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BULLETIN OF THE UNIVERSITY OF NEW MEXICO

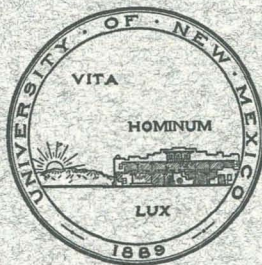
CATALOGUE SERIES NO. 35. NO. 1.

WHOLE NO. 106.

THE STATE UNIVERSITY OF NEW MEXICO

MEMBER OF
NORTH CENTRAL ASSOCIATION OF COLLEGES AND
SECONDARY SCHOOLS
[College Section]

THIRTY-FIRST ANNUAL CATALOGUE
1921-1922



ANNOUNCEMENTS
1922-1923

ALBUQUERQUE
PUBLISHED BY THE UNIVERSITY
FEBRUARY, 1922

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, 40, 43, 46, 48, 50, 54, 55, 56, 59, 60, 64, 67, 70, 72, 74, 77, 78, 79, 80, 81, 82, 85, 86, 87, 90, 91, 92, 94, 96, 97, 98, 99, 100, 102, 103, 104, 105.

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.

GEOLOGICAL SERIES, VOLS. I-III; whole numbers 17, 18, 20, 21, 23-28, 28a, 51, 76 101.

EDUCATIONAL SERIES, VOLS. I-II; whole numbers 41, 42, 52, 58, 61, 68, 69, 73, 83, 84, 89.

LANGUAGE SERIES, VOL. I; No. 1-3; whole numbers 45, 53, 88.

PHILOSOPHICAL SERIES, VOL. I; No. 1; whole number, 93.

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

SOCIOLOGICAL SERIES, VOL. I; No. 1-3; whole numbers, 57, 62, 66.

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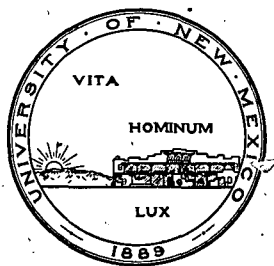
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UNIVERSITY CALENDAR

SUMMER SESSION, 1922

June 10, 12, 13, Registration days.
June 14, Wednesday, Class work begins.
July 4, Tuesday, Legal holiday.
July 26, Wednesday, Summer Session ends.
(See inside back cover.)

ACADEMIC YEAR

1922-1923

First Semester.

September 12, Tuesday—Registration Day for students resident in Albuquerque and vicinity.
September 13, Wednesday—Registration Day for all other students.
September 14, Thursday—Instruction begins in all departments.
October 21, Saturday—Examinations for removal of conditions.
November 11, Saturday—Armistice Day, holiday.
November 30, Thursday—Thanksgiving Day, holiday.
December 21, Thursday—Holiday Recess begins at 5 p. m.
January 3, Wednesday—Instruction is resumed in all departments at 8 a. m.
January 22-26, Monday-Friday—Semester Examinations. Semester ends Friday, January 26, 5 p. m.

Second Semester

January 30, Tuesday—Registration Day for all students.
January 31, Wednesday—Instruction begins in all departments.
February 22, Thursday—Washington's Birthday, holiday.
March 10, Saturday—Examinations for removal of conditions.
May 30, Wednesday—Memorial Day, holiday.
June 2, 4, 5, 6, 7, Saturday—Thursday (noon) Semester Examinations.
Semester ends June 7, 5 p. m.
June 8, Friday, 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, 1921-1922.

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.

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: EDNA MOSHER, Ph.D.

Campus Superintendent: HARRY V. FRANK.

ALPHABETICAL LIST OF OFFICERS OF INSTRUCTION, 1921-1922.

- 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), Associate 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.
- EVERS, HELENE M., B.A., (Washington); M.A., (Missouri); Ph.D., (Bryn Mawr), Associate Professor of Romance Languages.
- EYRE, THOMAS TAYLOR, B.S. in M.E., (Purdue University), 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, MYRTLE, B.A., M.A., (University of Kansas), Chief of Division State Public Health Laboratory, Bureau of Public Health, and Assistant Professor of Bacteriology.
- HAUGHT, BENJAMIN FRANKLIN, B.A., (West Virginia); M.A., (Columbia); Ph.D., (George Peabody College), Associate Professor of Psychology and Education.
- HESSLER, LEWIS BURTON, B.A., M.A., Ph.D., (University of Pennsylvania), Professor of English and Chairman of the Department.
- HODGIN, CHARLES ELKANAH, B.Pd., (University of New Mexico), Vice-President and Professor of Education.
- HUBBELL, GEORGE SHELTON, B.A., M.A., (Wesleyan); Ph.D., (Princeton), Assistant Professor of English.
- JOHNSON, ROY WILLIAM, B.A., (University of Michigan); Certificat, (Université de Poitiers), Acting Director of Department of Hygiene, and Manager of Athletics.
- 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), Professor of Biology and Supervisor of Women.

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. (On leave of absence, 1921-1922.)

Instructors and Assistants

COLLINS, WILLIAM, Laboratory Assistant in Biology.
 FAW, JENNIE STEVENS, Instructor in Piano and Pipe Organ.
 FEE, IRENE, Assistant in Chemistry.
 HERNANDEZ, RALPH OCTAVIO, Assistant in Romance Languages.
 LIGHTON, EDWARD WILLIAM, Laboratory Assistant in Chemistry.
 McCORMICK, KATHERINE, B.S., (State College of Mississippi); M.A., (Columbia), Instructor in Physical Education and Hygiene of Women.
 NICHOLS, LOUISE, Instructor in Piano.
 OGG, FRANK CHAPPELL, Assistant in Mathematics.
 OSUNA, ANITA M., B.A., (New Mexico); M.A., (Stanford, 1922), Instructor in Romance Languages, 1922-23.
 ROY, EDNA, B.S., (University of New Mexico), Instructor in Home Economics.
 SHORT, FLETCHER L., B.S., (University of New Mexico), Assistant in Civil Engineering.
 WILFLEY, VERNON B., Assistant in Physics and Electrical Engineering.

STAFF OF DEPARTMENT OF HYGIENE AND STATE HEALTH LABORATORY.

JOHNSON, ROY W., B.A., (University of Michigan); Certificat, (Université de Poitiers), Acting Director of Department of Hygiene.
 GEORGE S. LUCKETT, M. D., State Director, Bureau of Public 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), Chief of Division and Bacteriologist in State Public Health Laboratory.
 CORNISH, P. GILLETTE, Jr., B.A., (Yale); M.D., (Columbia); Medical Advisor of Men.
 McCORMICK, KATHERINE, B.S., (State College of Mississippi); M.A., (Columbia), Instructor in Physical Education and Hygiene for Women.
 CHESSE, 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

1921-1922.

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 Hodgins, Deans Mitchell, Clark, Eyre, Supervisor of Women Mosher, Registrar and Executive Assistant Kirk.

ADMISSION AND STUDENT STANDING: Deans Mitchell, Eyre, Professors Hessler, Haught, Registrar Kirk.

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

STUDENT AFFAIRS: Dean Clark, Professors Ellis, Johnson, Mosher, Simpson.

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

ELIGIBILITY: Professors Rockwood, Barnhart, Ellis, Johnson.

LIBRARY: Librarian Shelton, Professors Coan, Rockwood.

ATHLETIC COUNCIL (Faculty Representatives): Professor Coan, Deans Clark, Eyre.

LITERARY CONTESTS: Professor Hessler, Vice-President Hodgins, Professor Carey.

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 centres 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.

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 Dr. 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.

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 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. The Campus was extended from twenty-five acres 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 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.

Several important changes were brought by the World War in the administration and the life of the University. The chief changes in administration were due to the change in the academic calendar by which four quarters running through the year were substituted for the old calendar of two semesters with the summer vacation—to which the University returned in 1920. This temporary change was brought about in the first instance by the necessity of accommodating the calendar of the University to numbers 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 graduates and former students were similarly engaged. But in October the establishment of a unit of the Students' Army Training Corps brought 160 men between 18 and 21 to the campus and classrooms of the institution. 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, in 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 Reynolds Hall) costing about \$22,000, with full equipment is now in useful operation.

In that academic year the State University became the seat in New Mexico 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 University students, and preserves all of its records for statistical purposes. In December, 1919, a State Health Laboratory was also 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 soon effected a 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 in matters of administration. During the first year 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 were increased and many vacancies were filled. Further, the Board of Regents formally adopted 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 building activities begun by President Hill have continued modestly, aided by gifts and by small investments from the Lands' Income Fund of the University. During the past year an Extension to the Women's Residential Hall and an enlargement of the parlor of the Hall, the Korber Wireless Station, the large Grand Stand on the Athletic Field, and certain improvements in the facilities of the Men's Residential Hall, have been completed and paid for.

Evidence of increasing faith in the State University is found both in the excellent quality of students now in attendance, and also in gifts from citizens, which gifts continue. For example, note the C. T. French Prize for Scholarship, the Katherine Mather Simms Prize for English, the George E. Breece Prize for Engineering. Mrs. Jacob Korber initiated the movement for a wireless station by a cash gift of five hundred dollars. Various materials for the plant were given by other friends of the University, and the whole plant was erected largely by students under the direction of Associate Professor Charles E. Carey. George A. Kaseman recently gave another five hundred dollars in cash, this sum toward the furnishing of the Women's Residential Hall. Mr. Arthur Prager gave a vacuum cleaning outfit and fifty dollars in cash, Mr. Frank Strong furnished the new parlor and also gave fifty dollars. Mr. Frank Mindlin donated a complete silver service to the Home Economics Department. For a Grand Stand Mr. Bruno Dieckman collected some \$650 from friends of the University, President Hill solicited about an equal amount and some eighty students working under the direction of Dean Eyre erected the commodious Grand Stand within three days' time. At this writing a notice in the Press tells of a legacy of \$15,000 left by the late Byron H. Ives, this sum to be held in trust in order that the interest may be used for scholarships for deserving young women enrolled in the State University.

The results of the policies of the Board of Regents in operation during the past two and one-half years may be summed up as follows:

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

Ohio, Illinois, Cornell, Clark, Columbia, Wisconsin, Stanford, Princeton, and Bryn Mawr.

(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 the university have thus been removed.

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

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

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

(6) The University Dining Hall has been made sanitary and effective upon a self-supporting basis.

(7) The powerful Korber Wireless Station has been installed.

(8) Gifts are beginning to multiply as evidences of faith in education and in the University.

(9) The progress of students and faculty during the past two and one half years, 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 and economic 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, at an altitude of 5,000 feet, is 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. 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 the greatest educational center of the State, possessing in addition to the State University many denominational schools, and the public school system of the City compares favorably with the systems of much larger eastern towns. All the leading religious denominations are effectively represented; and the members of all churches gladly welcome university students to share in their religious and social life. The State University's position in regard to religion is 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. The relation between the State University and accredited 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 State 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 land. During the past two years considerable money has been contributed to the State University by friends. Its chief support, however, is that of appropriations made for its maintenance by the State Legislature. The annual appropriations for the Ninth and Tenth Fiscal Years were \$85,000 for each of the two years.

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 Government 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 the approval of the Board. 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, was remodeled some years ago to conform with the adapted Pueblo style of architecture. 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 rooms and the remainder of the stacks of the Library. The two upper floors are given up to classrooms, departmental offices, and to the Psychological Laboratory.

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 **ENGINEERING BUILDING**, known as the **HADLEY HALL**, containing over eleven thousand square feet of floor space. The building contains metal and woodworking shops, stock rooms, drawing rooms, class rooms, and offices.

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

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

Adjacent to the Science Hall, and destined to be of great service to this region, are the lofty towers of the Korber Wireless Station.

The **CHEMISTRY BUILDING**, north of Science 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. A substantial Addition to the Women's Residential Hall was completed in 1921 and is now in use. Single rooms, each intended for one student, are provided in this Addition.

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.

Upon the ATHLETIC FIELD is the GRAND STAND erected recently by the labor of students working under the direction of the Engineers.

THE SARA RAYNOLDS HALL, 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 Reynolds, who 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 STUDENTS' VARSITY SHOP, the STUDENTS' PUBLICATION OFFICE, and several smaller buildings.

THE LIBRARY

The University Library is housed in the Administration building and contains 23,800 bound volumes and 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 also a depository for publications of the United States Government and contains 6,000 bound and 7,190 unbound government publications.

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 catalogues and announcements of other educational institutions, numbers 3,050 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.

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.

Students, desiring to enter on the certificate plan, will submit certificates prior to Registration Day.

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.

History, including Civics	1 unit
Foreign language, in one language	2 units
List A (see above)	5 units
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 not more than 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
Medieval 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 satisfactory 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 respectively **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 be substituted.

Group II—Drama.

Shakespeare:	Richard II,	{ If not chosen for study under B.
Midsummer Night's Dream,	Richard III,	
Merchant of Venice,	Henry V,	
As You Like It,	Coriolanus,	
Twelfth Night,	Julius Caesar,	
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 Travels (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.
 Dickens' 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 Coverley 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'Arblay,
 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.

Group II—Poetry.

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 selection from Burns' 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 — 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, German, Spanish.

Pupils should be trained to understand spoken language 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 prose, to translate it into idiomatic English, and to answer 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 models in the foreign language—and daily oral practice. Pupils ought by this time to understand the spoken language 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.

