measurements, fitted and used in making undergarments. Prerequisite: 11. Two laboratory periods and one lecture. 3 hours.

53. Foods and cookery.—Food study in relation to source, composition, nutritive value, cost, and proper combinations. Practical work in beverages, cereals, vegetables, candy, eggs, milk, cheese, and meat. Prerequisite: Chemistry 1. One lecture and two laboratory periods. 3 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, and Chemistry 2. Two laboratory periods and one lecture. 3 hours.

61. Elementary dressmaking.—Study of materials as to cost, suitability, durability. Drafting, designing, working with silk and wool materials. Prerequisite: 12. 2 laboratory periods. 2 hours.

62. Advanced dressmaking.—The history of costume. A plain silk dress and a thin dress are cut and made to cost, complete, less than a certain amount. Prerequisite: 61. Two laboratory periods. 2 hours.

For Advanced Undergraduates.

102. Hygiene and home nursing.—Personal and domestic hygiene, the sick room, care of patient, contagion, disinfection, bandaging. 2 hours.

105. Foods.—Food preservation, food laws, canning and advanced cookery. Prerequisite: 54 and Chemistry of foods. One lecture and two laboratory periods. 3 hours.

106. Foods.—Review of former courses, special study of the hundred calorie portion, the demonstration lecture, its purposes and results; method of presentation, equipment necessary. Prerequisite: 105. Two laboratory periods and one lecture. 3 hours.

127. Dietetics.—Dietary standards, relation of food to health, food requirements dependent on age, occupation, and health. Prerequisite: 106. 4 hours.

132. House management and sanitation.—Care of the house, household accounts, ventilation, water supply, heating, lighting, site and surroundings, the home as a social center. Prerequisite: 106. 3 hours (Not given in 1920-21).

135 Textile.—Primitive and present day methods of manufacturing various kinds of cloth, the hygiene of clothing, planning of wardrobe for

different members of family, special attention to layette. Prerequisite: 62. 3 hours. (Not given in 1920-21.)

181. **Serving of meals.**—Actual experience in selecting and purchasing food not to exceed a certain sum. Cooking and serving of daily meals and meals for special occasions. Prerequisites: 106 and 127. One lecture hour, six practice hours a week. 4 hours.

185. **Embroidery.**—Forms of decoration of clothing and articles of the home, knitting, crocheting, tatting, French embroidery, Swedish darning, weaving. Prerequisite: 62. Two laboratory periods. 2 hours.

194. **Teachers' course.**—Principles underlying curricula, methods of presentation, planning and equipping laboratories. Prerequisites: 106 and 62. 4 hours. (Not given in 1920-21.)

DEPARTMENT OF LIBRARY SCIENCE.

WILMA LOY SHELTON, Assistant Professor.

1. **Library Science.**—Cataloging, classification, and arrangement of books in library, together with a consideration of the more generally used reference books. 1 period a week. 1 hour.

DEPARTMENT OF MATHEMATICS.

CHARLES ANTHONY BARNHART, Professor.

FRANK C. OGG, Assistant.

Group requirements.—Students in the College of Arts and Sciences may elect in the first two years from courses 1, 2, 11, 13 and 14, courses in which a maximum of eight credit hours may be earned toward the fulfillment of the requirements of Group III.

Major study.—A major in mathematics consists of a minimum of courses 14, 51, 52, 53, 54, 131, 132, 141 and 142.

Minor study.—A minor in mathematics consists of a minimum of one course of numbers above 100 in addition to courses 14, 51, 52, 53, and 54.

Primarily for Undergraduates.

1. **Algebra.**—The more advanced topics of elementary algebra in addition to the work of mathematics 13. Prerequisite: Entrance algebra, 1 unit; plane geometry, 1 unit. 5 hours.

2. **Solid geometry.**—Prerequisite: Entrance algebra, 1 unit; plane geometry, 1 unit. 3 hours.

(Note:—The curriculum of the College of Engineering assumes that the student offers for entrance: algebra, $1\frac{1}{2}$ units; plane geometry, 1 unit; solid geometry, $\frac{1}{2}$ unit; but requires for admission: algebra, 1 unit; plane geometry, 1 unit. Any student offering the minimum entrance units in mathematics must pursue the regular engineering curriculum for the first year with the exception that he must register in mathematics 1 and 11 for the first semester and mathematics 2 and 14 for the second semester, and earn college credit in each.)

11. **Plane trigonometry.**—Prerequisite: Entrance algebra, 1 unit; plane geometry, 1 unit. 3 hours.

12. **Spherical trigonometry.**—This course will be offered only upon the request of 5 or more students. Prerequisite: Mathematics 11. 1 hour.

13. **College algebra.**—Prerequisite: Entrance algebra, 1½ units; plane geometry, 1 unit. 3 hours.

14. **Plane analytic geometry.**—Prerequisite: Mathematics 2, 11 and 13. 5 hours.

51, 52. **Differential and integral calculus.**—Prerequisite: Mathematics 14. 4 hours each.

53. **Solid analytic geometry.**—Prerequisite: Mathematics 14. 2 hours.

54. **Theory of determinants.**—Prerequisite: Mathematics 51. 2 hours.

For Advanced Undergraduates and Graduates.

131. **Method of least squares.**—Prerequisite: Mathematics 52. 2 hours.

132. **Averages and mathematics of investment.**—Prerequisite; Mathematics 11, 13; junior standing. 3 hours.

133. **Advanced calculus.**—(Not given in 1921-22.). Prerequisite: Mathematics 52. 3 hours..

134. **Differential equations.**—(Not given in 1921-22). Prerequisite: Mathematics 52. 3 hours.

141. **History of mathematics.**—Prerequisite: Mathematics 52, 2 hours.

142. **Teachers' course.**—Prerequisite: Mathematics 141. 2 years.

143. **Theory of equations.**—(Not given in 1922-23). Prerequisite: Mathematics 52 and 54. 3 hours.

144. **Advanced solid analytic geometry.**—(Not given in 1922-23). Prerequisite: Mathematics 52 and 54. 3 hours.

181, 182. **Seminar.**—Prerequisite: Mathematics 133 and 134 (or Mathematics 143 and 144).).

(Note:—In any year one graduate course in either projective geometry, theory of functions of a complex variable, theory of functions of a real variable, theory of statistics, or actuarial theory will be offered upon demand if the schedule of the department permits.)

DEPARTMENT OF MUSIC.

JOHN LUKKEN, Associate Professor of Voice and Theory.

MRS. D. W.FAW, Instructor in Piano.

LOUISE M. NICHOLS, Instructor in Piano.

Major study.—A major study includes one course in each of the following: History of Music, Appreciation of Music, Theory of Music, and sufficient credits in Piano or Voice to make a total of 24 hours.

Miscellaneous.—Students of voice or piano are required to take simultaneously Chorus, Orchestra, or Ensemble Singing to the amount of one credit hour. Each student of Voice or Piano is required to give two successful performances in recital each academic year.

Fees.—Additional fees are charged for instruction in Piano. No fees, beyond what are charged all regular students, are charged for instruction in History of Music, Appreciation of Music, Theory of Music, Chorus, Ensemble Singing, and Orchestra. A limited number of regular students enrolled in Chorus or Ensemble Singing may be given private instruction in Voice without additional charge. This privilege is not extended to special students.

PIANO.

Prerequisites.—Requirements for entering course 1 are the ability to play correctly, with proper style and phrasing, major scales in all keys in octaves and Mozart: First Sonata; or Loeschorn: Op. 52; or the equivalent.

1, 2. Freshman course.—Exercises for independence of fingers; scales in thirds and sixths, parallel and contrary motion; arpeggios; chord playing; octaves begun. 12 studies from Loeschorn: Op. 66; Heller: Op. 46 and 47; Czerny: Op. 636 and 299; and 12 pieces by standard classical and modern composers. 1 and 2 lessons a week, earning 2 or 4 credit hours, both semesters.

51, 52. Sophomore course.—Octaves continued; scales in double thirds; special technical exercises suited to the student. 10 studies selected from Cramer: Etudes; Kullak: Octave School; Bach: Easy Preludes and Fugues; 10 sonatas and pieces by Beethoven, Mozart, Mendelssohn, Grieg, and others. 1 or 2 lessons a week, earning 2 or 4 credit hours, both semesters.

101, 102. Junior course.—Advanced technical work, greater velocity in scales and arpeggios. 8 studies from Clementi: Gradus ad Parnassum; Bach: Two and Three Part Inventions; Phillip: School of Double Notes. 8 sonatas and pieces by Beethoven, Weber, Henselt, Moszkowski, and modern composers. 1 or 2 lessons a week, earning 2 or 4 credit hours, both semesters.

