

1908

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1908-1909

University of Nebraska College of Medicine

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The University of Nebraska

THE COLLEGE OF MEDICINE

ANNOUNCEMENT

1908-1909



MAY, 1908
THE UNIVERSITY PRESS
Lincoln, Nebraska

The bulletins of the University are issued semi-monthly between January 1 and October 1 of each year. One each is issued for the Graduate School, the College of Literature, Science and the Arts, the Industrial College, the Teachers' College, the College of Law, the College of Medicine, the School of Pharmacy, and the schools of Art, Agriculture, Domestic Science, Mechanic Arts, and Music. Application made for entry at the Lincoln post-office as second-class matter. The bulletins are furnished gratuitously, postage paid, to all who apply for them. In asking for them, name the department of the University concerning which information is desired. Address

THE REGISTRAR,

THE UNIVERSITY OF NEBRASKA,

Lincoln, Nebraska.

CALENDAR

THE COLLEGE OF MEDICINE

FOR THE WORK IN LINCOLN

1908

September 15	Tuesday	First Semester begins.
September 15-18	Tuesday-Friday	Entrance examination and registration.
September 19	Saturday	Opening address by the Chancellor.
November 25	Wednesday, 6 P. M.	Thanksgiving recess begins.
November 30	Monday, 8 A. M.	Thanksgiving recess ends.
December 8	Tuesday	Regular meeting of the Board of Regents.
December 18	Friday, 6 P. M.	Christmas vacation begins.

1909

January 4	Monday, 8 A. M.	Christmas vacation ends.
January 25-29	Monday-Friday	First Semester examinations. Examination and registration for the second Semester.
February 1	Monday	Second Semester begins.
February 15	Monday	Charter Day. Regular meeting of the Board of Regents.
April 7	Wednesday, 6 P. M.	Easter recess begins.
April 13	Tuesday	Regular meeting of the Board of Regents.
April 14	Wednesday, 8 A. M.	Easter recess ends.

FOR THE WORK IN OMAHA

1908

September 15	Tuesday	Registration. Alumni meeting and College Banquet for upper classes.
September 16	Wednesday	Lectures begin.
November 25	Wednesday, 6 P. M.	Thanksgiving recess begins.
November 30	Monday, 8 A. M.	Thanksgiving recess ends.
December 18	Friday, 6 P. M.	Christmas vacation begins.

1909

January 4	Monday	Christmas vacation ends.
January 25-29	Monday-Friday	First semester examinations.
February 1	Monday	Second Semester begins.
February 22	Monday	Washington's birthday—holiday.
May 7	Friday	All lectures end.
May 8-19	Saturday-Wed.	Senior Examinations.
May 20	Thursday	Commencement.
May 21-29	Friday-Wednesday	Junior Examinations.
September 21	Tuesday	First Semester begins (1909-1910).

THE UNIVERSITY

THE UNIVERSITY OF NEBRASKA includes the following colleges and schools:

THE GRADUATE SCHOOL. Courses leading to the degree of Master of Arts and Doctor of Philosophy.

THE COLLEGE OF LITERATURE, SCIENCE AND THE ARTS. A four year course leading to the degree of Bachelor of Arts.

THE INDUSTRIAL COLLEGE (including the agricultural, engineering, and scientific groups). A four year course leading to the degree of Bachelor of Science.

THE TEACHERS' COLLEGE. A four year course leading to the degree of Bachelor of Arts in Education or Bachelor of Science in Education.

THE COLLEGE OF LAW. A three year course leading to the degree of Bachelor of Laws.

THE COLLEGE OF MEDICINE. A four year course leading to the degree of Doctor of Medicine.

THE SCHOOL OF PHARMACY. A four-year course leading to the degree of Bachelor of Science in Pharmacy. Also two-year and three-year courses.

THE SCHOOL OF FINE ARTS. Instruction in drawing, painting, wood-carving, modeling, etching, and the history of art.

THE SCHOOL OF MUSIC. Affiliated with the University. Instruction in all grades of instrumental and vocal music.

THE SCHOOL OF AGRICULTURE. A secondary school training primarily for practical farm life.

THE SCHOOL OF MECHANIC ARTS. A secondary school teaching the principles of practical mechanics.

THE SUMMER SESSION. A six weeks course primarily for teachers.

THE NEBRASKA EXPERIMENT STATION and the EXPERIMENTAL SUB-STATION at North Platte are also in charge of the Board of Regents.

THE FACULTY OF THE COLLEGE OF
MEDICINE

ELISHA BENJAMIN ANDREWS, LL.D.
Chancellor and President of the University Senate
Administration Hall 101

— HENRY BALDWIN WARD, PH.D.
Dean of the College of Medicine and Professor of Zoology
Administration Hall 104

— HAROLD GIFFORD, B.S., M.D.
Associate Dean of the College of Medicine and Professor of
Ophthalmology and Otology
563 Brandeis Building, Omaha

— RICHARD CHANNING MOORE, M. D.
Professor of Diseases of the Mind
312 McCague Building, Omaha

— DONALD MACRAE, M.D.
*Emeritus Professor of Railroad and Clinical Surgery
252 Merriam Block, Council Bluffs, Iowa

— WILLIAM FORSYTH MILROY, M.D.
Professor of Clinical Medicine and Physical Diagnosis
212 McCague Building, Omaha

— WILLSON ORTON BRIDGES, M.D.
Professor of the Principles and Practice of Medicine and
Clinical Medicine
302 Bee Building, Omaha

— WILLIAM HENRY CHRISTIE, M.D.
Emeritus Professor of Materia Medica and Therapeutics
48 Barker Block, Omaha

*Deceased.

THE UNIVERSITY OF NEBRASKA

- AUGUST FREDERICK JONAS, M.D.
 Professor of the Practice of Surgery and Clinical Surgery
 454 Brandeis Building, Omaha
- HARRY MONROE McCLANAHAN, A.M., M.D.
 Professor of Pediatrics
 468 Brandeis Building, Omaha
- OSCAR SAMUEL HOFFMAN, M.D.
 Professor of Clinical Medicine
 324 Bee Building, Omaha
- BYRON BENNETT DAVIS, A.B., M.D.
 Professor of the Principles of Surgery and Clinical Surgery
 202 Bee Building, Omaha
- FRANK STYLES OWEN, M.D.
 Professor of Laryngology and Rhinology
 469 Brandeis Building, Omaha
- ANDREW BARTHOLOMEW SOMERS, M.D.
 Professor of Obstetrics
 446 Brandeis Building, Omaha
- SOLON RODNEY TOWNE, A.M., M.D.
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 446 Brandeis Building, Omaha
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- RAYMOND GUSTAVUS CLAPP, M.D.
 Professor of Physical Education
 Grant Hall
- DONALD MACRAE, JR., M.D.
 Professor of Clinical Surgery
 252 Merriam Block, Council Bluffs, Iowa

THE COLLEGE OF MEDICINE

7

VERNON LAWRENCE TREYNOR, M.D.

Professor of Clinical Medicine

Baldwin Block, Council Bluffs, Iowa

SAMUEL AVERY, Ph.D.

Professor of Chemistry

Chemical Laboratory

ROBERT HENRY WOLCOTT, A.M., M.D.

Professor of Anatomy

Mechanic Arts Hall 300

PALMER FINDLEY, A.M., M.D.

Professor of Didactic and Clinical Gynecology

302 Bee Building, Omaha

ALFRED SCHALEK, A. M., M.D.

Professor of Dermatology and Genito-Urinary Diseases

400 Bee Building, Omaha

HERBERT HAROLD WAITE, A.M., M.D.

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Nebraska Hall 303

LE ROY CRUMMER, M.D.

Professor of Therapeutics

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Associate Professor of Genito-Urinary Surgery and Surgical Anatomy

503 Brandeis Building, Omaha

BENTON DALES, Ph.D.

Associate Professor of Chemistry

Chemical Laboratory

WILLIAM ALBERT WILLARD, A.M.

Associate Professor of Zoology

Nebraska Hall 302

AUGUST ERNEST GUENTHER, Ph.D.

Associate Professor of Physiology

Nebraska Hall 5

RUFUS ASHLEY LYMAN, A.M., M.D.

Associate Professor of Pharmacodynamics

Director of the Laboratories of Pharmacy and Pharmacodynamics

Nebraska Hall 7

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- ✓ JOSEPH HORACE POWERS, PH.D.
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Mechanic Arts Hall 300
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Mechanic Arts Hall 300
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Woodmen Building, Omaha

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Lecturer on Arrested Development
Glenwood, Iowa
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1238 O Street, Lincoln
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- WILLIAM NANCE ANDERSON,
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Mechanic Arts Hall 300
- ✓ JUSTUS EDGAR OLSSON,
Assistant in Anatomy
Mechanic Arts Hall 300
- GEORGE BUOL,
Assistant in Anatomy
Mechanic Arts Hall 300

DISPENSARY STAFF

SUPERINTENDENT OF DISPENSARY: DOCTOR BLISS

INTERNAL MEDICINE

PROFESSOR BRIDGES PROFESSOR MILROY
ASSISTANTS: DOCTOR BLISS DOCTOR GOETZ

SURGERY

PROFESSOR JONAS PROFESSOR DAVIS
ASSISTANT: DOCTOR HOLLISTER

EYE AND EAR

PROFESSOR GIFFORD DOCTOR BICKNELL
ASSISTANT: DOCTOR PATTON

NOSE AND THROAT

PROFESSOR OWEN
ASSISTANT: DOCTOR WHERRY

PEDIATRICS

PROFESSOR McCLANAHAN

OBSTETRICS

PROFESSOR SOMERS
ASSISTANT: DOCTOR POLLARD

GYNECOLOGY

PROFESSOR FINDLEY

ASSISTANTS: DOCTOR JEFFERSON DOCTOR FAIRCHILD

NERVOUS DISEASES

PROFESSOR AIKIN

DERMATOLOGY

PROFESSOR SCHALEK

ASSISTANT: DOCTOR KLICK

GENITO-URINARY SURGERY

ARTHUR CHARLES STOKES

DRUG ROOM

ALBERT ADOLPH FRICKE, PH.G.

THE COLLEGE OF MEDICINE

ORGANIZATION

By an agreement entered into in May, 1902, the Omaha Medical College became the College of Medicine of the University of Nebraska. The College thus incorporated into the University was founded in 1880 and has experienced strong and steady growth.

As an integral part of the University the College has been able to reorganize its work along the most advanced lines. The requirements for entrance have been placed on a level with those of the best medical colleges, thus preparing the student properly for the improved advantages at his disposal.

The work of the first two years is carried on at Lincoln, where the University places at the disposal of the student, at the beginning of his course in medicine, advantages such as but comparatively few medical schools in the country offer. The University's laboratories, directed by men of thorough training and large experience, who devote their entire time to instruction and supervision, are well equipped with modern appliances.

The work of the last two years is done exclusively at the College in Omaha, where are now afforded unusual clinical facilities, but, nevertheless, the College is constantly strengthening them.

