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BULLETIN OF THE UNIVERSITY OF NEW MEXICO

WHOLE NO. 40

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Catalogue Series

Vol. 15

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UNIVERSITY OF NEW MEXICO

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CATALOGUE

1905-1906

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ANNOUNCEMENTS FOR 1906-1907

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ALBUQUERQUE, NEW MEXICO

March, 1906

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*Published Quarterly by the University*

# *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:

*Whole Numbers 1-14, Catalogue Series, Vols. I-XIV.*

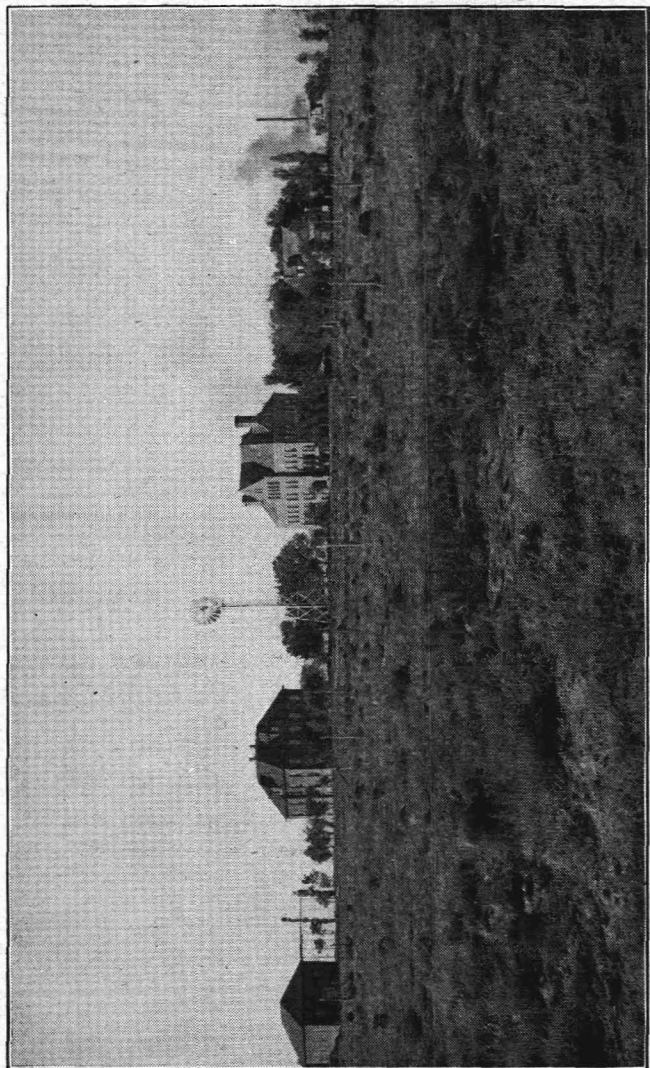
*Whole Numbers 15-22, Geological Series, Vol. I. (Hadley Laboratory Bulletin, Vol. I, Articles 1-4).*

*Biological Series, Vol. I. (Hadley Laboratory Bulletin, Vol. I, Articles 1-4.)*

*Whole Numbers 23-28 Geological Series, Vol. II. (Hadley Laboratory Bulletin, Vol. II., Articles 1-6).*

*Whole Numbers 29-39. Biological Series, Vol. II. (Hadley Laboratory Bulletin, Vol. III, Articles 1-11.)*

*Whole Number 40. Catalogue Series, Vol. XV, (This Volume).*



CAMPUS

==THE==  
University of New Mexico

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CATALOGUE

1905-1906

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With Announcements for 1906-1907

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ALBUQUERQUE, N. M.

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EVENING CITIZEN PRINT  
ALBUQUERQUE

## Advantages

The University of New Mexico offers the best of advantages for a thorough college education under the most healthful climatic conditions and at small cost.

There are many young men and women in the Northern and Eastern States, compelled to give up their school work on account of ill health, who will find it possible to continue their studies here under the favorable climatic conditions, and to improve in health at the same time. To these the University offers special advantages, and solicits correspondence with them.

You are cordially invited to visit the University at any time.

Further information will be furnished by addressing the President.

UNIVERSITY OF NEW MEXICO,  
Albuquerque.

## University Calendar

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### 1906

January 8—Monday. Second Semester Begins.  
February 22—Thursday. Washington's Birthday.  
May 8—Tuesday. Final Examinations Close.  
May 10—Thursday. Class Day.  
May 11—Friday. Commencement.

### *Academic Year 1906-1907*

August 20—Monday. First Semester Begins;  
Registration.

September 3—Monday. Labor Day.

November 29 and 30—Thursday and Friday.  
Thanksgiving Recess.

December 21—Friday. First Semester Closes.

### 1907

January 7—Monday. Second Semester Begins.  
February 22—Friday. Washington's Birthday.  
May 7—Tuesday. Final Examinations Close.  
May 9—Thursday. Class Day.  
May 10—Friday. Commencement.

### Board of Regents

HIS EXCELLENCY, HERBERT J. HAGERMAN, Governor of the Territory of New Mexico, ex-officio.

PROF. HIRAM HADLEY, Superintendent of Public Instruction, ex-officio.

HON. FRANK W. CLANCY, Term Expires 1906.

HON. E. V. CHAVEZ, Term Expires 1907.

HON. HENRY L. WALDO, Term Expires 1908.

DR. JAMES H. WROTH, Term Expires 1909.

HON. E. S. STOVER, Term Expires 1910.

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### *Officers*

HON. FRANK W. CLANCY, President.

DR. JAMES H. WROTH, Secretary and Treasurer.

## Faculty for 1905-1906

WILLIAM G. TIGHT, Ph. D., President,  
*Professor of Geology.*

JOSEPHINE S. PARSONS, A. B.,  
*Principal of Commercial Department.*

CHARLES E. HODGIN, B. Pd., Dean,  
*Professor of Education.*

\*JOHN WEINZIRL, M. S.,  
*Director of Hadley Climatological Laboratory and Professor of Chemistry and Biology.*

ETHEL A. HICKEY, A. B.,  
*Professor of English.*

RUPERT F. ASPLUND, A. B.,  
*Professor of Latin and Greek.*

AURELIO M. ESPINOSA, M. A.,  
*Professor of Romance Languages.*

MARTIN F. ANGELL, M. A.,  
*Professor of Physics and Mathematics.*

JOHN H. CRUM, M. O.,  
*Professor of Elocution and Oratory.*

DELLA J. SISLER, B. L. S.,  
*Librarian and Instructor in History.*

LILLIAN G. HUGGETT,  
*Assistant in Latin.*

WILLIAM K. PRESTON,  
*Assistant in Chemistry.*

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\*On Leave of Absence. 1905-1906



## *Standing Committees*

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### *Catalogue,*

PROFESSORS ASPLUND, HODGIN, ESPINOSA.

### *Schedule and Curriculum,*

PROFESSORS ANGELL, HICKEY, HODGIN.

### *Student Standing,*

PROFESSORS HODGIN, ASPLUND, ESPINOSA.

### *Commencement,*

PROFESSORS ESPINOSA, HICKEY, PRESTON.

### *Publications,*

PROFESSORS ASPLUND, HODGIN, ANGELL.

### *Athletics,*

PROFESSORS ANGELL, SISLER.

### *Music,*

PROFESSORS CRUM, PARSONS.

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## *Departments of the University*

The departments of instruction of the University of New Mexico, are the following:

### *I. College of Letters and Science:*

Courses leading to the degree of B. A.

### *II. Engineering School:*

Two complete years in Civil, Electrical, Mechanical and Mining Engineering.

### *III. Normal School:*

Courses providing thorough professional instruction in the Science of Education. Diploma of graduation entitles the holder to a five years' territorial certificate.

### *IV. Preparatory School:*

Complete four-year courses.

### *V. Commercial School:*

Complete four-year course of Preparatory School and Commercial Studies.

# University of New Mexico

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## *Origin and History*

The University had its origin in an act passed February 28, 1889, by the Territorial Legislative Assembly of New Mexico, the bill being introduced by Hon. B. S. Rodey who worked faithfully for its passage and who has remained a firm friend of the institution.

The following extracts are taken from the act:

Section 1. There is hereby created and established within and for the Territory of New Mexico, an institution of learning to be known as "The University of New Mexico." Said institution is hereby located at or near the Town of Albuquerque, in the County of Bernalillo, within two miles north of Railroad Avenue in said town, upon a tract of good, high and dry land, of not less than twenty acres, suitable for the purpose of such institution, which said land shall, within six months from the passage of this act, be donated and conveyed, free of any cost and expense, to the Territory of New Mexico, by G. W. Mylert; provided, that no improvements or buildings as hereinafter provided for, shall be made or erected upon such land until such deed is duly executed, recorded and filed in the office of the Secretary of the Territory, as hereinafter provided.

Sec. 7. The University of New Mexico, hereby created and established, is intended to be the State University, when New Mexico shall be admitted as a state into the Union, and as such is entitled to all the donations of lands and other benefits under all acts of Congress, now in force or hereafter to be enacted, for the benefit of such educational institutions in the future state.

Sec. 8. The object of the University hereby created shall be to provide the inhabitants of the Territory of New Mexico and the future state, with the means of acquiring a thorough knowledge of the various branches of literature, science and arts.

Sec. 9. The management and control of said University, the care and preservation of all property of which it shall become possessed, the erection and construction of all buildings necessary for its use, and the disbursement and expenditure of all moneys appropriated by this act, shall be vested in a board of five Regents, to consist of five qualified voters, who shall be owners of real estate in this Territory.

Sec. 11. The Regents of the University and their successors in office, shall constitute a body corporate under the name and style of "The Regents of the University of New Mexico," with the right, as such, of suing and being sued, of contracting and being contracted with, of making and using a common seal, and altering the same at pleasure.

Sec. 14. The Regents shall have power and it shall be their duty to enact laws, rules and regulations for the government of the University.

Sec. 15. The University shall have departments, which shall hereafter be opened at such times as the Board of Regents shall deem best, for instruction in science, literature, and the arts, law, medicine,

engineering, and such other departments and studies as the Board of Regents may, from time to time, decide upon, including military training and tactics.

Sec. 16. The immediate government of the several departments shall be intrusted to their respective faculties, but the Regents shall have the power to regulate the course of instruction, and prescribe the books and authorities to be used in the several departments, and also to confer such degrees and grant such diplomas as are usually conferred and granted by other Universities. The Regents shall have the power to remove any officer connected with the University, when in their judgment the interests require it.

(a). The University created by this act shall be open to the children of all residents of this Territory and such others as the Board of Regents may determine, under such rules and regulations as may be prescribed by said board, whenever the finances of the institution shall warrant it, and it is deemed expedient by said Board of Regents.

Sec. 17. No sectarian tenets or opinions shall be required to enable any person to be admitted as a student or employed as a tutor or other instructor in said University, but the same shall be forever non-sectarian in character. \* \* \*

When the bill became a law, Governor L. Bradford Prince, then New Mexico's chief executive, appointed the following Board of Regents: G. W. Mylert, Henry L. Waldo, Mariano S. Otero, Elias S. Stover, Frank W. Clancy.

The Governor and the Superintendent of Public Instruction, then Amado Chaves, were ex-officio members of the Board.

The Regents who have been continued from the beginning are E. S. Stover, F. W. Clancy and H. L.

Waldo. Others whose names have appeared since are, W. B. Childers, J. H. Wroth, J. C. Armijo and E. V. Chaves.

The first faculty elected, consisted of President, E. S. Stover; Principal, George S. Ramsey; Alcinda L. Morrow, Marshall R. Gaines, Albert B. Cristy, G. R. Stouffer and Andrew Groh.

Many changes have since occurred in the faculty. Prof. Hiram Hadley was vice-president in charge from 1894 to 1897. Dr. C. L. Herrick, the second president of the institution, served from 1897 to 1901. Upon his resignation, Dr. W. G. Tight was chosen by the Regents.

After the passage of the act in the legislature of 1899, creating the University, the first Board of Regents secured the required amount of land, and began the erection of a large building, as soon as the funds were available. The structure was completed and accepted by the Board in May, 1892.

The Normal School of the University was the first to be organized, and was opened on June 15, 1892, for a summer term. In September of the same year the Preparatory School was opened, and in November of 1893 the Commercial School was added.

In 1896 a gymnasium was erected and equipped with as much apparatus as the funds would permit.

The Hadley Laboratory, largely the gift of Mrs. Walter C. Hadley, supplemented by donations from friends in Albuquerque and in other parts of the Territory, was erected in 1899. This building affords accommodations for the science work with a special view to climatological investigations, a feature of research desired by Mrs. Hadley.

Dormitory facilities were made possible in 1902, when rooms for men were fitted up on the second floor

of the main building, while a cottage on the campus was made into a girls' dormitory. In 1904, the men's quarters were moved to a separate building, situated quite near the campus.

There has taken place a marked improvement on the University campus during the past four years. There is now in operation a complete irrigation system consisting of a two hundred and fifty foot well with a twenty foot windmill, tanks holding seven thousand gallons, and a reservoir with a capacity of a quarter of a million gallons. This system has made possible the growth of hundreds of trees and plants. Drives have been laid out with the best landscape effect, and the whole makes a beautiful park of a once barren mesa.

The courses of study and the departments have been extended from time to time during the past twelve years, until now the institution offers full preparatory and college courses of four years each. The Normal School gives one year's professional course in addition to four years of academic work. The School of Engineering offers two complete years of technical study.

Since the beginning, the University has graduated 116 students, not numbering those of the present graduating class. Death has claimed three of this number, Frank S. Maltby, class of 1899; Helen Booth, class of 1895, and Mrs. Frances (Nowlin) Wittwer, class of 1894.

The Alumni Association was organized in 1894 and has held a meeting and a banquet each year.

## General Information

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### *Location*

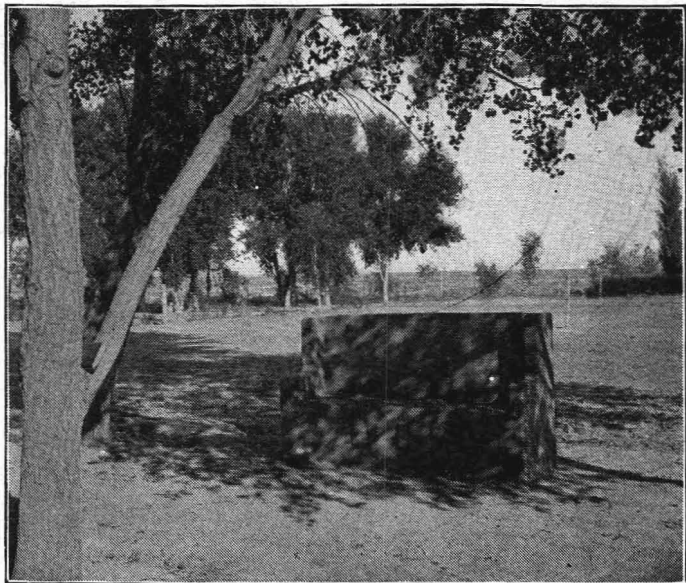
The University campus is situated on the mesa, a short distance east of the city. The view of the valley of the Rio Grande and of the mountains is most beautiful and inspiring. A more favorable location for health and out-of-door recreation could scarcely be found.

The walk to the University from the city is healthful exercise. For those who desire to ride, a conveyance is run at a low fare to accommodate teachers and students.

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### *University Environment*

Albuquerque, the county seat of Bernalillo county, is pleasantly situated in the valley of the Rio Grande. It is easily reached from any part of the Territory, being centrally located on the lines of the Atchison, Topeka & Santa Fe, the Santa Fe-Pacific Railroad, and the Albuquerque Eastern (under construction). The climate is very even and the air so bracing that students unable to pursue their studies in other climates, may do so here and improve in health at the same time. On account of its climate and altitude the city is much frequented as a health resort.



COLLEGE SEAT



COLLEGE PUMP



Albuquerque is a modern city, with a population of about 12,000, having electric lights, street cars, a free public library, good streets, a variety of good mercantile and manufacturing establishments, four banks, two daily newspapers, and other accompaniments of modern civilization.

Albuquerque is an educational center. Besides the University there are many schools of different kinds, including an excellent system of public schools.

During the year many musical and literary entertainments are given, and the large and refined audiences that patronize these, give unmistakable evidence of the culture of the citizens.

The student who enters the University is at once surrounded by an educational atmosphere that cannot do otherwise than exert a refining influence and stimulate him to effort.

Albuquerque is a city of churches. Almost every religious denomination is represented. These all gladly welcome the students to their religious and social life.

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### *Buildings*

The Administrative Hall contains the President's office, the Library of about 6,000 volumes, the Assembly hall and numerous recitation rooms. The building is a large and commodious brick structure, of three stories besides the basement, and is well furnished throughout.

The Hadley Science Hall furnishes accommodations for the Department of Science. The building is the generous gift of Mrs. Walter C. Hadley, supplemented by donations from friends of education throughout the Territory. The laboratory was primarily established for climatological research and its arrangements are most satisfactory for scientific work.

The Gymnasium is a substantial frame building of good size and well equipped with apparatus for physical culture. There is also an outdoor gymnasium constructed of iron pipes affording a frame work to which trapeze, running rings, horizontal bars, chest bars, and parallel bars are attached.

The Girls' Cottage is a very attractive modern dwelling, in which are furnished rooms for the girls. The general Dining Hall is also in this building.