151, 152. Senior course.—Special technical exercises. 6 studies from Bach: Well Tempered Clavichord; Chopin: Etudes; Phillip: School of Octaves. 6 sonatas and concert pieces by Beethoven, Schumann, Chopin, Liszt, MacDowell, and others. 1 or 2 lessons a week, earning 2 or 4 credit hours, both semesters.

PIPE ORGAN.

MRS. D. W. FAW, Instructor.

Prerequisites.—Elementary knowledge of Piano and the completion of course in Theory of Music are required for admission to courses in Pipe Organ.

VOICE.

JOHN LUKKEN, Associate Professor.

1, 2. Freshman course.—Tone production, exercises for the psychological influences on tone making and breathing, characteristic ear work and exercises to meet the individual needs of the student. One or two lessons a week, earning 2 or 4 credit hours, both semesters.

51, 52. Sophomore course.—Continuation of work of preceding course, exercises and songs for the development of facile tone production and general musicianship. Lutgen; No. 1; Concone, Spicker. One or two lessons a week, earning 2 or 4 credit hours, both semesters.

101, 102. Junior course.—Exercises and songs for style. Lutgen: Operatic Exercises, No. II; Concone: Exercises. Recital and ensemble work. One or two lessons a week, earning 2 or 4 credit hours, both semesters.

151, 152. Senior course.—Advanced exercises, intended to perfect a more free and instrumental style. Artistic interpretation of songs of superior quality. Recital and ensemble work. One or two lessons a week, earning 2 or 4 credit hours, both semesters.

CHORUS AND ENSEMBLE MUSIC.

JOHN LUKKEN, Associate Professor.

The following choruses are organized each year: Men's, Women's, and Mixed Chorus. Credit is allowed at the rate of one-half credit hour for each rehearsal. An orchestra is organized every year, when possible. Credit is allowed on the same basis as for chorus.

DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY.

J. S. LANDERS, Professor.

PHILOSOPHY.

Major study.—No major study is offered in this subject at present.

Minor study.—Any course in the department will be accepted towards requirements of a minor study.

61. Outline of philosophy.—A preliminary survey of the essential philosophical problems, and of the principal theories arising out of the endeavor to gain a unified view of the world. 3 hours. (Not given in 1921-22).

101, 102. Ethics.—A study of the facts and theories of morality appearing in the individual and in society, from the point of view of their development, and their practical application to the affairs of private life and to the duties of citizenship in a democracy. 2 hours.

111, 112. History of philosophy.—A systematic study of the stages of reflective thinking upon the questions of the world-order and human life, beginning with the most naive primitive conceptions, through Greek speculation and the succeeding periods of the rise of the modern doctrine of evolution and its effect upon present-day thinking. 3 hours.

161, 162. Introduction of philosophy.—A critical and constructive study of the principal types of philosophic thought, noting the application of the leading hypotheses to science, religion, ethics, government. (Not given in 1921-22).

PSYCHOLOGY.

Major and minor studies.—Any course in the department will be accepted towards requirements of major or minor study.

51, 52. General psychology.—An introductory course designed as an

outline study of the subject, including the elements of descriptive, physiological, comparative, and genetic psychology; and dealing with the physical accompaniments of mental life and the fundamental facts of normal adult human consciousness and behavior. 3 hours.

61, 62. Experimental psychology.—A laboratory course in which the student carries on a series of essential psychological experiments, giving training in the methods of introspection and leading to a first-hand knowledge of the facts of conscious mental life. 2 hours.

For Advanced Undergraduates and Graduates.

81. Comparative psychology.—The genesis and evolution of consciousness through the animal realm, including the evolution of animal intelligence and results of experimentation and research upon animal behavior; and the tracing of the psychic evolution of the race and the individual. 3 hours.

82. The psychology of advertising and the principles of scientific management.—A study of the psychological principles applicable to advertising and commercial life, involving a consideration of economic, physical and artistic factors that enter into the construction of an advertisement. The principles fundamental to the harmonization of the chief agencies in industry: Capital, Labor, the Consumer. 3 hours.

101. Social psychology.—The social nature of the individual and the essential effects of the interaction of individuals and the group. The social consciousness as displayed in various economic, political and social groups. 2 hours.

102. Educational psychology.—A practical study of conscious states, attention, interest, habit, fatigue, play, and the various fundamentals of the learning process. 3 hours.

151. Advanced psychology. A systematic study of the most essential problems of psychic life, involving their metaphysical bearings and modern interpretations. 2 hours. (Not given in 1921-22).

152. Modern psychological problems.—A seminar for advanced students. Typical subjects: Intellectual measurements, vocational abilities, employment psychology, etc. 2 hours. (Not given in 1921-22).

PHYSICAL EDUCATION.

(For courses given in Physical Education, see pages 76-77.)

PHYSICS.

ROBERT S. ROCKWOOD, Professor.

SAMUEL ROSENBAUGH, Assistant.

Major Study:—Courses above 1 and 2 are accepted towards this requirement.

Minor Study:—Courses above 1 and 2 are accepted toward this requirement.

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. **General physics.**—Intended to give a general knowledge of physics. Open to all students who do not offer physics as an entrance requirement. Lecture and problems 4 hours, laboratory, 1 period per week. 5 hours.

2. **General physics.**—A continuation of physics 1. Lectures and problems 4 hours, laboratory, 1 period per week. 5 hours.

51. **Advanced general physics.**—Mechanics and heat. Lectures and recitations, 3 hours per week. Prerequisite: 1, 2, and trigonometry. 3 hours.

52. **Advanced general physics.**—Magnetism, electricity, sound and light. Lectures and recitations, 3 hours per week. Prerequisite: 51. 3 hours.

53. **Laboratory physics.**—Mechanics and heat. To accompany Physics 51. Discussion and problems, 1 hour, laboratory, 1 period per week. 1 hour.

54. **Laboratory physics.**—Magnetism, electricity, sound and light. To accompany Physics 52. Discussion and problems, 1 hour, laboratory, 1 period per week. 1 hour.

62. **Household physics.**—Intended for students in home economics. Lectures and recitations, 3 hours per week. 3 hours.

111. **Electricity and magnetism.**—Lecture and recitation, 2 hours per week. Prerequisites: 51, 52 and calculus. 2 hours credit.

113. **Electrical measurements.**—To accompany Physics 111. Laboratory 2 periods per week. 2 hours.

131. **History of Physics.**—Lectures 2 hours per week. Prerequisite: 51 and 52. 2 hours.

152. **Advanced light.**—Lecture and recitations, 2 hours per week. Prerequisites: 51, 52 and calculus. 2 hours. (Given in 1922-23, alternating with Physics 162).

154. **Light laboratory.**—To accompany Physics 152. Laboratory, 2 periods per week. 2 hours.

162. **Advanced heat.**—Lectures and recitations, 2 hours per week. Prerequisites: 51, 52 and calculus. 2 hours. (Given in 1922-23, alternating with Physics 152-154).

164. **Heat laboratory.**—To accompany Physics 162. Laboratory, 2 periods per week. 2 hours.

DEPARTMENT OF PRACTICAL MECHANICS.

THOMAS T. EYRE, Professor.

Group requirements.—Courses in this department are open to all students. Courses 1, 3, 6, 11, and 16 are required in the Curricula in Chemical, Civil and Electrical Engineering; and courses 1, 3, 11 and 16 in the Curriculum in Geological Engineering.

Equipment.—Shop equipment consists of twenty-four wood working benches with complete sets of tools; five 12-inch wood turning lathes with full equipment; one circular saw table with attachments; one grindstone; a considerable number of special woodworking tools; one 6-inch

engine lathe; four 13-inch engine lathes, one 14-inch engine lathe, and one 15-inch engine lathe; milling and key-setting attachments for lathe; Dunmore grinder for lathe; one 9-inch sensitive drill press; one 20-inch backgeared drill press; one milling machine; two machine-shop benches with sets of hand tools. Drawing room equipment consists of twenty-seven drawing desks and three cabinets for keeping work on file. Students furnish their own instruments, T-square, triangles, etc.

Primarily for Undergraduates.

1. **Elementary wood shop.**—Bench and lathe work in wood. Practice in the interpretation of working drawings. Students who have had in their preparatory work an equivalent amount of wood work of acceptable quality may omit this course. 6 hours per week. 2 credit hours.

3. **Advanced wood shop.**—Patternmaking and cabinet work. Prerequisite: P. M. 1 or its equivalent. 6 hours per week. 2 credit hours.