ADMISSION

The College of Medicine now offers a four year course leading to the degree of Doctor of Medicine, or a student may, if he prefers, pursue a combined collegiate and medical course, receiving at the end of four years the bachelor's degree, and at the end of six years the degree of Doctor of Medicine.

January 1, 1908, the entrance standard was raised to include one year of college work. The faculty has announced that at an early date it will raise this standard so as to include two full years of college work. The present standard means that the course of study shall be five years above the four-year high school. The first year will be practically that of the six-year combined course, being devoted to German, chemistry, physics, and animal biology, with three hours of elective work. This combination has been offered for many years and recommended to all prospective medical students who could not take the six-year course. It agrees precisely with the work laid down for an ideal initial year by the Council on Medical Education of the American Medical Association.

Two points of some importance should be noted in connection with the five-year course. The initial year, if taken at the University of Nebraska, is not subject to the fees of the professional course, but demands only the moderate charges for laboratory expenditures of the general scientific course. Secondly, the work may be taken at any college of standard entrance requirements, provided the work outlined above is carried successfully. There are many col-

leges which cover the introductory work noted in an eminently satisfactory manner, and in such cases the student with proper credentials will be entered directly into the first year of professional work in medicine, *i. e.*, of the four-year course.

Candidates are admitted by examination or on certificate from accredited high schools, academies, or colleges. Women are admitted on the same terms as men. The requirements for admission are stated below.

Although properly prepared students who cannot enter at the beginning of the year may be admitted later, all students who can possibly do so are urged to be present at the beginning of the year. Students entering late are at much disadvantage and cannot expect to finish the course within the minimum limit except by taking work in the Summer Session. Plans are so made that students who enter at the opening of the second semester will find a suitable program of work.

Applicants for admission present themselves to the Registrar, who furnishes them with application blanks and directions for proceeding with their examinations, if any, with fee payments and registration.

An applicant presenting a certificate from an accredited school, academy, or high school is admitted without examination to any classes for which he is fully prepared. Any candidate for admission bringing credentials from a high school, college, or university not included in the list of schools accredited to this University must, upon making

application, present his credentials to the Registrar and be prepared to take such examinations as are prescribed.

A student desiring to ascertain whether or not he can be admitted to the freshman class without examination should apply to the Registrar for blank credential slips. When these are properly filled out and returned, he will be informed at once whether his credentials are or are not acceptable.

REQUIREMENTS FOR ADMISSION

Candidates for admission to the College of Medicine must submit their entrance credentials at least one month in advance.

For admission to the freshman class in the College of Medicine, a candidate must present evidence of having completed the course in an accredited high school, or an institution of equal grade, and in addition must have had one year of work in a reputable college. In addition the candidate must furnish evidence of having completed thirty points of entrance credit as laid down in the minimum requirements of the Association of American Medical Colleges. These are specified below. Conditional admission to the preliminary College year is permitted on the minimum of 24 credit points or 120 credit hours, but the student must remove all entrance requirements before he may be admitted to full sophomore standing.

A credit "point" presupposes the work of five recitations a week of not less than 40 minutes each during a period of at least 18 weeks. The requirements in detail are

given below. The time element indicated with each subject is essential.

REQUIRED SUBJECTS—16 Points

Algebra (to simultaneous quadratics), 1 year, 5 hours a week.....	2
Geometry (Plane), 1 year, 5 hours a week.....	2
English (Grammar, Rhetoric and Composition), 2 years, 5 hours a week	4
History, 1 year, 5 hours a week.....	2
Language (must be Latin), 2 years, 5 hours a week.....	4
Physics (with laboratory work), 1 year, 5 hours a week.....	2

OPTIONAL SUBJECTS—14 Points

In addition to these required subjects, for which no substitutes are accepted, applicants must present evidence of preparation in 14 points to be chosen from the following optional list:

Advanced Mathematics (Algebra through logarithms, Solid Geometry and Trigonometry, $\frac{1}{2}$ year each), $1\frac{1}{2}$ years, 5 hours a week.....	1 to 3
English Language and Literature (only if taken after the re- quired English), 2 years, 5 hours a week.....	1 to 4
History (may include Civics and Political Economy), 2 years, 5 hours a week.....	1 to 4
Language (German, French, Spanish or Greek. Not less than one year in any one), 4 years, 5 hours a week.....	2 to 8
(Latin), 2 years, 5 hours a week.	1 to 4
Natural Science (Biology, 1 year, or Botany and Zoology, $\frac{1}{2}$ year each), 1 year, 5 hours a week.....	1 or 2
Physical Science (Chemistry), 1 year, 5 hours a week.....	1 or 2
Earth Science (Physical Geography and Geology, $\frac{1}{2}$ year each), 1 year, 5 hours a week.....	1 or 2
Physiology and Hygiene, $\frac{1}{2}$ year, 5 hours a week.....	1
Astronomy, $\frac{1}{2}$ year, 5 hours a week.....	1
Drawing, $\frac{1}{2}$ year, 5 hours a week.....	1

As announced two years ago, the requirements for entrance to the College of Medicine have been raised to include one year of college study above the high school course. This requirement affects all students matriculating after January 1, 1908. All students are advised to take the six year combined course.

REGISTRATION

Five days are allowed for the registration of students—from 9 a. m. Tuesday to 6 p. m. Saturday for the first semester, and four days for the second semester—Wednesday to Saturday, both inclusive. Graduate students and city teachers may register at any time until the end of the week following the regular registration days.

Students are required to register promptly at the beginning of each semester.

To promote prompt registration a special fee of \$3.00 is charged any senior or junior student who, unless excused by the Chancellor, for any reason seeks to register later than the second day of a semester. Other students are allowed for the first semester three and for the second semester two additional days in which to register without payment of this special fee. A like fee is charged for re-registration if made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration.

On or before June first every year each under-graduate student is required to lodge in the office of the Registrar

his proposed schedule of classes for the first semester of the year immediately following.

No regular student is registered for less than twelve (12) hours nor for more than eighteen (18) hours a semester without the dean's permission.

A student taking the combined six-year course for the degree of Bachelor of Science and the degree of Doctor of Medicine must matriculate and register in the College of Medicine at the beginning of the third year's work of the combined course and must regularly thereafter register as a student in the College of Medicine. If he is to be a candidate for the bachelor's degree, he must at the same time continue to register in the Industrial College.

The courses in human anatomy, pathology, and medical zoology are open only to students registered in the College of Medicine. A junior or a senior in the College of Literature, Science, and the Arts, the Industrial College, or the Teachers' College may take any of these courses by registering as an unclassified student in the College of Medicine and paying the laboratory fees attached to the course or courses chosen and also a pro-rata tuition fee; provided, however, that the tuition charge for any course in the College of Medicine so taken by a student in either of the general colleges shall in no case be less than \$5 a semester.

When circumstances warrant and the accommodations are sufficient to allow it without detriment to the work of candidates for degrees, students not seeking a degree are admitted as unclassified.

Students cannot attend classes for which they are not

registered and credit is not granted for studies pursued without registration.

No student is allowed to change from one college to another without written permission to the Registrar signed by the dean of each college concerned. A student so changing college must also pay a new matriculation fee of \$5.

No student may change his group or drop any study for which he has been regularly registered without written permission from the dean of his college.

Any change in a student's residence must be immediately reported to the Registrar.

A leave of absence for a short time may be granted a student by the dean of his college. This leave is merely a justification for absence and not an excuse from any work.

If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a semester, the Registrar grants him permission to do so. Students in good standing who are not minors are given honorable dismissal from the University at their own request; minors, at the request of their parents or guardians.

The dean of the college in which a student registers is that student's adviser. Each dean has a consultation hour in the deans' room, Administration Hall 104, where students may call seeking advice touching their work.

According to the By-Laws of the Association of American Medical Colleges, each student shall be obliged to attend 80 per cent of the exercises in every annual course of study for which he seeks credit. No student shall be given

credit on examination unless he attains a grade of at least 70 per cent, or its equivalent in any other marking system. And no student shall be graduated unless he shall have attained a passing grade in each and all subjects of the required curriculum.

ADVANCED STANDING

Advanced standing may be granted as follows to applicants presenting proper credentials:

In accordance with the recommendation of the Association of American Medical Colleges, the University will not hereafter grant any time credit to holders of a bachelor's degree; this means that the total time spent by each student must include as a minimum four years of registration in a medical college.

There will be no change in the practice heretofore observed concerning subject credit. Applicants for credit in any particular subject are referred to the head of the department in question for examination. In case subject credit is granted the student is free to use the time thus gained in such extra work as he may elect.

Students of other medical colleges of equal standing are, on presenting certificates of honorable dismissal, admitted to the class to which credentials issued by such colleges entitle them.

Applicants for advanced standing must offer admission credits equal to those required by this college.

Graduates of colleges of homeopathy or eclectic medi-

cine requiring a four years course are admitted to the senior year.

In all these cases the applicant for advanced standing must offer admission credits equal to those required by this college.

REQUIREMENTS FOR GRADUATION

The requirements for the degree of Doctor of Medicine are as follows:

1. The candidate must be twenty-one years of age.
2. His moral character must be unquestioned.
3. He must have complied with all the requirements of admission and have paid all his fees.
4. He must have completed all required courses and have passed a satisfactory examination on all required subjects in the curriculum.
5. He must have pursued the study of medicine four years and have received credit for at least four full courses of instruction in different years at medical schools in good standing. The last course he must have taken in this institution.
6. He must have undergone a full and satisfactory written and oral examination at the termination of the course.

The following rule of the Medical Faculty applies to all who are candidates for a degree:

Every student expecting to receive the degree of M. D. at a given Commencement shall be held to all of the final examinations immediately preceding that Commencement,

and shall not be recommended for the degree unless he shall have passed satisfactorily all subjects of such examination, regardless of any standing which may have been attained previously in any subject or subjects of the examination.

SUMMER SESSION

The Summer Session of the University affords opportunities to make up deficiencies in entrance requirements and in certain lines of laboratory work.

COURSES AND METHODS OF INSTRUCTION

The course of study covers four years of nine months each. During the first two years those strictly scientific branches are pursued which form the basis for the technical studies of the last two years. In the laboratory only independent work is accepted. None of the courses are mere demonstrations. This objective method of instruction is followed not only in the laboratory study of the first two years but also in the clinical work of the last two, where constant use is made of the facts acquired from laboratory teaching in the fundamental branches.

The courses embrace also didactic and clinical lectures, in which effort is made by charts, models, experiments, demonstrations and other appropriate means to broaden the mind of the student and to coordinate the facts acquired in the laboratory. Frequent quizzes and examinations test progress in each line of work.

The College affords unique opportunities for personal contact between teacher and pupil in the laboratory, thus

permitting work to be done with unusual thoroughness. There is personal teaching in every topic, each student standing continually close to his instructors, which is of the utmost importance in the last two years of the course. The sectional method of clinical work brings the individual student in intimate contact with his clinical instructors, affords him an opportunity to study each case thoroughly and at short range, and allows him to secure a large amount of bedside instruction.