The Boys' Dormitory is situated quite near the campus. Its rooms are clean and comfortable.

The Central Heating Plant is housed in a pretty little building of pueblo architecture. It contains also quarters for the janitor and his family.

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### *The Library and Reading Room*

The general Library now contains about 6,000 bound volumes and 1,000 pamphlets, including the standard works of reference. The University is the United States depository for public documents for New Mexico. From this source many most valuable books of reference are being received. This portion of the library is accessible to the public at all reasonable hours.

The general Library is for the use of the Faculty and students. Friends of the institution are welcome to consult the books within the library room.

A beginning has been made in the establishment of departmental libraries composed of works directly needed in the several departments. A separate room has been equipped with shelves for pamphlets, bulletins, and scientific exchanges. Donations are always thankfully received.

The Library subscribes regularly for the following periodicals:

American Geologist.

American Monthly Review of Reviews.

Atlantic Monthly.

Biblical World.

Bookman.

Century.

Classical Journal.

Classical Review.

Collier's Weekly.

Critic.

Economic Geology.

Harper's Monthly.

Journal of American Chemical Society.

Journal of Geology.

Library Journal.

Literary Digest.

Modern Language Notes.

Modern Philology.

North American Review.

Outlook.

Physical Review.

Public Libraries.

Records of the Past.

Saturday Evening Post.

Scientific American.

School Journal.

Stenographer.

Talent.

Teachers' Magazine.

World's Work.

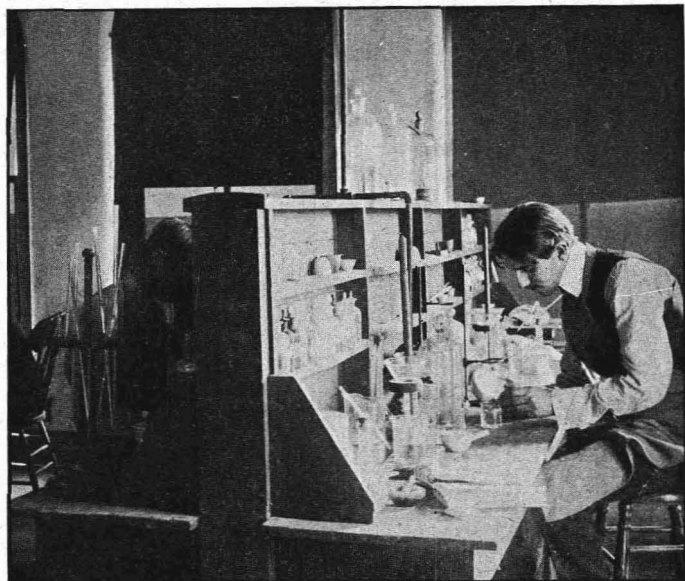
*Laboratories*

Few institutions as young as the University are so well supplied with the facilities for laboratory and research work. This is due to the fact constantly held in mind by the management that the first essential in all scientific work is experimentation and illustration, and that text-books are of secondary importance. To this end the equipments are increased as rapidly as possible from the resources of the institution. At present a part of the equipment is provided by the instructors and by friends of the University.

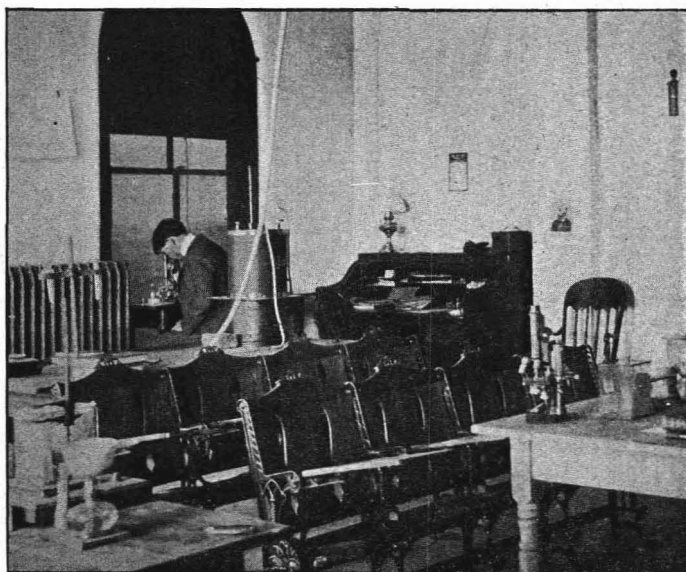
The Hadley Climatological Laboratory furnishes a home for the scientific departments. On the first floor are found the zoological, botanical and geological laboratories, each equipped with the usual apparatus. In the botanical department the collection of native plants is especially worthy of mention. The equipment in geology is very complete and contains several thousand specimens, several lithological microscopes, etc. On this floor is also found a large lecture room for the use of the departments.

On the second floor are the departments of physics, chemistry, and bacteriology. The laboratories are very well equipped for the usual courses offered and it is hoped soon to materially increase the equipment.

In the basement are located the assaying and photographic laboratories and shops. In assaying the equipment consists of a Bosworth furnace, rock crusher, rubbing board, etc., and it is quite complete. The equipment in the photographic laboratory is also good. The shops are equipped with a gasoline engine, a dynamo from the General Electric Company, motors and switch-board. Individual motors operate wood- and iron-turning lathes, illustrating the best methods of



STUDENT DESK—CHEMICAL LABORATORY



CORNER BACTERIOLOGICAL LABORATORY

electrical generation and distribution of power. There are also all kinds of wood- and iron-working tools and machinery.

The Hadley Laboratory was especially designed by its beneficent founder for the study of the effects of the various factors which enter into the remarkable climate of the semi-arid Southwest. This study was intended to bear more especially upon the problem of tuberculosis and its cure by climatic agencies. To this end all the scientific departments of the University contribute.

At present there is an urgent need of funds for carrying out effectually the work in this line, and it is hoped that adequate resources may be provided at an early date. Such funds should be available for special apparatus not ordinarily found in the class room, and for carrying on physiological experiments.

During the year considerable progress in research work has been made, and a number of papers are now in preparation for publication. Several articles have appeared in the leading journals of America, such as the Journal of the American Medical Association, American Journal of the Medical Sciences, etc., and all will finally appear in the Bulletin of the University which is published with the co-operation of Mrs. W. C. Hadley.

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### *Natural History and Archaeological Museum*

The University has a fair nucleus of a working museum in geology, paleontology, botany, zoology, archaeology, and ethnology. The museum now contains a good collection of rocks, ores, plants, birds, mammals, reptiles, etc., of New Mexico, and all friends of the University are requested to assist in procuring

materials illustrating the natural and economic resources of the Territory. It is of special interest to secure the remains of the works of prehistoric races before it shall be too late. All donations will be permanently stored in the University and will be accredited to the giver.

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### *University Publications*

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 serial number.

The Catalogue Series reaches the fifteenth volume with the present issue. It contains a description of the University, courses of study, and the student roster.

The Bulletin of the Hadley Climatological Laboratory also contains contributions from the University Geological Survey, giving opportunity for the publication of the results of research work. Its fourth volume is now complete.

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### *Student Publications*

The U. N. M. Weekly is the publication of the student body and is devoted to University news, literary matter, and general college interests.

"The Mirage" is the college year book, or "annual." It is profusely illustrated and its pages offer opportunity for the expression of college life.

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### *Student Organizations*

Voluntary literary societies, the Khiva for the boys, and the Estrella for the girls, have proved very

useful in affording opportunities for the cultivation of literary tastes, and for familiarizing the students with parliamentary principles. The spirit of wholesome competition and rivalry, lends interest to the efforts of the members of these societies. The Athletic Association, advised by a board of control, has charge of all college and intercollegiate football, baseball, basketball games, and track meets. The Editorial Boards of the U. N. M. Weekly and the Mirage, offer the students opportunity for the practice of energy and enterprise.

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### *University Extension*

For the purpose of widening its influence, the University offers courses of entertainments and lectures by the members of the faculty. By special arrangements, also, speakers of national reputation can be secured for a limited number of addresses in the towns of the Territory. Communities desiring such courses of lectures may receive further information by correspondence with the Registrar.

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### *Dormitories*

Dormitory accommodations have been increased for the coming year, 1906-07, and the University will be prepared to furnish rooms on the campus under faculty supervision. There will be one building with suites for twenty-four men and one with suites for thirty women. Each suite will consist of a large study room and two sleeping rooms with single beds, and will accommodate two students. Thus each student should be supplied with the necessary towels, linen, etc., for a single bed room; in other respects, the rooms will be fitted up by the University with new furniture.



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#### *Rooms and Board*

To meet the demand for dormitory accommodations, until suitable buildings can be erected, the Regents have arranged for the living of a limited number of students in the present buildings. Rooms have been provided for the men in a building conveniently situated near the campus. They are furnished with plain but neat furniture. The rooms for the girls are in the Girls' Cottage, and are also comfortably furnished.

Students occupying these rooms must supply their own bed clothes, such as sheets, pillow slips,

blankets, and coverlets, as the beds are furnished only with mattresses and pillows. Students must also supply towels and other necessary linen. The Proctor, who is a member of the Faculty, will see that all students' rooms are properly cared for and that the rules of government are strictly adhered to. A matron has full charge of the Girls' Cottage. Students must care for their own rooms, a requirement which is not so much a matter of economy as of discipline and education, as by this means are inculcated habits of cleanliness and thoughtfulness.

The general dining hall is in the Girls' Cottage, where good board is supplied.

It is recommended to parents and guardians that students should room and board on the grounds, as they are then more directly under the supervision of the Faculty, the discipline required and the observance of study hours being more conducive to good work.

The cost of living at the University, including room, board, lights, and fuel, is \$20 per month. Students attend to their own laundry.

Living can be obtained in the city in good private families, where students have the comforts of home, and are surrounded by good influences, at \$25, per month and upwards.

In selecting boarding places in the city, students should consult the President, who will cheerfully assist all in finding good homes. The Faculty claim the right, and consider it a duty, to exercise a supervisory care at all times over those who do not make their homes with their parents or other natural guardian. To this end the Faculty may properly object to students boarding at unsuitable places. Students may be called upon whenever it is necessary, to render an account of the manner in which they spend

their time when not at the University.

Parents may feel assured that all reasonable effort will be exercised by the Faculty to protect students from improper associations.

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### *Self-Support*

The University has but a small amount of work at its command to offer students, but it is usually possible for them to find congenial employment by which may be defrayed a large portion of their expenses. During the coming year a special effort will be made to assist students to find employment.

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### *Prizes and Scholarships*

The Dr. J. A. Henry Scholarship Prize. Through the generosity of Dr. Henry, an annual prize is given to the student who maintains the highest general scholarship. No student is eligible to this prize two years in succession. Awarded in 1904-5 to Tillie Allen.

The Dr. W. G. Hope History Prize. Dr. Hope has established an annual prize for the best scholarship in United States History. Prize awarded in 1904-5 to Tillie Allen.

The Dr. E. M. Wilson Prize. Dr. Wilson has offered a prize of \$25 to the student who is instrumental in bringing the largest number of new students to the University. The winner of this prize must obtain at least ten new students. Awarded in 1904-5 to Kate Cunningham and Maria Espinosa.

Declamation Prizes. Prizes for the Annual Declamation Contest, open to all regular students. Contest for 1905-6, first prize given by Dr. J. A. Henry; second prize, S. E. Newcomer. First prize for 1904-5

awarded to Violetta de Tullio.

Citizens' Oratorical Prizes. Three cash prizes given by lawyers, ministers, and insurance agents, for special contest in oratory. First prize for 1904-5. awarded to Isabel O. Nivens.

The Cecil Rhodes Scholarship. In accordance with the provision of the will of Cecil Rhodes awarding two scholarships to each state and territory in the United States, New Mexico has the privilege of sending two students to Oxford, England, every three years. The appointing power for the Territory of New Mexico is vested in the Faculty of the University. Awarded in 1904-5 to Thomas Sydney Bell.

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### *Aim*

The University has enjoyed an honorable reputation for thorough work and high standards, and it is the endeavor of the Board of Regents and the Faculty to maintain these standards and to furnish the means for excellent mental discipline. Every effort will be made to develop the student physically, intellectually, socially, and morally, in the best possible manner. The policy of the University, while very strictly avoiding sectarianism in any form, is positively and strongly in favor of developing and maintaining high ethical and moral standards. All students, unless excused by the President, are required to attend the regular daily Assembly exercises, which consist of music, scripture readings, and addresses by members of the Faculty and prominent men in all walks of life.

There is in Albuquerque one thriving church or more of almost every religious denomination, Jewish, Protestant and Catholic. These all gladly welcome the students to their religious and social life. It is

desirable that each student identify himself with the church of his choice.

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### *The Administration*

The Preparatory School, the College of Letters and Sciences, and the Engineering, Normal, and Commercial schools are administered by their respective principals and faculties, under the direction of the general faculty. Upon matriculation the student obligates himself to observe the unwritten law of polite society, and to discharge faithfully all college obligations. Individual honor and loyalty to the institution, and the deportment of ladies and gentlemen are indispensable requisites to college residence.

The Territory of New Mexico offers the advantages of the University, at a merely nominal fee, to all persons of either sex who meet the entrance requirements. It therefore is the patron of those who seek its advantages and honors. It cannot be the patron of idleness or misconduct. It offers every assistance possible to those who assiduously pursue their work with diligence, and conduct themselves according to the accepted rules of propriety.

In any case where the student does not appear to be benefited by the advantages offered by the University, or manifests an unwillingness cheerfully to assist in maintaining good order, or indulges in practices which are detrimental to others or to the reputation of the college, his parents or guardian will be promptly and frankly informed of the facts in the case. If the student's conduct, or work, continues unsatisfactory thereafter, he will be dismissed, or his parents will be requested to withdraw him.

*Registration*

The student upon entering, presents himself to the President at the office and receives the necessary blanks for registration. He then goes to the instructors under whom he is to have work, for their signatures to his registration card. He next sees the treasurer for the payment of the incidental and other fees, and finally files his card with the Registrar.

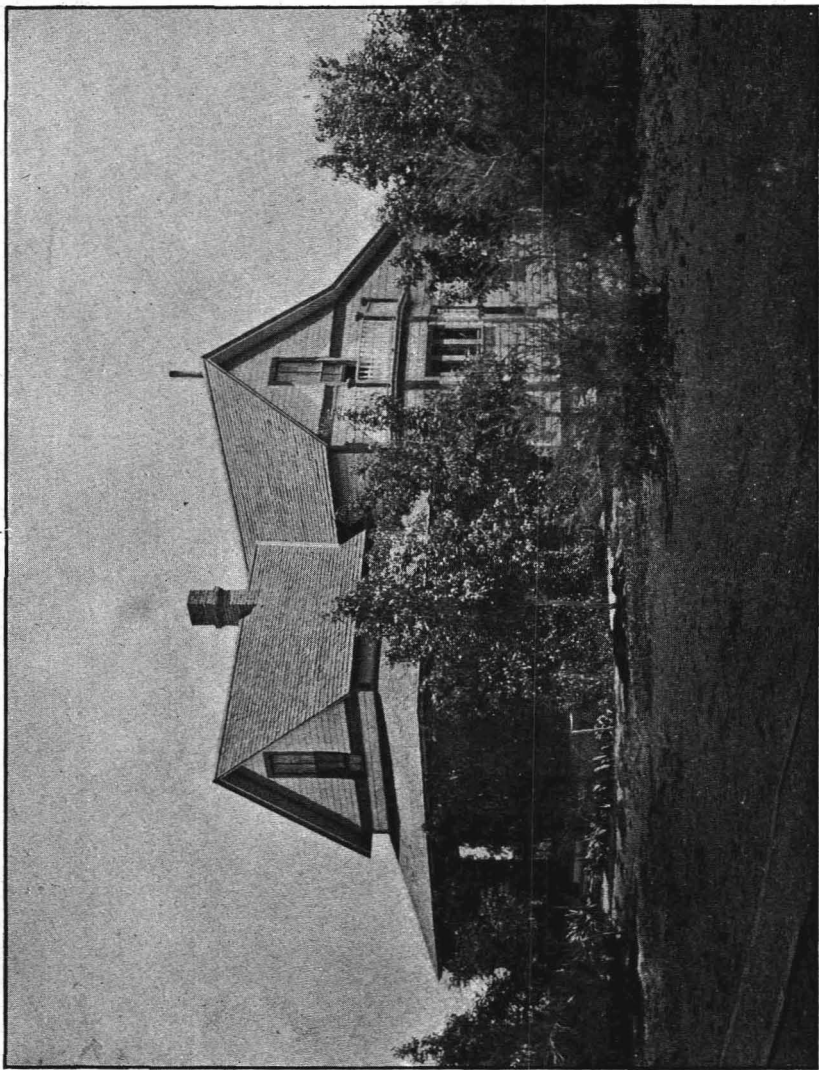
No student is considered registered as a member of the University until his registration is fully completed.

An extra fee is charged for registration later than five days after the opening of the semester.

*Attendance*

It is highly desirable that students should begin their work with the first day of the semester as indicated in the calendar, since losses which are incurred then can never be fully made up and the student is at a disadvantage throughout the year. Students may be admitted at any time, but it is strongly recommended that studies begin with the fall semester. This is considered so important that the Regents have fixed a fee for late registration. Every student, unless excused by the Faculty, is required to attend at least three recitations or laboratory exercises daily. Parents or guardians who desire information concerning the conduct, class standing, or punctuality of the student, can obtain the same at any time by application to the Registrar, as a careful record is kept of the work and character of each student. Such a report will be regularly sent at the end of each semester.