6. **Machine shop.**—Bench and machine work in metals. 3 hours per week. 2 credit hours.

11. **General engineering drawing.**—Freehand and mechanical lettering. The production of working drawings and practice in the common conventions used in making mechanical drawings. 6 hours per week. 2 credit hours.

16. **Descriptive geometry.**—Orthographic projection. The solution of practical problems involving the intersection and development of surfaces. The making of isometric, oblique and perspective drawings. Prerequisites: Math. 2 and P. M. 11. 6 hours per week. 2 credit hours.

DEPARTMENT OF ROMANCE LANGUAGES AND LITERATURES.

HANNIBAL IBARRA Y ROJAS, Assistant Professor.

ANITA OSUNA, Assistant.

Entrance requirements.—Students who enter with two units of French or Spanish may enroll in French 51 or Spanish 51, and students who enter with four units may enroll in French 101 or Spanish 101.

Major study.—To complete a major course in Romance Languages and Literatures, it is necessary for the student to earn at least 24 credit hours in one language and literature (French or Spanish) above courses 1 and 2, which may not be counted towards his major course.

Minor study.—A minor study in Romance Languages and Literatures consists of a minimum of 12 credit hours in one language and literature (French or Spanish), not counting courses 1 and 2.

FRENCH.

Primarily for Undergraduates.

1. **Elementary French.**—Pronunciation, grammar, conversation, reading, phonetics, and composition. 5 hours a week, earning 4 credit hours.

2. **Elementary French.**—Continuation of French 1.

51. **Intermediate French.**—Reading from modern French prose, from

such authors as Labiche, Daudet, Dumas, de Maupassant, Bazin, France, Balzac, Musset, Flaubert. Composition based upon assigned topics. Conversation. 3 hours a week.

52. **Intermediate French.**—Continuation of French 51.

For Advanced Undergraduates and Graduates.

101. **Seventeenth century classics.**—Lectures, readings and reports on such authors as Corneille, Racine, La Fontaine, La Bruyere and others.—3 hours a week.

102. **Romantic novel.**—Reading, composition, and reports upon assigned topics on authors as Chateaubriand, Sand, Merimee, Flaubert, and Daudet. 3 hours a week.

103. **Eighteenth century thought.**—Montesquien, Voltaire, Rousseau, and Diderot. 3 hours a week. Omitted in 1921-22.

104. **Nineteenth century poetry.**—Lectures, readings and reports on Hugo, Musset, Vigny, Leconte de Lisle, Prudhomme, Verlaine. Short biographies in French by members of the class. 3 hours a week. (Omitted in 1921-22.)

151. **General study of the works of Balzac and Hugo.**—Readings and reports. 2 hours a week.

152. **History of French literature.**—2 hours a week.

153. **Moliere.**—His life and dramatic works. Reading in class of several plays. 2 hours a week.

154. **The Sixteenth century in France.**—The French literary renaissance. The influence of John Calvin's Institution Chretienne upon Christian theology. The philosophy presented by Rabelais. Montaigne's Essays. 2 hours a week.

SPANISH.

Primarily for Undergraduates.

1. **Elementary Spanish.**—Pronunciation, grammar, conversation, reading, and composition. 5 hours a week, earning 4 credit hours.

2. **Elementary Spanish.**—Continuation of Spanish 1.

51. **Intermediate Spanish.**—Reading, lectures, and composition from European authors. Valdes, Alarcon, Valera, Pereda, Ibañez, Galdos. 3 hours a week.

52. **Intermediate Spanish.**—Reading, lectures, and composition from Latin-American authors. Isaacs, Marmol, Dario, Nervo, Chocano, and Ugarte. 3 hours a week.

80. **Commercial Spanish.**—Reading from Spanish commercial texts, letter writing, drawing of invoices and other commercial documents. Commercial correspondence. 3 hours a week.

101. **Nineteenth century drama.**—Reading, composition, and reports, Larra, Echegaray, Tamayo, and Baus. 3 hours a week.

102. **Survey of Spanish literature.**—Lectures, readings, and reports. 3 hours a week.

103. **Spanish poetry of the nineteenth century.**—A survey of Span-

ish and Spanish-American poets, since the middle of the fifteenth century. Manrique, Garcilaso de la Vega, Luis de Leon, Luis de Granada, Gongora, Lope, Epronceda, Campoamor, Beequer, Dario, Chocano, Arguello, and Flores. 3 hours a week (Not given in 1921-22).

104. **Contemporary drama.**—Benavente, Sierra, Nuñez de Arce, Lopez de Ayala, Echegaray, los Quintero. 3 hours a week. (Omitted 1921-22).

105. **Spanish teachers' grammar.**—Analogia, Sintaxis, Prosodia, Ortografia. Gramatica de la Lengua Castellana por la Real Academia Española. Pupils ought to be able to understand and express themselves orally and in writing in Spanish. 3 hours a week.

152. **The classical drama.**—Readings, lectures, and reports. Lope de Vega, Tirso de Molina, and Calderon. 3 hours a week. (Omitted in 1920-1921).

154. **Teachers' training course.**—Phonetics, survey of textbooks, bibliography, the psychology of language, practice teaching. 3 hours a week.

DIRECTORY OF STUDENTS

January 1st, 1920-December 31st, 1920.

Explanation of symbols.—After each name is given the College or School in which the student has registered. A & S—College of Arts and Sciences; Cor—Correspondence; Eng—College of Engineering; Grad—Graduate School; Spl—Special. This list contains the students registered during the calendar year, but on account of the change from the quarter to the semester system indicates the number of semester credit hours earned by the close of the first semester, 1920-1921.

Name and Address	Division	Hours of Credit
Abrams, Esther, Aztec, N. M.....	A & S	23.9
Albers, Robert, J., Bendena, Kans.....	A & S	78.5
Alderman, Helen, Albuquerque.....	A & S	2
Allard, Dorothy, Albuquerque.....	A & S	2
Alexander, Lucie Belle, Cairo, Ill.....	Cor	
Alwert, E. G., Denver, Colo.....	Eng	49.7
Angle, Katherine, Albuquerque.....	A & S	102.6
Angle, Richard, Albuquerque.....	A & S	16.8
Armerding, Carl, Albuquerque.....	Spl	7
Arnot, Elizabeth, Albuquerque.....	A & S	127
Bacon, William, Albuquerque.....	A & S	18
Barton, Belle, Albuquerque.....	A & S	35
Beahm, Samuel, Albuquerque.....	Grad	
Bear, Frances, Roswell.....	A & S	74
Beckman, Gail, Albuquerque.....	A & S	16
Beene, Mary, Ft. Sumner, N. M.....	Spl	
Berger, Walter, Albuquerque.....	A & S	47
Bernhardt, Clifford, Santa Rosa.....	A & S	43
Bevan, Bruce, El Paso, Tex.....	Spl	6.5
Boldt, Chester, Albuquerque.....	A & S	122
Boldt, Leslie, Albuquerque.....	A & S	72.7
Booker, Herald, Dewey, Okla.....	Eng	68.5
Bower, Chalmers, Alamogordo, N. M.....	Eng	119
Boyd, Frank, White City, Kans.....	Eng	28
Bramlett, Forrest T., Portales, N. M.....	Eng	20
Brandebury, Harold E., Albuquerque.....	Eng	17.3
Branson, Fay, Des Moines, N. M.....	A & S	32.5
Breeden, Beulah, Lenora, Kans.....	A & S	89.2
Breeden, Esta, Lenora, Kans.....	A & S	
Brenneman, Otis, Roswell.....	A & S	13
Brooks, Margaret, Cimarron, N. M.....	A & S	28
Brooks, Ralph, Taos, N. M.....	Eng	37.1
Brorain, Mary, Albuquerque.....	A & S	130.8
Brown, Arthur F., Raton.....	Eng	45
Brown, Helen, Santa Fe.....	A & S	123
Brown, H. H., Troy, Tenn.....	Cor	