If a student finds it necessary to leave the University, he may obtain a certificate for his work in the medical course which will enable him to enter any other medical college belonging to the Association of American Medical Colleges.

EQUIPMENT

The work in Lincoln is given in the various laboratories of the University, which are well equipped with the necessary apparatus. A more detailed description of the facilities provided is found under the head of "Courses of Instruction" in connection with the different departments represented.

The college building in Omaha, completed in 1899, and situated at the corner of Twelfth and Pacific streets, embodies the best features of modern medical-school buildings. It is a brick and stone structure, having four stories above the basement.

On the first floor are the offices and faculty room, the students' lobby, and the free dispensary. The latter com-

prises a waiting room for patients, a drug room, and numerous departmental clinic rooms for the systematic examination and treatment of patients.

On the second floor are the amphitheater with a seating capacity for 250, the library, the reading room, the X-ray room, and a commodious coat room.

On the third floor are the museum, chemical laboratory thirty by fifty feet in size, private rooms for the professors of surgical anatomy, chemistry, and biology, and a smaller amphitheater with a stationary table to which gas and running water are supplied for practical demonstrations in these branches.

The fourth floor is wholly given up to microscopic work. The laboratories, occupying a space one hundred by thirty-five feet, have light on every side. Stationary tables for the preparation and mounting of specimens occupy the center of the room. These tables are supplied with gas and running water and are made as convenient as possible to conserve the student's time. In front of each window is a table furnished with gas attachments and Bunsen burners. In this room are lockers so that each student has a safe place for his working outfit.

The histological and pathological laboratories are commodious and provided with abundant light. The arrangement is such that the class may, at a moment's notice be assembled from the laboratory desks to recitation benches at one end of the room, where demonstrations may be made from gross specimens by the use of series of blackboards or by means of projection apparatus. These laboratories are

provided with a lantern, a projection microscope and the Zeiss epidiascope, as well as a collection of slides, models and charts.

During the past year clinical laboratory instructors have been added to the faculty, the clinical laboratories have been thoroughly equipped, and much time is devoted to the study of clinical pathology in the laboratories in connection with the lectures and clinics.

The museum has been enlarged, and affords a large variety of well selected material for demonstration.

With the transfer of the entire work of the first two years to Lincoln, much additional space was set free which is being used for the expansion of advanced instruction and research.

CLINICAL FACILITIES

For practical teaching in all departments of medicine and surgery, this College has unusual clinical facilities. Its students have access to nine hospitals, in five of which they have exclusive clinical privileges.

Three new modern hospitals in Omaha and one in Council Bluffs are added this year to the list of institutions connected with the College. These institutions are under the exclusive control of the faculty, and students are admitted to the wards and amphitheaters for clinical instruction.

THE COLLEGE DISPENSARY

The College Dispensary on the first floor of the College building is designed for the gratuitous treatment of all

worthy charitable cases that may apply. The space assigned includes a large reception room and adjoining consultation rooms for the separate examination and treatment of cases in surgery, medicine, gynecology, pediatrics, eye, ear, nose, throat, skin and genito-urinary diseases. A pharmacy department in charge of a trained pharmacist is also maintained in connection with the dispensary. Members of the clinical faculty, their assistants, and trained nurses, are in daily attendance from twelve to two o'clock. Students in the Senior class are divided in rotation among the different departments, whereby they are put in close touch with the histories, examinations, diagnoses, and treatment of cases. The material available is ample to demonstrate the usual diseases and accidents met with in practice. Selected cases are specially demonstrated and enlarged upon before the entire class. Advanced students are often sent out from the clinic to see urgent cases at their homes and to make reports thereon to the instructor in charge. Students who have not had experience in dispensing drugs are assigned in rotation to the pharmacy, where they are instructed in writing and reading prescriptions and in compounding and dispensing drugs. The drug room is under the direction of a registered pharmacist.

THE NEBRASKA METHODIST HOSPITAL

In the Nebraska Methodist Hospital, which received over 1,200 patients last year, this College has exclusive clinical privileges. A new, commodious, fireproof building, planned by one of the best architects in the country and

embodying the most modern details of construction and arrangement, has been recently erected. It contains an operating pavilion and amphitheater seating about 100 persons and furnished with the best appliances known. At this hospital weekly clinics are held throughout the session for the advanced class in surgery, orthopedics, internal medicine, ophthalmology and otology. From the graduating class two internes are selected for a year's services each, with provisional opportunities for extended work.

THE IMMANUEL HOSPITAL

In the Immanuel Hospital students of this College also have exclusive clinical privileges. This hospital is well arranged and thoroughly equipped for the application of scientific methods in the treatment of disease. It contains an operating amphitheater, accommodating about eighty students, with the seats so arranged that each student has an unobstructed view of the operator or instructor. During the past year a new wing has been added to this hospital, increasing the capacity to sixty beds. Weekly clinics are held in internal medicine and surgery. Occasionally there are clinics in laryngology and rhinology. From the graduating class a resident physician is appointed soon after Commencement to serve one year. One or more students are given positions as assistants in their senior year.

THE DOUGLAS COUNTY HOSPITAL

The Douglas County Hospital, costing \$200,000 and accommodating 300 patients, includes a maternity pavilion

and an insane department. This institution is, in reality, the charity hospital of Omaha and the surrounding country. Since cases illustrative of all diseases, acute and chronic, occurring in this section of the country are found here, the students of this College have exceptional opportunities for direct bedside instruction in all departments. Regular clinics are held weekly in medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians, both of whom are this year from this College, are appointed for one year by competitive examination each spring.

THE CLARKSON MEMORIAL HOSPITAL

A new modern building is now under construction and is expected to be occupied in the fall of 1908. The building is located at Twenty-first and Howard streets, within an easy walk of the College. It will be among the most modern of hospital buildings. There will be 85 beds and three operating rooms. This hospital will afford opportunities for internships. Clinics in surgery, medicine, ophthalmology, otology, and gynecology are held weekly in the amphitheater.

THE WISE MEMORIAL HOSPITAL

This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick, and iron construction; it is modern in every respect. There are sixty-one beds and two well equipped operating rooms. Clinics in medicine, otology, rhinology, and gynecology are held

weekly in the amphitheaters. One interne is chosen from the graduating class each year for a service of one year. This hospital is located within walking distance of the College.

THE CHILD-SAVING INSTITUTE

In the Child-Saving Institute this College has exclusive clinical privileges. The institute now occupies a building especially constructed for its use. Its accommodations for sixty infants are constantly taxed. The opportunities here for the study of the dressing, care and feeding of infants, and the diagnosis, progress and treatment of the different gastro-intestinal and contagious diseases of childhood are unexcelled. Occasional outbreaks of infectious diseases in the constantly changing inmates afford unusual illustration of the subjects taught in the course of pediatrics.

THE JENNIE EDMUNDSON HOSPITAL, COUNCIL BLUFFS

This new Hospital at Council Bluffs is in professional charge of members of the faculty of this College. For surgical work its equipment is thorough, including a fine operating room. Clinics are held each week by Professors Macrae and Treynor in general medicine and in surgery. The new building recently completed, containing seventy beds, is a most modern institution.

THE TINLEY RESCUE HOME

The Tinley Rescue Home is under the direct supervision of Professors Somers and Pollard, and furnishes an abund-

ance of material for clinical instruction. In addition to the normal cases, most of the obstetrical operations are performed in the presence of the members of the graduating class.

THE VISITING NURSES' ASSOCIATION

The search of the Visiting Nurses' Association for deserving, unattended sick furnishes the members of the faculty of obstetrics many cases of confinement. These are assigned to members of the senior class.

HOSPITAL APPOINTMENTS

The Glenwood Institute for the Feeble Minded affords a salaried position as a house physician for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed by competitive examination each year. Two internes are chosen by competitive examinations given by the medical staff of the Omaha General Hospital. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year: Two at the Nebraska Methodist Hospital; two at the Immanuel Hospital; one at the Wise Memorial Hospital; one at the Swedish Mission Hospital; one at the Jennie Edmundson Memorial Hospital.

Several graduates of the College secure positions each year in other hospitals in Nebraska and adjacent states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions, and all capable students desiring hospital training

may obtain this inestimable advantage of a year's hospital service before entering upon private practice. The proportionate number of such positions open to the college will thus be seen to be far beyond that in the majority of medical schools.

Two graduates may also secure for six months of each year positions as assistant police surgeons. This is a valuable experience, as from fifty to one hundred emergency cases are treated by these men each month. In addition to regular internships for the graduating class opportunities are afforded several students of the senior class to serve in the various hospitals affiliated with the College of Medicine. These positions do not conflict with the scheduled work of the college, and supply valuable experience to the students so engaged.

LIBRARIES

IN OMAHA

The College Library contains about 1,000 volumes, including an up-to-date collection of text-books covering the entire range of medical science. This collection does not obviate the necessity of students having their own text-books, but offers greater opportunities for investigation of subjects in which they are specially interested. Periodical literature is also on file.

The Omaha Public Library contains 60,000 volumes, including a good medical library, the use of which is free to students in the College.

IN LINCOLN

The following libraries, aggregating 179,300 volumes, are accessible to students in Lincoln:

The University Library of 79,300 volumes is strong in those scientific lines wherein lies the first two years' work of the student of medicine. It includes special departmental libraries in botany, chemistry, hygiene, physiology, zoology, bacteriology, pathology, and medicine. It also includes the library of the Nebraska State Medical Society.

The Lincoln City Library, of 25,000 volumes, also has an alcove devoted exclusively to medical literature.

The State Library of 60,000 volumes at the Capitol includes valuable medical works in certain lines.

The Nebraska State Historical Society Library of 15,000 volumes contains useful series of public documents, such as reports of state boards of health and of state hospitals and other institutions.

PUBLICATIONS

A quarterly bulletin containing papers embodying the results of original research is published and offered in exchange for similar publications which are desirable for the library.

SOCIETIES

The Alumni Association of the College of Medicine maintains an active and efficient organization, of advantage to both the graduates and the University. The annual meeting is held in Omaha on Commencement day. Members of the association are requested to notify the registrar and

the secretary of the association when they change their address.

The Medical Society of the University of Nebraska, at Lincoln, aims to increase professional spirit and to keep its members in touch with recent progress. Any student in the University at Lincoln looking forward to medicine is eligible to membership. Topics of general interest are taken up at the weekly meetings. Prominent men address the society monthly on topics of special interest. Besides promoting fellowship among students of medicine it also offers some social advantages in other directions.

FEES AND EXPENSES

All fees and charges are payable in advance to the secretary of the University in Lincoln or at the office of the associate dean at the College in Omaha. No part of the fees can be refunded or credited to a student who leaves after the fourth week of the session. Such refunds should be called for at the time of withdrawal from the University.