2. 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.

3. 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: *Gallie 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: *Manlian 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.

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, American 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 Guitteau: *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.

4. **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 should 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, should 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, be-

sides 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 text-book.

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 to 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; Robinson: 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, Handel, Hayden, and standard American and British composers; 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.

Persons over twenty-one years of age may be admitted as special students, provided they secure the recommendation of instructors whose work they desire to take, and the approval of the Dean of the College concerned. They are not required to meet the entrance requirements but must give evidence of

ability to pursue with profit such courses as they elect.

No one may enroll as a special student in any college of the University for more than two years, except by special permission to be obtained through the Dean of the College.

By virtue of his classification a special student is not eligible for any degree, but may become a candidate ultimately by completing the admission requirements. The entrance requirements of such adult, special students must have been fully satisfied before beginning the Junior Year, and the cases must have the approval of the Faculty.

ADMISSION TO THE GRADUATE SCHOOL.

Students may be admitted to the Graduate School upon the completion of all the scholastic requirements for the Bachelor's degree in this University or some other institution of approved rank. (See also page 73.)

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. These transcripts should be received by the University before Registration Day. Students, except adult special students, are not admitted until such credentials are presented and favorably acted on.

The steps necessary to complete registration are as follows:

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

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

(3) He then pays fees to Financial Secretary.

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

(5) Each student must make an appointment for the Medical Advisors and must see the proper representatives of the Department of Hygiene and arrange for such appointment before his program of studies will be approved finally by the Dean.

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

MINIMUM WORK.

No regular student will be permitted to enroll in less than 14 credit hours except for reasons presented in writing and duly approved by the Committee on Admission and Student Standing, and the Dean.

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.

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 required 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. Reasons for absence shall be presented within one week after the absence is incurred.

7. 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 8. 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.

8. In case a student is dropped from a course under operation of Section 7, 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 on 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.

9. 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.....	below 60.....	Failed.
I—Work not completed.		

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

If an instructor finds that a student does not deserve a passing grade, on account of missing the final examination or because he has not completed some other part of the course, he will give that student the grade of F or X, unless the student presents to the instructor a statement from his Dean, or from the Supervisor of Women in case of women students, showing

that the reason for not completing the work of the course has been accepted. In this case, the student will receive the grade of I, and he will have an opportunity, within the first six weeks of the following semester of residence, by special examination covering the work omitted, to change the grade of I to a passing grade. If the unfinished work, which caused the grade of I, is not completed within the allotted time, the grade of I automatically becomes F.

Students receiving an X in any course are "conditioned" in that course. Such students may receive a passing grade and credit in that course if the condition is removed by special examinations held for this purpose on Saturday of the 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.

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 or herself liable to immediate 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 dis-

cretion 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 by 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.

UNIVERSITY ASSEMBLIES.

Assemblies are held in Rodey Hall regularly on Friday, 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 records of attendance are based upon the reports of student monitors appointed by the President of the Associated Students. Lectures and addresses are delivered on various topics of interest by members of the Faculty and by visitors to the University and to the City, musical and dramatic recitals, and contests in oratory and debating are held. A fair share of the time set apart for assemblies is given to the Associated Students for the transaction of their business. Regular attendance at these assemblies earns one-half credit hour, each semester. This credit is to be earned in addition to the academic requirements for degrees.

PUBLIC PERFORMANCES.

The Board of Regents of the State University has resolved that all proposed public performances in any way involving the name of the State University must be authorized by the University officials before definite plans for the same are made, or any directors are employed, or any publication made concerning the same, and that any violation of this general rule because of premature announcement will within itself be sufficient cause for the cancellation of the performance announced.

CONDUCT OF STUDENTS.

Every member of the State University whether or not living upon the Campus, carries the reputation of the University with him or her wherever he or she goes.

Men and women enrolled as students or connected with the State University in any way are expected to conduct themselves as men and women of honor. Flagrant violations will be punished by dismissal. All students are held responsible for a knowledge of the contents of the official **Handbook for the Guidance of Undergraduate Students**, issued by the State University.

Accepted restrictions in a community for the good of the whole group, rather than for the selfish benefit of an individual or separate society or combination of individuals, result in order, harmony and progress, rather than in disorder, cliques and inefficiency.

The State University is a place for men and women who have passed the preparatory age and who are well on their way toward serious preparation for a definite life-work. The University is for men and women who work. By work here is meant organized, individual effort to attain a future goal—for college work, a goal that embodies skilled vocation, personal character, and altruistic service.

In the performance of its function the State University is endeavoring to attract from the whole State only young men and women of ability and character who have already completed the work of a good high school. The University intends that all of the resources of higher education may be made available for such students in their effort to prepare themselves for leadership in business and in industry, in the professions and in public life.

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 are 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, 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 collected at the end of the second week of each semester and are not refunded on account of withdrawal or dismissal from the course after that date.

Diploma fee	\$5.00
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*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 mnth). Fourteen single rooms, with board, are available in the Addition to the Women's Residential Hall, at \$30 per month in advance. 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. Occupants of rooms are required to keep rooms in clean, attractive condition, and to observe all regulations therefor. The Men's Residential Hall is in charge of a Proctor, and the Women's Residential 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. This amount will not be refunded for any reason after the beginning of the session, and in case of failure to attend the University, will be refunded only if claimed within one week after payment of the amount and prior to the opening.

Guests are not entertained in the residential halls without the previously obtained consent of the proctors 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 prop-

erty 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.

(4) Students employed by the University must maintain satisfactory scholarship and conduct.

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

HONOR DAY AND PRIZES

Annual Honor Day Exercises were inaugurated during Commencement of 1921, and will be repeated at succeeding commencements. Annually on the occasion of HONOR DAY, the President of the State University and the President of the Associated Students, in the presence of the students and friends announce in Rodey Hall the names of those students who are entitled to certificates of excellence or prizes for achievement. The honors bestowed by the Faculty are awarded by the President of the University; and honors bestowed by the Student Body are announced by the President of the Associated Students. The occasion is one of interest to the students and their relatives and friends.

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 in residence during that year the highest general average for scholarship in a regular course of not less than fifteen hours, leading to the Bachelor's degree in the College of Arts and Sciences during continuous 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.

KATHERINE MATHER SIMMS PRIZE IN ENGLISH.

Another friend of the University, Mr. Albert Simms, during the Summer of 1921, gave \$250 in Liberty Bonds, the interest of which will be paid in cash to that student taking a full course in residence and who in the opinion of a Faculty Committee appointed by the President of the University has excelled in English Composition, as shown both by class work and an original contribution.

This Prize is open only for students who have been in residence at least one year and who rank not lower than Sophomore at the beginning of the academic year preceding the Honor Day at Commencement when the award will be made.

The Prize is named for Mrs. Katherine Mather Simms (deceased) a great-grand-daughter of an early president of Harvard.

GEORGE E. BREECE PRIZE FOR EXCELLENCE IN ENGINEERING.

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

THE CECIL RHODES SCHOLARSHIP.

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

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

FACULTY CERTIFICATES OF EXCELLENCE.

The Faculty on Honor Day, 1921, bestowed Special Certificates of Excellence as follows:

College of Arts and Sciences—

Best Scholar, Freshman Class, Frederick T. Wagner.

Best Scholar, Sophomore Class, Irene B. Wicklund.

Best Scholar, Junior Class, Frank C. Ogg.

Best Scholar, Senior Class, Helen E. Goetz.

College of Engineering—

Best Scholar, Sophomore Class, Vernon B. Wilfley.

Best Scholar, Senior Class, Samuel Rosenbach.

BRUNO DIECKMANN TENNIS CUP.

A championship cup, for individual excellence in tennis, donated by Mr. Bruno Dieckmann, a graduate of the University, was won in open competition by Vernon B. Wilfley in May, 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 during the past year were: Clair Allison Fetzner, Helen Esther Goetz, Samuel Rosenbach; and from the class of 1922; Ralf F. Gould, Francis Chappell Ogg, Eleanor Cameron, Wilma Dot Snyder.

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, representatives being chosen through the medium of the Lowell Literary Society. All athletic activities are under the direction of the Athletic Council. The University has been an associate member of the Rocky Mountain Conference since 1916.

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

The University will not be responsible for debts incurred by any student or student organization. By order of the

Regents persons in charge of student publications, debates, concerts, dramatic exhibitions, athletic performances, etc., may be required to submit in advance for approval, an estimate of expenses, together with prospective revenues, to the President, or to persons authorized by him, and shall not proceed with their enterprises without the approval of the above authority.

FRATERNITIES AND SORORITIES.

Recognizing voluntary organizations of students with well-defined ideals as being legitimate expressions of an instinctive social impulse, the policy of the University is to encourage the proper conduct of fraternities and sororities.

To set up, to advocate, or to encourage unwholesome class barriers is against the ideals and purposes of a State University sustained by taxation of the people, is undemocratic and un-American, and will not be countenanced by the Board of Regents, President and Faculty. So long as fraternities and sororities continue to realize that these organizations exist for and by the University, the prevailing wholesome cooperation with these groups will continue. The fraternities and sororities of the State University of New Mexico have assisted much in the formulation of student codes, in the maintenance of living quarters for their members, and in the development of pleasant social life outside of work hours. National fraternities and one local fraternity are represented among University men, and national sororities among the women. The women's sororities have formed a local Pan-Hellenic Association which regulates "rushing" and other fraternity matters. Some fraternities and sororities own houses near the Campus.

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

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. (On leave of absence, 1921-1922).
- 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., 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.
- EVERS, HELENE M., Ph.D., Associate Professor of Romance Languages.
- HAUGHT, BENJAMIN FRANKLIN, Ph.D., Associate Professor of Psychology and Education.
- 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.A., (Certificat, Université de Poitiers), Manager of Athletics, Assistant Professor of Physical Education of Men, and Acting Director of Department of Hygiene.
- HUBBELL, GEORGE SHELTON, Ph.D., Assistant Professor of English.
- FAW, JENNIE STEVENS, Instructor in Piano and Pipe Organ.
- NICHOLS, LOUISE, Instructor in Piano.
- ROY, EDNA, B.S., Instructor in Home Economics.
- McCORMICK, KATHERINE, M.A., Instructor in Physical Education and Hygiene of Women.
- OSUNA, ANITA M., M.A., Instructor in Romance Languages, 1922-23.
- COLLINS, WILLIAM A., Laboratory Assistant in Biology.
- LIGHTON, EDWARD W., Assistant in Chemistry.
- OGG, FRANK CHAPPELL, Assistant in Mathematics.
- FEE, IRENE, Assistant in Chemistry.
- HERNANDEZ, RALPH OCTAVIO, Assistant in Romance Languages.
- WILFLEY, VERNON B., Assistant in Physics.

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 42) 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 42).

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 not less than 14 to 17 credit hours, except for reasons presented in writing and duly approved by the Committee on Admission and Student Standing, and the Dean.

No member of this College may enroll in courses which earn more than 17 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. Certificates to teach in New Mexico are awarded by the State Department of Education and the regulations concerning certification are formulated by the State Board of Education.

SUGGESTED GENERAL CURRICULUM.

In the first year the student enrolls in English 1-2, Hygiene 1-2, and Physical Education 1-2 or 5-6. The remainder of his program of studies should consist of subjects lying in the groups required for graduation. It is generally impossible to select a program of studies in which every group is represented. Students, who expect to take considerable work in Group III, should make a start in this group in the first year and postpone Group II until the second year, and, *vice versa*, students, who expect to take considerable work in the social sciences and only a minimum in the sciences and mathematics, should make a start in Group II in their first year and postpone Group III until the second year. It is almost invariably desirable that students do not omit Group IB in their first year.

In their second year, students will register for Physical Education 51-52 or 55-56, and for such courses as will complete the group requirements, and they will take second courses

in the subject in which they expect to complete the requirements of a major and of a minor study.

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

CURRICULUM FOR BUSINESS ADMINISTRATION.

The courses named in the outlined curriculum below are to be regarded only as the essential minimum, to be supplemented by others chosen under advice with special reference to the purpose of the individual student.

FIRST YEAR.

First Semester.		Second Semester	
English (1)	4	English (2)	4
History (1)	3	History (2)	3
Economics (15)	3	Economics (18)	3
Foreign Language	4	Foreign Language	4
Hygiene (1)	2	Hygiene (2)	2
Physical Education		Physical Education	

SECOND YEAR.

The student will take additional courses in Economics and Business Administration and will complete his group requirements, namely, Physical Education, additional courses in foreign languages, and twelve (12) hours in Group III (Mathematics and Psychology are advised). Additional courses should be chosen from the list "COURSES STRONGLY URGED" given below.

THIRD AND FOURTH YEARS.

Before graduation the student must fulfill the requirements of his major and minor studies. It is suggested that the student select his minor in one of the following fields: English, Political Science, History, Psychology, Spanish, or Mathematics. The student should supplement his major (Economics and Business Administration) and minor studies from courses listed below.

COURSES STRONGLY URGED.

