1916

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1916-1917

University of Nebraska College of Medicine

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Bulletin of
The University of Nebraska

ANNUAL CATALOG
OF THE
COLLEGE OF MEDICINE

ANNOUNCEMENT
1916-17

Published by the University April 18, 1916

LINCOLN, NEBRASKA

The Bulletin of the University of Nebraska is published monthly in February, semi-monthly in March, semi-weekly in April and monthly in May and November of each year by the University of Nebraska. Entered at the Post-Office at Lincoln, Nebraska, as second-class matter under Act of Congress July 16, 1894.
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COLLEGES AND SCHOOLS OF THE UNIVERSITY

The University of Nebraska comprises the following colleges and schools:
The Graduate College, including the Graduate School of Education
The College of Arts and Sciences, including the Schools of Commerce and Fine Arts
The Teachers College, including the Teachers College High School
The College of Engineering
The College of Agriculture, including the Schools of Agriculture
The College of Law
The College of Medicine
The College of Pharmacy

The Nebraska Agricultural Experiment Station, the Nebraska School of Agriculture at Curtis and the Experimental Substations at North Platte, Valentine and Scottsbluff and the Agricultural Extension Service are under the supervision of the Board of Regents of the University.

For separate catalog or information regarding any of the above colleges or schools, address
THE REGISTRAR,
THE UNIVERSITY OF NEBRASKA,
Lincoln, Nebraska.

THE UNIVERSITY YEAR

The regular session of the University embraces thirty-nine weeks, beginning the second Wednesday after the first Monday in September, and is divided into a first and second semester. A summer session of eight weeks immediately follows the close of the second semester class work. Instruction is offered from September to August.

To enter any session, one must be able either to present the minimum admission requirements to the University or to meet the conditions for “Adult Special” registration.
**CALENDAR FOR THE COLLEGE OF MEDICINE**

**1916**

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>September 11-16</td>
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<tr>
<td>September 15-16</td>
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<td>September 16</td>
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<td>December 19</td>
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<td>January 3</td>
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<td>Jan. 27-Feb. 3</td>
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<td>February 15</td>
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<tr>
<td>June 2-9</td>
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<tr>
<td><strong>Commencement Week</strong></td>
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<tr>
<td>August 3</td>
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<tr>
<td><strong>1917-1918</strong></td>
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<tr>
<td>September 14</td>
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**1917**

<table>
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<td>Friday, 8 p.m.</td>
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<td></td>
</tr>
<tr>
<td>September 14</td>
<td>Friday</td>
</tr>
</tbody>
</table>
OFFICERS OF INSTRUCTION AND ADMINISTRATION
IN OMAHA

SAMUEL AVERY, Ph.D., LL. D., Chancellor of the University.
IRVING SAMUEL CUTTER, B. Sc., M. D., Dean of the College of Medicine and Professor of Biochemistry.
VANCIL KELSO GREER, LL. B., Registrar and University Publisher. (Secretary of Faculties.)

AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
WILLIAM ALBERT WILLARD, Ph. D., Professor of Histology and Embryology.
CHARLES WILLIAM McCORKLE POYNTER, B. Sc., M. D., Professor of Anatomy.
OSCAR THEODORE SCHULTZ, A. B., M. D., Professor of Pathology and Bacteriology.
JAMES DOUGLAS PILCHER, Ph. B., M. D., Professor of Pharmacology.
WILLSON ORTON BRIDGES, M. D., Professor of the Principles and Practice of Medicine and Clinical Medicine.
HAROLD GIFFORD, B. Sc., M. D., Professor of Ophthalmology and Otology.
WILLIAM FORSYTH MILROY, M. D., Professor of Clinical Medicine and Physical Diagnosis.
AUGUST FREDERICK JONAS, M. D., Professor of the Practice of Surgery and Clinical Surgery.
HARRY MONROE McCLANAHAN, A. M., M. D., Professor of Pediatrics.
BYRON BENNETT DAVIS, A. B., M. D., Professor of the Principles of Surgery and Clinical Surgery.
FRANK STYLES OWEN, M. D., Professor of Laryngology and Rhinology.
ANDREW BARTHOLOMEW SOMERS, M. D., Professor of Obstetrics.
SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.
JOSEPH MELANCHTHON AIKIN, M. D., Professor of Nervous and Mental Diseases.

PALMER FINDLEY, A. M., M. D., Professor of Gynecology and Operative Obstetrics.

ALFRED SCHALEK, A. M., M. D., Professor of Dermatology and Syphilology.

LEROY CRUMMER, B. Sc., M. D., Professor of Clinical Medicine.

JOHN PRENTISS LORD, M. D., Professor of Orthopedics.

JOHN EDWARDS SUMMERS, M. D., Professor of Clinical Surgery.

MAX MORSE, Ph. D., Assistant Professor of Biochemistry.

ARTHUR CHARLES STOKES, B. Sc., M. D., Associate Professor of Clinical and Experimental Surgery.

CHARLES WHITNEY POLLARD, A. B., M. D., Assistant Professor of Obstetrics.

JAMES SAMUEL GOETZ, M. D., Assistant Professor of Therapeutics

BURTON WHITFORD CHRISTIE, B. Sc., M. D., Assistant Professor of Pediatrics.

RODNEY WALDO BLISS, B. Sc., M. D., Assistant Professor of Clinical Medicine and Physical Diagnosis.

ROBERT RUSSELL HOLLISTER, A. B., M. D., Assistant Professor of Surgery.

CHARLES REX KENNEDY, M. D., Assistant Professor of Surgery in charge of Genito-Urinary Diseases.

JOHN MONROE BANISTER, A. B., M. D., Assistant Professor of Tropical Medicine.

CHARLES CAMPBELL MORRISON, A. B., M. D., Assistant Professor of Surgery.

EDSON LOWELL BRIDGES, M. D., Assistant Professor of Clinical Medicine.

GEORGE MOGRIDGE, M. D., Lecturer on Arrested Development of the Mind. Glenwood, Iowa.

ALDIS ADELBERT JOHNSON, Ph. B., M. D., Instructor in Clinical Pathology.

JOHN J. KEEGAN, A. M., M. D., Instructor in Anatomy.

ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.
<table>
<thead>
<tr>
<th>Instructor</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>HENRY BASSETT LEMERE, M. D.</td>
<td>Ophthalmology and Otology</td>
</tr>
<tr>
<td>ERNEST TIBBETS MANNING, M. D.</td>
<td>Medicine</td>
</tr>
<tr>
<td>WILLIAM PENALUNA WHERRY, M. D.</td>
<td>Laryngology and Rhinology</td>
</tr>
<tr>
<td>CHARLES AARON HULL, M. D.</td>
<td>Surgery</td>
</tr>
<tr>
<td>JAMES McDOWELL PATTON, A. M., M. D.</td>
<td>Ophthalmology and Otology</td>
</tr>
<tr>
<td>WILLIAM NANCE ANDERSON, B. Sc., M. D.</td>
<td>Physical Diagnosis</td>
</tr>
<tr>
<td>HOWARD BROWNLEE HAMILTON, M. D.</td>
<td>Medicine</td>
</tr>
<tr>
<td>JOHN BEEKMAN POTTS, M. D.</td>
<td>Ophthalmology and Otology</td>
</tr>
<tr>
<td>WILLIS HARVEY TAYLOR, B. Sc., M. D.</td>
<td>Obstetrics</td>
</tr>
<tr>
<td>CARL HARDIN BALLARD, M. D.</td>
<td>Dermatology and X-ray Diagnosis</td>
</tr>
<tr>
<td>CHESTER HILL WATERS, B. Sc., M. D.</td>
<td>Gynecology</td>
</tr>
<tr>
<td>AMOS THOMAS, LL. B.</td>
<td>Medical Jurisprudence</td>
</tr>
<tr>
<td>NORA MAY FAIRCHILD, M. D.</td>
<td>Gynecology</td>
</tr>
<tr>
<td>JOHN CLYDE MOORE, Jr., B. Sc., M. D.</td>
<td>Medicine</td>
</tr>
<tr>
<td>CLARENCE RUBENDALL, B. Sc., M. D.</td>
<td>Laryngology and Rhinology</td>
</tr>
<tr>
<td>HARRISON ALONZO WIGTON, B. Sc., M. D.</td>
<td>Pediatrics</td>
</tr>
<tr>
<td>JOHN RUDOLPH NILSSON, M. D.</td>
<td>Surgery</td>
</tr>
<tr>
<td>ARCHIBALD ROY KNODE, M. D.</td>
<td>Ophthalmology and Otology</td>
</tr>
<tr>
<td>FREDERICK ARTHUR VAN BUREN, M. D.</td>
<td>Anatomy</td>
</tr>
<tr>
<td>ADOLPH BERNARD LINDQUEST, A. B., M. D.</td>
<td>Ophthalmology and Otology</td>
</tr>
<tr>
<td>LYNN THOMPSON HALL, B. Sc., M. D.</td>
<td>Medicine</td>
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<tr>
<td>JOHN FAY HYDE, M. D.</td>
<td>Surgery</td>
</tr>
<tr>
<td>LOUIS EDWIN MOON, M. D.</td>
<td>Surgery</td>
</tr>
<tr>
<td>WILLIAM FREDERICK CALLFAS, C. M., M. D.</td>
<td>Ophthalmology</td>
</tr>
</tbody>
</table>
THE COLLEGE OF MEDICINE

BESSIE B. RANDALL, R. N., Head Nurse in Charge of Free Dispensary.
ELIZABETH ELSASSER, R. N., Assistant Nurse in Charge of Free Dispensary.
RAYMOND GESSELL SHERWOOD, B. Sc., Assistant in Histology and Embryology.
E. LYNN MACQUIDDY, A. B., Scholar in Biochemistry.
FRED A. FIGI, Scholar in Histology and Embryology.
PAUL JONES FLORY, Dispensary Pharmacist.
MARGARET FLAVILLA QUINLAN, Stenographer and Clerk.
HARRIET WILSON, Library Assistant.
IRENE R. BOSTWICK, Clerical Assistant.
ROBERT GORDON, Laboratory Assistant in Pathology and Bacteriology.

Committees of the Faculty

Advanced Standing and Delinquency—Dr. Poynter (Chairman), Dr. Willard, Dr. Cutter.
Clinical Teaching—Dr. Cutter (Chairman), Dr. Findley, Dr. Jonas, Dr. W. O. Bridges, Dr. Crummer.
Course of Study, Catalog and Schedule—Dr. Guenther (Chairman), Dr. Morse.
Scholarships and Research Prizes—Dr. Gifford (Chairman), Dr. J. E. Summers, Dr. Milroy.
Student Activities—Dr. Johnson (Chairman), Dr. Christie, Dr. Anderson.
Convocations—Dr. Bliss (Chairman), Dr. Patton, Dr. Lord.
Library—Dr. Stokes (Chairman), Dr. Gifford, Dr. Davis.
Summer Session—Dr. Willard (Chairman), Dr. McClanahan, Dr. Kennedy.
Graduate Work—Dr. Schultz (Chairman), Dr. Poynter, Dr. Pilcher.
Dispensary—Dr. E. L. Bridges (Chairman), Dr. Johnson.
Publications—Dr. Wherry (Chairman), Dr. Aiken, Dr. Hollister.
OFFICERS OF INSTRUCTION
IN LINCOLN

RUFUS ASHLEY LYMAN, A. M., M. D., Dean of the College of Pharmacy and Professor of Physiology and Pharmacology.
ROBERT HENRY WOLCOTT, A. M., M. D., Professor of Zoology.
CLARENCE AURELIUS SKINNER, Ph. D., Professor of Physics.
FRANKLIN DAVIS BARKER, Ph. D., Professor of Medical Zoology and Parasitology.
BENTON DALES Ph. D., Professor of Chemistry.
RAYMOND JOHN POOL, Ph. D., Professor of Botany.
JAMES FRANKLIN STEVENS, A. M., M. D., Professor of Introductory Medicine.
GEORGE BORROWMAN, A. M., Associate Professor of Chemistry.
CLARENCE JACKSON FRANKFORTER, A. M., Assistant Professor of Chemistry.
HIRAM WINNETT ORR, M. D., Assistant Professor of History of Medicine.
ELSIE DAY, A. B., Ph. G., Assistant Professor of Pharmacognosy.
GENERAL INFORMATION

THE COLLEGE OF MEDICINE

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 had experienced strong and steady growth. As an integral part of the University, and gathering strength from that connection, the College has gone rapidly forward. The requirements for entrance have been raised step by step, keeping pace with those of the better class of medical colleges, and now are on a plane generally recognized as the highest practical for colleges, the primary aim of which is the training of practicing physicians.

The work of the first two years up to 1913 was carried on at Lincoln. There the laboratories of the University, directed by well trained and experienced teachers, who devoted their entire time to instruction, and with equipment adequate for thorough instruction in the laboratory subjects of the medical course, furnished a preparation which was a substantial basis for the clinical work. The work of the last two years was done in Omaha, where are afforded clinical facilities more than ample for all purposes of undergraduate medical instruction.

The State Legislature of 1909 appropriated funds with which to purchase a site for the medical campus in Omaha and the Legislature of 1911 voted another appropriation of $100,000, for a laboratory building on this campus. This building, now occupied, is the first of a group of buildings planned to provide ultimately a complete medical college plant.

The Legislature of 1915 appropriated the sum of $150,000 for the erection of a teaching hospital on the campus of the College of Medicine at Omaha. The contract for the hospital has been awarded and calls for the completion of the building January 1, 1917. It is expected that this hospital will be equipped and ready to receive patients by April or May, 1917. The building thus provided will be strictly a teaching hospital. One hundred fourteen beds divided among various services will be available for clinical teaching.

During the summer vacation period of 1913 the entire equipment and staffs of the medical laboratory departments moved to Omaha. These departments, with the addition of some able instructors from other institutions make up the present laboratory faculty. A large amount of new equipment was purchased and no expense spared to equip all the laboratories with the best modern apparatus. The plant is a well organized physical unit. With the occupation of the new laboratory building and the new
free dispensary, have come many changes and improvements in the course looking toward more effective medical teaching.

STANDING

The College of Medicine meets the requirements of the most exacting state examining and licensing boards and its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. The Royal Colleges of Physicians and Surgeons in England has added the University of Nebraska to the short list of American institutions whose Graduates in Medicine may, on production of the required certificate of study, be admitted to the final examination before the Examining Board in Medicine, Surgery and Midwifery, which places them on the same basis as graduates of the best English colleges. This recognition is of especial interest to those students who are planning to take up work in foreign lands as medical missionaries.