Name and Address	Division	Hours of Credit
Brown, R. R., Troy, Tenn.....	Cor	
Bryan, Elmer, Roswell.....	Eng	16.8
Bryan, George S., Albuquerque.....	A & S	43.9
Bursey, Joseph A., Albuquerque.....	A & S	10.5
Bursum, Claire, Socorro.....	A & S	85.7
Burt, Edwin, Berkeley, Calif.....	A & S	36
Burton, Lorena K., Albuquerque.....	A & S	42
Caldwell, Charles, Albuquerque.....	A & S	85.2
Calkins, Thomas V., Albuquerque.....	A & S	71
Cameron, Dorothy, Albuquerque.....	A & S	39.1
Cameron, Eleanor, Albuquerque.....	A & S	82
Candelaria, Joseph, Albuquerque.....	A & S	50
Carlock, Adelia, Mrs., Albuquerque.....	Spl	
Carpenter, Charles Barrie, Ontario, Can.....	A & S	6
Cartwright, Robert, Cimarron, N. M.....	A & S	45.8
Cassidy, Frank C., Albuquerque.....	A & S	47
Cassidy, M. F., Albuquerque.....	A & S	72.5
Chancellor, Margaret, New Hope, N. M.....	A & S	15
Chavez, Manuelita, Albuquerque.....	A & S	
Chess, Flora, Albuquerque.....	A & S	126.2
Cleaveland, Loraine, Berkeley, Calif.....	A & S	10
Cobb, Daphne, Albuquerque.....	A & S	28
Collins, William, Casa Grande, Ariz.....	A & S	39.4
Colwell, D. E., Texico, N. M.....	Eng	36
Conner, Isabel, Dawson, N. M.....	A & S	8.3
Conner, Robert W., Roswell.....	A & S	15
Connor, George W., Albuquerque.....	Spl	
Cooper, Cecil, Albuquerque.....	Eng	18
Craig, Reginald S., Los Angeles, Calif.....	Eng	140.5
Crawford, Mrs. Dorothy, Albuquerque.....	A & S	154
Crawford, J. M., Ashland, Miss.....	A & S	15.5
Crawford, Laura, Roswell.....	A & S	2.9
Cristy, Anne, Albuquerque.....	A & S	129
Cristy, Edward, Albuquerque.....	A & S	123.6
Culpepper, Charles, Carlsbad.....	A & S	42.9
Danfelser, Lee, Roswell.....	A & S	9
Darrow, Helen, Trinidad, Colo.....	A & S	90
Davenport, Milton, Woodbury, Tenn.....	Spl	24
Davis, Cecile, Albuquerque.....	Spl	
Davis, Irene E., Albuquerque.....	A & S	109.5
Davis, Pauline, Albuquerque.....	A & S	12
Davis, Robert W., Geronimo, Ariz.....	Eng	59.6
Dean, Eva, Denver, Colo.....	A & S	15
Dearing, Catherine, Albuquerque.....	A & S	19
Dixon, Wenonah, Albuquerque.....	A & S	107.5
Dow, Laurence, Colmor, N. M.....	Eng	14
Duncan, Annie Lee, University, Miss.....	Grad	
Dungan, Chester, Roswell.....	Eng	2
Dykes, Elsie Ruth, Tucumcari.....	A & S	34.3
Elder, James K., Albuquerque.....	Eng	13

Name and Address	Division	Hours of Credit
Eldodt, Joseph, Chamita.....	Eng	121.9
Erie, Catherine, Denton, Mont.....	A & S	63
Espinosa, Pepita, Albuquerque.....	A & S	5.8
Fairly, Nora, Portales.....	A & S	88.5
Fallis, Helen, Albuquerque.....	A & S	7
Faw, Howell, Albuquerque.....	A & S	36.4
Fee, Irene, Albuquerque.....	A & S	36.4
Ferguson, Iva, Albuquerque.....	A & S	109
Ferguson, Maxwell, Albuquerque.....	Eng	52.8
Ferguson, William, Albuquerque.....	A & S	122
Fernstrom, John, Topeka, Kans.....	A & S	33
Fetzer, Clair, Alamogordo.....	Eng	113
Fleischer, Juliet, Albuquerque.....	A & S	15
Fleming, Katherine, Tarpon Springs, Fla.....	Grad	
Foraker, Burch, Albuquerque.....	Eng	75.8
Frasier, Pearl, Alamogordo.....	A & S	29
Gabriel, Rose, Niagara Falls, N. Y.....	Spl	
Gallagher, Clifford, Texico, N. M.....	Eng	65.4
Gass, Kenneth, Albuquerque.....	Eng	44.6
Gentry, George, Luna.....	A & S	49.6
Georges, Frank, Albuquerque.....	Eng	60.7
Gerhardt, Charles, Puerta de Luna.....	Eng	25
Gerhardt, Earl, Tucumcari.....	A & S	94.4
Gerhardt, Emma, Tucumcari.....	A & S	15.5
Gerpheide, Bennie, Albuquerque.....	A & S	7.9
Gerpheide, Louis, Albuquerque.....	A & S	42.7
Gibbs, Madge, Arlington Heights, Ill.....	A & S	4
Gilbert, Roy, Albuquerque.....	A & S	33.5
Gilbert, Walter, Albuquerque.....	Eng	15.5
Gilliam, Samuel H., Kephart, N. M.....	Eng	12
Gilmore, John, Albuquerque.....	Eng	17
Giomi, John, Albuquerque.....	A & S	6
Goetz, Helen, Albuquerque.....	A & S	116
Goodart, Grace, Roswell.....	A & S	32
Goodrum, John, Tucumcari.....	Spl	
Gott, Margaret, Henrietta, Mo.....	A & S	41
Gould, Alice, Albuquerque.....	A & S	24
Gould, Ralf, Albuquerque.....	A & S	73
Graham, Hugh, Albuquerque.....	A & S	36.7
Grantham, Everitt, Carlsbad.....	A & S	9.8
Gray, Fred, Hot Springs, N. M.....	Eng	64
Greenleaf, Frank, Albuquerque.....	Eng	77.8
Grigsby, Gwyndolyn, Albuquerque.....	A & S	46
Grunsfeld, Clarence, Albuquerque.....	A & S	6.7
Guley, Blanche, Colorado Springs, Colo.....	A & S	74.8
Hale, Wm., Roswell.....	A & S	9.9
Hall, Mrs. Alice, Albuquerque.....	Spl	.5
Hamm, Atha, Albuquerque.....	A & S	47
Hammond, Ernest, Albuquerque.....	A & S	125.8
Hand, Edna, Alton, Kans.....	A & S	15

Name and Address	Division	Hours of Credit
Hanger, Bruce, Albuquerque.....	A & S	10
Hardeman, Margaret, Albuquerque.....	A & S	39.5
Harlow, Clifton, Eugene, Ore.....	Spl	
Harmon, Oscar, Mount Vernon, Ia.....	A & S	79.6
Harrington, Jessie, Santa Fe.....	A & S	5
Harris, Jackson, Albuquerque.....	Spl	10.6
Hart, Mayme, Lovington.....	A & S	111.5
Hayes, John Pope, Roswell.....	A & S	40
Heacock, William, Albuquerque.....	Eng	10
Heflin, Ruth, Albuquerque.....	A & S	10
Hempstead, Maynard, Topeka, Kans.....	A & S	9.3
Henderson, Bernice, Hot Springs, Ark.....	A & S	70
Herby, Ethel, Albuquerque.....	A & S	47.3
Herby, Vera, Albuquerque.....	A & S	10.8
Hernandez, Ralph, Albuquerque.....	A & S	74
Hernandez, Walter, Albuquerque.....	A & S	7.3
Heslet, Guy, Albuquerque.....	A & S	116
Hesselden, Louis, Albuquerque.....	Eng	12.8
Hill, Elizabeth, Kansas City, Mo.....	A & S	23
Hillyer, Edna, Albuquerque.....	A & S	39.5
Hite, George, East Las Vegas.....	A & S	9.4
Hittson, Charles, Tucumcari.....	A & S	60
Holderness, Thomas, Fordyce, Ark.....	A & S	46
Hopewell, Robert, Albuquerque.....	A & S	88.4
Hopewell, Willard, Albuquerque.....	A & S	57.9
Howden, Douglas F., Albuquerque.....	A & S	87.7
Huffine, Clarence, Raton.....	Eng	64
Huffstetler, Irl, Maryville, Tenn.....	Eng	5
Hughes, Thomas, Albuquerque.....	A & S	15
Hunt, Harold, Raton.....	A & S	14
Hyder, Latif, Albuquerque.....	A & S	
Jackson, Helen, Aztec, N. M.....	A & S	33
Jackson, Myra, Alamogordo.....	A & S	37
Jahn, Violet, Morrellton, Mo.....	A & S	60.6
Jenkins, S. E., Albuquerque.....	Spl	
Johnson, Leonora, Lovington.....	A & S	86
Jones, Pauline, Albuquerque.....	A & S	49
Joyner, Mildred, Roswell.....	A & S	12
Keinath, Harold, Artesia.....	A & S	60.7
Keleher, Katherine, Albuquerque.....	A & S	126.6
Kellam, Lloyd, Albuquerque.....	A & S	62.9
Kiech, Veon, Albuquerque.....	A & S	12.5
Kinsinger, Evelyn, Roswell.....	A & S	21.6
Kiss, G. J., San Bernardino, Calif.....	A & S	69.4
Ladinsky, William, Brooklyn, N. Y.....	Spl	
Latamore, Eunice, Raton.....	A & S	122.2
Lee, Margaret, Albuquerque.....	A & S	59
Lent, Mary, Chicago, Ill.....	Spl	
Lighton, Edward, Albuquerque.....	Eng	81
Lindsey, Helen, Portales.....	A & S	65