English (58 and 61)	4
History (101 and 102)	6
Political Science (1 and 2)	6
Psychology (103)	3
Foreign Language	
Mathematics	

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 in 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	8
Other non-science courses	18
Courses Strongly Urged:	
French or German	6-12
Advanced Botany or Advanced Zoology	3-6
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, 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 8 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 8 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., Dean of College of Engineering and Professor of Practical Mechanics.
CLARK, JOHN DUSTIN, Ph.D., Professor of Chemistry and Dean of Graduate School.
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.
CAREY, CHARLES EDWARD, E.E., Associate Professor of Electrical Engineering.
EVERS, HELENE M., Ph.D., Associate Professor of Romance Languages.
DOUGHERTY, HARRY L., B.S., in S.E., Assistant Professor of Civil Engineering.
FEASEL, FRED, M.A., Assistant Professor of Economics and Business Administration.
JOHNSON, ROY W., B.A., Certificat, (Université de Poitiers), Acting Director of Department of Hygiene and Assistant Professor of Physical Education.
OSUNA, ANITA M., M.A., Instructor in Romance Languages, 1922-23.
FEE, IRENE, Assistant in Chemistry.
HERNANDEZ, RALPH OCTAVIO, Assistant in Romance Languages.
LIGHTON, EDWARD WILLIAM, Assistant in Chemistry.
SHORT, FLETCHER L., B.S., Assistant in Civil Engineering.
WILFLEY, VERNON B., Assistant in Physics and Electrical 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 is 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 specialization during the later years of each curriculum. The

drawing and laboratory instruction continue 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 42).

CURRICULA.

FIRST YEAR.

First year courses are uniform for all engineering curricula, as follows:

First Semester		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 1	Inorganic Chemistry	3	3	4
English 3	Composition and Rhetoric	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
Hyg. 1	Principles of Hygiene.....	2	0	2

Second Semester

Chem. 2	Inorganic Chemistry	3	3	4
E. E. 1	Engineering Lectures	2	0	2
English 4	Composition and Rhetoric	3	0	3
Math. 12	College Algebra	3	0	3
P. M. 3	Wood Shop	0	6	2
P. M. 16	Descriptive Geometry	0	6	2
Hyg. 2	Principles of Hygiene.....	2	0	2

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

FIRST YEAR

(See Page 62.)

SECOND YEAR**First Semester**

		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 51	Qualitative Analysis	0	10	5
Math. 21	Analytic Geometry	3	0	3
Math. 51	Calculus	3	0	3
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	3-5	0	3-4
(c)	Economics.			

19-20

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

Second Semester

Chem. 52	Quantitative Analysis	0	6	3
Math. 22	Analytic Geometry	2	0	2
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....	3-5	0	3-4
P. M. 6	Machine Shop	0	6	2

19-20

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....	4	0	4
E. E. 103	Heat Power Engineering	3	0	3
Language or Economics	As elected in Soph. year	3	0	3

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Second Semester

		Lecture Hours	Laboratory Hours	Credit Hours
Chem. 62	Organic Chemistry	0	6	3
Chem. 101	Quantitative Analysis	0	8	4
C. E. 108	Mechanics of Materials	3	0	3
E. E. 104	Heat Power Engineering	3	0	3
E. E. 107	Electrical Engineering Lab. ...	0	6	2
Language or Economics	As elected in Soph. year	3	0	3
				<hr/> 18

FOURTH YEAR**First Semester**

English 61	English for Engineers	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			4-5
				<hr/> 17-18

Total 144

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

(See Page 62.)

SECOND YEAR**First Semester**

C. E. 51	Elementary Surveying	2	6	4
Math. 21	Analytic Geometry	3	0	3
Math. 51	Calculus	3	0	3
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	3-5	0	3-4
(c) Economics				

18-19

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

Second Semester

		Lecture Hours	Laboratory Hours	Credit Hours
C. E. 52	Topographic Surveying	1	6	3
Math. 22	Analytic Geometry	2	0	2
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...	3-5	0	3-4
P. M. 6	Machine Shop	0	6	2

 19-20
THIRD YEAR**First Semester**

C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng....	4	0	4
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

 19
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. 107	Electrical Engineering Lab.	0	6	2
E. E. 104	Heat Power Engineering	3	0	3
Language or Economics	As elected in the Soph. year ...	3	0	3

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FOURTH YEAR**First Semester**

English 61	English for Engineers	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

		Lecture Hours	Laboratory Hours	Credit Hours
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
				<hr/> 18
				Total 144-145

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

FIRST YEAR

(See Page 62.)

SECOND YEAR

(Same as for Civil Engineering, see page 64.)

THIRD YEAR

First Semester

C. E. 105	Analytical Mechanics	4	0	4
E. E. 101	Principles of Electrical Eng. ..	4	0	4
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
Language or Economics	As elected in the Soph. year...	3	0	3
				<hr/> 20

Second Semester

C. E. 108	Mechanics of Materials	3	0	3
C. E. 110	Hydraulics	3	0	3
E. E. 102	Alternating Currents	3	0	3
E. E. 104	Heat Power Engineering	3	0	3
E. E. 108	Alternating Current Problems..	2	0	2
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

		Lecture Hours	Laboratory Hours	Credit Hours
E. E. 196	Transmission Lines	2	0	2
E. E. 161	Electrical Design	1	6	3
English 61	English for Engineers	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				146-147

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

FIRST YEAR

(See Page 62.)

SECOND YEAR

First Semester

Geol. 1	Physical Geology	2	3	3
Math. 21	Analytic Geometry	3	0	3
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				
(c) Economics				
				<hr/> 18-19

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

Second Semester

Geol. 2	Historical Geology	2	3	3
Math. 22	Analytic Geometry	2	0	2
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				
				<hr/> 3-4

16-17

		Lecture Hours	Laboratory Hours	Credit Hours
THIRD YEAR				
First Semester				
Geol. 51	Mineralogy	1	3	2
Geol. 101	Economic Geology	2	3	3
Math. 51	Calculus	3	0	3
E. E. 101	Principles of Electrical Eng. ..	4	0	4
E. E. 103	Heat Power Engineering	3	0	3
Language or Economics	As elected in Soph. year	3	0	3
				<hr/> 18
Second Semester				
Geol. 52	Mineralogy	0	6	2
Geol. 102	Economic Geology	2	3	3
Math. 52	Calculus	4	0	4
C. E. 110	Hydraulics	3	0	3
E. E. 104	Heat Power Engineering	3	0	3
E. E. 107	Electrical Laboratory	0	6	2
Language or Economics	As elected in Soph. year	3	0	3
				<hr/> 20
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	English for Engineers	3	0	3
C. E. 105	Analytical Mechanics	4	0	4
				<hr/> 19
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
C. E. 108	Mechanics of Materials	3	0	3
				<hr/> 19
				<hr/> Total 145-146

DEPARTMENT OF HYGIENE

FACULTY.

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

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

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

ROY W. JOHNSON, B.A., Certificat (Université de Poitiers), Acting Director and Manager of Athletics.

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., Chief of the Division of State Public Health Laboratory, Bureau of Public Health, and Assistant Professor of Bacteriology.

KATHERINE McCORMICK, M.A., Instructor in Physical Education and Hygiene of Women.

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

*Resigned.

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 Bureau of Public Health is under the general supervision of the Director of the Department of 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.

HYGIENE.

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

Primarily for Undergraduates.

1, 2. The principles of hygiene.—General and personal 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. Prerequisite: Chemistry 1 and 2; Hygiene 1 and 2. Laboratory 2 hours, 4 hours a week.

51. Principles of hygiene.—A continuation of courses 1 and 2, with special emphasis on community hygiene, 2 hours a week. (Not given in 1922-23.)

72. Educational hygiene.—This course is intended for prospective teachers, and includes treatment of health of children, school sanitation and hygiene, and discussion of matter and methods of hygiene instruction suitable for different grades. Prerequisite: Hygiene 1, 2. Two hours.

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. Prerequisite: Chemistry 1 and 2. Laboratory 2 hours. Four hours a week. (Not given in 1922-1923).

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. Prerequisite: Chemistry 51, 52, 61, and 62. Hours as arranged. (Not given 1922-23.)

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.

Courses for Women.

The object of these courses is to preserve and improve health, to improve posture, and to raise the general efficiency of young women of the University. An effort is made to create an interest in and to develop skill in a variety of sports, games, and athletics.

The uniform consists of blue serge bloomers, white middie, black tie, black hose and tennis or gymnasium shoes. For swimming a bathing suit and rubber cap are required.

5, 6. **Freshman course.**—Folk dancing, marching, apparatus, swimming, and out of door games such as Captain ball, volley ball, basket ball, baseball, field ball and tennis. Three hours a week, $\frac{1}{2}$ credit hour, not counted toward a degree.

55, 56. **Sophomore course.**—Advanced folk dancing, swimming and apparatus, a continuation of the games and athletics of 5 and 6. Three hours a week, $\frac{1}{2}$ credit hour, not counted toward a degree.

61, 62. **Advanced folk and national dancing.**—Open to those who have had folk dancing in 5, 6 and 55, 56, or its equivalent. Two hours a week, $\frac{1}{2}$ credit hour.

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, which consisted of lecture courses and classes open to qualified adults upon payment of small fees.

During that period courses conducted were as follows:

Archaeology, (six lectures), Edgar L. Hewett, Ph.D.

Applied Psychology, (eight lectures), David S. Hill, Ph.D. LL.D.

Journalism, (eight lectures), Marion L. Fox, A.B., LL.D.

Journalism, (fourteen lectures), Gilbert Cosulich, LL.B.

Salesmanship, (eight lectures), Charles M. Barber, Ph.B.

Home Economics, (eight lectures), Mrs. Walter L. Simpson, (Ypsilanti).

Home Nursing and Health, Thirty demonstrations and lectures by Trained Nurse and by Doctors Docherty, Van Atta, Royer, Rice, Peters, Shortle, Cornish, Jr., Reidy, Frisbie, McLandress, Brehmer, Angle, Eller, Mosher, Clark, Hill, and by Mrs. Simpson and Miss Greenfield.

Practical Spanish, Hannibal Ibarra y Rojas, B. de CC.LL., J.D.

During the Spring of 1922, three extension courses are being conducted, as follows:

English Literature, (eight lectures), George S. Hubbell, A.M., Ph.D. (Princeton.)

Educational Tests and Measurements for Teachers, (eight lectures and demonstrations), Benjamin F. Haught, M.A., (Columbia), Ph.D., (Peabody.)

Home Economics for Housewives, (eight lectures and demonstrations), Mrs. Walter L. Simpson (Ypsilanti.)

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 (On leave of absence, 1921-1922.)
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., Professor of Biology and Supervisor of Women.
CHARLES FLORUS COAN, Ph.D., Associate Professor of History and Political Science.
EVERS, HELENE M., Ph.D., Associate Professor of Romance Languages.
HAUGHT, BENJAMIN FRANKLIN, Ph.D., Associate Professor of Psychology and Education.
FRED FEASEL, M.A., Assistant Professor of Economics and Business Administration.
HUBBELL, GEORGE SHELTON, Ph.D., Assistant Professor of English.
MYRTLE GREENFIELD, M.A., Bacteriologist in State Public Health Laboratory and Assistant Professor of Bacteriology.

At the beginning of the 1919-1920 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 units are the maximum for one semester and 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 con-

ducted jointly by the professor 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, 8½x11 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.

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, M.A., Professor.

(On leave of absence 1921-1922.)

EDNA MOSHER, M.S., Ph.D., Professor.

WILLIAM A. COLLINS, Laboratory Assistant.

Major study.—To obtain the recognition for a major study in this Department, the student must obtain 24 hours' credit in the Department including courses 1, 4, 14, 54, and 61, but credits obtained in courses 1 and 14 shall not be counted towards fulfilling the requirement as to number of hours to be taken in a major study.

Minor study.—12 hours' credit in the Department, not including courses 1 and 14, but one of these courses 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 60 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).

4. **Invertebrate morphology.**—The study of a series of invertebrates, their structure, development, and life history as illustrating certain biological principles. Prerequisite: Biology 1. Laboratory work 2 hours, total 3 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 2 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 each semester. (MOSHER).

54. Vertebrate zoology.—A study of the classification of the Chordata with an introduction to their structure as illustrated by dissection of the shark. Brief study of vertebrate tissues; ontogeny and evolution of vertebrates. Prerequisite: Biology 1. Laboratory 2 hours, total 5 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 54 or their equivalent. Laboratory work, 3 hours, total 5 hours. (WEESE).

59. Vertebrate morphology and comparative anatomy.—Dissections of types of the common groups of vertebrates following the work given in 54, with the simpler outlines of comparative anatomy. Prerequisites: 1 and 54: Laboratory 3 hours, total 4 hours.

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. (WEESE).

63. Microscopic technique.—Theory and practice of microscopical technique, fixation, staining, imbedding, section cutting and mounting material. Both plant and animal material will be used. Prerequisite: Biology 1 and 54. Laboratory work 2 hours, total 3 hours. (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). (Not offered 1922-23.)

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). (Not offered 1922-23.)

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. (WEESE).

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. (WEESE).

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 1922-23).

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). (Not offered 1922-23).

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. (WEESE).

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, M.S., Ph.D., Professor.

EDWARD W. LIGHTON, Assistant.

IRENE FEE, 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. 3 hours. (Not given in 1922-23.)

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, 3 hours. (Not given in 1922-23). 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 1922-23.)

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. 2 hours.

For Advanced Undergraduates and Graduates.

110. Physical chemistry.—This work consists of advanced study of chemical theory. As far as possible, lectures touch the whole field of physical chemistry. Students are required to do a great deal of supplemental reading in works of the best authors in the different branches of the science. Prerequisite: 1, 2, 51 and 52. 5 hours. (Given in 1922-23).