METHODS OF INSTRUCTION

The course of study in medicine covers four years, there being in each of the years thirty-four weeks of class work exclusive of all registration and examination days. During the first two years those laboratory sciences are pursued which form the basis for the clinical studies of the last two. The objective method is followed, not only in the laboratories, but also in the clinical instruction, where constant reference is made to the facts acquired from laboratory work in the fundamental branches. Emphasis is in all cases placed on individual effort on the part of the student, of whom is required work as independent as is consistent with the further demand that he thoroughly cover the field.

The course embraces 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 laboratory and clinic. Frequent quizzes and examinations test the student’s progress in each line of work.

The College affords unique opportunities for the most thorough instruction. The moderate size of the classes insures close contact between student and instructor, which is of the utmost importance in securing an exact knowledge of the fundamental branches. The sectional method of clinical work also 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 very unusual amount of bedside instruction.

The student is urged to add to his preparation a fifth year taken as an interne in some hospital, or spent in some laboratory, and provision is made whereby the student may secure on the completion of this year a second degree—Doctor of Medicine *cum laude*. This fifth clinical year is optional.

**Six-year Combined Course.** In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This can only be accomplished by following closely the course as outlined on page 62 of this catalog. A student registered for the degree of Bachelor of Arts may arrange a similar course by the same use of his electives, but he will probably find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

**COLLEGE DEGREES BY ARRANGEMENT WITH AFFILIATED COLLEGES**

By an arrangement with the faculty of Nebraska Wesleyan University, and of Doane College students who have completed the two-year pre-medical College Course offered by these institutions will be granted the B.Sc., degree by the respective faculties upon completion of the first two years of Medicine offered by the University of Nebraska.

A similar arrangement is pending with other colleges of which definite announcement will be made later.
ADMISSION TO THE COLLEGE OF MEDICINE

Credentials which are accepted toward admission to the University become the property of the University and are kept permanently in the files. All credentials must be filed with the Registrar. They should be mailed at least two months before the beginning of any semester or session to insure prompt attention. Attention to this request will save applicants much inconvenience.

Admission to the University is gained only thru matriculation in one of the eight colleges, (the three schools are included in the colleges).

Admission may be (1) to freshman standing, (2) to advanced standing, and (3) as adult special students.

ADMISSION TO FRESHMAN STANDING.

Admission to freshman standing in the College of Medicine may be (1) complete, meeting all requirements of the College, or (2) conditional, deficient in required subjects. For complete admission applicants must present sixty hours of college work, including physics, 6 hours; zoology, 6 hours (including vertebrate anatomy); chemistry, 10 hours; German, 10 hours and 30 entrance points for conditional admission sixty hours of college work as above stated and a minimum of 28 entrance points, from one of the approved sources given below under, “Admission by Certificate”, and in the subjects for the amount indicated below under, “Entrance Subjects”. Students are permitted to enter this college deficient 9 hours of the above college work if the character of their preparation is such that during the first year and the following Summer Session, in which is permitted registration for a maximum of 9 hours, all deficiencies can be removed and the work of the first year in the College also be completed. Work from another institution presented to meet the above requirement of college work will be evaluated as indicated below under, “Admission to Advanced Standing”.

An entrance point is given for the work of a class holding five recitations a week, of 40 to 50 minutes each, for at least eighteen weeks. In laboratory courses an entrance point is given for three recitations and two double periods of laboratory work (under the supervision of a competent instructor) each week for at least eighteen weeks. In laboratory courses without recitation, an entrance point is the equivalent of fifteen single periods each week.

1 An “hour” is given for each one hour recitation or lecture which presupposes two hours of preparation, or for the equivalent of a three hour laboratory period during each of the eighteen weeks of a semester.
Students admitted conditionally must remove the conditions at the earliest possible opportunity. Degrees will not be granted until such conditions are removed.

Entrance credit, in addition to that presented when admission is granted, to be accepted must be submitted within one year from date of matriculation.

College credit is given for work done in a secondary school only upon examination and then for a maximum of nine hours and only in chemistry, Greek, mechanical drawing, solid geometry, trigonometry, third and fourth year German, French and Latin and fourth year English. To receive college credit for such work, application must be made at the time of first registration in the University and the examination must be taken by the end of the first semester.

Applicants for admission to freshman standing may be admitted (1) by certificate and (2) by examination.

Admission by Certificate

Admission may be had by certificate (a) from the secondary schools on the accredited list of the University and (b) from the secondary schools which are members of the North Central Association of Colleges and Secondary Schools, and of Accrediting Associations of equal rank.

Applicants, who are graduates from secondary schools accredited to the University, must file their “entrance cards” with the Registrar or indicate the name of the school and the year of graduation when applying for admission.

Applicants, who are not graduates from secondary schools accredited to the University, must secure from the Superintendent or Principal an official certified statement of record showing the length of time of attendance, and for each course, the length of the course in weeks, the number of recitations per week, the length of recitation and the grade secured and also a recommendation from such Superintendent or Principal that the applicant be admitted before graduation from the high school and file the same with the Registrar.

Applicants from secondary schools which are members of the North Central Association of Colleges and Secondary Schools, and of Accrediting Associations of equal rank must secure an official certified statement of record showing the length of time of attendance, and for each course the length of the course
in weeks, the number of recitations per week, the length of recitations and the grade secured and also whether or not the applicant is a graduate and file the same with the Registrar.

Admission by Examination

All applicants other than those stated above for admission to the University are required to take entrance examinations. Entrance examinations are offered by the High School Inspector during the entire week in which registration occurs at the beginning of each semester.

Entrance Subjects

The 30 entrance points required for complete admission to freshman standing and the 28 entrance points required for conditional admission to freshman standing, must be presented in the following subjects for the amount indicated; the time element as indicated above in the definition of an entrance point is essential:

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<th>Points</th>
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<tr>
<td>History (European) (a)</td>
<td>2</td>
</tr>
<tr>
<td>Language (foreign) (b)</td>
<td>6 to 4</td>
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<tr>
<td>Mathematics (algebra and geometry) (b)</td>
<td>4 to 6</td>
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<tr>
<td>Science (laboratory)</td>
<td>2</td>
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<tr>
<td>Elective Subjects</td>
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<tr>
<td>Other subjects taught in an approved manner in an accredited secondary school</td>
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<tr>
<td>Total</td>
<td>30</td>
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(a) History—
It is recommended that Greek and Roman history be offered in meeting the European history requirement.

(b) Language and mathematics—
Ten points of foreign language and mathematics are required with a minimum of four points in either. Greek or Latin are recommended.
ADMISSION TO ADVANCED STANDING

Applicants for admission from other Universities or Colleges must file with the Registrar (1) a letter of honorable dismissal; (2) an official certified statement of the college work already accomplished showing the length of time of attendance, and for each course the length of the course in weeks, the number of recitations or lectures per week, the length of the recitation or lecture, if a laboratory course the amount of time in laboratory per week and the grade secured, accompanying the same with a marked catalog of the institution in which it was done; (3) an official certified statement of the record of secondary school work showing the length of time of attendance, and for each course the length of the course in weeks, the number of recitations per week, the length of recitation and the grade secured, satisfying the admission requirements of that college of the University which the applicant seeks to enter.

Applicants for admission to advanced standing are of two classes: (1) those entering from universities and colleges whose requirements for admission and graduation are equal to those of this University, who are given full credit in this University in so far as their work applies not to exceed senior standing; (2) those entering from colleges whose requirements for admission and graduation are not equal to those of this University, who are given less than full credit in proportion to the rank of the institution from which they enter.