Name and Address	Division	Hours of Credit
Little, Clinton, Albuquerque.....	Spl	
Long, Menefee, Portales.....	Eng	15
Lovitt, Lawrence, Albuquerque.....	Eng	10
Luckey, Neva, Brazeau, Mo.....	A & S	5.3
Maharam, Edythe, Albuquerque.....	A & S	13.9
Makin, Lucille, Roswell.....	A & S	51
Malcolm, Florence, Oakland, Calif.....	Spl	32
Malkus, Hubert, Albuquerque.....	Spl	
Mann, Claud, Albuquerque.....	A & S	17
Mann, Grant, Albuquerque.....	A & S	
Mapes, Edward, Roswell.....	A & S	16
Marshall, Flora, Albuquerque.....	A & S	36.6
Martin, George, Gallup.....	A & S	41.3
Masten, Alfred, Springer.....	A & S	123
Masten, Julia, Springer.....	A & S	40.6
Maxwell, Loyal, Flat Rock, Ill.....	Spl	
Mayne, Norman, Albuquerque.....	A & S	95.6
Meyers, John, Albuquerque.....	A & S	60.3
Meyers, Ralph, Albuquerque.....	Eng	128.6
Miller, Edna, Hagerman.....	A & S	11.6
Miller, Floyd, Albuquerque.....	A & S	35
Miller, Victor, Hagerman.....	Eng	69.9
Mills, Mayme, Albuquerque.....	A & S	29
Mize, Mary, Carlsbad.....	A & S	16
Moore, Horace, Albuquerque.....	A & S	14
Morgan, Edward, Clovis.....	Eng	35.8
Morris, Clyde, Albuquerque.....	A & S	129
Morris, Cola R., Albuquerque.....	A & S	28
Morris, Mrs. Daisy, Albuquerque.....	A & S	108
Morris, Hazel, Farmington.....	A & S	17
Morrisette, Betty, El Paso, Tex.....	A & S	10.6
Mosby, Edward, Memphis, Tenn.....	Eng	
Mosher, Edith, Centerville, Mich.....	Spl	4
Mosher, Marian, Albuquerque.....	A & S	
Murphy, Thomas, Raton.....	A & S	18.6
MacArthur, Archibald, Albuquerque.....	A & S	31
MacArthur, Helen, Albuquerque.....	A & S	47.6
McClure, D. L., Albuquerque.....	Eng	50.5
McDowell, Katherine, Albuquerque.....	A & S	77.1
McGinnis, Marjorie, Tarkio, Mo.....	Grad	
McGuire, Mary L., Albuquerque.....	A & S	7
McIlvain, Helen, Carlsbad.....	A & S	40
McIntosh, Cecil, Raton.....	A & S	30
McIver, Irene, Trickham, Tex.....	A & S	13
McKechnie, Ian, Albuquerque.....	Eng	17
McMullen, Mary, Olathe, Colo.....	A & S	37
Neher, Frank, Albuquerque.....	A & S	69.9
Nelson, Helen, East Las Vegas.....	A & S	41.4
Newcomer, Albert, Albuquerque.....	Eng	48.9
Newman, Evalina, Fort Sumner.....	Spl	

Name and Address	Division	Hours of Credit
Ogg, Frank, Albuquerque.....	A & S	86
O'Hara, Elizabeth, Clovis.....	A & S	90.4
O'Hara, Florence, Clovis.....	A & S	32
O'Loughlin, Mary, Albuquerque.....	A & S	122.3
Orange, William, Chilicothe, Mo.....	Eng	85
Osuna, Anita, Albuquerque.....	A & S	116
Osuna, Aurelia, Albuquerque.....	A & S	71
Overstreet, Frank, Optimo.....	Eng	113.6
Papen, Allen, East Las Vegas.....	A & S	28
Parker, Frances, Los Angeles, Calif.....	A & S	29
Parsons, Clarissa, Fort Sumner.....	A & S	13.5
Patton, Lillian, Clovis.....	A & S	22.4
Patton, Perkins, Clovis.....	A & S	72
Paulsen, Herbert, East Las Vegas.....	A & S	97.8
Payton, Ralph, Albuquerque.....	A & S	5
Pearce, Cullen, Dawson.....	Eng	53
Perez, Tonchita, Las Cruces.....	A & S	72.5
Peterson, Grace, Albuquerque.....	A & S	104
Pierce, Lois, Hudson, S. D.....	A & S	124.3
Pineda, Louis, Albuquerque.....	Spl	
Plumlee, W. C., Roy, N. M.....	A & S	59
Powers, Vernie, Kinsington, Kas.....	A & S	137.4
Rasmus, Norma, Roswell.....	A & S	19
Riggan, Catherine, Cimarron.....	A & S	27.6
Robertson, E. C., Albuquerque.....	Spl	20.4
Rodney, Maud, Roswell.....	A & S	45
Rogers, Glen, Portales.....	A & S	28.6
Rogers, Melville, Portales.....	A & S	18.8
Rogers, Frances, Columbus, O.....	A & S	13
Romero, Samuel, San Marcial.....	A & S	17.5
Rosenbach, Samuel, Albuquerque.....	Eng	131
Roslington, Wilbur, Albuquerque.....	A & S	4
Roy, Edna, Albuquerque.....	A & S	129
Roy, William, Albuquerque.....	A & S	30
Rudin, Melanae, Albuquerque.....	A & S	
Russell, Dora, Artesia.....	A & S	46.9
Sain, Floryda, Roswell.....	A & S	34.2
Sampson, George, Winslow, Ariz.....	A & S	86.3
Sands, Mary, East Las Vegas.....	A & S	72.9
Savage, George, Utica, N. Y.....	A & S	13
Scheibe, Miriam, Albuquerque.....	A & S	46
Schultz, Ilse, Albuquerque.....	A & S	48
Schumaker, Margaret, Albuquerque.....	A & S	134
Scoopmire, Vance, Gallup.....	A & S	15
Scruggs, John, Jefferson City, Mo.....	A & S	115.7
Sedillo, John, Albuquerque.....	A & S	27.6
Seyfried, John, Blairsville, Pa.....	Eng	136
Sganzini, Freddie, Albuquerque.....	Spl	
Sganzini, Wm. J., Albuquerque.....	A & S	20
Sharp, Jonathan, Albuquerque.....	Eng	97