The schedule of fees in the College of Medicine is as follows:

Matriculation fee.....	\$5
Diploma fee.....	5
Diploma, "cum laude," fee.....	10
No person can be recommended for a degree until he has paid all dues, including the fee for the diploma.	
Special certificate of standing.....	\$5

FIRST-YEAR AND SECOND-YEAR FEES

Tuition, first semester.....	\$25
Tuition, second semester.....	20
For Anatomy only, each semester.....	15

LABORATORY FEES

Anatomy 1, 2, 3.....	each	\$10
Anatomy 4		3
Anatomy 8		5
Anatomy 11, 12.....	graduated	
Bacteriology 1.....		8
Pathology 2		10
Chemistry A, B, 1, 2, 3, 4, 34.....	each	5
Chemistry D.....		10
Histology and embryology (Zoology 9, 10).....	each	6
Pharmacodynamics 1, 2.....	each	4
Physiology 1, 2.....	each	3
Physiology 3		4
Zoology 1, 2, general and medical.....	each	2
Demonstration courses		10

JUNIOR YEAR—OMAHA

Fees for all required exercises, including all laboratory and clinic fees	\$80
Breakage deposit	10
Examination fee	10

SENIOR YEAR—OMAHA

Fees for all required exercises, including laboratory and clinic fees. \$80	
Breakage deposit	10
Examination fee	10

Breakage in the laboratory and damage to the college property are charged to the individual or class responsible. In case the damage can not be located, it is charged to the class pro rata.

All fees are payable strictly in advance when the session opens. A student is not entitled to appear for any one of his final examinations until all his fees are paid.

A graduate of any recognized medical college who desires to attend the Omaha department of the University of Nebraska College of Medicine may do so by paying a fee of \$10.

In Omaha board and lodging cost from \$3 to \$5 a week. By means of clubs students materially reduce this expense. The Young Men's Christian Association issues to students in the College of Medicine special season tickets at a very small cost, granting the privileges of the association's building—baths, gymnasium, parlors, lectures, and concerts. Elegantly equipped rooms may be rented at reasonable prices. The location relative to the College makes the Young Men's Christian Association building a convenient home for the students.

In Lincoln board and lodging may be secured in private families for from \$3 to \$5 a week. There are also numerous student clubs. The Young Men's Christian Association and the Young Women's Christian Association of the University keep lists of boarding places. The Young Men's Christian Association of the University also maintains under the direction of the Registrar an employment bureau, the services of which are free to all students. In a city the size of Lincoln there are many opportunities for students to defray at least a part of their expenses. The University does not, however, guarantee employment.

GENERAL COLLEGE PRIVILEGES

Students in the College of Medicine have the privileges of other students in the University. The gymnasium is in charge of experts in physical training who advise each student as to the character and amount of physical exercise adapted to his case. For engaging in athletics there is abundant opportunity. Military drill is also offered.

SIX-YEAR COMBINED COLLEGIATE AND MEDICAL COURSE

The entrance requirements are those of the Industrial College, given in the announcement for that college.

Whenever possible, the student is advised to take this combined course, which leads to the bachelor's degree at the conclusion of four years, and to that of Doctor of Medicine at the end of six years. The work in Lincoln is known as that of the pre-medical group, which was adopted by the Board of Regents, April, 1902. The work of the group lays a broad foundation for the technical work of the last two years and gives the student not only the best possible training, but also the advantage of possessing the bachelor's degree.

If one wishes to complete both courses within six years, it is not possible to deviate materially from the program outlined below.

Details in regard to the non-technical courses which appear in this schedule, such as rhetoric, should be secured from the announcement of the undergraduate college.

FIRST YEAR

	1st Semester Hours	2d Semester Hours
General and Inorganic Chemistry (Chemistry 1, 2)	2	2
Physics 1, 2	3	3
Modern Language (German)	5	5
General and Medical Zoology (Zoology 1, 2)	3	3
Rhetoric 1, 2	2	2
Osteology (Zoology 8a)		2
Military Drill	1	1
	<hr/>	<hr/>
	16	18

SECOND YEAR

Physics 3, 4	2	2
Organic Chemistry (Chemistry 3, 4)	3	3
Invertebrate and Vertebrate Morphology (Zoology 5, 8)	4	4
Modern Language (German or French)	5	5
Botany 1, 2	3	3
Military Drill	1	1
	<hr/>	<hr/>
	18	18

THIRD YEAR

	1st Semester Hours	2d Semester Hours
General and Practical Anatomy (Anatomy 1, 2) ..	4	4
Neurology (Anatomy 8)		2
General Physiology (Physiology 1, 2).....	2	2
Histology and Embryology (Zoology 9, 10)....	4	2 or 3
Philosophy 1	3	
Physical and Physiological Chemistry (Chemistry 25, 34)	2	4
History of Medicine 1, 2.....	1	1
	<hr/>	<hr/>
	16	15 or 16

FOURTH YEAR

Regional, Practical and Applied Anatomy (Anat- omy 3, 4).....	4	3
Advanced Physiology (Physiology 3).....	3	
Pharmacodynamics	2	2
Bacteriology	4	
Pathology 2		6
Clinical Diagnosis (Pathology 4).....		1
Urinary Analysis and Toxicology (Chemistry 41)	4	
Demonstration Courses		2
Required Elective*		3
	<hr/>	<hr/>
	17	17

FOUR-YEAR MEDICAL COURSE

The course embraces four years of graded instruction, eight to nine months each, outlined in the following synopsis. To this course all students must conform. The year is divided into two semesters, approximately eighteen weeks each.

Examinations are held at the end of each year in all the work covered. Students failing in any of the final examinations of the year

*The required elective is a three-hour course to be taken in any department elected by the student, the character of the work to be determined by consultation between the head of the department and the student.

must pass such examinations either at the opening of the ensuing session or during the Christmas vacation following. Students failing in more than one-third of the work must take the entire work again.

FRESHMAN YEAR

	1st Semester Hours	2d Semester Hours
General and Practical Anatomy (Anatomy 1, 2)	4	4
Anatomy of the Nervous System (Anatomy 8)		2
Organic and Physiological Chemistry (Chemistry 3, 34)	3	4
General Physiology (Physiology 1, 2)	2	2
Histology and Embryology (Zoology 9, 10)	4	2
History of Medicine	1	1
	<hr/>	<hr/>
	14	15

SOPHOMORE YEAR

Regional, Practical and Applied Anatomy (Anatomy 3, 4)	4	3
Advanced Physiology (Physiology 3)	3	
Urinary Analysis and Toxicology (Chemistry 41)	4	
Pharmacodynamics	2	2
Bacteriology	4	
Pathology 2		6
Clinical Diagnosis (Pathology 4)		1
Demonstration Courses		2
Required Elective*		3
	<hr/>	<hr/>
	17	17

JUNIOR YEAR

Special Pathology	1	1
Therapeutics	2	2
Sanitation and State Medicine	0	1
Surgical Anatomy	1	0

*The required elective is a three-hour course to be taken in any department elected by the student, the character of the work to be determined by consultation between the head of the department and the student.

	1st Semester Hours	2d Semester Hours
Physical Diagnosis	2	2
Medicine	4	4
Surgery	4	4
Obstetrics	2	2
Bandaging and Dressing	1	1
Prescription-Writing, Electro-Therapeutics.....	1	1
Pediatrics	1	0
Ophthalmology and Otology	0	1
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	19	19

SENIOR YEAR

Clinical Laboratory	2	2
Nose and Throat	1	1
Gynecology	2	2
Surgery Conference and Practice	3	3
Obstetrics	2	2
Mental and Nervous Diseases.....	1	1
Dermatology	1	1
Therapeutics	1	1
Jurisprudence	0	1
Life Insurance Examination	1	0
Ophthalmology and Otology	1	1
Medicine	3	3
	<hr/>	<hr/>
	18	18

NOTE.—Dispensary and sectional clinics in addition thruout the year.

COURSES OF INSTRUCTION

ANATOMY

PROFESSOR WOLCOTT, ADJUNCT PROFESSOR POYNTER; IN OMAHA
ASSOCIATE PROFESSOR STOKES

This department aims to present the subject of human anatomy in a thoroughly scientific manner. Individual quizzes upon the subject; class quizzes twice a week; a thorough demonstration by each individual student at the close of each dissection of a part; and occasional review quizzes to test the student's ability to retain the knowledge gained, are required. The modeling of bones and drawing of them and of soft parts from the subject as exposed in dissection are also prescribed in the course. The lectures supplement the laboratory course, dealing with the facts of embryology, comparative vertebrate anatomy, etc., and adding breadth to the students' view of the field.

The different courses are so arranged as to secure a logical development of the subject. In the first year of the four-year course the ground covered is osteology, a practice dissection on the dog, and on the cadaver, the arm, leg, trunk-wall, and urino-genital organs (Anatomy 1, 2), together with the central nervous system (Anatomy 8); in the first two years of the six-year course there is added a complete course in comparative vertebrate anatomy, comparative osteology, and eight weeks' dissection of the dog. In the following year the cadaver is finished in the first semester by the study of the head, neck, and viscera (Anatomy 3), while in the second semester is given a general review of the subject of descriptive anatomy (Anatomy 3), together with regional and topographical anatomy (Anatomy 4); the last leads up to surgical anatomy in the junior year (Anatomy 5, 6), and thus the student comes directly to the application of the subject in clinical work.

The laboratories include a room for work in osteology, a laboratory for dissection, locker-room, etc., and are well lighted. The laboratory work is all done in daylight hours, which gives the student opportunity to accomplish the very best results. To assist him in his work charts, models, anatomical preparations and carefully selected works of reference are close at hand for ready consultation.

COURSES

1. **General and Practical Anatomy**—Introductory principles; general descriptive anatomy. Laboratory work; osteology; preliminary dissection on the dog; dissection of human arm, leg, and trunk, exclusive of the viscera; urino-genital organs. One hour lecture. Two hours quiz. Eight hours laboratory. Four hours credit. First semester, freshman year.

PROFESSOR WOLCOTT, ADJUNCT PROFESSOR POYNTER

2. **General and Practical Anatomy**—1 continued. Second semester.
3. **Advanced Practical Anatomy**—Laboratory work; dissection of head neck, and viscera; serial sections of human body. Two hours quiz. Eight hours laboratory. Four hours credit. First semester, sophomore year. One hour general review quiz, second semester.

PROFESSOR WOLCOTT, ADJUNCT PROFESSOR POYNTER

4. **Applied Anatomy**—Lectures and demonstrations on the cadaver; regional and topographical anatomy; relationships of anatomic details; practical application. Two hours attendance. Second semester, sophomore year. Two hours credit.

ADJUNCT PROFESSOR POYNTER

5. **Surgical Anatomy**—Lectures, illustrated by charts, models and museum specimens; practical work on the cadaver. Designed to apply anatomy to surgery. Two hours lecture. First semester, junior year.

ASSOCIATE PROFESSOR STOKES

6. **Experimental Surgery**—Intended to familiarize student with principles of surgical technique and asepsis by actual operations performed on animals, and done with the same care as on the human body. Optional for juniors, second semester. Three hour clinic.