Any student who falls behind in his work will be reported to his parents, or guardian, at the end of



GIRLS' COTTAGE

each month, and should such failure to do good work be the result of idleness, or misconduct, on the part of the student, the parents may be asked to withdraw the student at any time.

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### *Absence*

After registering, students are required to attend all their class exercises. A failure to attend any such exercise is counted an absence, and the instructor must mark the student zero for such exercise. The work may subsequently be made up by special assignment at the option of the instructor. Any student is subject to account for absences at any time, and may be dismissed by the Faculty for such absences. For absence from Assembly and other general exercises the student is accountable to the President.

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### *Dismissal*

Students who desire to drop any study for which they are registered must get the permission of the Instructor and the Registrar.

A student who leaves the University before the close of a semester without the permission of the President will not be considered as having been honorably dismissed.

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### *Method of Grading*

Students are graded according to their class standing and by examinations. An accurate record is kept of the work of each student in each class. Examinations are held in each class at the end of each semester. The average standing is found by combining the average class standing with the examination standing in



the ratio of three to one; that is, the class standing counts three times as much as the examination standing. Students making a grade 90-100 are marked A; 80-90, B; 70-80, C; 60-70, D; below 60, E. Satisfactory completion of the work of any class requires a general standing of not less than seventy per cent. A student whose average is less than sixty per cent is not passed, and must pursue the work a second time with the next regular class.

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### *Examinations*

1. An examination is held at the close of each semester or on the completion of any subject.

2. All students are required to attend all examinations in the studies pursued.

3. When a student's general standing in any class falls below seventy, the Instructor shall report the student to the Registrar as "conditioned." A student reported as "conditioned" may receive credit for the study if the condition imposed by the Instructor is removed before the next semester in which the study is again offered. Otherwise the student must again pursue the study in the regular class in the same manner as the student whose study is reported as "not passed."

4. Special examinations taken at other times than regularly with the class, and not entrance examinations for standing, can be taken only by presenting to the examiner a permit card from the Registrar and by the payment of a special fee.

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### *Accredited Schools*

Students presenting diplomas of graduation or proper credentials from accredited schools are admitted

without examination, provided; however, that if the student has not completed the eight units of work required of all applicants for admission to the College of Letters and Science, the part lacking of this work will be entered on the records as a "condition" that must be made up and for which the student will receive no college credits. Accredited high schools of New Mexico are classified as follows:

(a). Admitting to the College of Letters and Science:

Albuquerque, J. E. CLARK, Superintendent.

Carlsbad, WM. H. HEINEY, Superintendent.

Las Vegas, R. R. LARKIN, Superintendent.

Raton, A. D. HOENSHEL, Superintendent.

Santa Fe, J. A. WOOD, Superintendent.

(b). Admitting to the Fourth Year Preparatory:

Clayton, F. P. CORNES, Superintendent.

Deming, W. H. DICKEY, Superintendent.

Gallup, W. H. DECKER, Superintendent.

Roswell, C. D. THOMPSON, Superintendent.

(c). Admitting to the Third Year Preparatory:

Alamagordo, J. D. PEPPER, Superintendent.

Santa Rosa, R. H. TEMPLETON, Superintendent.

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### *Class Standing*

To obtain class standing at entrance, or to maintain class standing during the pursuit of a course, the student must have completed at least two-thirds of the work required for that class.

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### *Diplomas and Certificates*

Diplomas of graduation from the Preparatory School, in the Classical, Commercial, and English-

Scientific courses, as outlined under the Preparatory School, will be conferred on all who complete satisfactorily the courses of study or their equivalent, as determined by the Faculty, and who maintain unimpeachable deportment. In addition to the above, those who complete the work of the Normal School receive its diploma.

Certificates of proficiency may be given upon the completion of subjects like Stenography, Bookkeeping, etc., and upon the satisfactory completion of the work of any one year.

Diplomas of graduation will be conferred upon students who complete a four years' course of study in the college. With this diploma is conferred the degree of Bachelor of Arts, or of Science, which are the only baccalaureate degrees conferred in the College of Letters and Sciences. For the requirements of these degrees, see the course of study under the head "College of Letters and Sciences."

The degree of Bachelor of Pedagogy is conferred upon students who complete three years of college work in addition to the Normal course, and who have given satisfactory evidence of two full years of successful teaching experience after graduation.

The University is prepared to offer courses leading to the degrees of Master of Arts, and Doctor of Philosophy, along limited lines, and by special action of the Faculty.

No student will receive a diploma or degree from this University who has not been in residence at least one year.

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#### *Fees*

Tuition is free to all residents of New Mexico; to others, \$20 per semester.

An annual incidental fee of \$5 is required by law of all students; also a Library fee of .50, and a gymnasium fee of .50.

Laboratory fees in science courses are as follows: Chemistry, Assaying, Histology and Bacteriology, a deposit of \$5 each per semester; College Physics, a deposit of \$5 per semester; Academy Physics, a fee of \$1 per semester; Zoology, Botany, Lithology and Mineralogy, a fee of \$2 each per semester.

Special examination fee, \$2.

Late registration fee, \$1.

All University bills must be paid, or satisfactory arrangements made, at date of registration. No credit for work can be given until all bills are paid.

# College of Letters and Science

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## *Examinations at the University*

The regular examinations for admission to the College of Letters and Science are held at the beginning and close of each school year. Those who contemplate taking their examinations at the close of the school year, while they are fresh on the subjects pursued during the year, may apply for such examination previous to the regular examinations in the Preparatory School. The date for the examination of candidates for admission is indicated in the calendar and applications must be made for the examinations at the office of the Registrar. Examinations will be held on all subjects required for admission.

Applicants for admission as undergraduates must be at least sixteen years of age, and if from another institution must present a certificate of honorable dismissal and must have completed the requirements for admission as here described in units, a unit meaning a subject of study pursued through a school year with not less than four recitation periods per week. For a description of the work covered for each unit see "Description of Courses" in Preparatory School.

Sixteen such units taken from those enumerated below are required for admission. Of these sixteen units eight must be presented by all applicants, namely: English, 4 units; Mathematics, 3 units; Physics, 1 unit.

Applicants for admission to the Classical Course

must in addition to the above eight units present, in Latin, 4 units.

Applicants for admission to the General Scientific, Technical Scientific, and Pre-medical and Literary Courses, must in addition to the required units present at least two units in one of the four languages, Latin, French, German, or Spanish.

The remaining units necessary to complete the sixteen required for admission must be selected from the following list. The subjects from which choice may be made and the number of units which will be accepted in each case are as follows:

Greek, 2 units.	Eng. Literature, 1 unit.	Psychology, $\frac{1}{2}$ or 1 unit.
Latin, 2, 3, 4 units.	History, 1, 2 or 3 units.	Physiography, $\frac{1}{2}$ or 1 unit.
French, 2 units.		Botany, $\frac{1}{2}$ or 1 unit.
German, 2 units.	Civics, $\frac{1}{2}$ or 1 unit.	Zoology, $\frac{1}{2}$ or 1 unit.
Spanish, 2 units.		Chemistry, 1 unit.

### *Admission on Diploma or Certificate*

Students presenting diplomas of graduation or proper credentials from accredited schools are admitted without examination; provided, however, that if the student has not completed the required units of work for admission the part lacking of this work will be entered on the records as a "condition" that must be made up and for which the student will receive no college credit.

Certificates of graduation or of completion of work done in the schools of the Territory will be received for the amount of work they represent but the right is reserved to test the value of class records by examination of the applicant.

*Deficient Preparation*

An applicant who does not pass the examination for admission on some of the required subjects or whose diploma or certificate does not cover the full requirements for admission may be admitted conditionally; provided, that the deficiency does not exceed two of the required units. This deficiency may be made up by pursuing the subjects in the Preparatory School.

*Advanced Standing*

Students coming from other institutions who have taken standard college work equivalent to the work offered in this college may enter the regular course for which they present a certificate without examination, or such examination only as is necessary to determine the class standing and the work for which they are fitted.

Students coming from other institutions are required to present certificates of standing and honorable dismissal.

*Special Students*

Persons who are not candidates for a degree or who for sufficient reason are not able to pursue a regular course may be entered as special students and may pursue such studies as they may desire and for which they are fully prepared. Such special students are subject to all the other requirements of the University.

*Plan of Courses*

The preparation for admission to college must of necessity determine to an extent the character of the work pursued. Certain definite requirements are made of all students from certain groups of subjects, and all students must complete the prescribed work of some special line of study which runs through three or four

years. At the same time the student is granted such freedom in the selection of his work as will be of most educational value, from the point of view of personal choice. Students are required to carry at least fifteen hours of work per week unless excused by the President and are not permitted to carry over eighteen hours without permission of the Faculty.

The completed work of eight semesters amounting to one hundred and twenty-four hours is the minimum required for graduation.

An "hour" is the conventional unit used to signify one study, of one hour a day, recitation period, or its equivalent of two hours laboratory work, once a week for one semester.

### *Prescribed Work*

Any student who is a candidate for a degree must take the prescribed work indicated under the course in which he is entered, unless a substitution is allowed by the Faculty. At least twelve of the following prescribed units should be taken during the freshman year:

English, six hours.

Mathematics, eight hours.

Science, sixteen hours.

Language, sixteen hours.

These hours must be made up of two consecutive years in one language, or in two languages if the student has had one year in one of the selected languages as entrance requirement.

Rhetoricals are required of first and second year students and elective for third and fourth year students. Freshmen and sophomores must appear in public rhetorical exercises with one declamation and one memorized essay each semester, unless the student is a member of some university



literary society, in which case one production each semester may be given in a regular open meeting of the society. Essays written for English classes may be used in this work. For rhetorical one hour's credit per semester is given for graduation. The editor in chief of the U. N. M. Weekly is exempt from all rhetorical requirements. The two associate editors are exempt from one rhetorical each semester. The department of Oratory and Elocution has entire supervision of rhetorical work.

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### *Elective Work*

The elective work of all students consists of two kinds—Major and Minor. The Major electives must be made in some one department, which election determines the course in which the student is entered; and at least thirty hours must be taken in this department and forty hours, if the department includes a part of the prescribed work. If language is the Major, eight hours of the prescribed work in language must be made in some other than the Major. At least ten hours of the Major subject must be taken in this University. A student may change his Major subject only by permission of the Faculty, but in so doing the student must complete all the work required in his Major for graduation, no matter how much may have been taken in other departments.

The Minor electives are chosen by the student under the direction of the professor in charge of the Major from any department of the University. Upon the completion of one hundred and twenty-four hours and compliance with all the requirements for graduation, the degree of Bachelor of Arts or Science, according to the course pursued will be conferred. Degrees

are conferred and diplomas issued at the annual commencement in May. A student who does not lack, at the time of the annual commencement, more than eight hours to complete the work, may complete this work before the opening of the Fall Semester and receive a diploma bearing the date of the current year.

Juniors and seniors may elect rhetorical work consisting of one declamation and one oration each semester for which they are accredited one hour toward graduation. One hour per semester may be granted to members of the editorial staff of the University Weekly at the discretion of the student standing committee.

### *Undergraduate Course*

The College of Letters and Science offers four regular courses leading to the Bachelor's Degree.

The Classical and Literary Courses lead to the degree of Bachelor of Arts, and the General Scientific and Technical Scientific lead to the degree of Bachelor of Science.

A two years' Medical Preparatory Course is also offered.

This division of courses is made simply as a matter of convenience and to indicate in a broad way the character of the work done. The general system of Major and Minor electives really permits the student to select from a large number of possible courses, thus giving the greatest freedom to individual development while the prescribed work of each course insures a sound and broad foundation upon which to specialize during the Junior and Senior years.

### *Classical Course*

Freshman Year—English 1 and 2, 6 hrs.; Mathematics 1 and 2, 8 hrs.; Greek 1 and 2, or German 1 and 2, 8 hrs.; Latin 1 and 2, 8 hrs.

**Sophomore Year**—Greek 3 and 4, or German 3 and 4, 8 hrs.; Elective Science, 8 hrs.; English 3 and 4, or History 1 and 2, 6 hrs.; French 1 and 2, or Spanish 1 and 2, 8 hrs.

**Junior Year**—Major elective, 10 hrs.; Minor electives, 20 hrs.

**Senior Year**—Major elective, 10 hrs.; Minor electives, 20 hrs.

#### *Literary Course*

**Freshman Year**—English 1 and 2, 6 hrs.; Mathematics 1 and 2, 8 hrs.; History 1 and 2, 8 hrs.; German 1 and 2, or Spanish 1 and 2, 8 hrs.

**Sophomore Year**—German 3 and 4, or Spanish 3 and 4, 8 hrs.; Elective Science, 8 hrs.; English 3 and 4, or History 1 and 2, 6 hrs.; French 1 and 2, or Spanish 1 and 2, 8 hrs.

**Junior Year**—Major elective, 10 hrs.; Minor electives, 20 hrs.

**Senior Year**—Major elective, 10 hrs., one credit; Minor electives, 20 hrs.

#### *General Scientific Course*

**Freshman Year**—English 1 and 2, 6 hrs.; Mathematics 1 and 2, 8 hrs.; Elective Science, 8 hrs.; German 1 and 2, 8 hrs.

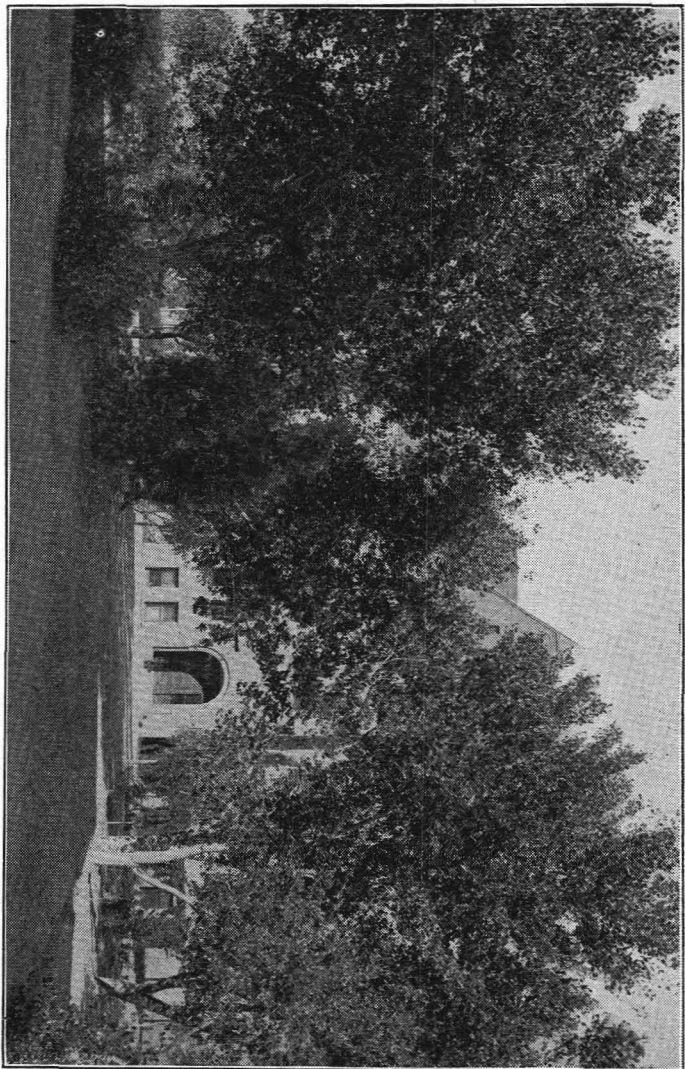
**Sophomore Year**—German 3 and 4, 8 hrs.; Elective Science, 8 hrs.; English or History, 6 hrs.; Spanish 1 and 2, or French 1 and 2, 8 hrs.

**Junior Year**—Major elective, 10 hrs.; Minor electives, 20 hrs.

**Senior Year**—Major elective, 10 hrs.; Minor electives, 20 hrs.

#### *Technical Scientific Course*

**Freshman Year**—English 1 and 2, 6 hrs.; Mathematics 1 and 2, 8 hrs.; Chemistry 1 and 2, 8 hrs.; Ger-



ADMINISTRATION HALL

man 1 and 2, 8 hrs.

Sophomore Year—German 3 and 4, 8 hrs.; Physics 1 and 2, 10 hrs.; Mathematics, 8 hrs.; French or Spanish, 8 hrs.

Junior Year—Major elective, 10 hrs. Minor electives, 20 hrs.

Senior Year—Major elective, 10 hrs. Minor electives, 20 hrs.

### *Pre-Medical Course*

Freshman Year—English 1 and 2, 6 hrs.; Chemistry 1 and 2, 8 hrs.; Biology 1 and 2, 8 hrs.; German 1 and 2, or French 1 and 2, 8 hrs.

Sophomore Year—History 1 and 2, 6 hrs.; Physics 1 and 2, 10 hrs.; Biology 3 and 4, 8 hrs.; German 3 and 4, or French 3 and 4, 8 hrs.

## Courses of Instruction

### *English*

#### 1. *Composition. First Semester. 2:45. 3 h.*

This course demands the preparation of themes on subjects selected to afford exercise in the various modes of rhetorical expression, with special reference to gathering and ordering of material. Open to all students who have completed a four years' course in English.