Name and Address	Division	Hours of Credit
Shaw, Helen, Roswell.....	A & S	31
Sherwood, Leona, Dawson.....	A & S	37
Short, Fletcher, Albuquerque.....	Eng	116.8
Shotwell, Katherine, Albuquerque.....	A & S	113
Skeel, George, Cleveland, O.....	A & S	21.5
Sloan, Lida, Albuquerque.....	A & S	105
Smith, Evangeline, El Paso, Tex.....	A & S	61.7
Smith, Nettie, Carlsbad.....	A & S	28
Snyder, Dale, Albuquerque.....	A & S	13
Snyder, Wilma, Albuquerque.....	A & S	100
Spruce, Joy, Floresville, Tex.....	A & S	61.8
Steed, Frank, Deming.....	A & S	68.9
Stephenson, Dorothy, Alamogordo.....	A & S	65.2
Stern, Arthur, Albuquerque.....	A & S	17
Stinnett, Marion, Portales.....	A & S	48.3
Stofer, Willard, Gallup.....	Eng	27.6
Stone, Gertrude, Albuquerque.....	A & S	
Stowell, Helen, Whiting, Ind.....	A & S	44
Sublette, Donald, Raton.....	A & S	33.6
Sullivan, Helen, St. Louis, Mo.....	A & S	
Swinney, James, Tyrone, N. M.....	Eng	37.3
Tessman, Elvada, Terre Haute, Ind.....	A & S	56
Thacker, Helen, Raton.....	A & S	125
Thomas, Luther, Roswell.....	A & S	30
Thorson, Playford, Miriam, Kans.....	Spl	
Tipton, Opal, Alamogordo.....	A & S	22.6
Tolbert, Alice, Greenwood, S. C.....	A & S	100.6
Travis, Ada Belle, Brooklyn, N. Y.....	A & S	43.6
Tully, Susan K., Glencoe, N. M.....	A & S	15.9
Turner, Francis, St. Albans, W. Va.....	A & S	36
Ussery, Oscar, Carlsbad.....	Eng	22
Van Gieson, Helen, Albuquerque.....	A & S	16
Veenhoff, Bernhard, Albuquerque.....	Spl	
Von Nyvenheim, Mary, Santa Fe.....	A & S	28
Wagner, Fred, Santa Fe.....	A & S	16
Wait, Richard D., Albuquerque.....	A & S	11
Walraven, Louise, Albuquerque.....	A & S	51.6
Ward, J. Sterling, Artesia.....	A & S	64.3
Ward, William Walter, Albuquerque.....	A & S	42
Waring, Lelia M., Cimarron.....	A & S	26
Warren, Robert, Alamogordo.....	A & S	4
Weeks, Fred, Albuquerque.....	Grad	
Wehr, Thersa, Terre Haute, Ind.....	Grad	
Weisenbach, Estelle, Albuquerque.....	A & S	79
Wells, Samuel, Oakland, Calif.....	A & S	69
Wharton, Lucille, Tucumcari.....	A & S	20
White, George, Albuquerque.....	A & S	76
Whittier, John, Santa Fe.....	A & S	31.9
Wicklund, Irene, Albuquerque.....	A & S	68.7
Wilfley, Vernon, Roswell.....	Eng	89

Name and Address	Division	Hours of Credit
Wilkerson, Nina, Springfield, Mo.....	A & S	65.8
Wilkinson, Kenneth, Ft. Sumner.....	A & S	38.6
Williams, Merle, Albuquerque.....	A & S	11
Wilmunder, Hazel, Gallup, N. M.....	A & S	23.9
Wilson, Clyda, Albuquerque.....	A & S	67.6
Wilson, Wm. Marshall, Oak Park, Ill.....	Eng	25.6
Winfrey, Grace, Albuquerque.....	A & S	8
Witten, O. B., Deming.....	Eng	53.5
Wolking, Clifford, Albuquerque.....	Eng	150.3
Wood, Mary, Gallup.....	A & S	12
Woodworth, Harold, Albuquerque.....	A & S	2
Worden, Tessa, Ann Arbor, Mich.....	A & S	
Zimmerman, Ruth, Topeka, Kans.....	A & S	62.5
Zweifel, Albert, Ft. Sumner, N. M.....	A & S	8.6

NEW STUDENTS REGISTERED, 1921.

The following students, not registered during the calendar year of 1920, have registered for the second semester, 1920-1921.

Blom, Harvey E., Roswell, N. M.....	Eng
Coffman, Richard, Dayton, O.....	A & S
Connoly, Vincent, Oakland, Calif.....	A & S
Darrow, Louise, Trinidad, Colo.....	A & S
Dixon, Lawrence, Bakersfield, Calif.....	A & S
Donovan, Dorothy, Detroit, Mich.....	A & S
Dougherty, Ruth, Socorro, N. M.....	A & S
Edgar, E. Russell, Albuquerque.....	Eng
Hess, Nelle, Mannington, W. Va.....	A & S
Horgan, Edward, Albuquerque.....	A & S
Jordon, Vera, Des Moines, Ia.....	Grad
Miller, Ralph, Albuquerque.....	Eng
McLaughlin, Deane, Adena, O.....	A & S
Nafziger, May, Denver, Colo.....	A & S
Nafziger, Raymond, Albuquerque.....	A & S
Reeve, Frank, Alameda, Calif.....	Spl
Ream, Glen, Rising Sun, O.....	Spl
Stahl, Wm., Trenton, N. J.....	A & S
Wagner, Dorothy, Albuquerque.....	A & S
Walker, Myrle, Embudo, N. M.....	A & S
Wetmore, Edith, Albuquerque.....	Spl
Wilson, Rollin, Woodstock, Ill.....	Spl

EXTENSION STUDENTS

ADULT SPECIAL STUDENTS REGISTERED IN ORGANIZED CLASSES.

Explanation of symbols.—After each name is given the class or classes, in which the student has registered during the calendar year of 1920: A. P.—Applied Psychology; Ar.—Archaeology; Ed.—Educational Measurements; H. E.—Home Economics; J.—Journalism; S.—Salesmanship; Sp.—Spanish.

Ackerman, C. G.....	Sp.	Diehl, Minnie.....	A. P.
Adams, Florence.....	A. P.	Dixon, Mary.....	Ed.-A. P.
Allen, Cora.....	Ed.-A. P.	Dougherty, Katherine.....	Ed.
Allison, Helen.....	Ed.-A. P.	Dougherty, H. L.....	Sp.
Anderman, George.....	Sp.	Easterday, Margaret.....	A. P.
Anderson, Clinton.....	Sp.	Dearing, L. G.....	S.
Anderson, Selma.....	Ed.-A. P.	Edgar, Mrs. E. R.....	A. P.
Asbury, Madelaine.....	Sp.	Edsall, Bessie.....	Ar.-Sp.-Ed.-A. P.
Ash, O. K.....	Sp.	Elder, Ida.....	Ed.-A. P.
Asselin, Laurine.....	Ed.-A. P.	Eller, Mrs. Alice.....	H. E.
Atkinson, R. M.....	S.	Elliott, Gertrude.....	Ed.-A. P.
Barber, Mrs. C. M.....	H. E.	Ellis, Prof. R. W.....	Ar.
Barnhart, Mrs. C. A.....	H. E.	Enloe, E. L.....	Ed.
Bartle, Mrs. L.....	Sp.	Earstad, Hildegarde.....	A. P.
Beatty, L. O.....	Ar.	Finn, Jennie B.....	A. P.
Beckman, Rev. C. O.....	Ar.	Fossgreen, Dortha.....	Ed.
Beckman, Mrs. C. O.....	Ar.	Frisbie, Mary.....	Ed.
Beckman, Ethel.....	Ed.	Freide, Alma.....	Sp.
Belts, Gwendolyn.....	Sp.	French, Mrs. E. T.....	J.
Bentley, Betty.....	Ed.-A. P.	Friola, Daly.....	A. P.
Bentley, J. F.....	Ed.-A. P.	Gaines, Mrs.....	Ed.
Bentley, Mrs. J. F.....	Ed.-A. P.	Gee, Neal.....	S.
Benton, J. G.....	Ed.	Gielitz, Louis.....	Sp.
Biggs, Mrs. B. W.....	Sp.	Gill, Bess.....	A. P.
Bixler, Allene.....	Ed.-A. P.	Glennon, C. P.....	S.
Bliss, E. E.....	Sp.	Gonzales, Jenny.....	Ed.-A. P.
Borland, Glen W.....	Ed.-A. P.	Hackman, Edward.....	Sp.
Bordanave, Adele.....	A. P.	Haggard, Jerre.....	Sp.
Botts, Mrs. C. M.....	Ar.	Hail, Fred.....	Sp.
Brannon, Wm. C.....	Sp.-S.	Hatcher, Beulah.....	Ed.
Brown, Ruth.....	A. P.	Herron, Jane.....	Ed.
Bunjes, H. G.....	Sp.	Hesselden, Bernice.....	Ed.-A. P.
Burch, Mrs. Henry.....	A. P.	Hickman, Florence.....	Ed.-A. P.
Burton, John D.....	A. P.	Higgins, Don.....	S.
Butts, Mrs. T. I.....	A. P.	Hill, Mrs. D. S.....	Ar.-H. E.-Sp.
Carey, Mrs. C. E.....	Ar.	Hill, Ruth.....	Ed.-A. P.
Cazin, Frances.....	A. P.	Hilliard, Winifred.....	Ed.-A. P.
Chamberlain, Louis.....	Sp.	Hodgin, Prof. C. E.....	Ed.-A. P.
Connell, S. A.....	S.	Holden, Guy.....	Sp.
Davis, Charles E.....	Sp.	Horton, Alma.....	Ed.-A. P.