In every instance a student shall complete in residence and in the senior year at least thirty of the one hundred and twenty-five hours required for graduation.

In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the M. D. degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college.

The granting of subject credit is at the discretion of the head of each department, subject to the meeting of such conditions or the passing of such examinations as he may with reason impose. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the head of any department has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the student of this College, and in case the work is not equal to such requirement the deficiency stands against the student as a "condition" till removed.
Advanced credit, in addition to that presented when admission is granted, to be accepted must be submitted for approval within one year from date of matriculation.

ADMISSION AS ADULT SPECIAL STUDENTS

Persons at least twenty-one years of age, who do not fulfill the regular admission requirements for freshman standing, but who offer an academic training substantially equivalent, or whose incomplete academic training has been duly supplemented by experience in teaching or other practical preparation, or by special attainment in some particular line, may be admitted to the general colleges as Adult Special students under such conditions as shall be deemed wise in each individual case to do such work as they are prepared to do. Adult Special students are subject to the same University regulations as regular undergraduates, and they may become candidates for graduation upon fulfilling all University requirements, including those for admission to freshman standing. In case of failure to maintain a good standing in the studies registered for, this privilege is withdrawn, and an Adult Special student suspended for failure in University work may be readmitted only upon meeting the requirements for admission to freshman standing. No person is permitted to abuse the privilege of registering as an Adult Special student to secure merely nominal membership in the University, whether for social purposes or to engage in athletics, or for any other reason. The requirements in Military Science and Physical Education apply to Adult Special students as well as to candidates for degrees.

Registration. Certain days at the beginning of each semester are allowed for registration. To promote prompt registration, a fee of $3.00 is charged any student who, unless excused by the Dean, seeks to register outside of these days. A like fee of $3.00 is charged for re-registration when made necessary by the student's fault. Any change whatever in a registration once made is regarded as a re-registration. A student taking the college work required for entrance to the College of Medicine matriculates and registers in the College of Arts and Sciences until the necessary amount of college work is completed. A student taking the combined six-year course for the degrees of Bachelor of Science and Doctor of Medicine matriculates and registers only in the College of Arts and Sciences during the first two years of his work. He continues to register in the College of Arts and Sciences during the next two years, or until he receives his B. Sc. degree;
but he must also matriculate and register in the College of Medicine at the beginning of the third year's work and must register regularly thereafter in the College of Medicine. If he is a candidate for the A. B. degree, he must begin to register also in the College of Medicine not later than the beginning of the fourth year of his course, as at least four years' registration in a college of medicine is required of all who receive the M. D. degree. No regular student is registered for less than twelve (12) hours a semester without the Dean's permission, nor under any condition for more than eighteen (18) hours. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered, without written permission from the Dean. Students cannot attend classes for which they are not registered and credit is not granted for studies pursued without registration. Any change in a student's residence must be immediately reported to the Dean.

REQUIREMENTS FOR THE SATISFACTORY COMPLETION OF A COURSE

The satisfactory completion of a course will be determined by the instructor in charge of the subject thru examinations and other records of a student's work. In order to pass in a course a student must comply with the following requirements:

1. He must have attended at least 80 per cent of the scheduled lecture and recitation appointments in the course, and 85 per cent of all scheduled laboratory hours.

2. He must receive a final grade of at least 70 per cent in freshmen and sophomore subjects, and at least 75 per cent in junior and senior subjects.

A course, which for a good reason has not been completed, may if of passing grade, be marked incomplete "I." This "I" must be removed within one year otherwise the "I" becomes a condition "C."

REMOVAL OF CONDITIONS

A student who does not pass a course, provided the final grade is not below 60 per cent is "conditioned" in that course and is entitled to a reexamination at the next supplementary examination period. For a supplementary examination a fee of $1 in each subject shall be paid. If by reason of illness or other extraordinary circumstances he does not appear at the time set for supplementary examinations, the faculty may by vote permit him a special examination. For such special examination a fee of $2 in addition to the ordinary supplementary examination fee shall be paid.
A student conditioned in one or more lecture, recitation or laboratory
courses at the end of either semester, shall be allowed until the following
September supplementary examinations for the removal of his condition.

If a student falls below 60 per cent, or if he does not pass the suppli­
mentary examination he is "failed" in the course, and shall not have the privilege
or a re-examination until after repeating the course in which he failed.

With the permission of the instructor in charge, attendance of vacation
courses in this school or in courses at other institutions or private instruc­
tion by a member of the teaching staff may be accepted in place of attend­
ance at the regular classes.

If a student falls, after repeating a course as provided in the forego­ing
paragraph, then he shall have no further privileges of instruction or exami­
nation in this school, unless by special vote of the faculty.

No student coming from another school will be allowed any privileges in
this school which would have been denied him in the school which he leaves.

Absence or Withdrawal. The Dean of the College of Medicine is the
Advisor of all students in the College of Medicine. He has a consultation
hour, when students may call seeking advice touching their work. A leave
of absence for a short time may be granted a student by the Dean of his
College. This is merely a justification for absence and not an excuse from
any work. Students not previously excused must make request for excuse
for absence within two weeks from the time the absence ceases. If a student
in good and honorable standing finds it necessary to withdraw from the
University before the close of a semester, the Dean grants him permission
to do so. If he is in good standing and is not a minor he is given honorable
dismissal from the University at his own request; if a minor, at the request
of his parents or guardian.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is granted only under the following
conditions:
1. The candidate must be twenty-one years of age.
2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission and
must have paid all his fees.
4. He must have completed and have secured credit in all required sub­
jects in the curriculum.
5. He must have pursued the study of medicine for at least four years and must have passed the necessary examinations and have received credit for at least four full years of instruction at medical colleges in good standing. The last year he must have taken in this institution.

GRADUATE WORK

Graduate work of two types is offered in the College of Medicine.

(1) Advanced study and research in one or more of the laboratory departments by students holding baccalaureate degrees from this institution or from some other university or college. Such study may lead to the degrees of Master of Arts or of Doctor of Philosophy and may be carried at the same time in a lengthened period of residence as part work in the regular medical schedule. The departments offering this work are included in the Graduate College of the University, the general requirements of which must be met by all candidates for these degrees.

(2) Work of a clinical character by graduates in Medicine serving internships or by graduates in Medicine working under direct faculty supervision. Such work may lead to the degree of Doctor of Medicine *cum laude* under the following conditions laid down by the faculty of the College of Medicine; the candidate must apply at the beginning of his internship or at least one year before he expects to come up for such degree; his work shall consist of original clinical data or experimental work together with general reading and critical survey of the literature bearing on his special subject, and shall be embodied in a typewritten thesis which, if accepted, shall be deposited in the Medical College library; the subject and preliminary outline of the work shall be approved by the faculty committee on graduate study; and throughout the year the work shall be under the supervision of two advisors appointed by the committee with the condition that one shall be a member of the laboratory faculty and the other (if candidate is an interne) the chief of staff of the hospital in which interne is serving; the final acceptance of the thesis shall be by unanimous vote of the faculty and only after its recommendation by the advisory committee and after an opportunity for its inspection by all members of the faculty.