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

DEPARTMENT OF CIVIL ENGINEERING.

HARRY L. DOUGHERTY, B.S., Assistant Professor.

FLETCHER L. SHORT, B.S., 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. 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. 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. The theory and use of simple, compound, and spiral curves, study of frogs, switches, and turnouts. Taken with C. E. 103. Prerequisite: C. E. 52. Recitation 3 hours per week. 3 credit hours.

103. Railroad engineering.—The principles of economic location of railways. 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 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.—A discussion of the different methods of irrigation, the control of irrigation water, and works for distribution and storage. 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, M.A., Assistant Professor.

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

Major study.—A major in this department consists of a minimum of 24 hours other than Courses 15 and 18, but must include 53 and 54.

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.

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 1922-23).

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).

131-132. Business law.—Contracts, negotiable instruments; agency; partnerships; business corporations; sales of personal property; bailments and carriers, guaranty and suretyship; insurance; real property; landlord and tenant. 3 hours each semester. (Given in alternate years. Not given in 1922-23).

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 1921-22).

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 1921-22).

DEPARTMENT OF EDUCATION.

CHARLES E. HODGIN, B.Pd., Professor.

BENJAMIN F. HAUGHT, A.M., Ph.D., Associate Professor of Psychology and Education.

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. 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. 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. Socializing school centers. Visual education. The modern playground movement. Vocational education and guidance. Work of the United States Bureau of Education. 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. Changed conceptions of the function of the school and reforms in its organization and administration. Management of social activities. Causes of retardation and elimination. 3 hours.

NOTE:—For courses in Psychology, Educational Psychology, Tests of Achievement, Intelligence Tests, given by Dr. Haught, see page 100.

DEPARTMENT OF ELECTRICAL ENGINEERING.

CHARLES EDWARD CAREY, B.S., E.E., Associate Professor.

VERNON B. WILFLEY, 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 and alternating current machinery.—Advanced work in electricity and magnetism. Electric circuits, direct and alternating current machinery and instruments. Prerequisite: Physics 52. 4 recitation hours per week. 4 credit hours.

102. Alternating currents.—A study of alternating currents and voltages, sine waves, vectors, and elementary alternating current machinery. Prerequisite: E. E. 101. 3 recitation hours per week. 3 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.

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.

107. Electrical laboratory.—Experimental work with direct and alternating current machinery. For engineering students taking civil, chemical, and geological engineering. 6 laboratory hours. 2 credit hours.

108. Direct and alternating current problems.—Solution of problems in direct and alternating current circuits and machinery together with elementary transmission line and transformer design. To be taken with E. E. 102. 2 hours per week. 2 credit hours.

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 and instruments. Prerequisite: E. E. 102. 4 recitations per 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 current 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.

171. Electrical laboratory.—A continuation of E. E. 106 and elementary laboratory work in alternating current machinery. 6 laboratory hours. 2 credit hours.

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 the 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. 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. 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, A.M., Ph.D., Professor.

GEORGE SHELTON HUBBELL, A.M., Ph.D., Assistant Professor.

Group requirements.—Courses 1 and 2 are prescribed for students in Arts and Sciences, to meet the requirements of Group I. A.

Major study.—For a major study, candidates must complete 24 credit hours in courses numbered above 50. These should include the following: 58 or 61, 78 or 81, 91, 141, 142 or 145, 146.

Minor study.—For a minor study, candidates must complete 12 credit hours in courses numbered above 50.

Primarily for Undergraduates.

1 and 2. Freshman English.—The principles and practice of composition together with a study of selected classics. 4 hours. (HESSLER and HUBBELL).

3 and 4. Freshman composition.—The principles and practice of composition. For engineers. 3 hours. (HUBBELL).

43. History of English literature.—(Not given after 1921-1922).

58. Argumentation and debate.—Training in the use of formal logic, supplemented by practice in debate. 2 hours. (HUBBELL). Prerequisite: English 1 and 2.

61. Advanced composition.—Practice in the writing of exposition and narrative. Prerequisite: English 1 and 2. 2 hours. (HESSLER).

63. Journalism.—Practical work in news writing. Prerequisite: English 1 and 2. 1 hour.

67 and 68. Short story writing.—(Not given after 1921-22).

78. The Romantic movement.—Reviews the beginnings of the Romantic movement in the 18th century, and takes up a detailed study of the poetry and prose of the period. Prerequisite: English 1 and 2. 3 hours. (HESSLER).

81. The Victorian period.—A careful study of representative poets and prose writers of the period. Prerequisite: 1 and 2. 3 hours.

82. American literature.—A general survey of the whole field down to 1880, with more intensive study of the great writers of the last century. Prerequisite: English 1 and 2. 3 hours. (HUBBELL). (Not given 1921-22).

85. The novel.—A historical survey of the novel from Fielding to Hardy, with reading and study of representative novels. Prerequisite: English 1 and 2. 2 hours. (HUBBELL).

91. History of the English language.—Special attention is given to the relation between linguistic and cultural changes. Prerequisite: English 1 and 2. (HUBBELL). (Not given 1921-22).

95 and 96. Masterpieces of Greek literature in English translation. Prerequisite: English 1 and 2. See Greek 95 and 96. 2 hours. (MITCHELL).

Primarily for Advanced Undergraduates.

102. A consideration of the history and theory of criticism, together with an analysis of the principal art forms. Prerequisite: English 1 and 2. 2 hours. (HESSLER).

121. Early English drama.—(Not given after 1921-22).

122. Contemporary drama.—(Not given after 1921-22).

128. The modern novel.—(Not given after 1921-22).

131. The essay.—The history of the essay, with practice in writing it. 2 or 3 hours. Prerequisite: English 1 and 2 and 61. (HESSLER). (Not given in 1921-22).

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

142. **Elizabethan drama.**—The dramatic works of Shakespeare's immediate predecessors and contemporaries, with special attention to their influence on Shakespeare's plays. Prerequisites: English 1, 2, and 141 or an equivalent course. 3 hours. (HUBBELL).

144. **Browning.**—(Not given after 1921-22).

145. **Spenser.**—Spenser, and the Renaissance in Elizabethan poetry. Prerequisites: English 1, 2, and 141. 3 hours. (Not given 1921-22). (HUBBELL).

146. **Milton.**—Most of the Milton's poetry will be read and some representative prose and verse of other writers of the period. Prerequisites: English 1, 2, and 145. 3 hours. (Not given 1921-22). (HESSLER).

151. **Chaucer.**—Chaucer, and a general survey of fourteenth century literature. Prerequisites: English 1, 2, and 91. 3 hours. (Not given 1922-23).

152. **Old English.**—A short review of Old English grammar, with a reading of selected writings. Prerequisites: English 1, 2 and 91. (Not given 1922-23).

DEPARTMENT OF GEOLOGY.

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

Group requirements.—Courses in Geology are accepted towards fulfillment of the requirements of Group III.

Major study.—Courses 1, 2, 51, 52, or their equivalent, must be taken by major students in this department; but credits in 1 and 2, may not be counted towards fulfilling requirements as to the number of hours to be taken in the major study.

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.

51, 52. **Mineralogy.**—Prerequisite: Elementary chemistry. 2 hours each.

For Advanced Undergraduates and Graduates.

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

103. **Paleontology.**—Prerequisites: Geology 1 and 2, Biology 1. 3 hours.

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, M.A., Ph.D., 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.

2. **Elementary reading course.**—Xenophon: Anabasis, Books I-III, or the equivalent. 3 hours.

12. **Composition and grammar.**—Intended to accompany 2. 1 hour.

95. **Greek literature in English translation: poetry.**—Epic, lyric, and dramatic poetry. No previous knowledge of Greek is required for admission to the course, the only prerequisite being one course in English. Same course as English 95. 2 hours. (Not given, 1922-23.)

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. (Not given, 1922-23.)

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. (Not offered in 1922-23).

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. (Not offered in 1922-23).

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 each semester.

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.

**DEPARTMENT OF HISTORY AND
POLITICAL SCIENCE.**

CHARLES F. COAN, M.L., Ph.D., 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 courses 1 and 2.

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

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

Primarily for Undergraduates.

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. **Colonization of North America.**—From the Age of Discoveries to the Peace of Utrecht. 3 hours.

52. **Colonization of North America.**—From the Peace of Utrecht to the adoption of the Constitution of the United States. 3 hours.

For Advanced Undergraduates.

101. **History of America.**—From the adoption of the Constitution to the Civil War. 3 hours.

102. **History of America.**—From the Civil War to the present. 3 hours.

121. **English history.**—From the Roman invasion to the overthrow of James II. 3 hours. (Not given 1922-23).

122. **English history.**—From the overthrow of James II. to the present. 3 hours. (Not given 1922-23).

137, 138. **Roman history.**—Same as Latin 137, 138. 2 hours. Dean Mitchell.

141. **History of the Arid Southwest.**—From pre-European times to the end of the Spanish period. 2 hours.

142. **History of the Arid Southwest.**—From the beginning of the American period to the present time. 2 hours.

171. **Pre-seminar in Western American History.** 2 hours.

172. **Pre-seminar in Western American History.** 2 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.

1. **American government.**—Political theory and national and state government. 3 hours. (Not given 1922-23).

2. **European governments.**—3 hours (Not given 1922-23).

101. **Far Eastern relations.**—Relations of the European powers and the United States to China and Japan. 2 hours.

102. **American diplomacy.**—Foreign relations of United States from the American revolution to the present. 2 hours.

DEPARTMENT OF HOME ECONOMICS.

MRS. WALTER SIMPSON, Ypsilanti, Professor.
EDNA ROY, B.A., 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, 181 and 194.

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

Primarily for Undergraduates.

11. 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; meth-

od 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 1922-23).

135. Textiles.—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.

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. Two lecture hours, 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.

DEPARTMENT OF LIBRARY SCIENCE.

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

1. Elementary library science.—A general introduction to library methods with a survey of cataloging, classification, reference work, ordering and selection of books. Lectures and practice work. 1 or more hours.

DEPARTMENT OF MATHEMATICS.

CHARLES ANTHONY BARNHART, M.A., Professor.

FRANK C. OGG, Assistant.

Group requirements.—Students in the College of Arts and Sciences may elect in the first two years from Mathematics 1, 2, 11, 12, 21, and 22, courses in which eight hours may be earned toward the fulfillment of the requirements of Group III.

Major study.—A major study in mathematics consists of a minimum of thirty hours (including Mathematics 134, 143, 181, and 182) earned in courses other than Mathematics 1 and 2.

Minor study.—A minor in mathematics consists of a minimum of twenty hours earned in courses other than Mathematics 1 and 2.

Primarily for Undergraduates.

1. **Algebra.**—The more advanced topics of elementary algebra. Prerequisite: Entrance algebra, 1 unit; plane geometry, 1 unit. 2 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 only: algebra, 1 unit; plane geometry, 1 unit. Each student offering the minimum entrance units in mathematics must register for and earn credit in Mathematics 1 for the first semester and Mathematics 2 for the second semester in addition to the regular engineering curriculum for the first year).

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

12. **College algebra.**—Prerequisite: Entrance algebra, $1\frac{1}{2}$ units; plane geometry, 1 unit. 3 hours. (Course 13 of 1921-22).

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

21, 22. **Plane analytic geometry.**—Prerequisite: Mathematics 2, 11, 12. 3 hours and 2 hours, respectively. (Course 14 of 1921-22).

51, 52. **Differential and integral calculus.**—Prerequisite: Mathematics 11, 12. 3 hours and 4 hours, respectively.

For Advanced Undergraduates and Graduates.

(Note:—Offerings from the following courses will be limited in any one semester to a maximum of six hours).

131. **Modern geometry.**—Prerequisite: Mathematics 21, 22. 3 hours.

132. **Averages and mathematics of investments.**—Prerequisite: Mathematics 11, 12. 3 hours.

133. **Advanced calculus.**—Prerequisite: Mathematics 52. 3 hours.

134. **Differential equations.**—Prerequisite: Mathematics 52. 3 hours.

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

142. **Teacher's course.**—Prerequisite: Mathematics 21, 22. 2 hours.

143. **Theory of equations and determinants.**—Prerequisite: Mathematics, 21, 22. 5 hours.

144. **Analytic geometry of space.**—Prerequisite: Mathematics 52, 3 hours.

181, 182. **Seminar.**—Prerequisite: 20 hours in courses other than Mathematics 1 and 2. 2 hours.

(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, B.S., B.M., Associate Professor of Voice and Theory.

MRS. D. W. FAW, Instructor in Piano and Pipe Organ.

LOUISE M. NICHOLS, Instructor in Piano.

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

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

Fees.—Additional fees are charged, respectively, for Piano and for Pipe Organ. 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.

Miscellaneous.—Each student of Voice or Piano is required to give two successful performances in recital, each year.

THEORY OF MUSIC.

1. **Elementary course.**—Elements of music, notation, elementary harmony, inversion, progressions, ear training. 1 hour.

2. **Advanced course.**—Advanced harmony, analysis, counterpoint and composition of 2, 3, 4 part music. 1 hour.

3, 4. **History and appreciation of music.**—Throughout the year. 1 hour. (LUKKEN).