House, K. L.....S.	McCollum, J. R.....Ed.-A. P.
Howard, Elizabeth.....Ed.	McGough, Frank.....Ed.-A. P.
Howard, Lucy.....Sp.	McGregor, Elsie.....Sp.-Ar.
Howden, Angelica.....A. P.	McGregor, Ian.....A. P.
Hughes, M. F.....Sp.-A. P.	McKnight, Virgil.....S.
Hyde, Jessie.....Sp.	McMillen, Mrs. A. B.....A. P.
Inches, Jeanette..Ar.-Ed.-Sp.-A. P.	McRoberts, Opal.....Ed.
Johnson, A. E.....Sp.	Nehennah, Daniel.....Sp.
Jones, Mrs. Alma.....Ar.	O'Loughlin, Mary.....A. P.
Jones, G. B.....Ed.-A. P.	O'Loughlin, Ellen.....A. P.
Keeler, Alleene.....Ed.-A. P.	Oxley, Ruth.....Sp.
Keim, Mrs. W. C.....Sp.	Parker, Ethel.....Ed.-A. P.
Keleher, Julia.....Ed.-A. P.	Patterson, Ruth.....A. P.
Kellam, Mary Ann.....Ed.	Perry, Evangeline.....A. P.
Kieke, Lillian.....Ed.-A. P.	Peters, J. C.....Sp.
LaBar, Ella.....Ed.-A. P.	Phillips, Barbara.....A. P.-Ed.
Landers, Mrs. J. S.....Sp.	Plant, Myrtle.....Ed.-A. P.
Landers, Prof. J. S..Ed.-A. P.-Ar.	Reidy, Mrs. J. A.....H. E.
Larson, Ruth.....A. P.	Rhea, Ruby.....A. P.
Lawrence, Mrs. Mary.....Ar.	Rhodes, Marion.....Ed.-A. P.
Lease, Alice.....Ed.-A. P.	Rice, Mrs. L. G.....H. E.
Lewis, Merton.....A. P.	Rippner, Estelle.....Sp.
Lindsey, Maria.....Sp.	Roame, Lucille.....Ed.
Little, Ann Z.....Ed.	Robertson, Lucy.....Ed.-A. P.-Sp.
Livingston, Mrs. Ed.....H. E.	Robinson, Mrs. H. F.....Ar.
Lynch, Francis.....S.	Robinson, H. F.....Ar.
Mahoney, Helen.....Sp.	Rockwood, Mrs. R. S.....Ar.
Mallett, Fred.....Sp.	Rodgers, Maud.....Ed.-A. P.
Maloney, M.....A. P.	Rodley, A. J.....A. P.
Mann, Mrs. Lucy.....Ed.-A. P.	Roessler, Emma.....A. P.
Mastin, Gilbert H.....Sp.	Roy, Fay.....Ed.-A. P.
Maxwell, Loyal.....Sp.	Russell, Dorothy.....A. P.
Meachem, Mrs. M. H.....J.	Russell, Flossie.....A. P.
Mehers, John H.....Ed.-A. P.	Rutledge, Annabel.....Ed.
Menke, Rose.....Sp.	Sackrider, Mrs. J. R....Ar.-A. P.
Meyers, Wm. F.....S.	Saul, Bertha.....Sp.
Miller, Dorothy.....Sp.	Savage, Margaret.....Ed.
Mitchell, George.....Ed.-A. P.	Schmidt, Helen.....Ed.-A. P.
Mohr, Herman.....Sp.	Schmidt, Margaret.....Ed.-A. P.
Moore, Violet.....A. P.	Schroeder, Erna.....Ed.-A. P.
Morgan, Martha.....A. P.	Schule, Geo.....Sp.
Morris, Olive.....Ed.	Schumaker, Mrs. C. A.....Sp.
Morris, Zula.....A. P.	Schumaker, Dr. C. A.....Sp.
Mosher, Doctor Edna.....Ar.	Schupp, Ona.....Ed.-A. P.
Motts, Stuart.....Sp.	Seruggs, Stella.....Ed.-A. P.
Murphy, N. D.....Sp.	Severns, Lorena.....A. P.
MacArthur, Mary.....Ar.-A. P.	Sheridan, Jean.....Ed.-A. P.
McCanna, J. E.....Sp.	Shirley, O.....Sp.
McCanna, R. J.....Sp.	Shortle, Mrs. A. G.....Sp.
McCarthy, T. M.....Sp.	Sloan, Lida.....Ed.
McClanham, Don.....S.	Snyder, Mrs. Herman.....Ar.
McCollough, Mrs. E. O.....Sp.	Stover, E. S.....H. E.

Swayne, Anna.....	Ed.	Walton, W. R.....	Sp.
Sweet, Belle.....	Ed.-A. P.	Walton, Mrs. W. R.....	A. P.
Stone, Pearl.....	Sp.	Ward, R. H.....	Sp.
Takken, Gertrude.....	Ed.-A. P.	Watkins, H. B.....	Sp.
Thompson, Ethel.....	Ed.-A. P.	Weaver, Helen.....	A. P.
Tiedebahl, Harry B.....	Ar.-A. P.	Wehr, Thersa.....	Ar.-A. P.
Tierney, Genevive.....	Ed.-A. P.	Wellman, Mrs. Paul.....	Ar.
Tipton, Alpha.....	A. P.	White, Helen.....	Sp.
Todd, H. W.....	Ed.	Wilkinson, Louise.....	Ed.-A. P.
Trexler, Anna.....	H. E.	Williams, Walter.....	Sp.
Umberhine, Ethel.....	Ed.-A. P.	Williamson, H. H.....	Sp.
Updike, Mildred.....	Sp.	Wilson, Sidney.....	Sp.
Van Cleave, Errett.....	S.	Wittmeyer, Mrs. M. V.....	Ar.
Vaughn, Adah.....	Ed.	Wyper, Marcella.....	Sp.
Walsh, Jenny.....	A. P.		

ENROLLMENT OF EXTENSION COURSES, 1921.

Home Nursing.

Danahy, Mrs. T. M.
 Fruchtman, Mrs. M. J.
 Kaseman, Mrs. J.
 Nelson, Bernice
 Schumaker, Mrs. C. A.
 Trexler, Anna

Journalism.

Filer, Constance
 Gould, Alice
 Hicks, Madelaine
 Lyter, Curtis
 Meacham, Mrs. M. H.
 Merkel, Paul G.
 Thompson, Mrs. Louise B.
 Wells, Bruce H.
 Winfrey, Grace

SUMMARIES

SUMMARY OF STUDENTS BY COLLEGES AND SCHOOLS

January 1—December 31	1919	1920
Graduate School of Arts and Sciences.....	12	6
College of Arts and Science.....	258	258
*College of Fine Arts.....	9	...
College of Engineering	50	57
Special	15	26
†Correspondence	1	3
‡Preparatory Division (Spring Quarter, 1918-19).....	4	..
Total	349	350
Adult Specials in Extension Classes.....		213
		563
Less names counted twice.....		4
		559

*Included in Department of College of Arts and Sciences in 1920.

†Correspondence courses discontinued since June, 1920.

‡Preparatory Division eliminated since September, 1919.

EXTENSION STUDENTS BY CLASSES.

Applied Psychology.....	95
Archaeology	24
Educational Measurements.....	72
Home Economics.....	9
Journalism	2
Salesmanship	13
Spanish	63
	278
Less names counted twice.....	65
Net total students.....	213

ENROLLMENT FOR ACADEMIC YEAR, 1920-1921.

FROM SEPTEMBER 20, 1920, TO MARCH 15, 1921.

Freshman	105
Sophomores	70
Juniors	39
Seniors	19
Special Adults	20
Graduates	3
Total	256

Extension Students:

Applied Psychology	95
Archaeology	24
Home Economics	9
Home Nursing	6
Journalism	10
Salesmanship	13
Spanish	29

186

Less students in more than one class..... 30

156

Grand total 412

SUMMARY OF STUDENTS BY COUNTIES IN NEW MEXICO AND BY STATES.

Bernalillo	157	Mora	1
Chaves	22	Otero	7
Colfax	19	Quay	6
Curry	7	Rio Arriba	1
De Baca	5	Roosevelt	8
Dona Ana	1	San Juan	3
Eddy	9	San Miguel	5
Grant	1	Santa Fe	5
Guadalupe	2	Sierra	1
Lea	2	Socorro	3
Lincoln	1	Taos	1
Luna	2	Union	2
McKinley	5		

Total New Mexico..... 276

Arizona	3	Mississippi	2
Arkansas	2	Montana	1
California	7	New York	4
Canada	1	Ohio	2
Colorado	5	Oklahoma	1
Florida	1	Oregon	1
Illinois	4	Pennsylvania	1
Indiana	3	South Carolina	1
Iowa	1	South Dakota	1
Kansas	10	Tennessee	3
Missouri	9	Texas	5
Michigan	2	West Virginia	1

Total Other States..... 71

Correspondence 3

Total 350

SUMMARY OF SECONDARY SCHOOLS REPRESENTED 1920.