ASSOCIATE PROFESSOR STOKES

8. **Anatomy of the Nervous System**—Including a study of the organs of special sense. One hour quiz. Four hours laboratory. Two hours credit. Second semester, freshman year.

PROFESSOR WOLCOTT

11. **Advanced Anatomy**—For those who have had Anatomy 1, 2 and 3, or a complete dissection of the body, and who desire to review the

subject or to cover the anatomy of certain regions. Credit from two to five hours. Fee graduated. First semester.

PROFESSOR WOLCOTT

12. **Advanced Anatomy**—Continuation of course 11. Second semester.

PROFESSOR WOLCOTT

BACTERIOLOGY AND PATHOLOGY

PROFESSOR WAITE, DOCTOR PILSBURY, DOCTOR BLISS

BACTERIOLOGY

This course aims to build a firm foundation for the subsequent practical work in bacteriology. The study of form, structure, multiplication, requirements of growth and the chemical products is followed by applying the facts acquired to fermentation and putrefaction. In the latter half of the course pathogenic organisms are dealt with exclusively. The various ways in which bacteria gain entrance to the body, the changes which they bring about, and their final removal from the body are thoroughly explained. Attenuation and immunity are carefully discussed. Each of the bacterial diseases is then considered from the point of view of etiology. In the laboratory the preparation of culture media is first taken up. This is followed by a study of their growth on the various media. By these means both non-pathogenic and pathogenic organisms are isolated and identified. A thorough grounding in disinfection and sterilization is required by practical application of the principles discussed in lecture. Animals are inoculated in the presence of the class, which is required to isolate the organisms from the tissues of the animal and grow them in pure culture. Special attention is given to the practical bearing of methods of bacteriological diagnosis.

1. **Bacteriology**—Four hours lecture and quizzes. Eight hours laboratory. Four hours credit. First semester, sophomore year.

PROFESSOR WAITE

2. **Bacteriology 1** will be repeated in Omaha for students who have not taken this work in their sophomore year. Four hours credit, junior year.

DOCTOR BLISS

PATHOLOGY

The subject of general pathology is thoroughly reviewed. The origin of disease, disturbances of circulation, retrograde changes, inflammation

and tumors are carefully studied. In conclusion the diseases of special organs are taken up according to their relative importance. In the laboratory the student is required to identify about one hundred and fifty specimens, and, with the aid of the instructor, work out departures from the normal. From the facts thus acquired a diagnosis is made. Descriptions of all sections and drawings of all typical specimens are required to familiarize the student with recording changes seen and to train him in accuracy of observation.

COURSES

2. **Pathology**—Five hours lecture and quizzes. Eight hours laboratory. Six hours credit. Second semester, sophomore year.

PROFESSOR WAITE

4. **Clinical Diagnosis**—Normal and pathological blood, urine, gastric fluid, feces and sputum. Blood is studied carefully in relation to its value in diagnosis; laboratory methods of staining, counting and observation of all kinds of blood. Routine work in examining normal and pathologic gastric secretions, urine, and feces; special investigations on the relation of metabolism in health and disease to ingesta and excreta. Clinical and bedside observations; elucidate application of such methods. Two hours attendance. One hour credit. Second semester, sophomore year.

DOCTOR —————

5. **Pathology**—Lecture, demonstration and quizzes on special bacteriology and pathology, and post-mortem technique. Two hours laboratory demonstrations. First semester, junior year.

DOCTOR BLISS

6. **Pathology**—3 continued. Second semester.

7. **Practical Clinical Pathology**—Class divided into sections and each section required, in rotation, to assume charge of all pathological specimens, sputum, urine and blood, secured from cases studied in clinics at the dispensary and the different hospitals; to examine the same in the pathological laboratory, under the supervision of the instructors in charge; and to make reports thereon before the class to the professor holding the clinic. Senior year.

DOCTOR BLISS

Special Clinical Pathology is given in connection with senior courses in all clinical departments.

CHEMISTRY

PROFESSOR AVERY, ASSOCIATE PROFESSOR DALES,
ADJUNCT PROFESSOR FOSSLER

A general survey of chemistry, inorganic and organic, including the nature of chemical processes and the use of apparatus.

Instruction by the lecture-laboratory method.

Advanced students having the necessary experience and knowledge do research work under guidance.

COURSES

- A. General Chemistry**—This course is designed to give a general view of chemistry. The lectures are highly illustrated with experiments and the fundamental principles of the science are emphasized. The non-metallic elements are given special consideration. Three hours lecture. Four hours laboratory. Three hours credit. First semester. PROFESSOR AVERY.
- B. General Chemistry**—Continuation of A. Especial attention is given to the metallic elements, the more common organic compounds and the applications of chemistry to every day life. Prerequisite: A. Three hours lecture. Four hours laboratory. Three hours credit. Second semester. PROFESSOR AVERY.
- D. The Non-Metallic Elements**—Including the general principles of chemistry. The course is designed especially for those whose program of studies does not permit them to carry A and B before registering for 1. Such students will attend the same lectures as are given in A, and in addition one hour quiz at a time to be arranged. Three hours lecture. One hour quiz. Eight hours laboratory. Four hours credit. First semester.

PROFESSOR AVERY.

(NOTE: A and B are not to be confused with courses of the same designation previously given. These courses are designed to present the subject to students in the College of Literature, Science and the Arts, and in the Teachers' College. No previous training in chemistry is re-

quired as a prerequisite. The course previously termed A is now replaced by course D, while B is now designated combined 1 and 2.

In general students desiring to study chemistry who enter the University with two points credit should register for Chemistry 1. Students with less than two points are expected, unless advised otherwise, to register as follows: Those in the College of Literature, Science and the Arts and in the Teachers' College will register for A. Students in the Industrial College, and the College of Medicine will register for D.)

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Must be preceded by Course A or its equivalent (see announcement for College of Literature, Science and the Arts and the Industrial College.) Two hours attendance. Four hours laboratory. Two hours credit. First semester, freshman year.
ASSOCIATE PROFESSOR DALES
2. **Qualitative Analysis**—1 continued. Introduction to quantitative analysis included. Elementary course required of technical and scientific students. Prerequisite: Course 1. Two hours attendance. Four hours laboratory. Two hours credit. Second semester, freshman year.
ASSOCIATE PROFESSOR DALES
- 1 and 2 (combined course). **Qualitative Analysis**. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester.
ASSOCIATE PROFESSOR DALES
3. **Elementary Organic Chemistry**—The important classes of organic substances. Preparation, in laboratory, of typical compounds. Three hours attendance. Six hours laboratory. Three hours credit. First semester, sophomore year.
ADJUNCT PROFESSOR FOSSLER
- 3a. **Organic Chemistry**—The aliphatic and benzene derivations as given in courses 3 and 4, abbreviated for four-year medical and dental students only. Three hours lecture. Six hours laboratory. Three hours credit. First semester, freshman year.
PROFESSOR AVERY
4. **Elementary Organic Chemistry**—3 continued. Second semester.
25. **Physical Chemistry**—Elementary course; the general principles of physical chemistry with applications to chemistry and to other

sciences. Required in six-year course; elective in four-year course. Two hours credit. First semester.

ASSOCIATE PROFESSOR DALES

34. **Physiological Chemistry**—The organic compounds. Chemical processes of physiological importance, including elements of urinalysis. Four hours attendance. Eight hours laboratory. Four hours credit. Second semester, sophomore year.

ADJUNCT PROFESSOR FOSSLER

41. **Urine Analysis and Toxicology**—Chemical composition of urine in health and in disease; methods for the detection of abnormal constituents; physiological properties of and methods for detecting poisons. Must be preceded by courses 1, 2, 3 and 4. Four hours lecture. Eight hours laboratory. Four hours credit. First semester.

ADJUNCT PROFESSOR FOSSLER

HISTORY OF MEDICINE

DOCTOR ORR

1. **History of Medicine and Medical Literature**—Lecture and study course dealing with men who have contributed to medical knowledge from the earliest times to the present. One hour lecture. One hour credit. First semester, freshman year.

DOCTOR ORR

2. **History of Medicine and Medical Literature**—1 continued. Development of medicine in its different branches as an abstract department of knowledge. Reading and note-taking. Acquaintance with library methods and literature acquired. One hour lecture. One hour credit. Second semester, freshman year.

DOCTOR ORR

HYGIENE AND STATE MEDICINE

PROFESSOR TOWNE, PROFESSOR CLAPP

1. **Hygiene**—Brief history. Advantages of regular exercise. Bathing and clothing. Care of the eye. Respiration and circulation. Digestion; source, value, and digestibility of foods. Stimulants and narcotics. Ventilation, heating, draining and plumbing. Special physiology and personal purity. Two hours attendance. Two

hours credit. First semester. Required only in the six-year course.

PROFESSOR CLAPP

SANITATION AND STATE MEDICINE

3. **Sanitation and State Medicine**—Relation of medical profession to public health. Theoretical consideration. Results of practical experience. Quarantine regulations of Nebraska. Air, water, climate, soil, heating, ventilation. Municipal and private water supply. Milk and food; sewage.
3. **Advanced Physiology**—Three hours lecture. Three hours laboratory. Three hours credit. First semester, sophomore year.

ASSOCIATE PROFESSOR GUENTHER

THERAPEUTICS

PROFESSOR CRUMMER, DOCTOR LEE, DOCTOR ———

1. **Therapeutics**—All drugs which under the test of modern investigation have been found useful in treatment of disease and disease symptoms. Direct application of the scientific data obtained thru pharmaco-dynamics to the alleviation of suffering. Questions of treatment considered as matters of direct argument from physiology and pathology rather than as mere memory work. Assigned reading given out on each special topic before the lecture. Personal quizzing; prescription writing demanded as a part of each quiz. One hour a week. First semester, junior year.
- DOCTOR LEE
2. **Therapeutics**—1 continued. Second semester, junior year.
- DOCTOR LEE
3. **Therapeutic Measures Other Than Drugs**—Importance of many forms of mechanical, physical and hygienic treatment of recent emphasis in therapeutics. Indication and application of these various measures. Hygiene, diet, massage, exercise, newer ideas of mechanical therapeutics; newer developments of immunity and serum treatment. One hour lecture or quiz. First semester, junior year.
- DOCTOR ———
4. **Therapeutics**—3 continued. Second semester, junior year.
- DOCTOR ———

5. **Advanced Therapeutics**—Practical course. Necessity for definite plans of treatment based upon logical reasoning shown in the more prominent diseases. Will embrace the direct application of all forms of therapeutic aid. Lectures and quizzes. As full clinical practice by student as possible in necessary therapeutic manipulations, such as catheterization, anesthetization, etc. In clinics special attention paid to analyzing cases for therapeutic indications. One hour a week. Senior year. PROFESSOR CRUMMER
6. **Advanced Therapeutics**—5 continued. One hour a week. Senior year. PROFESSOR CRUMMER
7. **Seminar in Therapeutics**—Arranged at opening of school year. Each student will make an investigation and report upon some of the modern specialized forms of therapeutics, such as Nauheim treatment, Carlsbaad treatment, Finsen treatment. Careful investigation of the topic; criticism by the instructor. Report to class. Class discussion. Senior year. By appointment. PROFESSOR CRUMMER

ZOOLOGY

PROFESSOR WARD, ASSOCIATE PROFESSOR WILLARD, ASSISTANT PROFESSOR BARKER, ASSISTANT PROFESSOR POWERS

The laboratory has Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thomas microtomes, Lillie and Naples paraffin baths, and all necessary subsidiary apparatus. The departmental library adjacent and freely accessible contains 2,000 works on animal morphology and physiology. A series of specimens from the Naples Zoological Station—one of injected tissues by Thiersch and embryological models by Ziegler and Dahlgren—are among the illustrative material.