#### 2. *Criticism and Literature. Second Semester. 2:40. 3 h.*

An introduction to literary criticism; and critical class reading of writers of the Nineteenth Century, especially. Essays on subjects involving collateral reading in the works of authors discussed.

Prerequisite: Course 1.

3. *English Literature of the Eighteenth Century. First Semester. 3 h.*

Study of the "Classic Age" and of the "Transition Period." Library reading required. Open to students who have completed Courses 1 and 2, or their equivalent.

4. *The Development of English Prose. Second Semester. 3 h.*

Particular attention paid to the prose of the Nineteenth Century. Library reading required. Themes.

Prerequisites: Courses 1, 2 and 3.

5. *Chaucer and Spenser. First Semester. 3 h.*

Reading of the Prolog to the Canterbury Tales, Knight's Tale and Nonne Preeste's Tale; cantos from the Faerie Queene. Open to Juniors and Seniors.

6. *Shakespeare. Second Semester. 3 h.*

Critical study of Shakespeare's style and thought in some of the most important plays. Themes. Open to Juniors and Seniors.

### *History*

1. *Mediaeval History. First Semester. 1:00. 4 h.*

A general survey of the history of continental Europe from the fall of Rome to the close of the Fifteenth Century. Alternates with Course 3.

2. *Modern European History. Second Semester. 1:00. 4 h.*

A general survey extending from the close of the Fifteenth Century to the present time. (Not given in 1907).

3. *English History. First Semester. 1:00. 4 h.*

A general survey with especial reference to economic and social conditions. Alternates with Course 1.

4. *American Colonial and Revolutionary History. Second Semester. 1:50. 4 h.*

Especial emphasis will be given to the European influences, to the motives and methods of colonization; and to the social and economic history.

#### *Education*

1. *History of Education. First Semester. 1:00. 5 h.*

A general outline of the educational history of the leading nations, and special study of the world's great educators.

2. *Educational History in the United States. Second Semester. 1:00. 4 h.*

A study of the educational conditions and development through colonial, revolutionary and reorganization periods to the present time.

3. *School Management, Economy and Law. Second Semester. 1:00. 1 h.*

Fundamental laws governing the school. Execution of the laws. Influence of social combinations within the school. Economy of means. School laws of New Mexico.

4. *Orthoepy. First Semester. 9:00. 3 h.*

Scientific basis for phonic work. Intelligent study of dictionary. Onomatopoey. Rhythm in prose. Inflection.

5. *Educational Methods. Second Semester. 9:00. 5 h.*

Discussion of general principles, and specific methods of presenting the common school subjects.

#### *Philosophy*

1. *Logic. First Semester. 11:10. 1 h.*

History and nature of logic. Relation to other subjects. Terms, propositions and syllogism.

2. *Psychology. Two Semesters. 11:10. 4 h.*

Physical basis of mind development. Study

of consciousness. Relation of psychology to education.

3. *History of Philosophy. Second Semester. 11:10. 1 h.*

Study of the lives and doctrines of those who have established great systems of philosophy.

4. *Ethics. First Semester. 9:00. 2 h.*

Consideration of theoretical and practical ethics. The important schools of ethical theory.

#### Greek

1. *Beginning Greek. First Semester. 2:40. 4 h.*

White's First Greek Book, sixty lessons. Forms; syntax and vocabularies.

2. *Beginning Greek. Second Semester. 2:40. 4 h.*

White's First Greek Book completed. Xenophon's Anabasis, Books I and II. Pearson's Prose composition.

3. *Xenophon. First Semester. 11:10. 4 h.*

The Anabasis, Books III and IV. Prose composition continued. Review of Greek history.

4. *Homer. Second Semester. 11:10. 4 h.*

The Iliad, Books I, II and III. Prosody and Scansion. Outline of Greek literature.

5. *Plato. First Semester. 4 h.*

Apology and Crito. Prerequisites: Courses 3 and 4. To be given at the option of the instructor.

6. *Greek Historians. Second Semester. 4 h.*

Selections from Herodotus and Thucydides. Prerequisites: Courses 3 and 4. To be given at the option of the instructor.

#### Latin

1. *Cicero. First Semester. 1:00. 4 h.*

Cicero's De Amicitia and De Senectute. Prose composition one period per week. Roman



Philosophy and History.

2. *Horace. Second Semester. 1:00. 4 h.*

Moore's *Horace's Odes and Epodes*. Selections from other Latin lyric poets. A thorough study of Latin metres.

3. *Tacitus. First Semester. 4 h.*

The *Agricola* and *Germania*. History and Literature of the Empire. Prerequisites: Courses 1 and 2. To be given at the option of the instructor.

4. *Comedy. Second Semester. 4 h.*

Plautus and Terence, one play of each, with a study of early Latin literature. Prerequisites: Courses 1 and 2. To be given at the option of the instructor.

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### Romance Languages

#### Spanish

1. *Beginners' Course. First Semester. 11:10. 5 h.*

Hills & Ford's *Spanish Grammar*. Worman's *Spanish primers*. The elements of grammar, reading, pronunciation and conversation. Special emphasis is laid on the acquisition of a correct pronunciation, and a speaking knowledge of the language is one of the ends in view.

2. *Advanced Course. Second Semester. 11:10. 5 h.*

This course is a continuation of Course 1 with a more advanced study of grammar, reading and conversation. Essays and stories in Spanish with daily drill in composition and conversation. Modern Spanish stories and plays. Alarcón's "*El Capitán Veneno*" and Echegaray's "*El Poder de la Impotencia*."

3. *Spanish Literature of the XIX Century. First Semester.* 1:50. 3 h.

A study of the masterpieces of modern Spanish prose, with studies in the History and Literature of modern Spain. Reading and translation of works from Pérez Galdós, Alarcón, Pereda and Valdés.

4. *Spanish Literature of the XIX Century Continued. Second Semester.* 1:50. 3 h.

The drama of modern Spain. Lectures on Spanish dramatic literature. Reading and translation from the works of José Echegaray, Núñez de Arce and López de Ayala.

5. *Spanish Conversation. First Semester.* 1:50. 2 h.

For students who have had Courses 1 and 2 or their equivalent. Essays and stories in Spanish with practical exercises in composition and conversation.

6. *Advanced Spanish Conversation. Second Semester.* 1:50. 2 h.

Prerequisites: Courses 1, 2 and 5. Essays and stories in Spanish with practical drill in conversation. Occasional debates in Spanish.

(Courses 3, 4, 5 and 6 constitute the regular full year's work in second year Spanish, but students may elect only 3 and 4, or 5 and 6).

7. *History of Spanish Literature. First Semester.* 1:00. 2 h.

Lectures in Spanish, on the Literature of Spain from its beginnings to the Age of Lope de Vega. Arpa y López "Literatura Española."

8. *History of Spanish Literature Continued. Second Semester.* 1:00. 2 h.

Lectures in Spanish on the Literature of Spain, from the Age of Lope de Vega to the pres-

ent time. Arpa y López "Literatura Española."  
(Courses 7 and 8 are conducted entirely in Spanish).

9. *Spanish Phonetics. First Semester. 1 h.*

A critical study of Spanish Phonetics, with special attention to the other neo-Latin tongues and to Latin. Araujo's "Fonetica Castellana" will be used as a text-book.

10. *Old Spanish. Second Semester. 1 h.*

"El Poema del Cid," Pidal's Edition. Old Spanish Grammar, with the history and the development of the Spanish Language. Keller's Alt-spanisches Lesebuch.

*French*

1. *Beginners' Course. First Semester. 9:00. 4 h.*

Frazer and Squair's French Grammar; Francois and Giroud "Simple French." The aim is to give students an opportunity to read, write and speak French correctly, and to this end, Grammar, Pronunciation and easy exercises in Reading and Conversation are the essential features of this course.

2. *Advanced Course. Second Semester. 9:00. 4 h.*

Advanced study of Grammar, Reading and Conversation. Modern French novels and plays. "Le Voyage de Monsieur Perrichon; Bruno's "Tour de la France;" "Tartarin de Tarascon."

3. *French Literature of the XIX Century. First Semester. 1:00. 3 h.*

Reading and translation from the works of Daudet, Maupassant, Merimée, and Labiche et Martin. Conversation and composition based on Francois "Elementary French Prose Composition."

4. *French Literature of the XVII and XVIII Centuries. Second Semester.* 1:00. 3 h.

The rise and development of the French drama. Corneille, Racine, Molière and Beaumarchais. Composition and conversation based on Francois "Advanced French Composition."

5. *Molière. First Semester.* 10:20. 1 h.

The History of French Comedy from mediæval to modern times. The comedy of Molière. Lectures and outside reading.

6. *Victor Hugo. Second Semester.* 10:20. 1 h.

The Romantic Movement. History of Romanticism from Rousseau to Victor Hugo. The Tragedy of Victor Hugo. Lectures and outside reading.

7. *History of French Literature. First Semester.* 10:20. 2 h.

Duval's "Histoire de la Littérature Française." Lectures and outside reading.

8. *History of French Literature. Second Semester.* 10:20. 2 h.

Lanson's "Histoire de la Littérature Française" and Pellissier's "Le Mouvement Littéraire au XIX<sup>e</sup> siècle. (Courses 7 and 8 are given in French).

#### Italian

1. *Elementary Course. First Semester.* 2 h.

Grandgents' Italian Grammar; Bowen's Italian Reader. Grammar, pronunciation and translation.

2. *Advanced Course. Second Semester.* 2 h.

Italian Literature of the XVIII and XIX Centuries. Advanced work in grammar and conversation. Goldoni's "Il Vero Amico," and some prose work of D'Annunzio or Fogazzaro.

**German**

1. *Beginners' Course. First Semester.* 9:00. 5 h.  
Otis' "Elementary German Grammar;" Doriot's German Reader. A course in Elementary Grammar, Pronunciation, Translation and Conversation.
2. *Beginners' Course. Second Semester.* 9:00. 5 h.  
Grammar, continued; easy German stories and plays. Storm's "Immensee" and Von Hillern's "Hoher als die Kirche." Composition and conversation.
3. *Second Year Course. First Semester.* 2:40. 4 h.  
Life and Works of Friedrich Schiller. The Historical Drama. Wilhelm Tell; Jungfrau von Orleans. Advanced work in composition and conversation. German Lyric Poetry; memorizing of choice selections.
4. *Second Year Course. Second Semester.* 2:40. 4 h.  
Life and Works of Lessing, Mina von Barnhelm; Emilia Galotti. Composition and conversation. German Lyric Poetry. Essays and stories in German.

**Oratory and Elocution**

1. *First Year Course. First Semester.* 1:00. 2 h.  
Vocal interpretation; principles of conversation; short selections in narrative, descriptive and didactic styles; forms of voice; bodily development and control; principles of breathing.
2. *First Year Course. Second Semester.* 1:00. 2 h.  
Studies in varied vocal expression; oratorical reading; Shakespeare's "Merchant of Venice;" principles and forms of emphasis; time, pitch, force, stress, slide, melody; qualities of voice; ex-

ercises for relaxation and poise of body; principles of gesture.

3. *Second Year Course. First Semester. 2:45. 2 h.*

Selected readings from English and American classics; dialect forms of speech; Shakespeare's "Hamlet"; scenes from modern dramas; gestural expression.

4. *Second Year Course. Second Semester. 2:45. 2 h.*

Advanced characterization; dramatic reading; Shakespeare's "Macbeth"; original essays and orations; oral discussion and debate; artistic drills.

### *Mathematics*

1. *University Algebra. First Semester. 9:00. 4 h.*

Theory of limits; ratio; proportion; variation; arithmetical, geometrical and harmonical progressions; binominal theorem; arrangements and groups; the theory of probability; convergence, divergence and summation of series; undetermined coefficients; derivatives; logarithms; separation of roots and determinants.

2. *Plane and Spherical Trigonometry. Second Semester. 9:00. 4 h.*

Prerequisite: Course 1. This course covers the elementary principles of trigonometry and enables the student to solve any plane or spherical triangle.

3. *Plane Analytic Geometry. Second Semester. 11:10. 2 h.*

Prerequisite: Courses 1 and 2. The straight line, circle, parabola, ellipse, and hyperbola.

4. *Plane Analytic Geometry. First Semester. 11:10. 2 h.*

Prerequisite: Course 3. The general equation of the second degree and higher plane curves.

5. *Differential Calculus. Second Semester. 3 h.*

Prerequisite: Courses 1, 2 and 3. Differentiation of algebraic and transcendental functions; expansion of functions; indeterminate forms; partial differentiation; and the application of calculus principles in finding tangents, normals, asymptotes, points of inflexion, radii of curvature, evolutes, involutes, the osculating circle, envelopes, singular points and the maxima and minima of curves.

6. *Integral Calculus. First Semester. 4 h.*

An elementary course in simple and successive integration with applications of calculus principles for finding lengths of curves, surfaces, volumes and the moments of inertia.

7. *Advanced Differential Calculus. First Semester. 2 h.*

Continuation of Course 5.

8. *Advanced Integral Calculus. Second Semester. 2 h.*

Continuation of Course 6.

9. *Differential Equations: First Semester. 3 h.*

Prerequisites: Courses 5 and 6.

10. *Differential Equations. Second Semester. 3 h.*  
Continuation of Course 9.*Physics*1. *Mechanics, Sound and Light. First Semester. 5 h.*

Lectures, recitations and laboratory work.

Prerequisite: Courses 1 and 2 in Mathematics.

2. *Heat, Electricity and Magnetism. Second Semester. 5 h.*

Lectures, recitations and laboratory work.

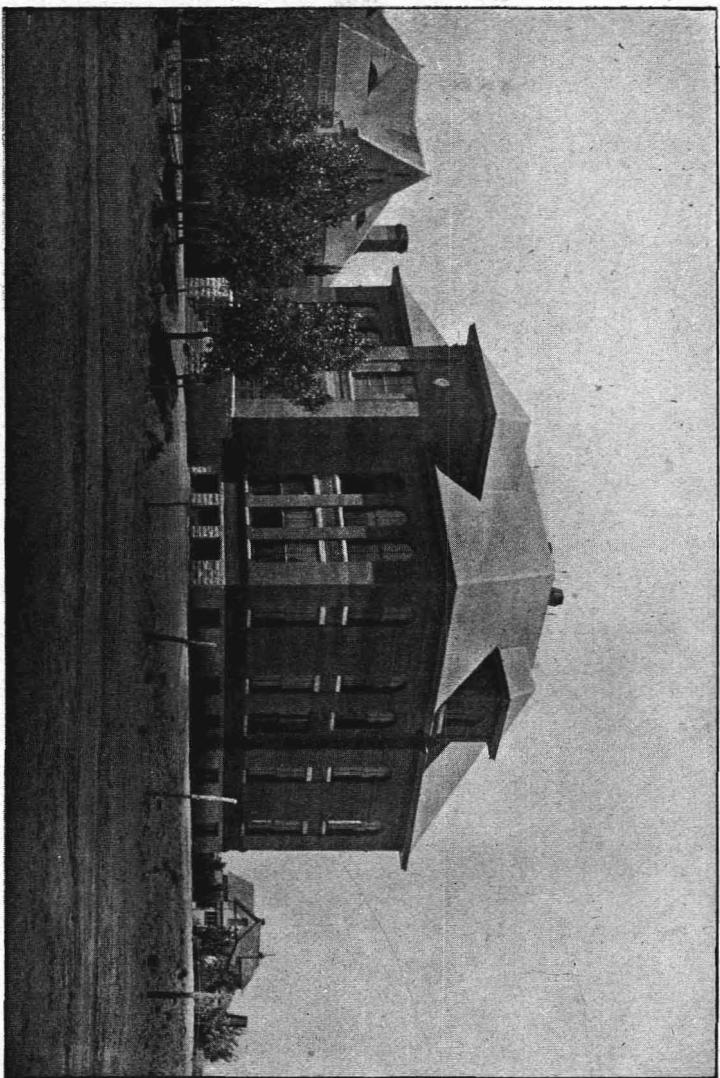
Prerequisite: Course 1 and 2 in Mathematics.

May be taken before Course 1.

3. *Theoretical Mechanics. First Semester. 3 h.*

- Prerequisite: Courses 1 and 2 in Physics, and Courses 5 and 6 in Mathematics.
4. *Theoretical Mechanics. Second Semester. 3 h.*  
Continuation of Course 3.
  5. *Analytical Mechanics. Second Semester. 3 h.*  
Treated with special reference to the requirements of engineers.  
Prerequisite: Courses 5 and 6 in Mathematics, and 1 and 2 in Physics.
  6. *Analytical Mechanics. First Semester. 3 h.*  
Continuation of Course 5.
  7. *Advanced Work in Light. First Semester. 3 h.*  
Prerequisite: Courses 1 and 2 in Physics, and Courses 5 and 6 in Mathematics.
  8. *Advanced Work in Light. Second Semester. 3 h.*  
Continuation of Course 7.
  9. *Mathematical Electricity and Magnetism. First Semester. 3 h.*  
Prerequisite: Courses 1 and 2 in Physics, and Courses 5 and 6 in Mathematics.
  10. *Mathematical Electricity and Magnetism. Second Semester. 3 h.*  
Continuation of Course 10.
  11. *Advanced Laboratory Work. First Semester. 2 h.*  
Designed to accompany Course 9.
  12. *Advanced Laboratory Work. Second Semester. 2 h.*  
Designed to accompany Course 10.
  - 13 and 14. *Thesis Work. Throughout the Year. 5 h.*  
Special attention is paid to students taking this work, which consists in a thorough investigation along some particular line under the direction of the instructor.
  15. *Dynamo Electric Machinery. First Semester. 3 h.*





HADLEY SCIENCE LABORATORY

Lectures and recitations with special attention to requirements of engineers. Prerequisites: Courses 3 and 5 in Mathematics.