The following list shows the high schools or private schools in which students now enrolled in the University received their college preparatory work. The numeral indicates the number of students from each school.

NEW MEXICO HIGH SCHOOLS.

Alamogordo	6	Hagerman	3
Albuquerque	87	Lovington	1
Artesia	3	Pecos	1
Carlsbad	6	Pleasant Hill	2
Cimarron	5	Portales	3
Clovis	4	Raton	8
Dawson	3	Roy	1
Deming	2	Roswell	18
Des Moines	1	Santa Fe	3
East Las Vegas	7	Socorro	2
Farmington	2	Tucumcari	4
Fort Sumner	5	Tularosa	1
Gallup	6		

184

STATE EDUCATIONAL INSTITUTIONS

(Prep. Dept.)

New Mexico Military Institute	1
New Mexico Normal School	2
New Mexico Normal University	3
New Mexico School of Mines	1
University of New Mexico	7

14

PRIVATE SCHOOLS IN NEW MEXICO

Loretto Academy (Santa Fe)	2
St. Vincent's Academy (Albuquerque)	2

4

Students prepared in New Mexico

202

HIGH SCHOOLS IN OTHER STATES.

Alton, Kans.	1	Lawrence County, Tenn.	1
Bakersfield, Calif.	2	Lebanon, Ind.	1
Berkeley, Calif.	1	Lenora, Kans.	1
Boise, Ida.	2	Manual Arts, L. A., Calif.	1
Brooklyn, N. Y.	1	Martin, Tenn.	1
Brownwood, Tex.	1	Miami, Fla.	1
Columbus, O.	1	Miami, Tex.	1
Crystal City, Tex.	1	Niagara Falls, N. Y.	1
Dewey, Okla.	1	Oak Park, Ill.	1

El Paso, Tex.....	4	Palatine, Ill.....	1
Escondido, Calif.....	1	Perryville, Mo.....	1
Garland, Ark.....	1	Salem, Ore.....	1
Gaston, Ind.....	1	Sedalia, Mo.....	1
Greenville, Ill.....	1	Sullivan, Mo.....	1
Hardin, Mo.....	1	Tampa, Fla.....	1
Jefferson City, Mo.....	1	Topeka, Kans.....	3
Kansas City, Kans.....	1	White City, Kans.....	1
Total			41

PRIVATE SCHOOLS IN OTHER STATES.

Barrie Collegiate Institute..	1	Mercersburg Academy.....	1
Frazier Business College....	1	Mills College.....	1
Hefley's Institute	1	Miss. Heights Academy.....	1
Hoge Military Academy....	1	Montezuma School.....	1
Holbrook School.....	2	Palmer College Academy.....	1
Ley's School.....	1	Randolph-Macon	1
Livingston Academy.....	1	Scudder School.....	1
Maryville Polytechnic.....	1	St. Albans.....	1
			17
Students prepared in other states.....			58

SUMMARY OF STUDENTS BY HIGHER
INSTITUTIONS REPRESENTED.

Alexander College.....	1	Northwestern University	1
Baker University	1	Ohio State University.....	1
Baylor University.....	1	Oklahoma Ag. and Mech.....	1
Beloit College	1	Oklahoma Normal.....	3
Carnegie Institute of Tech..	2	Penn. State College.....	1
Carroll College.....	1	Riverdale College, Canada.....	1
Cincinnati Cons. of Music..	1	Rockford College.....	1
Colorado Ag. and Mech....	1	Tarkio College, Mo.....	1
Colorado College.....	4	University of Alabama	1
Columbia University.....	1	University of Arizona	3
Cornell College.....	1	University of Arkansas	1
Daniel Baker College.....	1	University of California	3
Denver University.....	1	University of Chicago	2
Emory University.....	1	University of Colorado	2
Evangelical Tech.....	1	University of Florida	1
Hendrix College.....	1	University of Illinois	1
Hiram College.....	1	University of Michigan	1
Hollywood Junior College..	2	University of Mississippi	1
Hunter College.....	1	University of Missouri	4
Illinois State Normal.....	1	University of Nebraska	1
Indiana State Normal.....	1	University of Oklahoma	2
Iowa State College.....	2	University of Oregon	1
Lewis Institute (Chicago)..	1	University of Pittsburgh	1
Louisiana State University.	1	University of Southern California	1

Maryville College.....	2	University of Tennessee	1
McKendree College.....	1	University of Texas	1
Midland College.....	3	University of West Virginia	1
Missouri State Normal.....	2	Upper Canada College.....	1
Mississippi Ag. and Mech...	1	Washington University.....	1
Mississippi Normal.....	1	Yale University	2.
Nebraska Normal.....	1		

Total			84
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SUMMARY OF STUDENTS FROM VARIOUS SECONDARY SCHOOLS AND HIGHER INSTITUTIONS.

January 1, 1920-December 31, 1920.

From Secondary Schools of New Mexico	202	
From Secondary Schools of other States	58	
From all Higher Institutions	84	
Previous work not indicated, (Special and Correspondence Students)	6	
Total		350

SUMMARY OF SECONDARY SCHOOLS AND HIGHER INSTITUTIONS REPRESENTED BY STUDENTS IN ATTENDANCE DURING 1920.

Secondary Schools of New Mexico represented.....	32
Secondary Schools of other states represented.....	50
Higher Institutions represented.....	61

GRADUATES, 1920

BACHELOR OF ARTS

Arnot, Elizabeth.....	Major: Chemistry
Boldt, Chester Charles.....	Major: Economics
Brorein, Mary Catherine.....	Major: Modern Languages
Brown, Helen B.....	Major: Spanish
Chess, Flora Ella.....	Major: Biology
Cristy, Anne Gillespy.....	Major: Spanish
Cristy, Edward James.....	Major: Psychology
Hammond, William Ernest.....	Major: Chemistry
Keleher, Katherine E.....	Major: Psychology
Latamore, Eunice.....	Major: Latin
Morris, Clyde Young.....	Majors: English Literature History
O'Loughlin, Mary.....	Major: History
Thacker, Helen G.....	Major: Music

Beahm, Samuel E..... Major: Economics
As of the class of 1919

*Heald, Clarence Edward..... Major: Romance Languages
As of the class of 1910

BACHELOR OF SCIENCE.

Powers, Vernice Blanche.....	Major: Home Economics
Schumaker, Margaret.....	Major: Home Economics

BACHELOR OF SCIENCE.

Meyers, Ralph Edmund.....	Major: Chemical Engineering
Wolking, Clifford G.....	Major: Electrical Engineering

*Died September 14, 1920.

CANDIDATES FOR DEGREES, 1921

COLLEGE OF ARTS AND SCIENCES

CANDIDATES FOR DEGREE OF BACHELOR OF ARTS.

Davis, Irene Esther.....	Major: Psychology	Minor: Philosophy
Dixon, Wenonah.....	Major: English	Minor: Psychology
Ferguson, William Russell....	Major: Philosophy	Minor: Psychology
Hart, Mayme Burnetta.....	Major: English	Minor: History
Heslet, Frank Guy.....	Major: English	Minor: Psychology
Masten, Alfred R.....	Major: History	Minor: Chemistry
Osuna, Anita Mary.....	Major: Spanish	Minor: History
Peterson, Grace.....	Major: English	Minor: Education
Pierce, Lois.....	Major: English	Minor: Education
Scruggs, John Merritt.....	Major: Geology	Minor: History

CANDIDATES FOR DEGREE OF BACHELOR OF SCIENCE.

Crawford, Dorothy A....	Major: Home Economics	Minor: Psychology
Eldott, Joseph M.....	Major: Chemistry.	
Goetz, Helen Esther....	Major: Home Economics	Minor: Chemistry
†Seyfried, John E.....	Major: Physics	
Shotwell, Katherine....	Major: Home Economics	Minor: Spanish
†Roy, Edna.....	Major: Home Economics	

†Degrees voted September, 1920.

COLLEGE OF ENGINEERING.

CANDIDATES FOR DEGREE OF BACHELOR OF SCIENCE

Bower, Chalmers Hendricks.....	Major: Civil Engineering
Craig, Reginald Silvius.....	Major: Civil Engineering
Fetzer, Clair Allison.....	Major: Civil Engineering
Overstreet, Frank Allen.....	Major: Electrical Engineering
Rosenbach, Samuel.....	Major: Electrical Engineering
Short, Fletcher Livingston.....	Major: Geological Engineering

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