FEES AND EXPENSES

All fees excepting the diploma fee are payable in advance, to the secretary of the College. No fees can be refunded to a student after the beginning of the fourth week from the date of his registration, save for causes beyond
the student's control; in the latter case the refund can only be made upon written application to the Dean. The application must state the reason and be presented at the time of withdrawal from a course or the college. The scheduled fees in the College of Medicine are as follows:

- Matriculation fee (charged once only for each degree): $5
- Diploma fee: 5
- Diploma fee, absentia, additional: 10
- 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.

**FRESHMAN YEAR**
- Tuition, First Semester: $65.00
- Tuition, Second Semester: 60.00
- Breakage Fee: 10.00

**SOPHOMORE YEAR**
- Tuition, First Semester: $60.00
- Tuition, Second Semester: 60.00
- Breakage Fee: 10.00

**JUNIOR YEAR**
- Tuition, First Semester: $55.00
- Tuition, Second Semester: 55.00
- Breakage Fee: 10.00

**SENIOR YEAR**
- Tuition, First Semester: $55.00
- Tuition, Second Semester: 55.00
- Breakage Fee: 10.00

(Unused portion of breakage fee is returnable)

For elective courses requiring laboratory space, apparatus and material, an extra fee will be charged. This fee will be by agreement between the student and the head of department, and is based on the amount of material.
required. Special course fees or the fees of students taking part-time work shall be pro-rated on the basis of the number of hours of work. In no case shall the fee be more than fifteen cents for each hour of work. The minimum fee, however, is $10.00. Breakage in the laboratory and damage to the College property will be charged to the individual or class responsible. In case the responsibility for the damage cannot be placed it will be charged to the class pro-rata.

EXPENSES

Board may be obtained in the vicinity of the College building at an average of $4.00 per week. Comfortable rooms for individuals cost from $6.00 to $10.00 a month. Students rooming together may by this means obtain comfortable rooming quarters at approximately $7.00 per month each. The average total cost of the students for the school year, exclusive of books and instruments, but including all fees, is between $385 and $400. Many students expend more than this, some expend much less. Students should provide an allowance of $50 per annum for books and instruments.

The Young Men’s Christian Association offers to students in the College of Medicine special season tickets at a very small cost, granting the privileges of the Association Building. In a city the size of Omaha there are many opportunities for the students to defray a part of their expenses. The College of Medicine does not, however, guarantee employment. Through the Young Men’s Christian Association, the Omaha Commercial Club and other agencies, employment has been and will continue to be obtained for a certain number of students.

GENERAL AND DEPARTMENTAL STATEMENTS

The ground floor of the laboratory building contains a large locker room containing a steel locker for each student adjoins a lounging room and a room provided with shower baths. The women students have also been provided with a very attractive rest room with cloak rooms adjoining.

This floor also accommodates the private laboratories of the department of pharmacology, the operating room, postmortem and preparation room, room-size incubator and refrigerators, the office of the College paper, The Pulse, and various store rooms.

Direct current for arc lights for photomicrography and the projection lanterns is provided by a motor generator set installed in the engine room.
LABORATORY FACILITIES

ANATOMY

The Department of Anatomy, situated on the fourth floor, occupies the most sanitary and best lighted dissecting room in the country. The room has an asphalt floor fitted with drains to permit flushing and the whole space is divided into eight separate dissecting rooms arranged about a rotunda which is occupied by model cases, etc. A separate study table, dissecting table and sanitary wash-bowl are provided in each of the seven rooms.

Adjoining the main dissecting room are private laboratories, model rooms and the office of the department. The whole upper floor is splendidly lighted with the saw-tooth skylight system.

BIOCHEMISTRY

The Department of Biochemistry occupies part of the south wing of the third floor. The students' laboratory is equipped with soapstone-top chemical desks, and hoods communicating with the general air exhaust of the building operated by a powerful blower. A balance room is provided for exact weighing. A room is equipped for combustion, calorimetric and Kjeldahl work. A special research laboratory, equipped with apparatus, such as colorimeter, thermostat, barometer, automatic burettes, electric stoves, etc. is available for advanced work.

HISTOLOGY AND EMBRYOLOGY

The material equipment for realizing the function of the department is excellent. The laboratories are planned with special reference to the convenience of the student. The economy of time and effort on the mere mechanical side of the work is already telling to a marked degree in real results. Altho the main laboratory is a large room, sixty by twenty feet, thirty students working at individual desks have equally good light from north windows and skylights. Each desk faces the light and is provided with reagent drawers and microscope locker; also gas and artificial light available at each desk when needed.

Adjoining the general laboratory on one side is a small lecture room used by two departments and available for quiz sections and lectures at all times during the laboratory periods. On the other side is a series of five smaller rooms for the varied needs of research, preparation and office
work. These include a small research laboratory, office, drawing and chart room, a technique room large enough to provide for students who have time for this work, and a small supplementary technique and assistant's room. There is also a large photographic dark room used in common with the department of anatomy.

PATHOLOGY AND BACTERIOLOGY

The department occupies all of the main floor except the space used by the administrative offices of the College. The lecture room on this floor is used for clinical lectures and recitations as well as by the department. There are two large teaching laboratories, one for the bacteriology and general pathology of the sophomore year and one for the clinical and special pathology of the junior year. Each student is supplied with a microscope with oil immersion objective, and with such other apparatus and materials as are needed for the complete work of the various courses.

PHARMACOLOGY

For the student work in experimental pharmacology this department shares the large student laboratory of physiology. Ample equipment is provided. The chemical and pharmaceutical work of the students is carried on in the chemical laboratory. The equipment of the department includes a materia medica outfit for student study. Satisfactory private laboratories for the experimental work of the department are provided and are well equipped for work in progress.

PHYSIOLOGY

The laboratories of physiology consist of a main laboratory, 20 by 52 feet, giving ample accommodation to thirty students at any one time. A separate table with lockers and drawers is provided for each pair of students. Adjoining the main laboratory is a, room, 20 by 20 feet, for mammalian experimentation which will accommodate eight students. For private work, for research, for special experiments and for other purposes there exists a series of seven additional rooms having a combined floor space one and one-half times that of the main laboratory. They serve as offices and private laboratories for the department staff. One is a work shop, another an instrument room and one is used for photographic work. All the rooms are supplied with hot and cold water, gas, electricity, heat, ventilation, etc.
The equipment for carrying on the work consists, in addition to the ordinary class apparatus, of kymographs, induction coils, moist chambers, levers, tambours, clocks, signals, animal boards, circulation schemes, electrometers, manometers, rheocords, tuning forks, glass-ware, chemicals, drugs, etc.

The more important of the special pieces of apparatus are a Jaquet and Dudgeon sphygmograph, Erlanger and Faught sphygmomanometers, hemacytometers and hemoglobinometers, Beckmann apparatus for freezing-points, Staudinger balance, Weston mil-ammeter and millivoltmeter, an artificial respiration machine, motors, centrifuge, gas measuring apparatus, mercury-pump, reflectoscope, mycardiograph, ophthalmometer, etc. Particularly worthy of mention are a Cambridge string-galvanometer and appurtenances for electrocardiographic work and a Rivett eight inch precision lathe.

A conference room for class quizzing, etc., is shared with other departments.

CLINICAL FACILITIES

THE UNIVERSITY HOSPITAL

The University Hospital provided by the Legislature of 1915 will place the clinical teaching of the junior and senior years on a strictly University basis. Correlation between clinical departments and between the clinical and laboratory branches of teaching will be made possible. A sufficient number of beds has been provided to assure a wide variety of cases. The entire control of the hospital rests with the Board of Regents, and it will be their object to provide the most efficient care for all worthy sick who may be received as patients.