16. *Dynamo Electric Machinery. Second Semester.*  
3 h.

Continuation of Course 15.

Note. Course 3, 6, 7 and 4, 5 and 8 are not offered simultaneously.

### *Surveying*

1. *Elementary Surveying. First Semester. 2 h.*  
Johnson's Surveying and Smith's Field Manual. Required of freshmen in Engineering.
2. *Elementary Surveying. Second Semester. 2 h.*  
Continuation of Course 1.
3. *Advanced Surveying. First Semester. 3 h.*  
Required of sophomore Civil Engineers.
4. *Advanced Surveying. Second Semester. 3 h.*  
Continuation of Course 3.

### *Mechanical Drawing*

1. *Elements of Drawing. First Semester. 2 h.*  
Tracy's Mechanical Drawing. One lecture, one recitation, two hours drawing. Required of Engineers.
2. *Elements of Drawing. Second Semester. 3 h.*  
Continuation of Course 1.
3. *Descriptive Geometry. First Semester. 3 h.*  
The point, line and plane.
4. *Lettering. Second Semester. 2 h.*  
Continuation of the work in Courses 1 and 2.

### *Shop Work*

1. *Wood Work on Bench and Lathe. First Semester.*  
2 h.  
Required in Mechanical and Electrical Engineering.

2. *Bench Work in Iron. Second Semester. 2 h.*  
Required of Mechanical Engineers.
3. *Forge Work. First Semester. 2 h.*  
Required of Mechanical Engineers.
4. *The Engine Lathe. Second Semester. 2 h.*  
Required of Mechanical and Electrical Engineers.

### Chemistry

- 1 and 2. *General Chemistry. First and Second Semesters. 1:50. 5 h.*

The major portion of the time is given to the inorganic chemistry, which serves as a fundamental course for all subsequent work in this department. Laboratory work is required.

3. *Qualitative Analysis. First Semester. 5 h.*

One lecture and three laboratory periods of two hours each are required. Analytical methods, and the laws of solution, precipitation, etc. are discussed. Known mixtures are first analyzed to give the student command of the methods; unknowns are then taken up.

4. *Elementary Organic Chemistry. Second Semester. 5 h.*

Two lectures and two laboratory periods of two hours each. The aliphatic compounds are made the principal subject of study and serve to elucidate the principles of classification, methods, etc.

5. *Quantitative Analysis. First Semester. 2:40. 5 h.*

Gravimetric determinations of the more important bases and acids. Some time is given to the preparation of inorganic compounds.

6. *Quantitative Analysis. Second Semester. 2:40. 5 h.*

Continuation of Course 5. Volumetric meth-

ods, including alkalimetry, acidimetry, oxidimetry, etc. Practical analysis are also made so far as the time may permit.

- 7 and 8. *Assaying and Blowpipe Analysis. First and Second Semesters.*

Credit in proportion to work completed. The blowpipe work is planned to bear upon the assaying. In assaying, both the wet and the furnace methods are given. The time is devoted almost wholly to practical work. Prerequisite: Courses 3 and 4.

9. *Water Analysis. Either Semester. 5 h.*

Mineral and sanitary analysis are made. Prerequisite: Courses 3 and 4.

10. *Urine Analysis. Either Semester. 5 h.*

The analysis are made by the usual chemical methods and also by the aid of the centrifuge. Microscopical examinations of the sediments are included. Prerequisite: Courses 3 and 4, and preferably 5 and 6, also.

11. *Advanced Inorganic Chemistry. First Semester. 2 h.*

This course requires extensive reading in the library of the department. Prerequisite: Courses 3 and 4, and preferably 5 and 6 also.

12. *Theoretical and Historical Chemistry. 2 h.*

Prerequisite: Course 11.

### *Biology*

- 1 and 2. *General Biology. First and Second Semester. 5 h.*

This is essentially a laboratory course in continuation of courses which are required for admission. A study of selected types of animals and plants will serve to illustrate the fundamental principles of biological science in connection with

lectures on theoretical biology.

3. *Advanced Zoology. First Semester. 5 h.*

A study of the comparative anatomy of the vertebrates. Representative types of all the vertebrates are studied. Lectures two hours a week and laboratory work three hours a week.

4. *Cryptogamic Botany. Second Semester. 5 h.*

This course is a study of the representative types of the cryptogamous plants by the use of the compound microscope. The morphology and life history of the types are taken up with especial reference to bringing out the relations of the groups and the order and factors involved in the development of the plant kingdom.

5. *Bacteriology. First Semester. 5 h.*

The subject is introduced by a brief consideration of the biology of bacteria. The germs of disease are then studied. Considerable emphasis is placed upon the sanitary aspect of the subject. Typical forms of bacteria are grown in pure cultures and described.

6. *Histology. Second Semester. 5 h.*

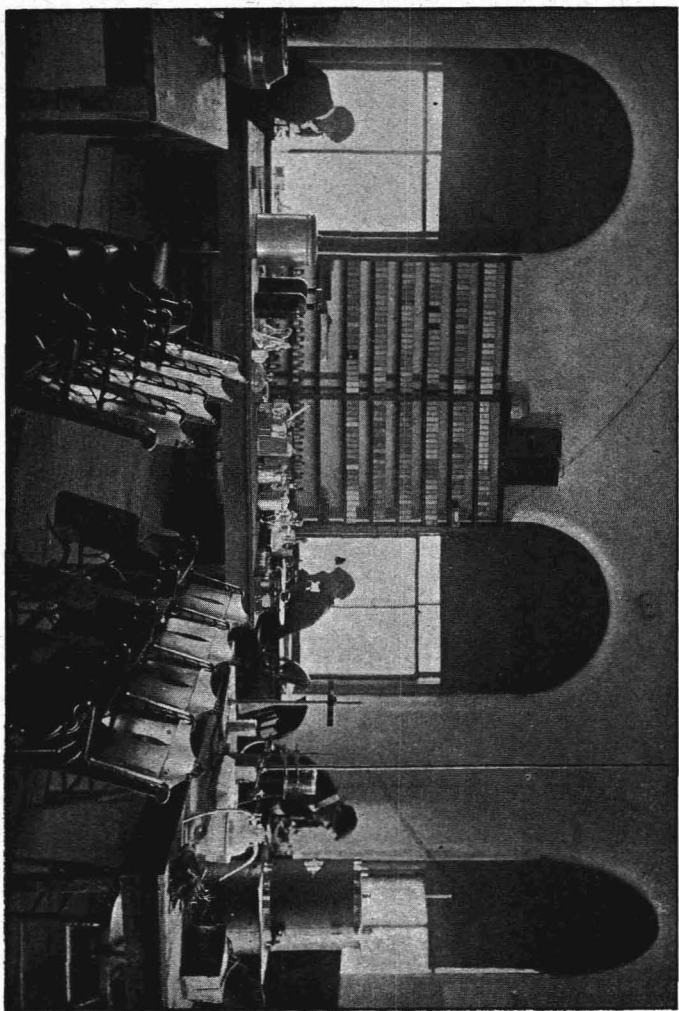
The various classes of animal tissues and organs are studied under the microscope. Some time is given to methods for the preparation of histological material.

7. *Advanced Physiology. First Semester. 4 h.*

A course intended for students who have had one or more years of college work. Adapted to those who are looking toward medicine.

8. *Haematology. Second Semester. 5 h.*

Fresh and prepared specimens of the blood are studied, cell counts are made, and the colorless corpuscles classified. Specific gravity and haemoglobin determinations are also made and the vol-



HISTOLOGICAL LABORATORY

ume of the cells is determined by the use of the centrifuge.

### Geology

1. *Meteorology. Second Semester. 5 h.*

The text-book used is Davis' Meteorology, with lectures and laboratory work. Special attention is given to the study of the meteorological conditions of this region with reference to the climate problems, under the investigation of the climatological laboratory in compliance with the original design of Mrs. W. C. Hadley, the founder of the laboratory.

- 2 and 3. *Dynamic, Structural and Historical Geology. First and Second Semester. 11:00. 5 h.*

The subject as presented in Le Conte's Text-Book is supplemented by lectures, laboratory and field work.

4. *Petrography. First Semester. 5 h.*

After a brief study of the rock-forming materials and the principles of crystallography, the principal rocks of the Rocky Mountains are studied, microscopically. Field work is carried on in connection with the laboratory investigations. This subject may be taken only by students who have an adequate preparation in chemistry and physics. The technique of the petrographic microscope is acquired by practical work. Sections are made by the use of the lithological lathe.

5. *Paleontology. Second Semester. 5 h.*

This course is devoted to a critical study of the fossils of certain geologic formations, with especial reference to the geology of New Mexico.

- 6 and 7. *Geological Research. First and Second Semester. 5 h.*

Opportunities for research in the unworked

field of the Territory are unlimited. Major for thesis.

### Schedule of College of Letters and Science.

9:00 to 9:50	1:00 to 1:50
German, 1 and 2, M. T. W. Th..... 4 h.	Elocution, 1 and 2, T. Th..... 2 h.
Ethics, 4, T. Th..... 2 h.	French, 3 and 4, M. T. W. F..... 4 h.
Mathematics, 1 and 2, M. T. W. Th. 4 h.	History, 1 and 2, M. T. W. F..... 4 h.
Orthoepy, 4, M. W. F..... 3 h.	His. of Education, 1, M. T. W. Th. F. 5 h.
	Latin, 1 and 2, M. T. W. F..... 4 h.
	School Management, 3, Th..... 1 h.
	Spanish, 6 and 7, T. Th..... 2 h.
	Physics, 3 and 4, M. W. F..... 3 h.
9:50 to 10:20	1:50 to 2:40
Assembly.	Chemistry, 1 and 2, M. T. Th. F.... 4 h.
	Spanish, 3 and 4, M. W. F..... 3 h.
	Spanish, 5 and 6, T. Th..... 2 h.
10:20 to 11:10	2:40 to 3:30
French, 1 and 2, T. W. Th. F..... 4 h.	Chemistry, 3 and 4, M. T. Th. F.... 4 h.
Physics, 7 and 8, M. W. F..... 3 h.	Elocution, 3 and 4..... 2 h.
	English, 3 and 4, M. W. F..... 3 h.
11:10 to 12:30	German, 3 and 4, M. T. Th. F..... 4 h.
English, 1 and 2, M. W. F..... 3 h.	Greek, 1 and 2, T. W. Th. F..... 4 h.
Geology, 2 and 3, M. T. W. Th. F. 5 h.	Education, 5, M. T. W. Th. F..... 5 h.
Greek, 3 and 4, T. W. Th. F..... 4 h.	Physics, 1 and 2, M. T. W. Th. F. 5 h.
Mathematics, 3 and 4, T. Th..... 2 h.	
Mathematics, 5 and 6, M. W. F..... 3 h.	
Psychology, 2, M. T. W. Th..... 4 h.	
Spanish, 1 and 2, M. T. W. Th. F. 4 h.	
12:00 to 1:00	3:30 to 4:20
Noon.	Chemistry, Laboratory.
	Physics, 11 and 12..... 2 h.
	Shop Work, 1 and 2.
	Shop Work, 3 and 4.

## Engineering School

The School of Engineering, which will open in the University for the year 1906-1907 owes its beginning to a strong and increasing demand for such a department in the institution. The aim of the school will be to offer four year courses in civil, electrical, mechanical and mining engineering; leading to the degree of A. B. in engineering. For the year 1906-1907, only the courses of the first two years will be offered. It is hoped, however, to make the work in these, equivalent to that of the first two years in any



of the better engineering and technical schools, so that any one finishing the first two years would have no trouble in completing the course in the usual time.

The entrance requirements are the same as those for the College of Letters and Science, with the exception of English where only three years are required. Students from schools accredited in a four years' science course will be admitted upon their certificate without examination. Students deficient in a minor portion of their work may enter, "conditioned," in this work, and the condition will be removed as soon as the work is completed.

Special students, not working for a degree, may be permitted to take special studies without passing the entrance requirements upon giving satisfactory evidence that they can do so advantageously.

The description of courses will be found under the respective departments in the College of Letters and Science. The work required for the Freshmen and Sophomore years in the four courses is as follows:

### *Freshman Year—All Courses*

#### FIRST SEMESTER.

	PER WEEK.
German 3, French 1 or Spanish 1.....	4 hrs.
English 1.....	3 hrs.
Mathematics 1.....	4 hrs.
Chemistry 1.....	4 hrs.
Mechanical Drawing 1.....	2 hrs.
Surveying 1 or Shop Work 1.....	2 hrs.
Total.....	19 hrs.

#### SECOND SEMESTER.

	PER WEEK.
German 4, French 2 or Spanish 2.....	4 hrs.
English 2.....	3 hrs.

Chemistry 2.....	4 hrs.
Mathematics 2 and 3.....	5 hrs.
Surveying 2 or Shop Work 2.....	2 hrs.

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Total.....18 hrs.

*Civil Engineering—Sophomore Year*

FIRST SEMESTER.

	PER WEEK.
Mathematics 4 and 5.....	5 hrs.
Physics 1.....	5 hrs.
Surveying 3.....	3 hrs.
Mineralogy .....	3 hrs.
Topographical Engineering 1.....	2 hrs.

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Total.....18 hrs.

SECOND SEMESTER.

	PER WEEK.
Analytical Mechanics 1.....	3 hrs.
Physics 2.....	5 hrs.
Surveying 4.....	3 hrs.
Mineralogy .....	3 hrs.
Descriptive Geometry 3.....	3 hrs.
Elective .....	2 hrs.

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Total.....19 hrs.

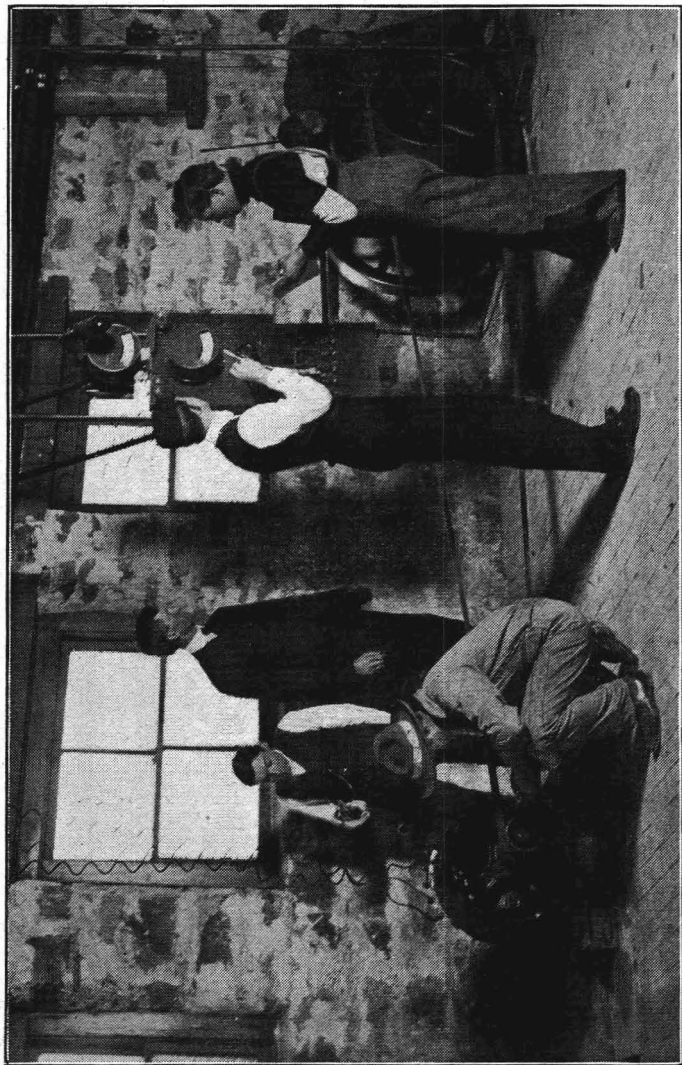
*Electrical Engineering—Sophomore Year*

FIRST SEMESTER.

	PER WEEK.
Mathematics 4 and 5.....	5 hrs.
Physics 1.....	5 hrs.
Shop Work 3.....	3 hrs.
Dynamo Electric Machinery 1.....	3 hrs.
Elective .....	2 hrs.

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Total.....18 hrs.



TESTING DYNAMO

## SECOND SEMESTER.

	PER WEEK.
Analytical Mechanics 2.....	3 hrs.
Physics 2.....	5 hrs.
Shop Work 4.....	3 hrs.
Dynamo Electric Machinery 2.....	3 hrs.
Descriptive Geometry 1.....	3 hrs.
Elective 2.....	2 hrs.

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Total.....19 hrs.

*Mechanical Engineering—Sophomore Year*

## FIRST SEMESTER.

	PER WEEK.
Mathematics 4 and 5.....	5 hrs.
Physics 1.....	5 hrs.
Shop Work 3.....	3 hrs.
Dynamo Electric Machinery 1.....	3 hrs.
Elective 2.....	2 hrs.

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Total.....18 hrs.

## SECOND SEMESTER.

	PER WEEK.
Analytical Mechanics 1.....	3 hrs.
Physics 2.....	5 hrs.
Shop Work 4.....	3 hrs.
Dynamo Elect. Machinery 2.....	3 hrs.
Descriptive Geometry 1.....	3 hrs.
Elective 2.....	2 hrs.