GENERAL AND MEDICAL ZOOLOGY

1. **Introduction to Animal Biology and Medical Zoology**—Fundamental properties of protoplasm. Structure and activities of the cell. Its division. Maturation and fertilization of reproductive cells. Development and differentiation into germ layers, tissues, organs, and animals. Study of animals of special interest in clinical work, as hæmatozoa and helminthes. Two hours lecture

and quiz. Four hours laboratory. Three hours credit. First semester, freshman year (in six and five-year courses).

ASSISTANT PROFESSOR POWERS

2. **Introduction to Animal Biology and Medical Zoology**—1 continued. Second semester.
- A. **Introduction to Animal Biology and Medical Zoology**—For those who enter with the opening of the second semester. Equivalent to courses 1 and 2. Five hours lectures and quiz. Eight hours laboratory. Five hours credit. ASSISTANT PROFESSOR BARKER
17. **Animal Parasites of Man**—Laboratory study, with assigned reading. Two hours credit. Elective, first semester, sophomore year. PROFESSOR WARD
28. **Parasites of Man**—Various forms of entozoa chiefly; their relation to disease; demonstrations and assigned collateral reading. Two hours attendance. Two or three hours credit. Elective, second semester, sophomore year. PROFESSOR WARD

HISTOLOGY AND EMBRYOLOGY

9. **Normal Histology**—Microscopical structure of tissues and organs, illustrated by drawings, models and demonstrations with lantern and projection microscope. Two hours lecture and quiz. Eight hours laboratory. Four hours credit. First semester, freshman year. ASSOCIATE PROFESSOR WILLARD
10. **Vertebrate Embryology**—Survey of general embryology. Review of development of man. Laboratory work on the frog, chick and pig. Methods of graphic and plastic reconstruction. Two hours lecture and quiz. Four or eight hours laboratory. Two or three hours credit. Second semester, freshman year. ASSOCIATE PROFESSOR WILLARD

DEMONSTRATION COURSES

DOCTOR ORR, DOCTOR LEHNHOFF, DOCTOR EVERETT

These courses are designed to serve as an introduction to the clinical instruction of the last two years. They are given in the second semester, sophomore year, each course running through five full weeks of actual instruction. Four hours attendance. Two hours credit.

- a. **Physical Diagnosis**—Demonstration course. Methods of applying, for diagnostic purposes, knowledge gained in anatomical and physiological laboratories. DOCTOR ORR
- b. **Operative Technique**—Lectures and demonstrations. Introduction to study of surgery. Principles of asepsis, antisepsis and sterilization. Practical demonstrations of preparation of operator, field of operation, operating room, and instruments. Practical demonstrations on cadaver of methods of procedure in ligation of vessels, suturing of wounds, and amputations with special reference to topographical relations of parts involved. DOCTOR LEHNHOFF
- c. **Surgical Pathology**—Lectures and demonstrations. Principles acquired in pathological laboratory applied to special organs and tissues. Ample gross and microscopical material supplemented by clinical cases supplied from Lincoln Sanitarium where two clinics are held weekly. DOCTOR EVERETT

CLINICAL DEPARTMENTS

CLINICAL INSTRUCTION

With cases in all departments of medicine and surgery the student is brought face to face. The 200,000 population of Omaha, South Omaha, and Council Bluffs, with their manufacturing industries, furnish the hospitals a great variety of cases in all branches of medicine and surgery. For instruction in accident and railway surgery there are unusual opportunities.

SECTION CLINICS

At the beginning of each year the senior class is divided into sections of three students each. Some of these attend section clinics daily at the various hospitals, each professor inviting the sections in regular rotation. These section clinics, both medical and surgical, afford extensive facilities for the most effective kind of clinical teaching—individual instruction. In physical diagnosis the student has ample practice, being required to make examinations and to reach a logical diagnosis. The instructor explains each case as fully as possible and then outlines the treatment. By this section-clinic method of instruction the student gets much more positive information than he can in the large general clinics.

JUNIOR YEAR

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	Truelson Physical Diagnosis			Truelson Physical Diagnosis		Immanuel (c) Hospital Davis Truelson B. W. Christie 9 to 12
9	Crummer Therapeutics	Bliss Bacteriology Elective	Bliss Principles of Medicine	Crummer Therapeutics	Jennie Edmundson Hospital	(c) County Hospital Aikin (a) Schalek (b) 9 to 12
10	Hollister Surgery Recitation	Truelson Medicine County Hospital	Edmiston Surg. Dressings and Bandaging	Pollard Obstetrics	Macrae Surgery	
11	Pollard Obstetrics Recitation		Pollard Obstetrics Recitation	Hollister Surgery Recitation	Treynor Medicine	
1	Stokes Genito-Urinary and Rectal Surgery	McClanahan Pediatrics Arena	Dispensary and Drug Room Section	Dispensary and Drug Room Section	Milroy Medicine Arena	Christie (d) Milroy (e) Bridges (f) 10 to 12
2		Davis Principles of Surgery	Peterson Medicine Recitation	Davis Principles of Surgery	Peterson Medicine Recitation	Stokes Experimental Surgery Elective College
3	Bliss Pathology Laboratory	Stokes (a) Surgical Anatomy Towne (b) Sanitation and State Medicine	Hull Surgery Recitation	B. W. Christie (a) Pediatrics Recitation Bicknell (b) Ophthalmology and Otology	Stokes (a) Surg. Anatomy Towne (b) Sanitation and State Medicine	
4	Lee (a) Prescription Writing Jensen (b) Electro- Therapeutics	Goetz Medicine Recitation	Macrae Surgery	Goetz Medicine Recitation	Hull Surgery Recitation	

(a)—First Semester. (b)—Second Semester. (c)—Alternate Months. (d)—To Nov. 1. (e)—Nov. 1 to Mar. 1. (f)—After Mar. 1.

SENIOR YEAR

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	Clinical Laboratory		Jonas (c) (e) Surgery Methodist Hospital		Clinical Laboratory	
9	Owen Laryngology and Rhinology	Milroy Medicine Conference	Owen (d) (e) Laryngology and Rhinology	Clinical Labor- atory in two sections	Owen Laryngology and Rhinology	Immanuel (c) (e) Hospital Davis 9 to 11
10	Findley Gynecology	Stokes Genito-Urinary and Rectal Surgery	Findley (d) (e) Gynecology Wise Hospital		Findley Gynecology	Truelson B. W. Christie 11 to 12
11	Jonas Surgery Conference	Jonas Practice of Surgery	Bridges (c) (e) Medicine Methodist Hospital	McClanahan B. W. Christie Pediatrics	Morison Surgery	County Hospital (d) (e)
1	Stokes Genito-Urinary and Rectal Surgery	McClanahan Bliss Pediatrics Arena		Schalek Dermatology	Milroy Medicine Arena	Aikin Schalek 9 to 10
2	Somers Obstetrics	Aikin Nervous Diseases	Gifford (c) (e) Ophthalmology and Otology Methodist Hospital	Findley Gynecology Arena	Somers Obstetrics	Christie (f) Milroy (g) Bridges (h) 10 to 12
3	Glick Dermatology Recitation	Ward (a) Parasitic Diseases Mogridge (b) Arrested Development	Hoffman (d) (e) Goetz Medicine Wise Hospital (d) (e)	Christie (a) Therapeutics Page (b) Jurisprudence	Cloyd (a) Life Insurance Examinations Moore (b) Mental Diseases	
4	Gifford Ophthalmology and Otology	Ludington Medicine	McClanahan Child Saving Institute by Announcement	Bridges Medicine Conference	Ramsey Fractures and Dislocations	
				Morison (c) Operative Surgery		

(a)—First Semester. (b)—Second Semester. (c)—Section 1. (d)—Section 2 (e)—Alternate Months.
(f)—To Nov. 1st. (g)—Nov. 1st to March 1st. (h)—After March 1st.

HOURS DEVOTED TO EACH SUBJECT

(On the basis of thirty-two weeks of actual instruction in each year)

	First Year		Sec'd Year		Third Year			Fourth Year			Entire Course				Total.	
	Lect. and Recit.	Laboratory.	Lect. and Recit.	Laboratory.	Lect. and Recit.	Laboratory.	Clinics.	Dispensary.	Lect. and Recit.	Clinics.	Laboratory.	Lect. and Recit.	Laboratory.	Clinics.		Dispensary.
ANATOMY:																
General.....	32											32				
Practical and Quiz Work.....	64	256	32	128								96	384			
Nervous System.....	16	96										16	96			
Applied (surgical).....			32		30	120						62	120			
Physiology.....	64	128	48	48								112	176			
CHEMISTRY:																
General and Inorganic.....	64	128										64	128			
Organic.....			48	96								48	96			
Physiol. and Toxicol.....			48	128								48	128			
Histology.....	40	128										40	128			
Embryology.....	24	96										24	96			
General and Medical Zool.....	96	160										96	160			
History of Medicine.....	16											16				
Pharmacodynamics.....			64	112								64	112			
Bacteriology.....			64	128								64	128			
PATHOLOGY:																
General.....			64	128								64	128			
Clinical Diagnosis.....			32	48								32	48			
Surgical.....					30	30						30	30			
					(Assignment to Autopsies.)							90				
THERAPEUTICS:																
Electro-therapeutics..					74				16			90				
					16							16				
					(Drug-room work.)											
MEDICINE:																
Physical Diagnosis.....					60	50						60	50			
Internal Medicine.....					150	90			76	90		226	180			
Parasitic Diseases.....									16			16				
					(Assignment of Sections to Dispensary, Clin. Lab., Ward Work, etc.)											
SURGERY:																
Fractures and Dislocations.....									30			30				
Principles.....					90							90				
Bandaging and Dressing.....					30							30				
Practice.....									30			30				
Surgical Conference.....									30			30				
Surgical Quizzes.....					60				30			90				
Clinics and Instructions in Anesthetics.....									105	90			195			
					(Assignment of Sections to Operative Surgery, Experimental Surgery, Disp., etc.)											
Sanitation and Hygiene..					28							28				

HOURS DEVOTED TO EACH SUBJECT—CONCLUDED

(On the basis of thirty-two weeks of actual instruction in each year)

	First Year		Sec'd Year		Third Year			Fourth Year			Entire Course				Total.		
	Lect. and Recit.	Laboratory.	Lect. and Recit.	Laboratory.	Lect. and Recit.	Laboratory.	Clinics.	Dispensary.	Lect. and Recit.	Clinics.	Laboratory.	Lect. and Recit.	Laboratory.	Clinics.		Dispensary.	
Gynecology.....									78	30	24	78	24	30	...	132†	
Obstetrics.....									90	60	...	150	...	...	...	†150†
Diseases of Eye and Ear.									14	30	45	...	44	45	89†
Diseases of Nose and Throat.....									60	15	...	60	...	15	...	75†	
Mental and Nervous Diseases.....									60	7	...	60	...	7	...	67†	
Pediatrics.....									16	30	30	...	46	30	†76†
Dermatology.....									60	8	...	60	...	8	...	68†	
Genito-Urinary Diseases									30	30	...	30	...	30	...	60	
Medical Jurisprudence..									14	...	...	14	...	...	...	14
Drug Room and Dispensary.....									150	...	120	...	120	...	150	270	
	416	992	432	816	688	150	245	150	650	345	144	2186	2102	590	150	5028	
Total for each year..	1408*	1248			1233				1139			5028				5028	
	1st yr.	2d yr.			3d yr.				4th yr.			Entire Course					

NOTES.—*The time actually spent on the first year's work is usually less, since part of the studies have been anticipated by all who take the five or six year college courses.