5. **Public school music.**—Vocal and ensemble music, elementary harmony, sight reading and methods. Prerequisite: Ability to read at sight in vocal or instrumental music. 2 hours. (LUKKEN).

6. **Public school music.**—Vocal, piano, ensemble music, conducting, rote songs, music materials, methods. 2 hours. (LUKKEN).

ENSEMBLE MUSIC.

The following courses are organized each year; Men's, Women's, Mixed Chorus and Orchestra. $\frac{1}{2}$ to $1\frac{1}{2}$ credit hours. (LUKKEN).

VOICE.

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. (LUKKEN).

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; Conecone, Spicker. One or two lessons a week, earning 2 or 4 credit hours, both semesters. (LUKKEN).

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

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. (LUKKEN).

PIANO.

1, 2. Freshman course.—Exercises for independence of fingers, scales in thirds and sixths in parallel, motion, chords, touch and technic. Studies from Loeschorn: Op. 66; Heller: Op. 46 and 47; Schmoll: Bk. I; Czerny: Op. 636 and Op. 299, Bk. I. 6 pieces by standard classical and modern composers. Private recital work begun. Prerequisite: 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 lesson a week earning 2 credit hours. (FAW, NICHOLS).

51, 52. Sophomore course.—Scales in thirds and sixths in contrary motion. Octaves begun. Mason: Touch and Technic, Vol. II; Czerny: Op. 299, Bk. II, III, and IV. Studies from Kullak, Cramer, Schmoll: Bks. II and III; Bach: Easy Preludes and Fugues; Clementi: Sonatinas, 6 pieces from standard composers—Beethoven, Mozart, Grieg, Scharwenka, MacDowell, and modern composers. Private recital work continued. 1 lesson a week earning 2 credit hours. (FAW, NICHOLS).

101, 102. Junior course.—Octaves continued. Horvath: Bk. I and II; Mason: Touch and Technic III; Czerny: Op. 740; Bach: Two and Three Part Inventions; Sonatas of Beethoven, Mozart, Haydn; Preludes and Nocturnes of Chopin; Solos from standard classical and modern composers—Moszkowski, Tchaikowski, Henselt, Liszt, MacDowell, Cyril Scott, and others. Public work emphasized. 1 lesson a week earning 2 credit hours. (FAW, NICHOLS).

151, 152. Senior course.—Octaves continued. Mason: Touch and Technic, IV; Clementi: Gradus ad Parnassum; Bach: Well tempered clavier; Chopin: Etudes, waltzes, and nocturnes; Sonatas and concert pieces by Beethoven, Schumann, Liszt, Schubert, MacDowell, and modern composers. Public work continued. Complete recital program of sonatas, solos, etc. 1 lesson a week earning two credit hours. (FAW, NICHOLS).

PIPE ORGAN.

51, 52. Beginners' course.—Registration, manual touch, and expression emphasized. Stainer: The Organ; Nilson: The Pedal. Public recitals required. Prerequisites: Piano 1, 2; 51, 52 advised. (FAW).

PHYSICAL EDUCATION.

(For courses given in Physical Education, see pages 70, 71).

PHYSICS.

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

VERNON B. WILFLEY, Assistant.

Major study.—Courses above 1 and 2 are accepted toward 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 3 hours, laboratory, 1 period per week. 4 hours.

2. **General physics.**—A continuation of physics 1. Lectures and problems 3 hours, laboratory, 1 period per week. 4 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. 2 hours.

54. **Laboratory physics.**—Magnetism, electricity, sound and light. To accompany Physics 52. Discussion and problems, 1 hour; laboratory, 1 period per week. 2 hours.

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 1921-22, alternating with Physics 162).

154. Light laboratory.—To accompany Physics 152. Laboratory, 2 periods per week. 2 hours. (Given in 1921-22, alternating with 164).

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, B.S., 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. 6 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 PSYCHOLOGY.

BENJAMIN FRANKLIN HAUGHT, A.M., Ph.D., Associate Professor.

Group requirements.—Courses 51 and 52, when accompanied by 61 and 62, are accepted toward fulfillment of the requirement in Group III.

Major study.—Students taking major in psychology will be required to complete 24 credit hours in the department.

Minor study.—Students taking a minor in psychology will be required to complete 12 credit hours in the department.

Small laboratory fees will be charged in experimental courses.

Primarily for Undergraduates.

51. General psychology.—An introductory course treating the following topics: reactions, instincts, emotions, feelings, sensations, attention and intelligence. 3 hours.

52. General psychology.—A continuation of 51. The following topics are studied: learning, memory, association, perception, reasoning, imagination, will, and personality. Prerequisite: 51. 3 hours.

61, 62. Experimental psychology.—Classical experiments in the field of action, feeling, attention, sensation, perception, illusions, and learning. Prerequisite or parallel: 51. 2 hours each semester.

For Advanced Undergraduates and Graduates.

101. Social psychology.—A study of behavior as influenced by other human beings; organization into opposing and co-operating groups; habits, customs, conventions, language, suggestion, imitation, emotions, and their relation to social progress; leadership, individual differences, and vocational guidance. Prerequisite: 51 and either 52 or 61. 3 hours. 101 and 103 not both given in the same year.

102. Psychology of advertising.—A study of psychological principles of advertising, with exercises in measuring the merits of current advertisements. Prerequisite: 51 and either 52 or 61. 3 hours.

103. Comparative psychology.—A survey of original researches dealing with experiments on instincts, heredity, learning, delayed reactions, multiple choice reactions. Prerequisite: 51 and either 52 or 61. 3 hours. 101 and 103 not given in the same year.

105, 106. Educational psychology.—Instincts, habit, learning, and individual differences with special emphasis upon educational problems. Prerequisite: 51 and either 52 or 61. 3 hours each semester.

111. Achievement tests.—A survey of the available tests and scales; the general technique of giving and scoring tests; the tabulation and interpretation of results. Prerequisite: 51 and either 52 or 61. 3 hours.

112. Intelligence tests.—A survey of group and individual tests; the technique of giving and scoring tests; interpretation of results. Prerequisite: 51 and either 52 or 61. 3 hours.

151, 152. Advanced experimental psychology.—Exercises so selected and arranged as to familiarize the student with the methods, apparatus, and results of typical experiments in each of the approved lines of psychological research. Prerequisite: Consent of the instructor. 2 hours each semester.

155, 156. **Special problems in psychology.**—An experimental and statistical study of a problem selected by the student and approved by the instructor. Prerequisite: consent of the instructor. 2 hours each semester.

(Courses 151-156 are offered only when instructor's time permits).

PHILOSOPHY.

115. **Introduction to philosophy.**—A general introductory course dealing with elementary philosophical problems. Prerequisite: 51. 3 hours.

116. **History of philosophy.**—A study of the development of modern thought. Prerequisite: 52 and 115. 3 hours.

DEPARTMENT OF ROMANCE LANGUAGES AND LITERATURES.

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

ANITA M. OSUNA, M.A., Instructor 1922-23.

RALPH OCTAVIO HERNANDEZ, Assistant.

Entrance requirements.—Students who enter with two units of French or Spanish may enroll in French 51 or Spanish 51. If they have not had a course in the respective language the preceding half-year, they are admitted to these courses only by permission. Students who enter with four units may enroll in French 101 or Spanish 101.

Major study.—In Spanish, 24 credit hours above 1 and 2, including 103-104. No major study in French is offered at present.

Minor study.—In either language, 12 hours above 1, 2, including 53, 54.

FRENCH.

Primarily for Undergraduates.

A. **English grammar.**—Required of all students in beginning courses who have not had grammar in high school. 1 hour a week. No credit.

1, 2. **Elementary French.**—5 hours.

51, 52. **Intermediate French.**—Reading. 3 hours.

53, 54. **Intermediate French.**—Composition. 2 hours.

Primarily for Advanced Undergraduates.

101, 102. **Modern drama.**—The works of representative authors of the period will be studied. 3 hours.

SPANISH.

Primarily for Undergraduates.

A. **English grammar.**—Required of all students in beginning courses who have not had grammar in high school. 1 hour a week. No credit.

1, 2. **Elementary Spanish.**—5 hours.

51, 52. **Intermediate Spanish.**—Reading. 3 hours.

53, 54. **Intermediate Spanish.**—Composition. 2 hours.

Primarily for Advanced Undergraduates.

- 101, 102. **Modern drama.**—(Alternating with 107-108) 3 hours.
- 103, 104. **Advanced composition.**—Prerequisites: 53-54. 2 hours.
- 107, 108. **Modern novel**—(Alternating with 101-102) 3 hours (Not given in 1922-23.)
- 151, 152. **Advanced course.**—To be arranged. 2 hours.
- 191, 192. **Course for teachers.**—2 hours. (Not offered, 1922-1923).

DIRECTORY OF STUDENTS

January 1st, 1921-December 31st, 1921.

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; Eng—College of Engineering; Grad—Graduate School; Spl—Special; Uncl—Unclassified. This list includes the students registered during the calendar year, but indicates the number of semester credit hours earned by the close of the first semester, 1921-1922. The asterisk * indicates those enrolled for academic year 1921-1922.

Name and address	Division	Hours of Credit
Abrams, Esther, Aztec,	A & S	23.9
*Aitkenhead, Paul W., Lafayette, Ind.	Eng	19
*Albers, Robert J., Bendena, Kans.	A & S	106.53
Allard, Dorothy, Albuquerque.....	A & S	17
*Anderson, Olga L., Raton	Spl.	
*Andrews, Frances, Santa Fe.....	A & S	14
*Angle, Wm. Richard, Albuquerque.....	Eng	45.8
Bacon, William T., Albuquerque.....	Spl.	18.2
Barton, Belle, Albuquerque.....	A & S	28
*Baser, Mildred, Albuquerque.....	A & S	15
Beahm, Samuel E., Albuquerque.....	Grad.	
Beckman, Beatrice G., Albuquerque.....	A & S	20
*Bentley, Lillian Estelle, Albuquerque.....	A & S	12
*Berger, Walter O., Albuquerque.....	A & S	78.33
*Bernhardt, George Clifford, Santa Rosa.....	A & S	88.7
*Betts, Ervin O., Clovis.....	Eng	18.5
Bevan, Bruce A., El Paso, Tex.	Spl.	25.7
*Blake, Frederic, Albuquerque.....	Eng	14
Blom, Harvey E., Roswell.....	Eng	60
Boldt, Leslie G., Albuquerque.....	A & S	72.7
Booker, Herald H., Dewey, Okla.	Eng	94.83
*Bowers, Edgar A., Malaga.....	A & S	13
Bower, Chalmers H., Alamogordo.....	Eng	144
*Bowman, Walter E., St. Johnsbury, Vt.....	A & S	47
Bramlett, Thomas Forrest, Portales.....	Eng	35.33
*Brandebury, Harold, Albuquerque.....	Eng	56.3
Breeden, Beulah E., Lenora, Kans.	A & S	76
*Brooks, Ralph S., Taos.....	Eng	49.58
Brown, Arthur F., Raton.....	Eng	65.47
*Brown, Ruth, Albuquerque.....	A & S	16
*Brummitt, Jennie, Jellico, Tenn.	Spl.	
*Brundage, Phoebe, Rochelle, Ill.	Grad	
*Bryan, Elmer L., Roswell.....	Eng	51.8
*Bryan, George S., Albuquerque.....	A & S	73.93
*Burse, Joseph A., Albuquerque.....	A & S	37.5

Name and address	Division	Hours of Credit
*Burton, Lorena K., Albuquerque.....	A & S	70
Bussert, Maude, Albuquerque.....	A & S	
*Caldwell, Charles S., Albuquerque.....	A & S	111.4
*Calkins, Thomas V., Albuquerque.....	A & S	105
*Cameron, Dorothy R., Albuquerque.....	A & S	64.1
*Cameron, Eleanor, Albuquerque.....	A & S	115.66
*Candelaria, Jose I, Albuquerque.....	A & S	55
*Carlock, Neil S., Albuquerque.....	Eng	
*Carter, Effa, Acme.....	A & S	16
*Cartwright, Robert B., Cimarron.....	A & S	74.46
Cassidy, Frank C., Albuquerque.....	A & S	60
*Cassidy, Morley F., Albuquerque.....	A & S	98.5
Chancellor, Margaret, New Hope.....	A & S	30
*Chant, Lloyd H., Stronghurst, Ill.	Eng	11
*Cheetham, Everett, Taos.....	Eng	14
*Civerola, James A., Gallup.....	Eng	10
*Clark, William A., Chelsea, Okla.	Eng	13
Cleaveland, Loraine, Berkeley, Calif.	A & S	28
*Cleve, Marjorie, Roswell.....	A & S	41.5
*Coen, Mabel, Madrid.....	A & S	15
*Coffman, Richard, Dayton, Ohio.....	A & S	13.33
*Collins, William A., Phoenix, Ariz.	A & S	71.4
*Colwell, Dallas E., Texico.....	Eng	59.33
*Condit, Flossie, Albuquerque.....	A & S	12
*Conner, Isabelle, Dawson.....	A & S	44.3
*Conner, Robert W., Roswell.....	A & S	43
Connolly, Vincent T., Oakland, Calif.	A & S	11
*Cooper, Cecil M., Albuquerque.....	Eng	58
Craig, Reginald S., Los Angeles, Calif.	Eng	143.53
Crawford, Dorothy, Albuquerque.....	A & S	166.29
Crawford, James M., Ashland, Miss.	A & S	33.5
Crawford, Laura, Roswell.....	A & S	6.9
*Culpepper, Albert L., Carlsbad.....	A & S	5
Culpepper, Charles C., Carlsbad.....	A & S	41.2
*Culpepper, Mollie, Carlsbad.....	A & S	10
Danfelser, Lee E., Roswell.....	A & S	9
*Darrow, Louise R., Trinidad, Colo.	A & S	8
*Davies, Hanlon E., Santa Fe.....	Eng	2.7
Davis, Irene, Mokane, Mo.	A & S	125.49
*Davis, Robert W., Geronimo, Ariz.	Eng	96.86
*Dearing, Catherine E., Albuquerque.....	A & S	33.66
*Dixon, Lawrence G., Bakersfield, Calif.	Eng	36
*Dixon, Newell, Albuquerque.....	A & S	12
Dixon, Wenonah, Albuquerque.....	A & S	125.33
Donovan, Dorothy, Detroit, Mich.	A & S	
*Doss, Mildred, Artesia.....	A & S	16
*Dougherty, Ruth, Long Beach, Calif.	A & S	29
*Dow, W. Lawrence, Colmor	Eng	37
*Dunn, Mabel, Ft. Sumner.....	A & S	7
*Dykes, Elsie Ruth, Tucumcari.....	A & S	67.3