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Total.....19 hrs.

*Mining Engineering—Sophomore Year*

## FIRST SEMESTER.

	PER WEEK.
Mathematics 4 and 5.....	5 hrs.
Physics 1.....	5 hrs.

Chemistry 5.....	3 hrs.
Geology 2.....	5 hrs.
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Total.....	18 hrs.

## SECOND SEMESTER.

	PER WEEK.
Analytical Mechanics 1.....	3 hrs.
Physics 2.....	5 hrs.
Chemistry 6.....	3 hrs.
Geology 3.....	5 hrs.
Elective .....	2 hrs.
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Total.....	18 hrs.

# Normal School

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## *Department of Education*

The purpose of the Course in Education is to provide thorough professional instruction for teachers. The academic work is carried on with the University classes, the Normal students thus having the advantage of scholastic work with specialists in the various departments, of ample apparatus and equipment, of the large library, of lectures, of literary societies, and of all privileges incident to participation in University life.

The conscious aim of this department is to bring together the essentials of all that directly bears upon pedagogy from descriptive, physiological, and experimental psychology; from the history of education; from ethics; from sociology and from a comparative study of the present educational systems—to the end that students may gain such knowledge of the nature and development of the mind and the nature and function of the subject to be taught, as will give ability and power in the process of teaching. But the primary object throughout the course is to secure for the teacher adequate, intellectual and moral development, high educational ideas, and the unfolding of his own originality and resourcefulness.

The Normal students have most excellent opportunities for observing regular school work in the modern and progressive schools of the City of Albuquerque, where all grades are represented, including a well

equipped and excellent High School. There is a decided advantage in observing work where there are several teachers of each grade. Visits are made under the direction of the instructor at intervals throughout the entire year.

Before graduation each Normal student is required to teach a designated amount of time that there may be an opportunity for putting theory into practice.

All students who complete any one of the regular Preparatory Courses as outlined in the catalogue are prepared for the Course in Education, as the fifth year's work, or the professional studies may be interpolated throughout the Preparatory Course, under direction of the instructor in charge. Upon the completion of the Preparatory Course of four years and the year's professional work, a diploma will be granted. The holder of this diploma is entitled to a five years' professional certificate as issued by the Territorial Board of Education.

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## Outline of the Normal Course

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### *Psychology*

Psychology applied to education is the basis of all rational pedagogic work. The discussions will bear directly upon educational psychology, under the following general heads:

Relation of psychology to education. Prevailing methods in psychological study. Brief study of the physical basis—the brain and nervous system. Conditions of effective mental activity—consciousness, attention, habit. Objective and subjective presentative faculties. Memory—its kind, functions and laws. Judgment. Imagination. Fantasy. The emotions,

affections and desires. The will. General operations of the mind—acquisition, assimilation and reproduction.

Constant attention is given in the study of psychology to its bearing upon life and character and to the practical application of its principles in the regular school work.

In consideration of the influence of mind upon body, a short course is given on the theory and history of Hypnotism or Suggestion—its use and abuse.

The recitation work is based on Roark's Psychology in Education.

Special reference texts are: Gordy's New Psychology, Harris' Psychologic Foundations of Education, Titchner's Psychology, and James' Talks on Psychology.

### *History and Philosophy of Education*

A general outline of the world's educational history is given, with special study of educational epochs, systems of education of leading nations of the past and their great leaders. The history naturally divides itself into: Education in Oriental Countries, Ancient Classical Nations, and Europe before and after the Reformation.

Nature of education. Its forms. Its limits.

Education in the United States.—Colonial, revolutionary and reorganization periods. Development of normal schools and the kindergarten. Education of the unfortunate classes. History of educational associations. Private and denominational aid in education, influence of libraries and governmental publications.

References: Painter's History of Education, Monroe's History of Education, Rosenkranz's Philos-



ophy of Education, Boone's Education in the United States, Brown's Making of Our Middle Schools, Dexter's History of Education in the United States.

### *Ethics*

Consideration of theoretical and practical ethics. The three great problems of the theory of ethics—the aim and motive of action, the problem of the freedom of the will, or free agency, and the problem of evil in the world. The important schools of ethical theory with reference to the aim and motive in life—Hedonism, Rigorism, Rationalism, Pluralistic Idealism with their sub-divisions, and Christian ethics.

Practical ethics involving the application of theory through the various institutions of life. Duties of the individual to himself, friendship, home, marriage, civil society, the state, the church, and a consideration of our ethical relations to the lower animals.

### *Logic*

History of logic. Its nature. Relation to psychology, and to ethics. The terms of logic. Ambiguity of terms. Kinds of propositions. Syllogisms. Rules of the syllogism. Moods and figures. Fallacies. Inductive and deductive methods.

### *History of Philosophy*

A brief survey of the field of philosophy. Comparative study of the lives and doctrines of those thinkers who have offered theories of existence, or who have established great systems of philosophy.

### *School Economy*

I. School officers—how appointed, term of office, duties, relation to teachers.

II. School requisites:

1. Funds—sources, uses.
2. Grounds—location, size, drainage, general

arrangement, trees, play-grounds.

3. Buildings—situation, exterior appearance, interior arrangement with reference to size of rooms and halls, lighting, heating, ventilation.

4. Furniture—size, structure and arrangement of desks.

5. Apparatus—what, mode of procuring, uses, care of.

6. Records and Reports—forms, methods of keeping, uses.

7. Libraries—need for, how to procure, care of, utilizing.

III. Teacher—qualifications, motives, rights, duties.

IV. Course of study.

V. Organization of the School—plan, program, seating pupils.

VI. The Recitation—its purpose, plan, preparation for, by pupil and teacher, mannerism of teacher.

VII. Government—object of, principles involved, elements of governing power, punishment.

VIII. School Law—of New Mexico, national statutes pertaining to education in the states and territories.

### *School Management*

The Fundamental Laws.—Found within the organism as a spiritual process. Found within the spiritual unity of the teacher and pupil. Found within the unity of the pupil.

The Law Evolving the Organism.—Unifying qualities in the teacher. Unifying conditions of teacher and pupils. Unifying qualities and conditions secured. School supervision.

The Organism Executing the Law.—The organism in the process of instruction. Unity in the school

as a whole. Pupils in active unity with the teacher. Unity in class study. Unity in class reciting. Restoration of broken unity. The law of restoration. Application of the law. Ethical training within the organism. Harmony of means and end. The law against artificial incentives.

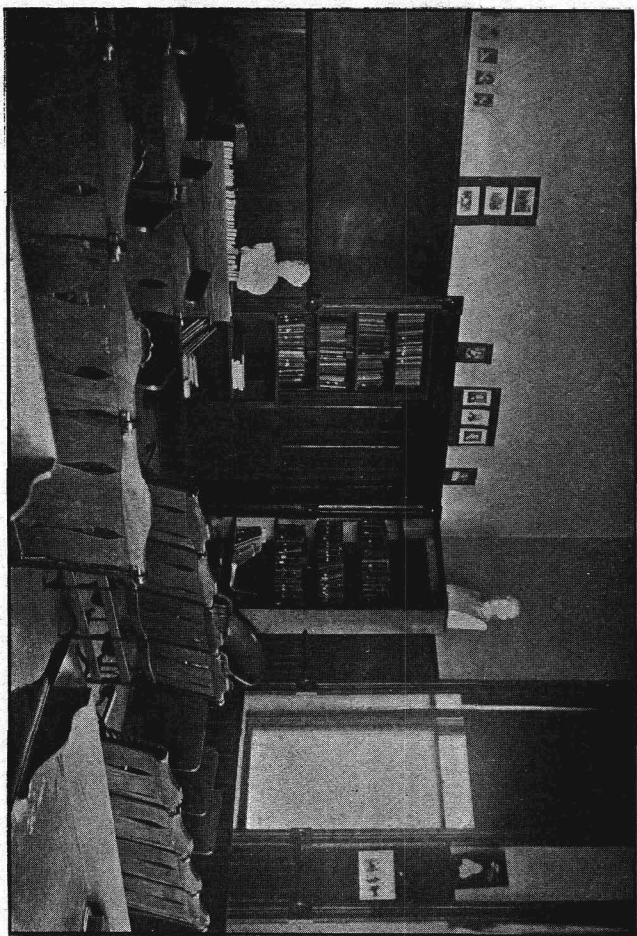
Influence of Social Combinations.—Politeness, order, truthfulness, industry. Justice, altruism, rational freedom. (Outline adapted from Tompkin's *School Management*, which is the text in use).

### *Orthoepy*

The purpose of the work in orthoepy is to give a scientific basis for teaching the sounds of the language, an intelligent use of the dictionary, and an understanding of related subjects that will add interest to the study of speech, encourage the cultivation of the voice, and throw light upon the expression of thought in the reading work. The subject is viewed under the following topics:

Vocal physiology as the basis for voice production; phonology; analysis and classification of vocal elements; diacritical marking; imperfections of English orthography; noted attempts at perfect phonetic representation; orthoepic elements—syllabication, accentuation, articulation; vowels and consonants in unaccented syllables; special dictionary study; comparison of systems of dictionary markings; onomatopoeia; theories of the origin of speech and language; difference between speaking and singing tones; etymological history of words.

Special reading work will involve a consideration of rhythm in human speech and animal utterances, the possibility of scoring speech and prose, as in poetry, the discovery and significance of inflection, the nature



CLASS ROOM IN THE NORMAL SCHOOL

and value of gesture, the gaining of thought and the use of the voice.

### *Child Study*

"The practice of child study is directly for the sake of the teacher, indirectly for the sake of the child, and incidentally for the sake of science."

Attention will be given to the various phases of the subject, different methods of study, historical accounts of child study movement, records of results from experiments and observations, the literature of the subject, treatment and training of children of uncivilized peoples, child character in history and fiction, abnormal conditions in children, study of physical characteristics, plays, secret languages, fears, special interests, affections, ideas of punishment and reward.

References—Studies of Childhood by Sully; Russell's Child Observations; Taylor's Study of the Child; Tracy's Psychology of Childhood.

### *Educational Methods*

*General*—"The law in the mind and the thought in the thing determine the method." The teacher who does not study both mind and subject to be taught, in his interpretation and determination of method fails to grasp fundamental relations.

Discussion based on psychological principles will be given to such topics as—the teaching process, analysis and synthesis, induction and deduction, correlation and concentration of studies, apperception, theory of culture epochs.

Reference Texts — Tompkin's - Philosophy of Teaching; McMurry's General Method; De Garmo's Interest and Education; O'Shea's Education as Adjustment.

*Specific Methods*—Application of general principles, and pedagogical steps pointed out in teaching the various school subjects.

Reading—Nature of reading, its general and comparative value. Analysis of the reading process, mental steps in the process of expression. Reading as a mode of thinking. Relative importance of silent and oral reading. History of methods of teaching reading. A rational combination of methods. Supplementary reading. Ultimate aims of reading.

Number—Pupils are often led by unthoughtful teaching to believe that each part or subject of arithmetic is mysteriously new. In number methods, great stress is placed upon the development of the close relation of various phases of the subject.

Psychical nature of number, its origin and development. Number, the measurement of energy. Form, size and weight defined as results of energy. Original steps in the process of measuring. How the child's first notion of numbers is gained.

Principles of the Grube Method. The Speer method. Rational ideas in the development of number with children.

The decimal system—its law, grouping, naming and writing numbers, association of Latin numerals with names of periods for rapid work in notation and numeration.

The Roman notation, its regular, varying scale.

Practical presentation of the important subject of fractions in relation to percentage.

Special reference text—The Psychology of Number, by McClellan and Dewey.

Geography—Geography in the scheme of concentration. What it includes as a science. Correlation with other subjects. Logical and chronological analy-

sis of geographical facts. The earth as a whole and as a member of the solar system. Sources of geographical knowledge. Use and abuse of text books. Observation, investigation and comparison. Differentiation of knowledge to be gained by observation, inference and testimony. Importance of local geography. Influence of climate and environment. Man's power over nature, and his approach to the material limit. Use of maps. Study of type forms.

The close relation of geography and history is kept constantly in view.

Consideration of a course of study in geography for the grades.

References — McMurry's Special Method in Geography, King's Methods and Aids in Geography, and Parker's How to Study Geography.

History—The method work in history seeks to turn the student from the lifeless forms of records and dates and diagrams, memorized, to the dynamical interpretation of history as a living movement of the people, in the onward march toward freedom.

The two factors involved are the transforming agent, mind, and the facts of history, or the material to be transformed.

The nature of history, not merely a record, but a life movement. Historic forces at work. Primitive man and the story of his evolution in the process of removing limitations.

Why and how study history. The organizing principle, the growth of institutional life. The five great institutions into which the life of the people runs—the state, the church, the school, occupations, and the home. A change in any one affects all others.

The interpretation of events in history involves a consideration of the laws of continuity and differen-

tiation, fundamental and subordinate causes, positive and negative causes, immediate and remote ends.

Historic forces not to be viewed as statical, but as dynamical. Educational and ethical value of right interpretation. Comparison of text books in history.

History in grades. Use of biography. Life of the child in unity with life of the race. Theory of "culture epochs." Historical reading for grades.

Work based on Mace's Method in History.

Reference—Kemp's Outline of Method in History.

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### Schedule of Courses

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#### *Education*

1. *History and Philosophy of Education. First Semester. 1:00. 5 h.*
2. *Educational History in the United States. Second Semester. 1:00. 4 h.*
3. *School Management and School Law. Second Semester. 1:00. 1 h.*
4. *Orthoepy. First Semester. 9:00. 3 h.*
5. *Educational Methods. Second Semester. 9:00. 5 h.*

#### *Philosophy*

1. *Logic. First Semester. 11:10. 1 h.*
2. *Psychology. Two Semesters. 11:10. 4 h.*
3. *History of Philosophy. Second Semester. 11:10. 1 h.*
4. *Ethics. First Semester. 9:00. 2 h.*



## The Preparatory School

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The Preparatory School offers thorough instruction in three courses: Classical, English-Scientific and Commercial. These courses are all four years in length and are designed to give a good general education, and at the same time to prepare for college. The professional work of the Normal School is largely done after the completion of the Preparatory work, but may be interpolated with it.

The unit of work is one study, five hours a week, fifty minutes recitation period, or two hours laboratory period, per day, for a year.

The outside work of the student is estimated at an average of one and a half hours for the preparation of each class exercise. The regular requirement is four studies per day. Students are not permitted to take five studies except by special permission of the Faculty. Of the required work, certain studies are prescribed and certain studies are elective. The prescribed work in each course and enough elective work to make 16 credits, with the required rhetorical work in composition and public speaking, is necessary for graduation.

The rhetorical work required of all students consists of one essay and one declamation each semester during the first and second years and one oration and one declamation each semester during the third and fourth years. Students of the third and fourth years are required to appear in public rhetorical exercises at Assembly. An equivalent amount of work done in

the literary societies or on the U. N. M. Weekly staff, under the direction of the Professor of Oratory and Elocution, may be substituted for a part of this requirement. Essays written for English classes may be used in rhetorical work.

Students electing a language must pursue that elective at least two years.

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## Requirements for Admission to the Preparatory School

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### *Admission on Examination*

Applicants for admission to the Preparatory School must furnish a satisfactory certificate from some school of acknowledged thoroughness, equal to the completion of the eighth grade of a public school of recognized standing, or else pass entrance examinations in English, History, Geography, Elementary Physiology, and Arithmetic.

Requirements for admission to the Preparatory School are such that the faithful student may hope to complete the preparation for admission to the freshman class of this University or any other American college by four years of successful work.

With more advanced preparation or by special diligence it is possible to complete the required Preparatory work in less than four years.

The ground covered by the entrance examinations is as follows:

*English*—A knowledge of English grammar and the elements of English composition, as outlined in Maxwell's English Grammar, or an equivalent, is required of all students desiring to enter the Preparatory School of the University. Examinations are given those applicants who can not present a certificate

indicating the satisfactory completion of the grammar courses. In addition to the examination upon the rules of grammar, the candidate for entrance will be required to submit a list of the classics read, and to write an essay upon a subject designated by the examiner and connected with some book on the list submitted.

*History*—McMaster's United States History, or its equivalent.

*Geography*—Redway and Hinman's Natural Geography, or its equivalent.

*Physiology*—Tracy's Outlines of Physiology, or its equivalent.

*Arithmetic Completed*—Wentworth's Complete Arithmetic, or its equivalent. Especial proficiency is expected in percentage and its applications and in the metric system of weights and measures.

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### *Admission on Certificate*

The University will receive students from any school of acknowledged thoroughness and, without examination, give them probation credit for all the work they have done.

To this end, the student must furnish a certificate signed by the Principal or Superintendent of said school stating: (1) that he has been a satisfactory student in said school; (2) the branches of study pursued; (3) the text books used; (4) the page to which completed; (5) standing in the subjects.

Blanks for such certificates can be had by applying to the University.

If the student maintains his standing for one year on the probation credits, full credits will then be entered on the records.

### Courses of Study

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There are three regular courses of study offered in the Preparatory School. Students are urged to follow closely the studies in some one of these courses and in their regular order. The hours of recitation for each study are fixed in the schedule of recitations and cannot be changed for irregular or elective students.

Certain studies are required of all students in all the courses, while certain other studies are required in addition, depending upon the course elected. The arrangement of the studies in the courses is as follows:

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#### *English-Scientific Course*

##### FIRST YEAR.

English A; Algebra A; Spanish A, or Latin A; Physiology A and Botany A.