† Assignment to cases in addition to time given.

‡ The time assigned to these departments is really greater, since they share in the dispensary work, etc. It is difficult to reduce this to figures, but it constitutes a very important part of the course.

INTERNAL MEDICINE

PROFESSOR BRIDGES, PROFESSOR MILROY, PROFESSOR HOFFMAN, PROFESSOR
TREYNOR, PROFESSOR WARD, DOCTOR PETERSON, DOCTOR
GOETZ, DOCTOR BLISS

CLINICAL ASSISTANTS: DOCTOR TRUELSEN, DOCTOR EDGINGTON

- 1. Physical Diagnosis**—General principles. Demonstrations of topography of head, chest, and abdomen. Physical signs in health learned by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. First semester, junior year.
DOCTOR TRUELSEN
- 2. Physical Diagnosis**—1 continued. Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Second semester, junior year.
PROFESSOR MILROY, DOCTOR TRUELSEN
- 3. Internal Medicine**—General diseases, including infections and diseases of stomach and intestines, lungs, and kidneys. All diseases pertaining to internal medicine; regular recitations held thereon afford theoretical knowledge of the etiology, pathology, symptomatology, diagnosis, and treatment of disease. In clinic in College building the cases are selected from out-door dispensary, and usually represent seasonal diseases of ambulatory type. First semester, junior year. (a) One hour lecture. DOCTOR BLISS. (b) Four hours recitation. DOCTORS PETERSON and GOETZ. (c) One hour clinic. PROFESSOR MILROY and DOCTOR TRUELSEN. One hour clinic, Douglas County Hospital or Immanuel Hospital.
- 4. Internal Medicine**—3 continued. Second semester.
- 5. Internal Medicine**—Includes subjects not lectured on in junior year. Elucidation of cases seen in hospital clinics, and of cases in private practice, illustrative of the subjects under consideration. Two hours weekly in conference. Members of senior class in rotation assigned cases for examination and study in dispensary clinic at one of the affiliated hospitals; reports thereon before class and professor. Full discussion and report of case follow; etiology, pathology, symptoms, diagnosis, prognosis, and treatment discussed. Two clinics each week in College building, on cases selected from the large amount of material furnished by the

dispensary. Two hours weekly at the Douglas County Hospital or the Immanuel Hospital; one hour each at the Omaha and Wise Memorial Hospitals. Careful direction here given to elaboration of clinical histories and to physical examination of chest and abdomen. Sputum, urine, and blood of patients examined by sections of the class in the college laboratory under direction of professor of pathology and reports made thereon. First semester, senior year. (a) One hour lecture. DOCTOR LUDINGTON. Two hours conference. PROFESSORS BRIDGES and MILROY. (b) Two hours clinics in the College. PROFESSOR MILROY, DOCTORS TRUELSEN and BLISS. (c) Four hours hospital clinics. PROFESSORS MILROY, BRIDGES, HOFFMAN, and DOCTOR LUDINGTON.

6. **Internal Medicine**—5 continued. Second semester.

7. **Special Clinics**—To these clinics in above-mentioned hospitals, and also in the Jennie Edmundson Hospital, Council Bluffs, sections of the senior class are invited in rotation. Especial attention to diseases of the heart, lungs, and kidneys. The small classes are enabled to make close study of cases. First semester, senior year. PROFESSORS BRIDGES, MILROY, HOFFMAN, and TREYNOR.

8. **Special Clinics**—7 continued. Second semester.

9. **Animal Parasites and Parasitic Diseases**—Lectures on structure, life history, and distribution of those animals which stand in especial relation to the etiology and transmission of disease. Laboratory exercises and demonstrations on the animal parasites of man, with the technique of helminthological diagnosis. One hour lecture. First semester, senior year. PROFESSOR WARD

11. **Life Insurance Examinations**—The nature and growth of life insurance; elementary principles of life insurance; duties and responsibilities of examiners; influence of different diseases, heredity, occupation and habits on expectancy of life; proper technique in examining applicants for life insurance. First semester, senior year. DOCTOR CLOYD

SURGERY

PROFESSOR JONAS, PROFESSOR DAVIS, PROFESSOR MACRAE, JR., ASSOCIATE
PROFESSOR STOKES, DOCTOR HUNT, DOCTOR EDMISTON, DOCTOR
HULL, DOCTOR MORISON, DOCTOR HOLLISTER

1. **Principles of Surgery**—Principles of surgery; full description of the classification of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Subjects assigned for recitation covering lectures on principles of surgery, surgical pathology and tumors, the practice of surgery, surgical diseases, fractures and dislocations. In College Dispensary cases are presented for diagnosis, operation and treatment. At this clinic a considerable number of minor surgical cases receive attention, minor operations often being performed. Clinics at Douglas County and Immanuel Hospitals; operations for all manner of surgical diseases. Practical use of anesthetics, both local and general, considered at these clinics. First semester, junior year. (a) Two hours lecture. PROFESSOR DAVIS. (b) Four hours recitation. DOCTOR: HULL and HOLLISTER. (c) Two hours dispensary clinic. One hour hospital clinic. PROFESSORS JONAS and DAVIS, DOCTORS HULL, MORISON and HOLLISTER.
2. **Principles of Surgery**—1 continued. Second semester.
3. **Bandaging**—Uses and application of bandaging, plaster of Paris (including its preparation) and other surgical dressings. Practical work under the direction of the instructor. One hour weekly. First semester, junior year. DOCTOR EDMISTON
5. **Practice of Surgery**—Covers part of ground gone over in recitations of junior year. References to observations in hospital clinics frequently recalled and elaborated to fix essential points in diagnosis and treatment. Subjects of hospital clinics brought up for conference in the class-room, when cases are more thoroughly discussed than the time allotted to operative work permits. Members of class in rotation assigned cases for examination, or illustrative cases cited upon which they are required to make reports on diagnosis, pathology, and treatment. Reports

critically discussed in conference. Two hours general clinic at College Dispensary, principally on minor surgery, including examination, diagnosis, treatment and minor operations. Two hours at Nebraska Methodist Hospital in general and major surgery at which cases illustrative of the lecture course in practical surgery are thoroughly demonstrated, at which there are regular operations on all regions of the body. Two hours at Immanuel, Wise Memorial, or Douglas County Hospitals, also furnish opportunity for similar instruction. Members of the class required to assist at operations and administer anesthetics under direction as occasions arise. First semester, senior year. (a) One hour lecture. One hour conference. PROFESSOR JONAS. (b) Six hours clinics. PROFESSORS JONAS and DAVIS.

6. **Practice of Surgery**—5 continued. Second semester.

8. **Demonstrations**—Each member of the class individually instructed in performing surgical operations on the cadaver. He is required to master the details and steps of the more common operations necessary in practice, and is called on at times to perform ligations, amputations, excisions, celiotomies for various abdominal diseases, paracentesis, pleurotomy, rib resection, trephining. Second semester, senior year.

PROFESSOR JONAS, DOCTOR MORISON

9. **Section Clinics**—Special clinics by appointment in all of the hospitals mentioned above and the Jennie Edmundson Hospital, Council Bluffs. These clinics afford work in all branches of general and special surgery. First semester, senior year.

PROFESSORS JONAS, DAVIS, MACRAE, JR., AND
ASSOCIATE PROFESSOR STOKES

10. **Section Clinics**—9 continued. Second semester.

12. **Oral Surgery**—Short course of lectures on the surgery of the mouth, in its relation to diseases of the teeth and alveolar processes; care of teeth and influence of neglect of mouth in production of general and stomach disorders. Second semester, senior year.

DOCTOR HUNT

13. **Laboratory Course in Surgical Pathology**—Gross and microscopic specimens demonstrated from a diagnostic point of view.
DOCTORS HOLLISTER and KENNEDY

ORTHOPEDIC SURGERY

1. **Orthopedic Surgery**—Various deformities; diagnosis, pathology and treatment. Joint diseases; their mechanical and other treatment. Practical study of the subjects of the lectures at surgical clinics in Omaha and Douglas County Hospitals. Operative procedures and the study of progress in the cases treated. One hour lecture. First semester, senior year. PROFESSOR JONAS
2. **Orthopedic Surgery**—1 continued. Second semester.

GENITO-URINARY SURGERY

A systematic course, including the use of the cystoscope and endoscope, is given on the diseases affecting the genito-urinary organs. In the dispensary clinic the practical application of these instruments, the use of sounds, and local treatment of the mucous membrane of the urethra and bladder are studied. Section clinics at the Douglas County Hospital offer opportunities for the study of venereal diseases, including syphilis in all stages. Operations upon the perineum, testicle, prostate and bladder are performed with the assistance of members of the sections.

COURSES

1. **Genito-Urinary Surgery**—One hour lecture. One hour clinic. First semester, senior year. ASSOCIATE PROFESSOR STOKES
2. **Genito-Urinary Surgery**—1 continued. Second semester.
3. **Laboratory Demonstrations**—Practical demonstrations in laboratory on pathology of genito-urinary diseases.
ASSOCIATE PROFESSOR STOKES

OBSTETRICS

PROFESSOR SOMERS, ADJUNCT PROFESSOR POLLARD

For practical work in obstetrics the material is ample. Each student is shown one case during the last semester of the junior year, special advantages being afforded students remaining in the city during the

summer months. The members of the class of 1908 on the average saw six cases each, previous to the beginning of their senior course of lectures, no student having seen less than two cases. At the beginning of the senior year, 1906-7, each senior had attended from two to four cases in labor.