Name and address	Division	Hours of Credit
*Easterday, Margaret, Albuquerque.....	A & S	16
*Edgar, Russell E., Albuquerque.....	A & S	14
Elder, James K., Albuquerque.....	Eng	13
*Elder, Robert M., Albuquerque.....	A & S	14
Eldodt, Joseph M., Chamita.....	A & S	138.9
Espinosa, Pepita, Albuquerque.....	A & S	5.8
Evans, James E., Carrollton, Mo.	A & S	7.6
*Fairly, (Dixon), Nora M., Portales.....	A & S	105.5
*Farley, Thelma M., McIntosh.....	A & S	9.5
*Faw, Howell S., Albuquerque.....	A & S	70.5
*Fee, Irene L., Albuquerque.....	A & S	67.4
Ferguson, Iva M., Albuquerque.....	A & S	104
*Ferguson, Maxwell, Albuquerque.....	Eng	92.8
Ferguson, Wm. Russell, Albuquerque.....	A & S	122
*Fernstrom, John, Topeka, Kans.	A & S	62.66
*Fertsch, Lin M., Hereford, Texas.....	A & S	119
Fetzer, Clair A., Alamogordo.....	Eng	131
*Fisher, Alletta R., Topeka, Kans.	A & S	65
*Fleischer, Juliet, Albuquerque.....	A & S	46
Foraker, Charles B., Albuquerque.....	Eng	85.8
Foster, Arthur T., Albuquerque.....	Spl.	2
*Fullerton, Elvina S., Santa Fe.....	A & S	52
*Gant, Leslie, Clovis.....	Eng	9
Gass, Kenneth R., Albuquerque.....	Eng	56.6
*Georges, James Frank, Albuquerque.....	Eng	97.9
*Gerhardt, Emma, Tucumcari.....	A & S	46.5
Gerpheide, Bennie F., Albuquerque.....	A & S	23.9
Gerpheide, Louis J., Albuquerque.....	A & S	62.7
Gibbs, Madge M., Albuquerque.....	A & S	4
*Gilbert, Roy D., Albuquerque.....	A & S	54.5
*Gilbert, Walter B., Albuquerque.....	Eng	35.5
*Gilliam, Samuel H., Kephart	Eng	40
*Gilmore, John Y., Albuquerque.....	Eng	55
*Giomi, John, Albuquerque.....	A & S	20
Goetz, Helen E., Albuquerque.....	A & S	134
*Goodin, Dolly A., Roswell.....	A & S	22.3
Gott, Margaret, Henrietta, Mo.	A & S	55.7
*Gould, Ralf F., Albuquerque.....	A & S	94.4
*Graham, Hugh J., Albuquerque.....	A & S	62.7
*Greenleaf, Frank O., Albuquerque.....	Eng	102.83
*Greuter, Kenneth, Albuquerque.....	A & S	17
*Grigsby, Gwyndolyn, Albuquerque.....	A & S	80
*Grimes, Bruce George, Clayton.....	A & S	10
Grunsfeld, Clarence, Albuquerque.....	A & S	1.3
*Guley, Agnes Blanche, Colorado Springs, Colo. .	A & S	106.8
*Gusdorf, Margaret, Albuquerque.....	A & S	12
*Hale, Wm. M., Roswell.....	A & S	40.9
Hall, Alice C., Albuquerque.....	Spl.	
*Hamilton, Mary M., Hartford, Ark.	A & S	76
*Hamilton, Nell L., Hartford, Ark.	A & S	54

Name and address	Division	Hours of Credit
Hamm, Atha, Albuquerque.....	A & S	65
Hand, Edna V., Alton, Kans.	A & S	30
*Hanger, Bruce B., Albuquerque.....	A & S	41
Hardeman, Margaret E., Albuquerque.....	A & S	53
*Harden, Olive, Albuquerque.....	A & S	2
Harmon, Oscar W., Mount Vernon, Ia.	A & S	93.85
*Harrington, Eldred R., Albuquerque.....	Eng	50
Harrington, Jessie, Santa Fe.....	A & S	19
Harris, Jackson, Albuquerque.....	Spl	13.7
Hart, Mayme B., Lovington.....	A & S	122
Hayes, John Pope, Roswell.....	A & S	56.53
Heacock, Wm. O., Albuquerque.....	Eng	8
*Heflin, Ruth, Albuquerque.....	A & S	37.5
*Hemlin, Helen, Albuquerque.....	Spl	4
Hempstead, Maynard, Topeka, Kans.	A & S	9.3
Herby, Vera Ruby, Albuquerque.....	A & S	25.3
*Hernandez, Louis, Albuquerque.....	A & S	12
*Hernandez, Ralph O., Albuquerque.....	A & S	97.2
*Hernandez, Walter R., Albuquerque.....	A & S	24.3
Herron, Jane, Albuquerque.....	A & S	22
Heslet, Frank Guy, Albuquerque.....	A & S	130.3
*Hesselden, Louis G., Albuquerque.....	Eng	41.8
*Hess, Lester C., Mannington, W. Va.	A & S	
*Hess, Nelle C., Mannington, W. Va.	A & S	62
*Hickman, Roy, Chattanooga, Tenn.	A & S	13
Hill, Elizabeth A., Albuquerque.....	A & S	26.9
Hillyer, Edna I., Albuquerque.....	A & S	50
*Hite, George C., E. Las Vegas.....	A & S	37.5
Hittson, Charles H., Albuquerque.....	A & S	67
*Holm, Wm. Albuquerque.....	Spl	
*Hopewell, Robt. W., Albuquerque.....	A & S	101.7
*Horgan, Edward, Jr., Albuquerque.....	A & S	69
Howden, Douglas F., Albuquerque.....	A & S	123.6
*Hoyland, Walter, Mountainair.....	Eng	5
*Huffine, Clarence D., Raton.....	Eng	107.66
*Huffine, Clifton B., Raton.....	Eng	19
*Huffstaller, Irl. Maryville, Tenn.	Eng	26
*Hughes, Thomas, Albuquerque.....	A & S	30
*Hyder, Latif, Albuquerque.....	A & S	8
*Igou, Douglas R., Eustis, Fla.	A & S	
*Jackson, Helene M., Aztec.....	A & S	46
Jahn, Violet, Morrellton, Mo.	A & S	62.6
*Jelfs, Jack, Raton.....	A & S	9
*Johnson, Leonora M., Lovington.....	A & S	132.49
*Johnston, Octavia, Clinton, Mo.	A & S	108.5
*Jones, Ogle S., Roswell.....	A & S	12
Jordon, Vera E., Des Moines, Ia.	Grad.	
*Kiech, Veon, Albuquerque.....	A & S	47.5
*Killam, Edgar A., Chicago, Ill.	A & S	8.8
*Kimball, Levi, Albuquerque.....	Eng	46.16

Name and address	Division	Hours of Credit
Kiss, Geza J., San Bernardino, Calif.	A & S	62.7
*Lamb, Mariet, Roswell.....	A & S	40.33
*Lewis, Merton W., Albuquerque.....	A & S	15
*Lighton, Edward W., Albuquerque.....	A & S	113.9
Lindsey, Helen M., Portales.....	A & S	86
*Long, Menefee, Portales.....	Eng	43
*Lovitt, Lawrence E., Albuquerque.....	Eng	37
Luckey, Neva, Brazeau, Mo.	A & S	17.8
*Lyckman, Thelma L., Madrid.....	A & S	103.5
Maharam, Edythe M., Albuquerque.....	A & S	29.9
Mann, Grant H., Albuquerque.....	Spl	
*Mapes, Eddie R., Roswell.....	A & S	27
*Marcus, David, Albuquerque.....	A & S	5
*Martin, Geo. B., Gallup.....	A & S	66.96
Masten, Alfred R., Springer.....	A & S	139
Masten, Julie E., Springer.....	A & S	55.66
*Mayne, Norman D., Albuquerque.....	A & S	126.2
*Mearns, Fyelyn, Albuquerque.....	A & S	9.5
Meyers, John E., Albuquerque.....	A & S	76.7
*Miller, David A., Santa Fe.....	A & S	9
Miller, Floyd D., Albuquerque.....	A & S	51
Miller, Ralph E., Albuquerque.....	A & S	45.7
Miller, Victor, Albuquerque.....	Eng	83
*Mitchell, Fredah, Roy.....	A & S	16
Mize, Mary, Carlsbad.....	A & S	16
*Moore, Horace S., Albuquerque.....	Eng	55
*Morgan, Edward O., Clovis.....	Eng	70.8
*Morgan, Esther, Albuquerque.....	A & S	51
*Morgan, Ruth, Albuquerque.....	A & S	24.5
*Morgan, Willis E., Albuquerque.....	A & S	12
*Morris, Cola R., Albuquerque.....	A & S	30.5
*Morris, Hazel, Shiprock.....	A & S	49
*Morrison, Mardell C., Portales.....	A & S	15
Morrisette, Betty, El Paso, Tex.	A & S	12.6
*Mosher, Edith R., Albuquerque.....	A & S	113.33
*Mozley, Paul P., Albuquerque.....	A & S	109.47
*Murphy, Mary, Madrid.....	A & S	7.5
MacArthur, Archibald S., Albuquerque.....	A & S	31.26
*MacArthur, Helen E., Albuquerque.....	A & S	59.66
McClure, Dwight L., Albuquerque.....	Eng	50.5
*McCulloh, Clyde, Albuquerque.....	Eng	19
*McConnell, Zelda, Albuquerque.....	A & S	13
*McDowell, Louise, Albuquerque.....	A & S	11
*McDowell, Katherine, Albuquerque.....	A & S	120.16
*McGuire, Anna, Albuquerque.....	A & S	16
*McGuire, Mary L., Albuquerque.....	A & S	37
McIlvain, Helen, Carlsbad.....	A & S	40.66
McIver, Irene E., Trickham, Tex.	Spl	13
*McKeehnie, Ian C., Albuquerque.....	Eng	52
McLaughlin, D. Deane, Albuquerque.....	A & S	

Name and address	Division	Hours of Credit
*McMullin, (Popejoy), Mary, Alathe, Colo.	A & S	71
Nafziger, May Lily, Denver, Colo.	A & S	39
Nafziger, Raymond E., Albuquerque.....	A & S	98.5
*Neher, Frank H., Albuquerque.....	A & S	95.93
*Nelson, Helen, E. Las Vegas.....	A & S	72.4
*Nelson, Maude V., Datil.....	Eng	17
Newcomer, Albert W., Albuquerque.....	Eng	65.93
*Nixon, Fred, Wellington, Kans.	Spl	45.67
*Nixon, Opal F., Wellington, Kans.	A & S	10.5
*Norton, Warren H., Logtown, Miss.....	A & S	42
*Ogg, Frank C., Albuquerque.....	A & S	118.66
*O'Hara, Florence E., Clovis.....	A & S	59
Osuna, Anita Mary, Albuquerque.....	A & S	132.06
*Osuna, Aurelia Marie, Albuquerque.....	A & S	105.06
*Osuna, Phillip, Albuquerque.....	A & S	7
Overstreet, Frank A., Optimo.....	Eng	145.9
*Owen, George, Los Lunas.....	A & S	12
*Pannell, Elias C., Okolona, Miss.	A & S	65.3
*Parsons, Clarissa M., Ft. Sumner.....	A & S	47.5
*Patton, Lillian E., Clovis.....	A & S	75.46
*Patton, Perkins L., Clovis.....	A & S	89.66
*Payne, Bertha Lee, Albuquerque.....	A & S	8
*Pearce, Cullen T., Dawson.....	Eng	89.33
*Perez, Tonchita, Socorro.....	A & S	106.16
Petersen, Ethyl Grace, Albuquerque.....	A & S	121
*Phillips, Margaret, Taos.....	A & S	7
Pierce, Lois, Hudson, S. D.	A & S	123.4
Pineda, Louis G., Albuquerque.....	Spl.	
*Popejoy, John Richard, Raton.....	A & S	50
*Popejoy, Tom, Raton.....	A & S	8
*Porter, Isabelle W., St. Johnsbury, Vt.,	A & S	17
Prosser, Teresa M., Cedar Rapids, Ia.	Spl	4
*Pugh, Pat, Dallas, Tex.	A & S	13
Ream, Glen O., Rising Sun, Ohio.....	Spl	
*Reeve, Frank D., Alameda, Calif.	A & S	23
*Reynolds, Jas. T., Navasota, Tex.	Eng	10
*Rogers, Frances L., Columbus, Ohio.....	A & S	39
*Rose, Lucile, Roswell.....	A & S	16
Rosenbach, Samuel, Albuquerque.....	Eng	146.5
Roslington, Wilbur Geo., Albuquerque.....	A & S	
*Roy, Wm. Albuquerque.....	A & S	51.33
*Russell, Chester, Artesia.....	Eng	19
*Russell, Dora M., Artesia.....	A & S	79.96
*Russell, Ruth, Albuquerque.....	Spl	1
Sain, Floryda, Roswell.....	A & S	50.2
Sampson, Geo. V., Winslow, Ariz.	A & S	86.3
*Sands, Mary K., E. Las Vegas.....	A & S	106.46
*Sands, Vernon L., E. Las Vegas.....	Spl	6
Savage, George W., Utica, N. Y.	A & S	25
Scheibe, Miriam J., Albuquerque.....	A & S	57