##### SECOND YEAR.

English B; Geometry B; History B; Spanish B, or Latin B.

##### THIRD YEAR.

English C; German A, or Spanish A; Zoology C and Physical Geography C; Algebra C and Trigonometry C, or Elective C.

##### FOURTH YEAR.

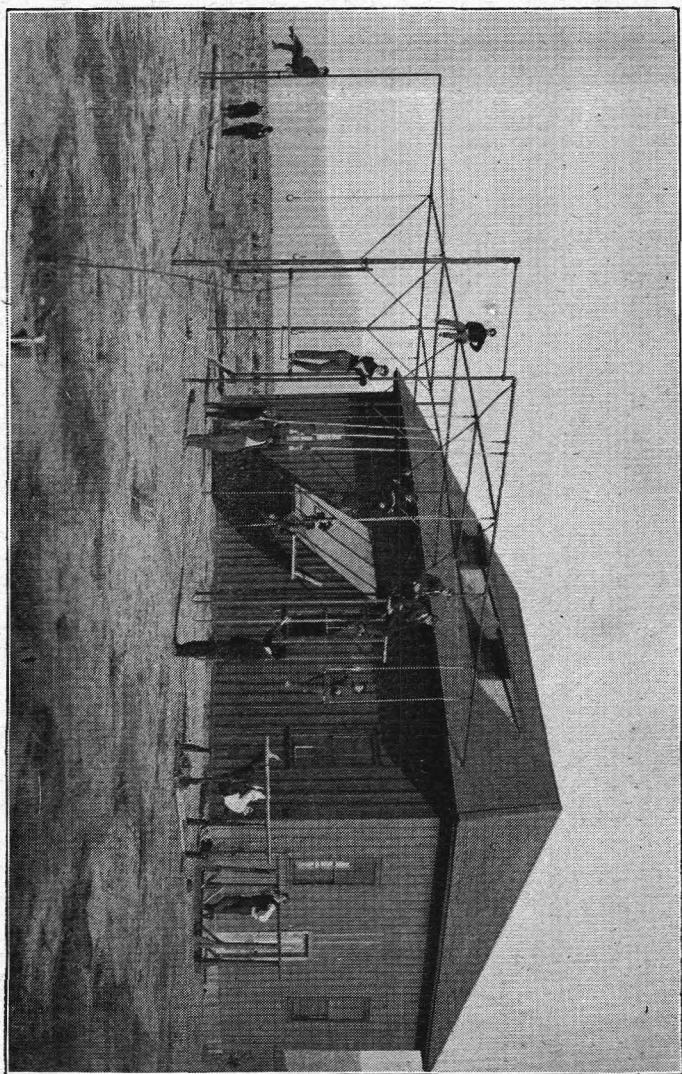
Physics D; German B, or Spanish B; Chemistry D; English D.

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#### *Classical Course*

##### FIRST YEAR.

English A; Algebra A; Latin A; Physiology A and Botany A.



GYMNASIUM

SECOND YEAR.

English B; Geometry B; History B; Latin B.

THIRD YEAR.

English C; German A, or Spanish A; Latin C;  
Algebra C, and Elective C.

FOURTH YEAR.

Physics D; German B, or Spanish B; Latin D;  
English D.

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*Commercial Course*

FIRST YEAR.

English A; Algebra A; Stenography A; Physiology A and Botany A.

SECOND YEAR.

English B; Geometry B; Stenography B; History B.

THIRD YEAR.

English C; Bookkeeping C; Spanish A, or German A; Algebra C and Elective C.

FOURTH YEAR.

Physics D; Bookkeeping D; Spanish B, or German B; English D.

## COURSES OF STUDY IN PREPARATORY SCHOOL

YEAR OF COURSE	REQUIRED STUDIES FOR ALL PREPARATORY STUDENTS			REQUIRED IN ENGLISH SCIENTIFIC COURSE	REQUIRED IN CLASS- ICAL COURSE	REQUIRED IN COMMERCIAL COURSE
First Year....	English A	Algebra A	Physiology A and Botany A	Latin A or Spanish A	Latin A	Stenography A
Second Year..	English B	Geometry B	History B	Latin B or Spanish B	Latin B	Stenography B
Third Year...	English C	Algebra C and Trigometry C, or Elective C.	German A or Spanish A	Physical Geography C and Zoology C	Latin C	Bookkeeping C
Fourth Year..	English D	Physics D	German B or Spanish B	Chemistry D	Latin D	Bookkeeping D

## Courses of Instruction

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*English*

- A. *Composition and Rhetoric. First Year 9:00. 5 h.*

One composition each week supplemented by class exercises in written and oral composition. Reading and study of certain well known classics.

- Composition and Rhetoric. Second year. 10:20. 5 h.*

One composition each week supplemented by class exercises in written and oral composition. Reading and study of certain classics required for college entrance.

- C. *Composition and Literature. Third Year. 1:00 5 h.*

Frequent essays. Study of most important English and American authors. Reading and class study of Macbeth, L'Allegro, Il Penseroso, Comus, and Lycidas, Essay on Burns, Essay on Milton and Addison, Speech on Conciliation with America.

- D. *Literature. Fourth Year. 11:00. 5 h.*

History of English Literature. Completion of College Entrance Requirements.

*History*

- A. (1). *Greek History. First Semester. 2:40. 5 h.*

A detailed study is made of Greek civilization, including art, literature, and philosophy. This course includes a study of the peoples of Western Asia, with special reference to the ele-



ments of civilization originated by them and transmitted to the people of the West.

- A. (2) *Roman History. Second Semester. 2:40 5 h.*

A general survey, with special emphasis on the period of the later Republic and early Empire. Study of art, literature and philosophy included.

### *Latin*

- A. *Beginning Latin. First Year. 1:50. 5 h.*

A study of forms, elementary syntax and vocabulary. Selections from *Viri Romae* with prose composition.

- B. *Caesar. Second Year. 9:00. 5 h.*

Selections from various Latin writers and Books II, III and IV of the Gallic War. Prose composition based on text.

- C. *Cicero. Third Year. 9:00. 5 h.*

Catalinarian orations, the Manilian Law and the Archias. Prose composition based on text. Classical Geography and History. Roman Life and Customs.

- D. *Vergil. Fourth Year. 10:20. 5 h.*

Books I-VI. Prose composition, one period per week. Literature and mythology of Rome. Prosody with scansion of part of Book I.

### *Spanish*

- A. *Beginners' Course. First Year. 11:10. 5 h.*

Hill's and Ford's "Spanish Grammar;" Worman Spanish Readers; Echegaray's "El Poder de la Impotencia;" Essays and stories in Spanish, with practical drill in conversation. Special emphasis is laid on the acquisition of a correct pronunciation and a speaking knowledge of the language is one of the ends in view.

- B. *Second Year Course. Second Year. 1:50. 5 h.*

Essays in Spanish, with bi-weekly exercises in composition and conversation. Occasional debates in Spanish.

Spanish Literature of the XIX Century three days a week. Novels and plays from the works of Galdós, Alarcón, and José Echegaray.

#### German

- A. *Beginners' Course. First Year. 9:00. 5 h.*

Otis' "Elementary German Grammar;" Guerber's "Marchen and Erzählungen;" Easy German plays. Easy exercises in composition and conversation.

- B. *Second Year Course. Second Year. 2:40. 5 h.*

Composition and conversation based on Bernhardt's "Composition and Conversation." Modern novels and plays.

During the second term the historical drama of Schiller will be read.

#### Mathematics

- A. *Elementary Algebra. Both Semesters. 1:00. 5 h.*

The four elementary processes of whole numbers and fractions, simple equations, involution, evolution, theory of exponents and radical quantities.

- B. *Geometry. Both Semesters. 1:00. 5 h.*

An elementary course complete in one year. Wentworth's Plane and Solid Geometry (Revised).

- C. (1) *Advanced Algebra. First Semester. 10:20. 5 h.*

A rapid review of simple equations, followed by a thorough course in quadratics, graphic repre-

sentation of equations, theory of indices and logarithms.

- C. (2) *Trigonometry. Second Semester.* 10:20  
5 h.

Plane Trigonometry and an introduction to spherical. Required of all science students and elective for others who have had logarithms.

#### *Physics*

- D. *Preparatory Physics. Both Semesters.* 1:50.  
5 h.

An elementary course in Mechanics, Sound, Light, Heat, Electricity and Magnetism. Recitations and laboratory work by the students, in connection with lectures by the instructor.

#### *Shop Work and Mechanical Drawing*

- D. *Shop Work. Both Semesters.* 3 h.

Six hours per week of bench-work, lathe-work, forging and welding of iron and steel.

- D. (1) *Mechanical Drawing. First Semester.* 3 h.

Six hours per week in the use of drawing instruments and lettering.

#### *Chemistry*

- D. *General Chemistry, and Qualitative Analysis.*  
*Fourth Year.* 1:50. 5 h.

The major portion of the time is given to the general inorganic chemistry which serves as a fundamental course for all subsequent work in this department. An introduction to organic chemistry is also given. About twelve weeks are given to qualitative analysis; this work is made the basis for a study of the laws of solution, dissociation, precipitation, etc. Laboratory work is the most important feature of the whole year's work. Required in the scientific course.

*First Semester.* 1:50. 5 h.

*Biology*

- A. (1.) *Physiology and Hygiene. First Semester.*  
10:20. 5 h.

A thorough course in physiology is recognized as furnishing a basis for all future work in the natural sciences. For this reason it precedes the work in botany and zoology. Especial emphasis is placed upon the laws of hygiene. The microscope is frequently used, and experiments in connection with the text form an important feature of the course.

- A. (2.) *Elementary Botany. Second Semester.*  
10:20. 5 h.

Special attention is given to the structure and morphology of phanerogamous plants. Complete written descriptions and the classification of a certain number of phanerogams are required. This work is supplemented by lectures and demonstrations on the histology of phanerogamous tissue and on the structure and embryology of typical cryptogams.

- C. (1.) *Elementary Zoology. First Semester.*  
10:20. 5 h.

In the laboratory, dissections are made of the representative forms of the main groups of the animal kingdom. In this work written descriptions and drawings are required. In the use of the text and by means of lectures the evidence of a gradual development of animal forms is reviewed. The principles and methods of classification are illustrated by reference to collections.

*Physical Geography*

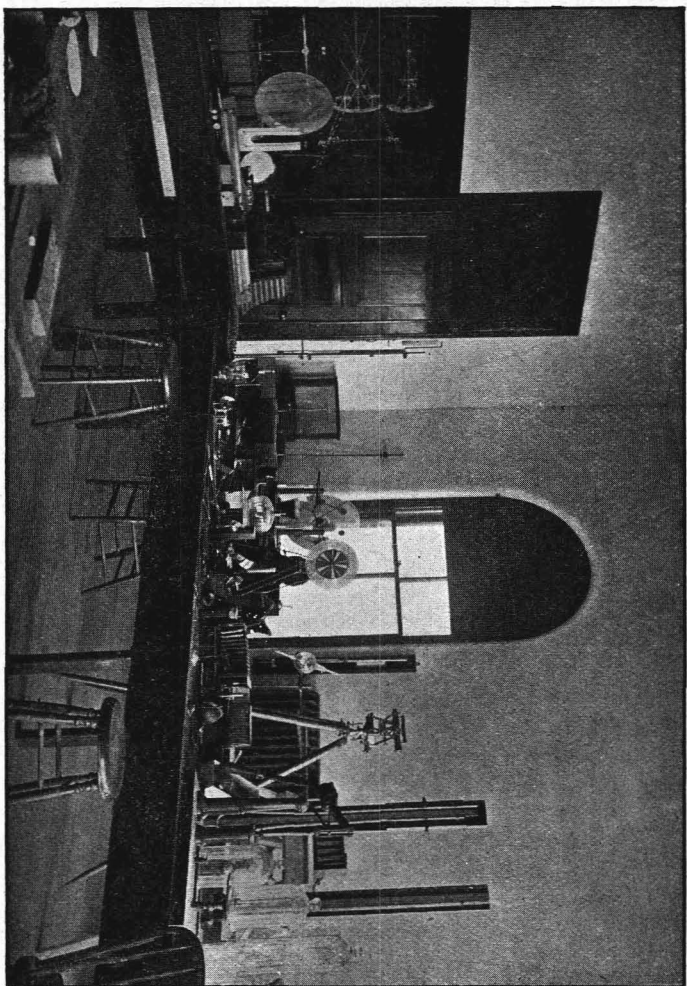
- C. (2.) *Advanced Course. Second Semester.* 10:20  
5 h.

A detailed study of the atmosphere, the ocean

and the land forms with special reference to their influence on the distribution of life. The course involves the use of a text book and regular laboratory work. It is designed to be a second course following the elementary Physical Geography usually given in the grammar grades.

### Schedule of Recitations for Normal, Preparatory and Commercial Schools

9:00 to 9:50—	12:00 to 1:00—
English A.....5 h.	Noon Recess.
Ethics .....2 h.	1:00 to 1:50—
Latin B.....5 h.	Algebra A.....5 h.
Latin C.....5 h.	Elocution .....2 h.
Orthoepy .....3 h.	English C.....5 h.
Stenography B.....5 h.	Geometry B.....5 h.
9:50 to 10:20—	History of Educa-
Assembly.	tion .....5 h.
10:20 to 11:10—	1:50 to 2:40—
Algebra C. (1.) ...5 h.	Chemistry D.....5 h.
Bookkeeping C.....5 h.	Latin A.....5 h.
English B.....5 h.	Physics D.....5 h.
Latin D.....5 h.	Spanish B.....5 h.
Physical Geography	Stenography A.....5 h.
C. (2.).....5 h.	2:40 to 3:30—
Physiology A. (1.)...5 h.	Chemistry D; Lab..
Trigonometry C.	Elocution .....2 h.
(2.) .....5 h.	German B.....5 h.
Zoology C. (1.)...5 h.	History A.....5 h.
11:10 to 12:00—	Methods .....5 h.
Bookkeeping D.....5 h.	Physics D; Lab....
English D.....5 h.	Shop Work.....3 h.
Logic .....1 h.	
Psychology .....4 h.	
Spanish A.....5 h.	



PHYSICAL LABORATORY

## Commercial School

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The Commercial School offers the full four years' work required for the completion of one of the preparatory courses, from which it differs by the substitution of commercial branches for ancient languages, or other subjects, with the advice of the Faculty.

It is the idea of the Faculty that students graduating from the Commercial School, shall have been taught the regularly prescribed preparatory branches as well as those purely technical to the school, so that in the event of a desire, either immediately after graduation or at some subsequent period, to enter upon college work, the preparation will be found adequate.

From the report of the Special Committee on Higher Commercial Education, made under the direction of the Chamber of Commerce of Pittsburg, we quote the following:

"With the expansion of trade and commerce and the development, especially of the foreign commerce between our own and other countries, it has become apparent to many minds that it would be of the highest advantage to have the course of so-called commercial training enlarged and improved, so that the student, when he comes to his life work, may have a more fitting preparation for the duties and responsibilities which devolve upon him. Germany, which in educational matters during the last century has been most active, has already to a certain extent endeavored through her higher institutions, to meet the necessities

to which allusion has already been made. It is important that in this country some attention should be given to these matters.

"The higher commercial education for which your Committee pleads should be brought about by adding to the elementary courses which are now pursued in our High Schools and Commercial Schools, instruction, first of all, in language, and, so far as our Country is concerned, specifically in Spanish, Portuguese, German and French. It would be well if the student were required to devote some time at least to the study of Latin, as this in itself would quickly enable him to master the Spanish, Portuguese and French tongues.

"The higher commercial course should also include instruction in History, ancient and modern, because of the bearing of historical movements upon the life which now is in the world. Such historical course should be especially moulded with reference to Modern Industrial and Commercial History. Allied to this course, there should be instruction in Political and Economic Science, and the student should be required to secure at least an elementary acquaintance with the science of statistics, with banking, exchange and transportation. Finally, the curriculum should lay great stress upon the art of correct composition in the English language. To write English correctly and tersely is an art of the utmost value to men engaged in the higher walks of commercial life."

While the courses outlined for students in the Commercial School may not fulfill all the requirements asked by this Committee, a glance at the schedule will show that every effort is being made towards such standards.

The keen competition of today renders a good



general education imperative as well as instruction along special lines. Inadequately prepared young people are helpless under the exactions of modern business methods. To the courses heretofore offered will be added a course in Spanish Stenography.

The increasing intercourse between our country and those of Spanish-speaking peoples makes a knowledge of both languages very advantageous to the ambitious young man or woman. The stenographer able to take notes in either Spanish or English and transcribe them correctly, has a distinct advantage over the one whose knowledge is limited to the one tongue.

To enroll for this course, the applicant must have a reading knowledge of the language foreign to him (of English if he be Spanish, or of Spanish if he be English), and a thorough understanding of the principles of any one of the several Pitmanic systems of phonography—Munson, Graham, etc.

This course is especially commended to English-speaking students who desire to master the Spanish language as all Spanish-speaking students of English phonography will testify to the efficacy of the phonographic drill in the acquisition of an unknown tongue.

A description of the exclusively Commercial Courses will be found below.

**A. Stenography. First Year. 2:00. 5 h.**

A language of Sounds, Principles, Formation of Outlines, Vocalization, Sound Analysis of Words, Unvocalized Outlines, Sight Reading of moderately difficult Shorthand (engraved extracts from writings of good English authors), Business Letters. Students are absolutely required to read all notes taken and to transcribe on typewriter all

dictated matter.