University Free Dispensary

Clinical cases come to the College of Medicine from over the state of Nebraska and from western Iowa, though the Free Dispensary draws by far the larger number. This is particularly true since the College of Medicine has become an integral part of the University of Nebraska and is endeavoring in a measure to realize its obligation to the State. The hospitals mentioned in this catalog, affiliated with the College of Medicine, have shown a most gratifying willingness to receive these patients thus rendering the cases available for clinical teaching. The College of Medicine of the University acknowledges its obligation to the affiliated hospitals of Omaha.
The University Free Dispensary is located at 1716 Dodge street, in the center of the thickly populated downtown district. This dispensary was equipped during the summer of 1913, and opened for the reception of patients September 15, 1913. Separate services were established in the following subjects: internal medicine; surgery; eye, ear, nose, throat; pediatrics; gynecology, obstetrics; dermatology and genito-urinary; drug room and laboratory. Each service has its own rooms and equipment, and the entire dispensary is in charge of a trained nurse and an assistant. In addition to the regular dispensary services there has been established an out-patient department which is rapidly growing in importance. Thru calls received from the Visiting Nurses' Association and the Associated Charities of the City of Omaha, many out-patients are cared for. These calls are answered first thru the department of medicine and then assigned to other departments as the case demands. The University has access to the Union Pacific Dispensary where much valuable experience is gained in the treatment of fractures and minor injuries. The total number of dispensary cases cared for during 1915 was 12,545, a monthly average of 1,045, as compared with a monthly average of 867 for the preceding year.

The Wise Memorial Hospital

This hospital has been rebuilt and trebled in size. The new building is of stone, pressed brick and iron construction, and is modern in every respect. There are eighty beds, a separate obstetric and children's ward, and two well equipped operating rooms. Two interns are chosen from the graduating class each year for a service of one year. The laboratory is equipped with the apparatus necessary for clinical examinations. The location is within the down-town hospital district. The percentage of charity days in the Wise hospital is high, insuring a large amount of clinical material.

The Nebraska Methodist Hospital

The Nebraska Methodist Hospital, received 2,784 patients last year, of which number fully one-third were free patients. In this hospital the University of Nebraska College of Medicine has exclusive clinical privileges. The hospital contains 140 beds and is a new, commodious, fire-proof building, planned by one of the best architects in the country and embodying the most modern details of construction and arrangement. It contains an operating pavilion and amphitheater seating about 100 students and is furnished with the best appliances known. At this hospital weekly clinics
are held throughout the session for the advanced class in surgery, internal medicine, ophthalmology, otology and neurology. From the graduating class four internes are selected for a year's service each, with provisional opportunities for extended work.

The Child Saving Institute

The Child-Saving Institute situated across the street from the College of Medicine occupies a modern building erected on land purchased by the University. Its clinical privileges belong exclusively to the College of Medicine and are invaluable to the Department of Pediatrics for work in clinical pathology and the general management and feeding of infants. There are from sixty to seventy-five children constantly at the Institute and all are under the direct supervision of the Department of Pediatrics.

The Immanuel Hospital

In the Immanuel Hospital this College has exclusive clinical privileges. The hospital is well arranged and thoroughly equipped for the application of scientific methods to the treatment of disease. The hospital has one hundred and twenty beds housed in two buildings, one of which is new and thoroughly modern. The hospital laboratory is open to students detailed to work out clinical cases. Two operating rooms provide for simultaneous clinics in general and special surgery. Two internes are selected from each graduating class to serve one year. Opportunity is given them for special research work.

The Douglas County Hospital

The Douglas County Hospital, which is located within ten minutes' walk of the College building, cost $200,000 and accommodates over three hundred patients. The hospital includes a maternity pavilion, an insane department and there has lately been added a pavilion for the modern treatment of cases of tuberculosis. 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 surgery, medicine, genito-urinary diseases, dermatology, gynecology, mental diseases and obstetrics. Two resident physicians are appointed each spring for a term of one year.
The Clarkson Memorial Hospital

The Clarkson Memorial Hospital, a new modern building, located at Twenty-first and Howard streets was occupied in the spring of 1909. It is a thoroughly modern hospital building, and has seventy beds and two operating rooms. The hospital affords opportunities for two internships. Clinics are held in gynecology, obstetrics, surgery and medicine.

The Swedish Mission Hospital

The Swedish Mission Hospital, located at 24th and Pratt streets, has a capacity of forty-five beds. The operating room has recently been remodeled and is modern in every way. A well equipped laboratory is at the disposal of the staff. An X-ray apparatus has been installed, and is used for diagnostic and therapeutic purposes. Special medical and surgical clinics are held here by appointment. Two internes are appointed each year from the graduating class.

The City Emergency Hospital

The City Emergency Hospital, located at 912 Douglas street, contains fifty beds and is used primarily for contagious diseases. Thru the City Health department, the students in medicine and in pediatrics are enabled to study carefully a large variety of cases of scarlet fever, erysipelas, measles and diphtheria. Small pox cases are seen at the Isolation Hospital, also under City control. Clinics are held at these institutions whenever desired.

CLINICAL CLERK SERVICE

Beginning with September, 1914, the senior class, in sections, was placed on clinical clerk service in several hospitals. This service is in addition to the scheduled clinics. The seniors perform the work of the interne while on service and have his assistance and co-operation as well as the direct oversight of the attending staff members. Clinical Clerk services rotate in the various hospitals—four months are required of each senior.

HOSPITAL APPOINTMENTS

The Glenwood Institution for Feeble Minded Children affords a salaried internship for one graduate in medicine each year. At the Douglas County Hospital two internes are appointed each year. The following internships are filled exclusively from the graduating class of the College of Medicine for a service of one year; four at the Nebraska Methodist Hospital; two
at the Immanuel Hospital; two at the Clarkson Memorial Hospital; two at the Wise Memorial Hospital; and one at the Swedish Mission Hospital.

Graduates of the College secure positions each year in high grade hospitals in other states. The faculty receives frequent inquiries from superintendents of hospitals desiring recent graduates for such positions. The proportionate number of these positions open to the College will be seen to be far beyond that open to the majority of medical colleges. Under present conditions all capable students desiring hospital training may obtain the inestimable advantage of a years' hospital service before entering upon private practice.

PUBLIC HEALTH

The College of Medicine as a state institution recognizes its duty to the state in all matters pertaining to the public health. The College stands ready to supply expert advice in co-operation with the state and local departments of health on general health conditions within the state. From time to time bulletins on general health topics, epidemic diseases, etc. are issued. Members of the faculty of the College of Medicine are frequently called upon and will respond whenever possible for addresses on medical subjects which are of general interest. These addresses will be available for Teachers' Associations, Women's Club Meetings and the like.

The University College of Medicine is keenly alive to the possibilities which lie within the general theme “Conservation of Public Health” and every effort is made to bring important advances along the lines of better living before the people.

BULLETINS ON PUBLIC HEALTH

The Conservation of Public Health Series is issued quarterly by the College of Medicine. These issues consist of bulletins on public health topics and so far have related to the Hygiene of the Child. Titles of the bulletins issued are as follows:

Number 1. Hints on Home Nursing for Babies.
Number 2. Every-day Facts about Tuberculosis, Typhoid, and Cancer.
Number 4. Hygiene of the Child—Eyes, Ears, Nose.
Number 5. Hygiene of the Child—Scarlet Fever, Diphtheria.