1. **Anatomy and Physiology of the Female Pelvic Organs**—Development of the ovum; hygiene and management of pregnancy, its signs, diagnosis and pathology. Subject of lectures assigned for study and recitation. Three hours recitation. First semester, junior year. ADJUNCT PROFESSOR POLLARD
2. **The Theory and Practice of Obstetrics as Applied to Normal and Abnormal Labor**—Lectures illustrated by charts, diagrams and models. Three hours lecture. Second semester, junior year. ADJUNCT PROFESSOR POLLARD
3. **Obstetrics**—Mechanism of labor, difficult labor, pathology of puerperal state, and the new-born child. Exercises on manikin in diagnosing position and presentation, including a review of mechanism of normal and abnormal labor. Two hours lecture. First semester, senior year. PROFESSOR SOMERS
4. **Obstetric Surgery**—History and description of all obstetric operations with a demonstration of all necessary instruments and their uses. Two hours lecture weekly. Second semester, senior year. PROFESSOR SOMERS
5. **Attendance on Obstetrical Cases**—The various lying-in hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of senior class. Each student required to attend five cases before receiving a certificate for graduation. During such attendance he is excused from the College exercises. Under direction and in presence of professor or one of his assistants, he makes examinations, both by abdominal and vaginal palpation, suggests diagnosis, studies the progress of labor, and, in case operative procedure is necessary, witnesses and assists at operations. Practical use of anesthetics in labor. First semester, senior year. PROFESSOR SOMERS, ADJUNCT PROFESSOR POLLARD

7. **Pathology**—Normal and morbid anatomy of placenta and pregnant and puerperal uterus. Practical demonstrations in the laboratory. First semester, junior year.
8. **Pathology**—7 continued. Second semester.

GYNECOLOGY

PROFESSOR FINDLEY. CLINICAL ASSISTANTS: DOCTOR JEFFERSON, DOCTOR FAIRCHILD

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological lesions and operative procedures, and in order that the student may be thoroughly grounded in the essentials of diagnosis the lectures and clinics are supplemented by a laboratory course in gynecological diagnosis where gross and microscopic specimens of the various lesions of the female genitalia are demonstrated. The dispensary clinic, held daily in the College building, is regarded as a most important part of the clinical teaching. It is in these clinics that the student is trained in clinical diagnosis and where he may best be instructed in principles of treatment. One college clinic each week is held in the Wise Memorial Hospital throughout both semesters where cases are presented for diagnosis and treatment.

1. **Gynecology**—Subject covered by didactic lectures and oral and written quizzes two days weekly. Supplemented by epidiascope illustrations, demonstration of instruments, casts and pathological specimens. One hour a week during first semester devoted to practical demonstration of instruments, of methods of examination of patients, of history taking, etc. One clinic each week at Wise Memorial Hospital where cases are presented for diagnosis and operations. A special feature of the clinic is the opportunity given each student to make examinations under anesthesia. One hour each day devoted to clinics in the dispensary where small groups of students are permitted to examine patients, to write histories, and to apply local treatments. First semester, senior year. (a) Lectures. PROFESSOR FINDLEY. (b) Demonstrations. PROFESSOR FINDLEY, DOCTOR FAIRCHILD. (c) Hospital

clinic. PROFESSOR FINDLEY. (*d*) Dispensary clinics. DOCTORS HEANEY, JEFFERSON, and FAIRCHILD

2. **Gynecology**—1 continued. Second semester.
3. **Gynecological Diagnosis**—Laboratory course students referred to laboratory where gross and microscopic pathology of gynecological lesions are studied. These demonstrations, together with the lectures and clinics, intended to supplement amphitheater discussions of pathology. Special stress upon microscopic diagnosis of uterine scrapings and excised pieces. Opportunity is afforded students to do special laboratory work on fresh material from the clinics. First semester, senior year.

PROFESSOR FINDLEY, DOCTOR FAIRCHILD

4. **Gynecological Diagnosis**—3 continued. Second semester.

OPHTHALMOLOGY AND OTOTOLOGY

PROFESSOR GIFFORD, ADJUNCT PROFESSOR BICKNELL, DOCTOR LEMERE,
DOCTOR PATTON

COURSES

1. **The Anatomy and Physiology of the Eye and Ear, and Practical Instruction in the Use of the Ophthalmoscope and Otoloscope**—Opportunities to study in the dark rooms at the College dispensary the appearances of the normal fundus of the eye and of the drum membrane of the ear. One hour weekly. Second semester, junior year.
ADJUNCT PROFESSOR BICKNELL, DOCTOR LEMERE
3. **Ophthalmology and Otology**—External and internal diseases of the eye and ear and their differential diagnosis. The clinics furnish abundant cases illustrative of the lectures on the eye and ear. First semester, senior year. (*a*) One hour lecture. PROFESSOR GIFFORD. (*b*) Hospital clinic. One hour weekly. PROFESSOR GIFFORD, ADJUNCT PROFESSOR BICKNELL. (*c*) Sectional clinic. DOCTOR LEMERE
4. **Ophthalmology and Otology**—3 continued. Second semester.
5. **Elective Course**—General principles of spectacle-fitting for those especially interested. Either semester, senior year.

LARYNGOLOGY AND RHINOLOGY

PROFESSOR OWEN, DOCTOR WHERRY

1. **Laryngology and Rhinology**—Anatomy and physiology of the upper respiratory tract. Diseases of the nose, throat and larynx; their dependence upon and relation to various constitutional infections and dyscrasiae. One hour lecture. First semester, senior year. PROFESSOR OWEN
2. **Laryngology and Rhinology**—1 continued. Second semester, senior year.
3. **Principles and Use of the Laryngoscope and Rhinoscope**—The practical application in a study of normal appearances of nose, throat, and larynx. Dark room with artificial light provided in the College dispensary. One hour weekly. First semester, senior year. DOCTOR WHERRY
4. **Clinic**—Dispensary clinic furnishes material for study of diseases of the nose, throat and larynx. Having familiarized themselves with the normal appearances and the use of the instruments during the first semester, students are prepared for practical instruction in pathology, diagnosis, and treatment of diseased organs. Section clinics and operations in the Wise Memorial and Immanuel Hospitals. One hour weekly. Second semester, senior year. PROFESSOR OWEN, DOCTOR WHERRY

DERMATOLOGY AND GENITO-URINARY DISEASES

PROFESSOR SCHALEK, DOCTOR KLICK

One lecture weekly throughout the session dealing with cases demonstrated or reported to the class. At College dispensary students become familiar with common cutaneous diseases. The latest advances in syphilology and the use and indications of radiotherapy. A clinic weekly throughout the year at County Hospital with abundant dermatological material. From time to time the students are taken to other hospitals to see patients at the bedside. A weekly recitation and quiz. Finely executed plates and photographs illustrating various diseases of the skin.

COURSES

1. **Dermatology**—Lecture one hour weekly. First and second semester, senior year. PROFESSOR SCHALEK
2. **Dermatology and Genito-Urinary Diseases**—Clinic at the County Hospital one hour weekly. Demonstration of patients. First and second semester, senior year. PROFESSOR SCHALEK
3. **Dermatology**—Recitation and quiz. Demonstration of plates and specimens. One hour weekly, first and second semester, senior year. DOCTOR KLICK

PEDIATRICS

PROFESSOR McCLANAHAN, DOCTOR CHRISTIE

1. **Pediatrics**—Gastro-intestinal diseases, infections, discrasiae and important part played by errors of diet in their production. Milk modification in all its methods, including the working out of percentages. The history and technique of intubation. Clinics at College Dispensary where many cases of ordinary affections of infancy and childhood appear, furnish practical applications. One hour lecture. One hour clinic. First semester, senior year. PROFESSOR McCLANAHAN, DOCTOR CHRISTIE
2. **Pediatrics**—1 continued. Second semester.
3. **Care of Children**—Instruction in the care, hygiene and feeding of infants, cranial measurements, and physical development. One hour lecture. First semester, senior year. DOCTOR CHRISTIE
4. **Section Clinics in Pediatrics**—Clinics at the Child-Saving Institute, where it is frequently possible to demonstrate practically the contagions, measles, scarlet fever, and whooping cough, as they occur in epidemic form. First semester, senior year. PROFESSOR McCLANAHAN, DOCTOR CHRISTIE
5. **Section Clinics in Pediatrics**—4 continued. Second semester.

NERVOUS AND MENTAL DISEASES

PROFESSOR AIKIN, PROFESSOR MOORE, DOCTOR MOGRIDGE

1. **Lectures on Diseases of the Nervous System**—Lectures on the causes of nervous diseases, and the general symptoms. Diagnosis and methods of examination. Diseases of the peripheral nerves.

Motor neuroses of the cranial nerves. Motor neuroses of spinal nerves. Sensory neuroses of cerebro-spinal nerves. Diseases of the spinal cord. Degenerative diseases. Muscular atrophies and dystrophies. Diseases of the brain. Functional neuroses. Insomnia and neurological therapeutics. These lectures will be illustrated by clinical cases at the College, Methodist Hospital, Immanuel Hospital, and Douglas County Hospital. In the College and Douglas County Hospital students are assigned cases for examination, diagnosis and treatment and will be required to report their cases before the entire class. One hour lecture. First semester, senior year.

PROFESSOR AIKIN

2. **Lectures on Diseases of the Mind**—Definitions, classification, general etiology, general pathology. General psychology. General symptoms and symptom groups. Examination and diagnosis. Functional psychoses, organic psychoses. 1 clinical work continued. Second semester. One hour lecture. Second semester, senior year.

PROFESSOR MOORE, PROFESSOR AIKIN

6. **Lectures on Arrested Development**—This course considers the cause, manifestations and diagnosis of arrested development. The class spends a day at the Glenwood, Iowa, Institution for the Feeble Minded. Six lectures, one hour. Second semester, senior year.

DOCTOR MOGRIDGE

MEDICAL JURISPRUDENCE

MR. PAGE

1. **Medical Jurisprudence**—Physicians' contracts, general medico-legal relations. Expert testimony. Malpractice. Life insurance examinations. Injuries and deaths. Poison, identity, and survivorship. Sexual relations. Quarantine sanitation. Medical legislation. Twelve lectures. Second semester, senior year.

MR. PAGE

GRADUATE WORK IN MEDICINE

To provide for a more thoro training in medicine the University proposes to encourage an optional year of graduate study under the

following conditions: (1) Research work in any one of its departments; (2) an internship in some approved hospital; (3) advanced study in some appropriate field at a research laboratory or other institution of higher learning.

At the close of the additional year the student may be recommended to receive the degree of Doctor of Medicine cum laude, provided he has been in residence for a period covering at least the academic year of the University, presents a thesis satisfactory to his advisory committee, and is favorably recommended to the faculty by this committee.

A student desiring to become a candidate for the fifth year's work must register his purpose in writing with the dean on or before Commencement Day of the year preceding such advanced study.

Normally hospital internships shall be taken in some one of the affiliated hospitals; all other cases must be the subject of specific request and approval by the faculty on recommendation of the deans. Approval must also be secured from such hospitals and the chief of the staff must express in writing his willingness to accept the interne and to carry out the conditions laid down by the committee for such work in affiliated hospitals.