Name and address	Division	Hours of Credit
Schultz, Ilse Pauline, Albuquerque.....	A & S	60.5
*Scoopmire, Vance T., Gallup.....	A & S	46
Scruggs, John M., Albuquerque.....	A & S	126.5
*Scruggs, Helen Darrow, Albuquerque.....	A & S	106.33
Sganzini, Freddie C., Albuquerque.....	Spl	
Sganzini, William J., Albuquerque.....	A & S	36.2
*Sharp, Jonathan, Greensville, Ill.	Eng	127
Shaw, Helen E., Roswell.....	A & S	47
*Sheffield, Louree, Melrose.....	Uncl.	
Sheldon, Arthur B., Ft. Wingate.....	A & S	
*Shepherd, Elizabeth M., Roswell.....	A & S	15
*Sherwood, Leona V., Dawson.....	A & S	65.32
Short, Fletcher L., Albuquerque.....	Eng	133.33
Shotwell, Katherine, Albuquerque.....	A & S	135.1
*Shrader, Mildred, Roswell.....	A & S	14
*Skeel, George L., Cleveland, Ohio.....	A & S	34.5
Sloan, Lida, Albuquerque.....	A & S	113
Smith, Evangeline, El Paso, Tex.	A & S	73.86
*Smith, Velma K., Artesia.....	A & S	16
*Snyder, Dale H., Albuquerque.....	A & S	40
*Snyder, Dudley W., Albuquerque.....	A & S	15
*Snyder, Wilma, Albuquerque.....	A & S	130.33
*Spargo, Margaret, Albuquerque.....	A & S	12
Spruce, Joy, Floresville, Tex.	A & S	61.8
*Stahl, William R., Trenton, N. J.	A & S	29
*Stephenson, Dorothy, Artesia.....	A & S	100.36
*Stern, Arthur, Albuquerque.....	A & S	34
*Sterrett, Leigh, Albuquerque.....	A & S	12
*Sterrett, John D., Albuquerque.....	A & S	7
*Stinnett, Marion, Portales.....	A & S	75.33
*Stofer, Willard E., Gallup.....	Eng	67.93
*Stowell, Abe, Albuquerque.....	A & S	16
*Stowell, Helen, Albuquerque.....	A & S	76.5
*Stroup, Jessie McMillan, Albuquerque.....	A & S	4
*Swinney, James B., Tyrone.....	Eng	55.36
*Thomasset, Charles A., Albuquerque.....	Spl	6
*Thomasset, Mary Kappes, Albuquerque.....	A & S	8
Travis, Ada Belle, Brooklyn, N. Y.	A & S	62.03
*Tully, Jeraldine, Glencoe.....	A & S	16
Tully, Susan K., Glencoe.....	A & S	27.9
*Van Gieson, Helen C., Albuquerque.....	A & S	33
Veenhoff, Bernhard, Albuquerque.....	Spl	
*Wack, Eva M., Carrizozo.....	A & S	
*Wagner, Dorothy, Albuquerque.....	A & S	24
*Wagner, Frederick T., El Las Vegas.....	A & S	49.6
*Wait, Richard Dean, Albuquerque.....	A & S	41
*Walker, Ann Myrle, Embudo.....	A & S	45.3
*Walter, Constance, Santa Fe.....	A & S	15
Ward, J. Sterling, Artesia.....	A & S	80.56
*Ward, William W., Albuquerque.....	A & S	72

Name and address	Division	Hours of Credit
Warren, Robert P., Alamogordo.....	A & S	4
*Waters, Louis H., Las Vegas.....	Spl	5
*Waymire, Eldon, Englewood, Ohio.....	Eng	12.6
*Weber, Norma L., Pekin, Ill.	A & S	50
*Weeks, Fred L., Albuquerque.....	Grad.	
*Weisenbach, Estelle, Albuquerque.....	A & S	110
Wetmore, Edith S., Albuquerque.....	Spl	
*White, Athington, Silver City.....	A & S	43
*White, George W., Albuquerque.....	A & S	114.59
*White, Mary Elizabeth, Albuquerque.....	A & S	4
*Whitehill, Myrtle, Deming.....	A & S	12
*Whittier, John W., Santa Fe.....	A & S	46.9
*Wicklund, Irene B., Albuquerque.....	A & S	107.7
*Wilfley, Vernon B., Roswell.....	Eng	126
*Wilkinson, John W., Albuquerque.....	Eng	19
*Wilkinson, Jim Vernon, St. Petersburg, Fla.	A & S	5
*Wilkinson, Claude Kenneth, Ft. Sumner.....	Eng	84.43
*Wills, Frank De Witt, Estancia	A & S	13
*Williams, Jennie, Artesia.....	Uncl	
Williams, Merle, Albuquerque.....	A & S	11
*Williams, Norma, Albuquerque.....	A & S	13
*Willson, Mary E., Gallup.....	A & S	13
*Wilson		
*Wilson, Clyda, Albuquerque.....	A & S	106.16
*Wilson, Wm. Marshall, Oak Park, Ill.	Eng	50.6
Wilson, Rollin W., Woodstock, Ill.	Spl	
Witten, Oliver Byrd, Deming.....	Eng	63.6
*Wood, Harold E., Gallup.....	Eng	
*Wood, Mary Ethel, Gallup.....	A & S	34
*Wootton, Tom P., Hazard, Ky.	Eng	
*Zimmerman, Ruth, Topeka, Kans.	A & S	95.3

NEW STUDENTS REGISTERED, 1922.

Credit
at
Entrance

The following students, not registered during the calendar year of 1921, have registered for the second semester, 1921-1922.

Armerding, Carl, Albuquerque, New Mexico.....	Special	7.33
Coury, Isidore J., Santa Rosa, New Mexico.....	A & S	
Crow, Samuel W., Topeka, Kansas.....	A & S	29.33
Matson, Marcella M., Albuquerque.....	A & S	13
McCarthy, Walter R., Albuquerque N. M.,	A & S	
McComie, Rosa, Nowata, Oklahoma.....	A & S	89
McKinley, Monroe K., Hayesville, Ohio.....	A & S	
Moore, Winston C., Bisbee, Arizona.....	Special	
Murphy, Rosemae, Albuquerque, New Mexico....	A & S	18.75

Name and address	Division	Hours of Credit
Overton, Myrtle R., Cairo, West Virginia.....	Special	
Riordan, Maude, Albuquerque, New Mexico.....	A & S	58
Schneider, Frederick L., Albuquerque, N. M., ..	Grad	
Smithers, Margaret, Albuquerque, New Mexico..	A & S	
Sullivant, Charles R. Jr., Albuquerque, N. M....	A & S	
Valentine, Fredwyn H., Santa Fe, New Mexico..	A & S	
Walker, Albert E., Topeka, Kansas.....	Eng	36

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 1921: M. E.—Mental and Educational Tests; Sp.—Spanish; Eng.—English Literature; E. P.—Educational Problems; H. N.—Home Nursing; H. E.—Home Economics; J.—Journalism

Adele, Sister Marie.....	M. E.	Lyter, Curtis.....	J.
Albertella, Sister M.....	E. P.	Mabry, Mrs. Thos. J.....	H. E.
Anderman, George.....	Sp.	Mahoney, Helen H.....	Sp.
Anesia, Sister M.....	E. P.	Malett, Fred.....	Sp.
Angela, Sister M.....	E. P.	Maloney, Minnie.....	Eng.
Antonetta, Sister M.....	E. P.	Marron, Mrs. O. N.....	Eng.
Barnaba, Sister M.....	E. P.	Mathia, Sister M.....	E. P.
Beata, Sister M.....	E. P.	Meachem, Mrs. M. H.....	J.-Eng.
Bertrand, Sister Louis.....	Eng.	Menke, Rose.....	Sp.
Bibiana, Sister M.....	E. P.	Merkel, Paul G.....	J.
Brigitta, Sister M.....	E. P.	Mersfelder, Mrs. L. C.....	H. E.
Bunjes, H. G.....	Sp.	Meyer, Mrs. Leopold.....	H. E.
Burke, Irene.....	M. E.	Miller, Dorothy.....	Sp.
Butt, Mrs. I. O.....	Eng.	Moneton, Mrs. E. L.....	H. E.
Concordia, Sister M.....	E. P.	Mozley, Mrs. C. A.....	H. E.
Cordia, Sister M.....	E. P.	McCarthy, I. M.....	Sp.
Danahy, Mrs. T. M.....	H. N.	McClure, Charles E.....	M. E.
Dodds, Mrs. D. C.....	H. E.	McGregor, Elsie.....	Sp.
Dulcelina, Sister M.....	E. P.	McGregor, Ian.....	Sp.
Edgar, Mrs. Russell.....	Eng.	Natalena, Sister M.....	E. P.
Electa, Sister M.....	E. P.	Nelson, Bernice.....	H. N.
Edsall, Bessie E.....	Sp.	Ositha, Sister M.....	E. P.
Elenara, Sister M.....	E. P.	Peters, J. C.....	Sp.
Elise, Sister M.....	M. E.	Philomene, Sister M.....	E. P.
Ethelfrieda, Sister M.....	E. P.	Plant, E. Myrtle.....	M. E.
Euphemia, Sister M.....	E. P.	Radley, Arla.....	M. E.
Evarista, Sister M.....	E. P.	Raphaella, Sister M.....	E. P.
Fairly, Nora.....	Eng.	Renata, Sister M.....	E. P.
Filer, Constance.....	J.	Rippner, Estelle.....	Sp.
Fruchtman, Mrs. M. J.....	H. N.	Rolendis, Sister M.....	E. P.
Gazley, Valyne.....	H. E.	Russell, Ruth.....	Eng.
Gerarda, Sister M.....	E. P.	Sanchez, Angele.....	Eng.
Gielitz, Louis.....	Sp.	Schmidt, Helen.....	H. E.
Gilmore, C. R.....	Eng.	Schule, Geo.....	Sp.
Goetz, Herbert A.....	Eng.	Schumaker, Mrs. C. A.....	Sp.-H. N.
Gould, Alice.....	J.	Schumaker, Dr. C. A.....	Sp.
Hackman, Edward.....	Sp.	Shirley, O.....	Sp.
Harnois, Cora.....	Eng.	Shortle, Mrs. A. G.....	Sp.
Helen, Sister.....	Eng.	Stephana, Sister M.....	E. P.
Hicks, Madelaine.....	J.	Swayne, Mrs. W. M.....	H. E.
		Sweet, Belle.....	M. E.

Hill, Mrs. D. S.....Sp.	Theonilla, Sister M.....E. P.
Howard, Lucy.....Sp.	Thompson, Mrs. Louise B.....J.
Hughes, M. T.....Sp.	Topping, Emma.....Eng.
Hyde, Jessie A.....Sp.	Trexler, Anna.....H. N.
Inches, Jeannette.....Sp.	Updike, Mildred.....Sp.
Johnson, A. E.....Sp-Eng.	Van Buskirk, L.....M. E.
Jones, J. D.....Sp.	Victorina, Sister M.....E. P.
Kaseman, Mrs. J.....H. N.	Walker, Mrs. J. H.....H. E.
Keleher, Mrs. Will.....H. E.	Ward, R. H.....Sp.
Liliosa, Sister M.....E. P.	Wark, Lillian W.....Eng.
Lindly, Mrs. J. M.....Eng.	Wehr, Thersa.....Sp.
Ludgera, Sister M.....E. P.	Wells, Bruce H.....J.
McGregor, Iana.....Sp.	Winfrey, Grace.....J.

ENROLLMENT OF EXTENSION COURSES, 1922.

(Not included in calendar year, 1921.)

Home Economics.