Copies of these bulletins will be sent to any address upon request.
THE COLLEGE OF MEDICINE

LIBRARIES AND SOCIETIES

The College of Medicine Library, in Omaha, contains about 6,500 volumes particularly strong in those scientific lines wherein lie the four years' work of the student of medicine. There is included a collection of textbooks covering the entire range of medical science. This does not obviate the necessity of students having their own textbooks, but offers opportunities for additional reading and study in subjects in which they are specially interested. Periodical literature is also on file. One hundred and twenty standard scientific periodicals are on the regular subscription list. There are also about 10,000 medical pamphlets, theses and reprints.

As additional sources of medical information may be mentioned the medical library of the Omaha-Douglas County Medical Society of 2,000 volumes stored in the College of Medicine Library, and the library of the State Medical Society consisting of approximately 1,500 volumes of which the College of Medicine is custodian.

The University Library, in Lincoln, containing over 111,000 volumes is freely accessible to students and faculty in Omaha. Books may be withdrawn at any time upon demand. Likewise thru the University librarian at Lincoln it is possible for short periods to draw upon the resources of the John Crerar Library of Chicago or the Surgeon General's Library at Washington. The State Library of 85,000 volumes at the State Capitol and the Nebraska State Historical Society Library of 60,000 volumes include valuable medical works in certain lines; series of public documents such as reports of state boards of health and of state hospitals and other institutions.

The Alumni Association of the University of Nebraska College of Medicine maintains an active organization with headquarters in Omaha. The Association numbers about five hundred members. The officers are Dr. A. E. Lane, President; Dr. George H. Alliband, Vice-president and Dr. Roy A. Dodge, Secretary and treasurer.

The Alumni Association has general charge of the Clinical Review Week held at the College of Medicine in Omaha during October of each year.

Medical Student Fraternities: Nu Sigma Nu and Phi Rho Sigma have active chapters and each maintains a chapter house.

The Medical Sorority is Nu Sigma Phi.

Alpha Omega Alpha: Nebraska Alpha Chapter of Alpha Omega Alpha, the medical honorary fraternity, is located at the University of Nebraska College of Medicine. Election to membership in this society
occurs at the end of the first semester senior year, and is based upon the scholarship record of the four year medical course.

**Medical Club of the College of Medicine:** The Medical Club of the College of Medicine is an organization of the younger members of the Faculty. The meetings are held on the first Tuesday of each month at the College Building. The discussions at these meetings are informal, covering the reviews of recent medical literature, reports of cases, clinical data, etc. This Club serves as an effective means of correlating the clinical and laboratory faculties.

**Pre-Medical Society:** A large pre-medical society has existed for a number of years among the students in the pre-medical courses at Lincoln. This society meets monthly for an informal evening at which time addresses are made by members of the faculty. Usually some member of the clinical faculty from Omaha is in attendance.

**Clinical Review Week:** A week of review clinics was inaugurated in the fall of 1910 and has since been an annual function of the Alumni Association and the College of Medicine. The attendance among the Alumni usually exceeds one hundred. The forenoons are devoted to clinics and the afternoons to round-table discussions. The value of this review week to the busy practitioner can hardly be overestimated.

**Convocations:** During the year 1915-1916 the Convocation Committee arranged a series of addresses by prominent medical men. Those scheduled for 1915-1916 include the following:

- Dr. John F. Binnie of Kansas City—“Preparation for the Study of Medicine.”
- Prof. L. H. Pammel, Ames, Iowa—“Botany and its Relation to Medicine.”
- Dr. Mortimer Herzberg, State Laboratory of South Dakota—“State Sanitation.”
- Dr. F. A. Long, Madison, Nebraska—“The Ideal Physician.”
- Dr. J. P. Sedgwick, University of Minnesota—“Infant Feeding.”
- Dr. Charles J. Rowan, University of Iowa—“Bone Surgery.”

**THE COLLEGE PAPER—“THE PULSE”**

Several years ago the students of the Omaha Medical College, then in affiliation with the University of Nebraska, decided that they needed some medium of expression of the vigorous life of the school. Consequently they began the publication of a school paper known as “The Pulse.”
THE COLLEGE OF MEDICINE

The paper, "Representing the Students, Alumni and Faculty of the University of Nebraska College of Medicine," gives twenty-four pages of interesting reading.

MUSEUM

The pathological museum of the College of Medicine contains about 2,500 specimens and is accommodated in cases built to fit the wall space of the corridor of the main floor. The specimens are being entirely re-classified and remounted in flat jars, in order that they may be readily demonstrated and handled. Nearly every variety of pathological lesion is represented and fresh material is regularly received from the affiliated hospitals. From the autopsies performed by the staff, averaging fifty per year, much valuable material is also obtained; this is permanently mounted. In the arrangement of the specimens it has been the aim to make the museum an important and necessary adjunct to the teaching not only of pathology but also of clinical medicine.

The anatomical museum, consisting of models, charts and mounted specimens, is housed in the quarters of the department of anatomy, where it is readily accessible to the students of the department.

DISPENSARY STAFF MEETINGS

The Dispensary Staff is divided into service groups each group having its own chairman. These groups meet to discuss dispensary problems on the call of the chairman who is responsible to the College for the success of his particular service. At these meetings dispensary cases are reported and discussed and plans looking toward improvement are brought forward.

JOURNAL CLUB

The members of the Laboratory Staff at the building conduct a Journal Clubs which meet at various times.

STUDENT LOAN FUND

Hon. John R. Webster, of Omaha, Dr. John Alexander Low Waddell, of Kansas City, and Hon. William Gunn Whitmore, of Valley, have given the sum of $1,000 each to be used as a permanent loan fund for students needing assistance. The interest received from the loaning of this money goes to increase the fund. Application blanks and the full rules for administration may be obtained at the office of the Secretary. Loans will be made only to students in need of assistance, who have been matriculated.
for at least one full year. Upper classmen will be given preference in the making of loans. The moral character of the applicant, his habits of temperance and industry, and his assiduity and success in his studies will also be determining factors. The amount loaned to one student will, except in extraordinary cases, be limited to $100 per semester. The note given by the borrower will bear six per cent interest, payable annually; the loan is to be wholly repaid two years after the student graduates or withdraws from the University.

SCHOLARSHIPS

Scholarships are awarded in the various departments in return for students' assistance. Applications for scholarships should be made to the Dean or heads of departments. Announcement will be made later regarding an Alumni scholarship which has been assured.

PRIZES FOR RESEARCH WORK

A friend of the College of Medicine has offered the following prizes.

For Any Student—For the best piece of original work, clinical or experimental $50.00. For second best $25.00.

For Members of Clinical Faculty—For the best piece of original work, clinical or experimental $100.00. For second best $50.00.

Rules governing the submitting of theses are on file in the office of the Dean.

THE ARRANGEMENT OF THE COURSES OF STUDY

In framing and adopting the present curriculum certain definite principles were relied upon for guidance.

1. That in the sequence of studies, in the total number of hours devoted to each subject and in the relative time devoted to laboratory, hospital and class work the experience of some of the leading medical schools of the country, as revealed in their respective catalogs would furnish an impersonal standard.