- B. *Stenography. Second Year. 9:00. 5 h.*

(Open only to those who have satisfactorily completed Course A). Sight Reading of engraved extracts from works of standard English writers on Law, Science, History etc. Rapid Dictation of miscellaneous matter, accurate recording of evidence, Verbatim Reporting. As in Course A, typewritten transcript of all dictated matter is exacted, which must be neat, accurate, correctly spelled and punctuated. A speed of one hundred words per minute is the standard prescribed.

- C. *Bookkeeping. Third Year. 10:20. 5 h.*

Accounting. From the fact that all Bookkeeping is based on the same general principles and the requirements of different houses necessitate a different elaboration of the system, initiatory training is given on the following lines:

General Merchandise. Exemplifying the establishment and conduct of the ordinary store. Books of Account, Balances, etc.

Commission. With the usual forms, books, account sale, bills of lading, etc., for such business. Shipments, received and forwarded.

Wholesale Dry Goods, Grain and Provision. Involving the use of Notes, Bills of Exchange, Leases, Bonds, Mortgages, Articles of Agreement, etc.

- D. *Bookkeeping. Fourth Year. 11:10. 5 h.*

Manufacturing, Corporations, Joint Stock Companies, How Formed, General Powers of, Terms Used by, Accounts Kept for.

Banking, Organization of National Banks, Privileges and Restrictions, Books Used, Business

Transactions by, Operations of Clearing Houses, Duties of Cashier, Assistant Cashier, Teller, Bookkeeper, Discount Clerk, Collection Clerk, performed in turn by student.

A series of lectures on the growth and development of commerce from the earliest times to the present day will be delivered during the year.

Students whose preparation has been adequate will, on the recommendation of the instructor, be permitted to pursue the exclusively Commercial branches and to complete them in as brief time as natural aptitude and application render possible. A diploma is awarded to graduates of this school, and a certificate of proficiency to those who become skilful shorthand writers and combine with this skill a knowledge of requisite English.

The best proof of the thoroughness with which this work is done is found in the fact that the graduates, almost without exception, have found employment and retained it.

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### *Outlines of Commercial Course*

#### FIRST YEAR.

English A; Algebra A; Physiology A, and Botany A; Stenography A.

#### SECOND YEAR.

English B; Geometry B; History B; Stenography B.

#### THIRD YEAR.

English C; Physics C; Spanish A, or German A; Bookkeeping C.

#### FOURTH YEAR.

Geometry D and Algebra D; Spanish B or German B; Bookkeeping D; Elective D.

# Catalogue of Students

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## SENIOR CLASS

Huggett, Lillian Gertrude

## JUNIOR CLASS

Cunningham, Kate

Niven, Isabel O.

Ewers, Lou.

Preston, W K

Harsch, Rose M.

## SOPHOMORE CLASS

Faber, Lena

Pearce, Leonore

Keller, Allen T.

Smith, Fleda E.

Murphy, Beatrice

Tascher, John Ralph

## FRESHMAN CLASS

Bryan, Hugh McClellan

Hoffman, Dorothy

Bryan, Kirk.

McCallum, Agnes

Clancy, Albert H.

Perkins, Blanche T.

Danahy, Thomas M.

Ross, Edmund

Fergusson, Erna

Sleight, Beatrice

Fluke, Ethel

Spitz, Lillian

Hall, Sarah M.

Sweet, Belle

Hayden, Clifford

Telfer, Elizabeth

## SPECIAL STUDENTS

Childers, Gladys

Maguire, Michael F.

Horton, Charles M.

## *Preparatory School*

## FOURTH YEAR

Allen, Anna May

Ilfeld, Lawrence

Allen, Walter R.

Keleher, Margaret

Dieckmann, Liza

Mayo, John G.

Price, Robert C.

Smith, Wales A.

THIRD YEAR

Albright, Elwood M.	Huning, Dolores F.
Allen, Tillie F.	Jasper, Anita
Alvord, Frank	Murphy, Berenice
Brackett, May	Palmer, Lulu M.
Crawford, Bernard H.	Van Cleave, Errett
Finch, Virginia	Worth, Clarence E.
Heald, Kenneth C.	

SECOND YEAR

Brown, Elizabeth R.	Goss, Ruth E.
Dragoie, Ella	Grisham, Viva Belle
De Tullio, Stella	Howison, Herbert M.
De Tullio, Violetta	Owens, Beuna May
Espinosa, Imelda	Schuster, Margaret B.
Franklin, Belle	Selva, Lawrence.
Franklin, Marion	

FIRST YEAR

Bearrup, Helen	Hopping, Gertrude
Boatright, Frank	Jones, Theta
Brainard, Ethel	Letarte, Alvina
Brison, Janet	McMillen, Eileen
Cornish, Gillette	Neher, Carrie
Dye, John	Samson, Elizabeth G.
Emmons, John J.	Triplett, James B.
Emmons, J. Eugene.	Twist, Vera
Espinosa, Gertrude	Wells, Trimble
Forbes, Frederick	Wise, Frances May
Goebel, Edgar J.	Zirhut, Hazel A.
Hart, Ida	

SPECIAL STUDENT

Stone, Mabel E.

## University of New Mexico

## Summary of Attendance

*College of Letters and Science*

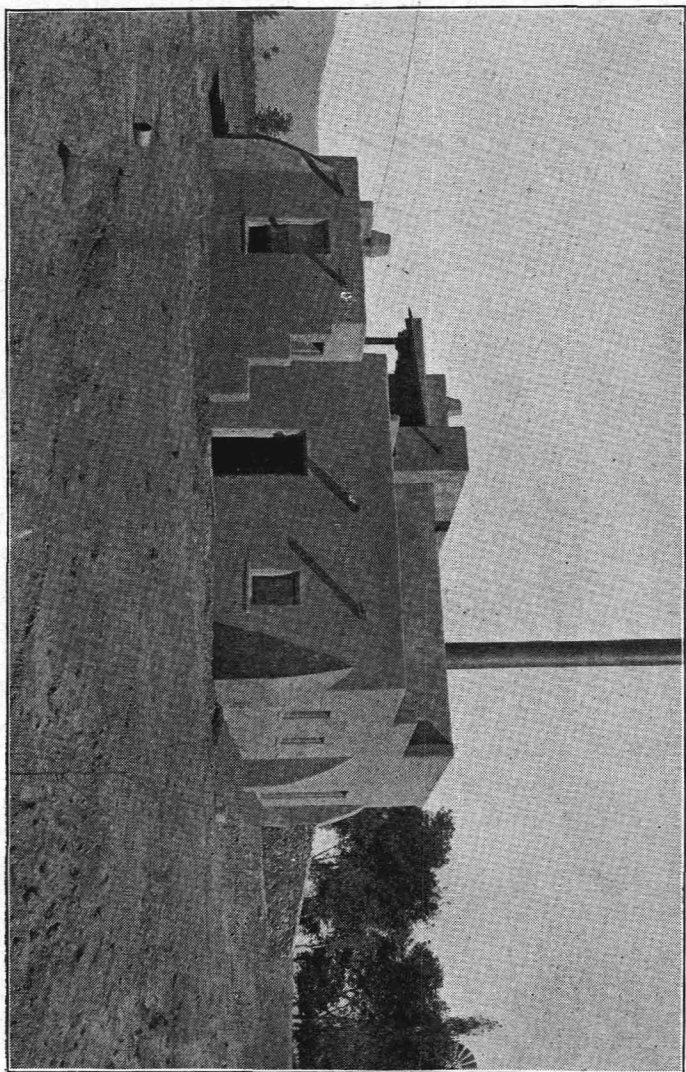
Senior .....	1
Juniors .....	5
Sophomores .....	6
Freshmen .....	16
Special Students.....	3—31

*Preparatory School*

Fourth year.....	8
Third year.....	13
Second year.....	13
First year.....	23
Special student.....	1—58

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Total attendance.....89



CENTRAL HEATING PLANT

# Alumni Directory

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Class of 1894.

## *Normal School*

Katherine Orbin Adams (Teacher Public Schools)  
.....Albuquerque, N. M.  
Mary (James) Scruggs.....Albuquerque, N. M.  
Jessie (Keith) Ruth.....Pomona, Calif.  
Elizabeth (Menaui) Nicholson.....Bridgeport, Okla.  
Frances (Nowlin) Wittwer (deceased)  
C. E. Hodgin (Principal Normal School, University of New Mexico).....Albuquerque, N. M.

Class of 1895.

## *Normal*

Bessie (Buchanan) Nelson.....Winslow, Ariz.  
Helen Booth (deceased)  
Josephine A. Hamm.....Douglas, Ariz.  
Etta (Vaughn) Oliver (Government Indian School)  
.....Albuquerque, N. M.

Class of 1896.

## *Latin and Scientific*

Henry Kempenich (merchant).....Holbrook, Ariz.  
Pharmacy  
Edmund Mills Clayton (physician)  
.....Albuquerque, N. M.  
George Gilbert Kunz (physician).....St. Louis, Mo.  
Carl Arno Muensterman.....Peoria, Ill.



## Class of 1897.

*Normal School*

Mabel (Alger) Kinney.....Salt Lake City, Utah  
 Maynard Caldwell Harding (physician)..Old Mexico  
 Blanche (Holden) Morgan.....Omaha, Neb.  
 Charles W. Ward (local editor Daily Optic)  
 .....Las Vegas, N. M.

## Class of 1898.

*Post-Graduate*

John Weinzirl, M. S. (Director Hadley Climatological Laboratory, University of New Mexico).....Albuquerque, N. M.

*Normal School*

Mabel (Wakefield) Moffit.....Tucson, Ariz.  
 Edyth L. Everitt (teacher, public schools ,  
 .....Albuquerque, N. M.

*Preparatory*

Hereford G. Fitch.....Oakland, Calif.  
 Lewis C. Brooks (manager, American Oyster Company).....Detroit, Mich.  
 Roy A. Stamm (merchant).....Albuquerque, N. M.

## Class of 1899.

*Post-Graduate*

George Ellett Coghill, M. S. (Professor, Pacific University).....Forest Grove, Oregon  
 Frank S. Maltby (deceased)

*Normal School*

Maud E. Custers (teacher, public schools)  
 .....Albuquerque, N. M.

*Preparatory*

Herbert O. Brooks (manager San Jose Market)  
 .....Albuquerque, N. M.  
 James G. Fitch.....Oakland, Calif.

Frances (Halloran) Marron.....Albuquerque, N. M.  
 Roderick Stover (president S. W. Electric and  
 Construction Co.).....Albuquerque, N. M.  
 John Bascon Terry (University of California)  
 .....Berkeley, Calif.

*Commercial Department*

Florence Vann (stenographer, Continental Oil Co.)  
 .....Albuquerque, N. M.  
 Mrs. May (MacDonald) Goodrich..Los Angeles, Calif.  
 Class of 1900.

*Post-Graduate*

J. Franklin Messenger, M. S. (Professor of Phi-  
 losophy, State Normal School)....Winona, Minn.  
 T. A. Bendratt, M. S. Chicago University)..Illinois

*Normal School*

Mabel E. Anderson.....Sag Harbor, N. Y.  
 Elizabeth (Hughes) French.....Ravena, Ohio  
 Lucy Habeldine (teacher, public schools)  
 .....Albuquerque, N. M.  
 Edith Niles.....Chicago, Ills.

*Preparatory*

Frances Pole (teacher).....Beswick, Calif.  
 Deo McK. Clayton.....Albuquerque, N. M.  
 Nellie C. Brewer.....Albuquerque, N. M.  
 Harry N. Herrick (University of California).Berkeley  
 Class of 1901.

*College*

Douglas W. Johnson, B. S. (Professor, Institute  
 of Technology).....Boston, Mass.  
 Eva W. Johnson, B. S. (trained nurse)  
 .....Los Angeles, Calif.

*Normal School*

J. G. Maxon.....	Milton, Wis.
Mabel Bliss.....	Albuquerque, N. M.
Bertha Crocker.....	California
Ruby Custers.....	Albuquerque, N. M.
Jessie (McMillen) Stroup.....	Albuquerque, N. M.
Elizabeth Powers (teacher of Music.....	Albuquerque, N.
Elizabeth Powers (teacher of Music)	Albuquerque, N. M.
Mata E. Tway (teacher, public schools)	Albuquerque, N. M.

*Preparatory*

Freda (Barth) Tyroler.....	Williams, Ariz.
Harvey P. Bittner (Stanford University) ..	California
Bessie Bowden (University of Kansas) ....	Lawrence
Frances (Butts) Stevenson.....	Albuquerque, N. M.
Etta C. Halloran.....	Berkeley, Calif.
Laura Krawinkle.....	Los Angeles, Calif.
James S. Wroth (University of California) ..	Berkeley
Katie (Vann) Blair.....	Albuquerque, N. M.

*Commercial Department*

Olivia Everett (private stenographer, F. W.	
Clancy).....	Albuquerque, N. M.
Ida E. Johnson (stenographer) ...	Albuquerque, N. M.
Mary (Turner) Ward.....	Las Vegas, N. M.

Class of 1902.

*Preparatory*

Bruno E. Dieckmann (musical study).	Berlin, Germany
Ralph A. Halloran (University of California).	Berkeley
Lillian G. Huggett (College Course, University of	
New Mexico).....	Albuquerque, N. M.
Thos. F. Keleher, Jr.....	Albuquerque, N. M.
Irma Tascher.....	Chicago, Ills.

Linus L. Shields.....Albuquerque, N. M.

*Normal School*

Nellie C. Brewer.....Albuquerque, N. M.

Minnie E. Craig (teacher public schools)  
.....Albuquerque, N. M.

Oliver J. Van Wagnen (Theological Seminary)  
.....Berkeley, Calif.

Mabel C. Hunt (teacher public schools)  
.....Albuquerque, N. M.

Edna Manwarin (with Globe Store)  
.....Albuquerque, N. M.

*Commercial*

Lou Hughes (stenographer).....Albuquerque, N. M.

Raymon Neilson.....South Africa

Norah Werner.....Albuquerque, N. M.

Norah Towner (teacher stenography, University  
of Arizona).....Tucson, Ariz.

Class of 1903.

*College*

Gustav Alfred Magnusson, A. B. (Medical School,  
University of Wisconsin).....Madison

*Normal*

Lillian Gertrude Huggett (College Course, assis-  
tant in Latin, University of N. M.)  
.....Albuquerque, N. M.

Sarah Frances Irwin (teacher).....Sheldon, Ills.

Harriet Kile Bieghler (teacher).....Rawlins, Wyo.

*Preparatory Four Years' Course*

John Ralph Tascher (College Course, University

of New Mexico).....Albuquerque, N. M.  
 Louis Carl Becker (University of Wisconsin). Madison  
 Morris Ramsey Bowie (Medical College)  
 .....Baltimore, Md.  
 Walter Rupert Atkeson.....Alamogordo, N. M.

*Preparatory Three Years' Course*

Gladys Childers (Girls' Collegiate School)  
 .....Los Angeles, Calif.

*Commercial*

Florence Leslie Fox (teacher).....Cubero, N. M.

*School of Music*

Lucile (Duckworth) McCrary.....Roswell, N. M.  
 Elizabeth Powers (teacher of Music)  
 .....Albuquerque, N. M.

Class of 1904.

*College*

Josephine S. Parsons, A. B. (principal Commercial School, University of New Mexico)  
 Normal.....Albuquerque, N. M.

*Normal*

Kate Cunningham (College Course, University of New Mexico).....Albuquerque, N. M.  
 May Hazeldine.....Albuquerque, N. M.

*Commercial*

Rose Harsch (College Course, University of New Mexico).....Albuquerque, N. M.  
 Fleda Smith (College Course, University of New Mexico).....Albuquerque, N. M.

*Preparatory*

Ray Bean (Dental College).....Los Angeles, Calif.  
 Gilbert Bronson.....Albuquerque, N. M.

Erna Fergusson (Normal School, University of  
New Mexico).....Albuquerque, N. M.

*Music School*

Stella Boatright (music teacher)..Albuquerque, N. M.

Rose Huntzinger (music teacher)..Albuquerque, N. M.

Helen Pratt (music teacher).....Albuquerque, N. M.

Class of 1905:

*College*

Thomas Sidney Bell (Rhodes Student, Oxford)  
University) .....England

*Normal*

Maud C. Graves.....San Bernardino, Calif.

Adah Vaughn (teacher Albuquerque Public  
Schools).....Albuquerque, N. M.

Fleda E. Smith (College Course, University of  
New Mexico).....Albuquerque, N. M.

*Preparatory*

Hugh M. Bryan (College Course, University of  
New Mexico).....Albuquerque, N. M.

Maria Espinosa (teacher).....Tijeras, N. M.

Clarence E. Heald (surveyor).....Williams, Ariz.

Elizabeth Heald (teacher).....Alameda, N. M.

Lloyd Irwin (University of Oklahoma).Norman, Okla.

Lloyd Sturgess (Harvard Military School)  
.....Los Angeles, Calif.

Beatrice Sleight (Normal Course, University of  
New Mexico).....Albuquerque, N. M.

*Commercial Course*

Lena Faber (College Course and President's Sten-  
ographer, University of New Mexico)  
.....Albuquerque, N. M.

Furn Ridley.....Albuquerque, N. M.

*Music School*

W. H. Worth (University of Chicago).....Illinois

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