Anderman, Mrs. Maud Rodney
 Arledge, Mrs. Ellen
 Barber, Mrs. C. M.
 Bixby, Mrs. Rex Vancil
 Bly, Ruby
 Brothers, Mrs. C. S.
 Burch, Flossie Reise
 Davidson, Mrs. J. H.
 Farrell, Stella R.
 Gerichs, Emma
 Glennon, Mrs. Charles P.
 Hebenstreit, Mrs. A. R.
 Hendron, Mrs. J. H.
 Holman, Mrs. H. K.
 Kerr, Mrs. John
 McIntosh, Mrs. B. G.
 Neuffer, Mrs. H. C.
 Schmidt, Margaret
 Weaver, Helen
 Wells, Lorena

English Literature.

Andres, Mrs. Edna
 Babbitt, Mrs. Alice H.
 Botts, Mrs. C. M.
 Claggett, Sergeant H. O.
 Clementina, Sister
 De Beixedon, S. B.
 Diehl, Minnie
 Easterday, Margaret
 Edmona, Sister
 Elliott, Gertrude
 Hart Mrs. Martha

Hill, Mrs. D. S.
 Holder, Hazel
 Jones, R. A.
 Keleher, Margaret
 King, Mrs. W. C.
 L. Belle, Mrs. E. R.
 Landes, Mrs. Emma D.
 Mabry, Mrs. T. J.
 Meacham, Mrs. C. C.
 Milne, Mrs. John
 Mitchell, George F.
 Morris, Zula
 Naomi, Sister M.
 Regis, Sister Frances
 Rice, Mrs. L. G.
 Risser, Anna
 Salone, Sister Frances
 Scruggs, Stella
 Seale, Esther
 Sherman, Louise
 Thompson, Mrs. M. W.
 Trimble, Mrs. Mary
 Walburga, Sister Mary
 Walton, Mrs. W. R.
 Watson, Edna
 Webb, Mrs. F. J.
 Westlake, Mrs. I. B.
 White, Sam J.
 Winfrey, Mrs. May E.
 Umberhine, Ethel

Mental Tests.

Irish, Mrs. Eugenia
 Sexauer, Catherine

SUMMARIES

SUMMARY OF STUDENTS BY COLLEGES AND SCHOOLS.

January 1—December 31	1920	1921
Graduate School	6	4
College of Arts and Sciences.....	258	268
College of Engineering.....	57	70
Special and Unclassified.....	26	25
†Correspondence	3	
Total	350	367

†Correspondence courses discontinued since June 1920.

EXTENSION STUDENTS BY CLASSES.

SUMMARY OF STUDENTS IN ATTENDANCE.

January 1, 1921—December 31, 1921.

Mental and Educational Tests.....	8*
Educational Problems	29
Spanish	29
Home Nursing	6
Journalism	9
Home Economics	11*
English	17*
	109
Students in two classes.....	3
Net Total	106

*Does not include students entering these classes after January 1, 1922.

ENROLLMENT FOR ACADEMIC YEAR 1921-1922.

From September 14, 1921 to February 17, 1922.

Freshmen, Unconditioned	96
*Conditioned, 1 unit, foreign language.....	3
*Conditioned, 2 units, foreign language.....	1
*Conditioned, 1 unit, laboratory science.....	7
	107
Sophomores	67
Juniors	40
Seniors	34
Special Adults	12
Unclassified	2
Graduate Students	3

*See Conditional Entrance, page 23.

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EXTENSION STUDENTS.

English Literature	58	
Home Economics	31	
Mental and Educational Tests	10	
	<hr/>	
	99	
Less Students in two courses	1	
	<hr/>	
	98	98
		<hr/>
		363
Less Regular Students in Extension Courses.....		3
		<hr/>
Net Total		360

SUMMARY OF STUDENTS BY COUNTIES IN
NEW MEXICO AND BY STATES.

Bernalillo	178	Mora	1
Chaves	19	Otero	5
Colfax	14	Quay	2
Curry	8	Rio Arriba	2
De Baca	3	Roosevelt	7
Eddy	12	San Juan	3
Grant	2	San Miguel	6
Guadalupe	1	Santa Fe	10
Harding	2	Socorro	2
Lea	2	Taos	3
Lincoln	3	Torrance	3
Luna	2	Union	1
McKinley	8	Valencia	1
Total New Mexico.....			300
Arizona	2	Missouri	6
Arkansas	2	Ohio	5
California	5	Oklahoma	2
Colorado	5	New Jersey	1
Florida	2	New York	2
Illinois	4	South Carolina	1
Indiana	1	South Dakota	1
Iowa	3	Tennessee	2
Kansas	6	Texas	7
Kentucky	1	Vermont	2
Michigan	1	West Virginia	2
Mississippi.....	3	Canada	1
Total Other States and Canada.....			67
Total			<hr/>
			367

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	5	Gallup	7
Albuquerque	97	Hagerman	2
Artesia	8	Las Vegas	6
Aztec	1	Lovington	1
Carlsbad	5	Mountainair	1
Carrizozo	1	Portales	4
Cimarron	3	Raton	7
Clayton	2	Roswell	17
Clovis	3	Santa Fe	6
Dawson	3	Socorro	1
Deming	2	Taos	2
Estancia	2	Tucumcari	3
Farmington	1	Tularosa	1
Ft. Sumner	3		
<hr/>			
			194

STATE EDUCATIONAL INSTITUTIONS.

(Prep. Dept.)

New Mexico Military Institute	1
New Mexico Normal University	3
New Mexico Normal School	4
New Mexico Agricultural College	1
University of New Mexico	1
<hr/>	
	10

PRIVATE SCHOOLS IN NEW MEXICO

Loretto Academy (Santa Fe).....	1
St. Vincent Academy (Albuquerque).....	1
Sacred Heart (Gallup).....	1
<hr/>	
	3

Students prepared in New Mexico.....	207
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HIGH SCHOOLS IN OTHER STATES

Alameda, Calif	1	Lawrence Co. H. S., Tenn... ..	1
Alliance, Ohio	1	Mannington, West Va.	2
Alton, Kans.	1	Manual Arts, (L. A. Calif.)..	1
Bakersfield, Calif.	1	Miami, Tex.	1
Berkeley, Calif.	1	Munsing, Mich.	1
Boise, Idaho	2	Oak Park, Ill.	1
Brown Co., Texas	1	Oklahoma City, Okla.	1
Bryant H. S. (L. Island, N.Y.)	1	Palatine, Ill.	1

Chattanooga, Tenn.	1	Pendleton, Oregon	1
Chelsea, Okla.	1	Perryville, Mo.	1
Columbus, Ohio	1	Phoenix, Ariz.	1
Dewey, Okla.	1	St. Joseph, Mo.	1
Englewood, Ohio	1	St. Petersburg, Fla.	1
El Paso, Tex.	3	Salem, Oregon	1
Escondido, Calif.	1	Sedalia, Mo.	1
Eustis, Fla.	1	South Bend, Ind.	1
Frontenac, Kans.	1	Stronghurst, Ill.	1
Garland, Ark.	1	Sullivan, Mo.	1
Greenville, Ill.	1	Topeka, Kans.	3
Hardin, Mo.	1	Weakly Co., H. S., Tenn....	1
Indianapolis, Ind.	1	Wellington, Kans.	1
Jefferson City, Mo.	1	West Lafayette, Ind.	1
Jellico, Tenn.	1	Whiting, Ind.	1
La Junta, Colo.	2		
Total			54

STATE EDUCATIONAL INSTITUTIONS OF OTHER STATES.

(Prep. Dept.)

E. Central Normal School of Oklahoma	1
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PRIVATE SCHOOLS IN OTHER STATES

Holbrook Schools	1	Mrs. Porter's School for Girls.....	1
Kentucky Military Institute	1	McKendree Academy	1
Leys (England)	1	National Cathedral for Boys	1
Livingston Academy	1	Palmer Academy	1
Maryville College	1	St. Johnsbury Academy	1
Mercersburg Academy	1	St. Mary's College	1
Mississippi Heights Academy	1	St. Patrick's Seminary	1

Total	14
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Students prepared in other states.....	69
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SUMMARY OF STUDENTS BY HIGHER INSTITUTIONS
REPRESENTED.

Alexander College	2	Nebraska State Normal	1
Baker University	1	New Mexico Normal School	1
Bakersfield Jr. College.....	2	New Mexico Normal University...	2
Beloit College	1	New Mexico School of Mines	1
Bradley Polytechnic Inst....	1	Ohio Northern University	1
Carroll College	1	Oklahoma A. and M. College	1
Colo. Agricultural College...	1	Rockford College	1
Colorado College	3	Sul Ross State Normal (Texas)...	1
Colorado School of Mines...	1	Sam Houston Normal (Texas)....	1
Cornell College	1	Sheffield's Scientific School.....	1
Crescent College	1	Shorter College	1
Denison University	1	Southwestern State Normal (Okla.)	2
Denver University	2	Temple University	1

Drury College	1	Texas School of Mines	1
Fairmount College	1	Toronto College	1
Florida State Col. for Women	1	University of Pennsylvania	1
Geo. Washington University	1	University of Colorado	4
Grand Island College	1	University of Illinois	1
Hiram College	1	University of Missouri	5
Hunter College	1	University of Nebraska	1
Iowa State College	3	University of Arizona	1
Knox College	1	University of Pittsburg	1
Lewis Institute	1	University of Southern California	1
Lindenwood College	1	University of Toronto	1
Louisiana State University	1	University of Vermont	1
Maryville College	5	University of Washington	1
Michigan State Normal	1	University of Wisconsin	1
Midland College	2	Vanderbilt University	1
Missouri School of Mines	1	Vassar College	1
Total			79

SUMMARY OF STUDENTS FROM VARIOUS SECONDARY SCHOOLS AND HIGHER INSTITUTIONS.

January 1, 1921—December 31, 1921

From Secondary Schools of New Mexico	207
From Secondary Schools of other States	69
From all Higher Institutions	79
No Record (Specials not offering credentials)	12
Total	367

SUMMARY OF SECONDARY SCHOOLS AND HIGHER INSTITUTIONS REPRESENTED BY STUDENTS IN ATTENDANCE DURING 1921.

Secondary Schools of New Mexico represented	35
Secondary Schools of other states represented	62
Higher Institutions represented	58

DEGREES CONFERRED, JUNE, 1921

COLLEGE OF ARTS AND SCIENCES.

BACHELOR OF ARTS.

Davis, Esther Irene.....	Major: Psychology	Minor: Education
Dixon, Wenonah.....	Major: English	Minor: Psychology
Ferguson, William Russell....	Major: Philosophy	Minor: Psychology
Hart, Mayme Burnette.....	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
Petersen, Grace.....	Major: English	Minor: Education
Pierce, Lois.....	Major: English	Minor: History
Seruggs, John Merrill.....	Major: Geology	Minor: Economics

BACHELOR OF SCIENCE.

Crawford, Dorothy A....	Major: Home Economics	Minor: Psychology
Eldodt, Joseph M.....	Major: Chemistry	Minor: Economics
Goetz, Helen Esther....	Major: Home Economics	Minor: Chemistry
Seyfried, John E.....	Major: Physics	
Roy, Edna.....	Major: Home Economics	
Shotwell, Katherine....	Major: Home Economics	Minor: Spanish

COLLEGE OF ENGINEERING.

BACHELOR OF SCIENCE.

Bower, Chalmers Hendricks, Jr.,.....	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

CANDIDATES FOR DEGREES, 1922

COLLEGE OF ARTS AND SCIENCES.

CANDIDATES FOR DEGREE OF BACHELOR OF ARTS.

NAME	Major Studies	Minor Studies
Albers, Robert James.....	Economics	Psychology
Angle, Katherine Goldthorpe*..	English	Education
		History
Caldwell, Charles Scott.....	History	English
Calkins, Thomas Vincent.....	Psychology	English
Cameron, Eleanor May.....	Mathematics	
	Psychology	
	English	
Dixon, Nora Fairly.....	Spanish	
	Education	English
Fertsch, Linhart M.	Physics	Education
Gould, Ralf Fisher.....	Psychology	Education
Guley, Blanche Agnes.....	Psychology	Education
		English
Hernandez, Ralph Octavio....	Economics	History
	Romance Languages	
Hopewell, Robert West.....	History	Psychology
		English
Howden, Douglas Faber*....	English	History
Johnson, Leonora Mamie....	English	Chemistry
Johnston, Octavia.....	English	Education
Mayne, Norman Dwight.....	Economics	Psychology
McDowell, Miriam Katherine..	Mathematics	English
Mosher, Edith Rosena.....	English	Psychology
Neher, Frank Hunter.....	Economics	English
		Psychology
Ogg, Frank Chappell.....	Mathematics	Latin
Osuna, Aurelia Marie.....	Romance Languages	Education
Perez, Tonchita.....	Romance Languages	Education
Sands, Mary Kathleen.....	English	Education
Scruggs, Helen Darrow.....	Mathematics	Education
		English
Stephenson, Dorothy A.	English	Latin
White, George Walter.....	English	History
Wicklund, Irene Beatrice....	History	Spanish

CANDIDATES FOR DEGREE OF BACHELOR OF SCIENCE

Lighton, Edward William....	Chemistry
Mozley, Paul Phillips.....	Chemistry
Snyder, Wilma Dot.....	Home Economics
Weisenbach, Estelle.....	Home Economics
Wilson, Clyda.....	Home Economics

*Degrees voted September, 1921.

COLLEGE OF ENGINEERING.

CANDIDATE FOR DEGREE OF BACHELOR OF SCIENCE

Sharp, Jonathan.....	Chemical Engineering
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