2. That the various courses of study in the curriculum possess such characteristics that it is not desirable that all should be handled alike. That, whereas, in some subjects intensiveness and concentration are desiderata in others greater efficiency is gained by covering the ground more slowly.
In chemistry and physiology where experimental procedures call for uninterrupted consecutive hours for the completion of an experiment the maximum of blocking has been adopted. In histology a whole day at the microscope constitutes too great a strain on the eyes so that histology divides the day with work of a different type. The entire four years' work of the medical curriculum of 4,700 hours is therefore, divided into blocks, each subject constituting a block and furthermore each block is as nearly as possible a multiple of thirty-six hour units. The blocking is most thoroughgoing in the early part of the first two years work. In the clinical years it has been found of considerable advantage to block both lectures and clinics. Many subjects requiring eighteen lectures are given to greater advantage by three lectures per week for six weeks rather than one lecture per week over the entire semester. Subjects ordinarily given by means of two didactic hours per week are now accorded four didactic hours over half the time.

A third principle governing the construction of the curriculum is that it must be elastic in order that it may rapidly with little friction adapt itself to growth in medical teaching. For this purpose correlation between adjoining subjects is left to the heads of departments and to the Dean who will reduce to a minimum unnecessary overlapping and arrange for the sequential presentation of subject matter.

To meet the differences in the mental capacities of students there are freely interspersed throughout the curriculum free hours or half days during which good students are free to elect additional work or otherwise.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>Lecture or Quiz</th>
<th>Clinic Laboratory</th>
<th>Dispensary</th>
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</thead>
<tbody>
<tr>
<td>Organic Chemistry</td>
<td>36</td>
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<td>108</td>
</tr>
<tr>
<td>Embryology</td>
<td>30</td>
<td></td>
<td>60</td>
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<tr>
<td>General Histology and Organology</td>
<td>60</td>
<td></td>
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<tr>
<td>Anatomy</td>
<td>36</td>
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<tr>
<th>SECOND SEMESTER</th>
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<tr>
<td>Anatomy</td>
<td>72</td>
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<tr>
<td>Physiological Chemistry</td>
<td>68</td>
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(Credit hours are based upon an approximate equivalent of one hour credit for thirty-four hours work.)
### Sophomore Year

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<thead>
<tr>
<th>Semester</th>
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<tr>
<td><strong>First Semester</strong></td>
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<tr>
<td>Neurology</td>
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<td>Physiology</td>
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<td>Bacteriology</td>
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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>Pathology</td>
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<td>Pharmacology</td>
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<tr>
<td>Physical Diagnosis</td>
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<td>18</td>
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<tr>
<td>Medicine</td>
<td>36</td>
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<td>12</td>
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<tr>
<td>Obstetrics—Embryology</td>
<td>36</td>
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<tr>
<td>Ophthalmology</td>
<td>18</td>
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Dispensary service required of Sophomores (in sections) during April and May.

### Junior Year

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<th>Semester</th>
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<td>Medicine</td>
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<tr>
<td>Special and clinical Pathology</td>
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<tr>
<td>Applied Pharmacology</td>
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<tr>
<td>Obstetrics</td>
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<tr>
<td>Surgery</td>
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<tr>
<td>Eye and Ear</td>
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<td>Physical Diagnosis</td>
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<td>Nose and Throat</td>
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(Experimental Surgery, Elective—54 hours.)

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<td>Pediatrics</td>
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<tr>
<td>Surgery</td>
<td>54</td>
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<td>Obstetrics</td>
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<td>Eye and Ear</td>
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<td>Nose and Throat</td>
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<tr>
<td>Gynecology</td>
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<tr>
<td>Nervous and Mental Diseases</td>
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<tr>
<td>Physical Diagnosis</td>
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<tr>
<td>Therapeutics</td>
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THE COLLEGE OF MEDICINE

SENIOR YEAR

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<td>Skin</td>
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<td>(Senior dispensary. Services elective. Five required during the year.)</td>
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<td>Surgery</td>
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<tr>
<td>Obstetrics</td>
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<td>Mental and Nervous diseases</td>
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<tr>
<td>Gynecology</td>
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<tr>
<td>Eye and Ear</td>
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<tr>
<td>Genito-Urinary Diseases</td>
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<td>Therapeutics</td>
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<td>(Senior dispensary. Services elective. Five required during the year.)</td>
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<td>Medical Jurisprudence</td>
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<tr>
<td>Operative Obstetrics</td>
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TOTAL NUMBER OF HOURS BY YEARS.

<table>
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<tr>
<th></th>
<th>1st Sem.</th>
<th>2d Sem.</th>
<th>Total</th>
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<tbody>
<tr>
<td>Senior</td>
<td>610</td>
<td>642</td>
<td>1,252</td>
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<tr>
<td>Junior</td>
<td>564</td>
<td>522</td>
<td>1,086</td>
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<tr>
<td>Sophomore</td>
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<td>558</td>
<td>1,119</td>
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<tr>
<td>Freshman</td>
<td>594</td>
<td>608</td>
<td>1,202</td>
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</table>

TOTAL HOURS FOR THE FOUR YEARS: 4,659
COURSES OF INSTRUCTION
IN OMAHA

ANATOMY

Professor Poynter, Doctors Keegan and Van Buren, Mr. MacQuiddy

1, 2, 3. General and Practical Anatomy—Covers a study of the entire human body. This work must be preceded by courses in general zoology, comparative vertebrate morphology and osteology. In the laboratory the student is required to make a complete dissection of half the body using charts, atlases and texts as guides; while his work is largely independent he will be required to submit to the department staff from time to time completed dissections to insure the development of a careful technique and a proper understanding of the regions studied. Sixteen hours laboratory, four hours recitation and lecture, last three-quarters of the freshman year.

ELECTIVE COURSES

4. Topographical Anatomy—A laboratory course devoted to the study of frozen sections and wet preparations.

5. Special Genito-Urinary Anatomy—A laboratory course dealing with the region in its relation to the work of the courses in gynecology and obstetrics. Limited to six students.

6. Advanced Anatomy—For those students who have completed the required work of the department and desire to fit themselves for some special field of work or carry out special investigations. Time and credit to be arranged.

1 In all elective courses fees will be graduated to meet the course.
THE COLLEGE OF MEDICINE

BIOCHEMISTRY

Professor Cutter, Assistant Professor Morse, Mr. Green and Assistants

The courses of the department are designed:
1. To give a fundamental training in biological (physiological) chemistry in the regular curriculum of the medical student.
2. To afford means for students of biological chemistry not candidates for the degree of medicine, to obtain the necessary credits for their degrees of A. M., Ph. D., etc.

All students are expected to take courses 1 and 2 unless the content of these courses has been covered elsewhere in a manner acceptable to the Head of the department.

1. General Organic Chemistry—A general survey of the important organic compounds especially those used in applied medicine. Compounds are prepared in the laboratory and their properties studied. Four hours recitation, twelve hours laboratory. First nine weeks. First semester. Freshman year.

2. Biological Chemistry, (physiological chemistry)—After a preliminary survey of the factors of physical chemistry of importance to the medical student, the course proceeds as a detailed study of the chemical processes known to take place in the organism, such as those in metabolism, body secretions, etc. Quantitative methods are employed in the examinations of body fluids and tissues such as blood, urine, etc. Each student is expected to perform a series of metabolism studies upon himself involving quantitative determinations of daily urinary excretion, etc. The aim of the course is to present the chemical factors of physiology and is correlated with the physical physiology of the Department of Physiology. Four hours recitation. One hour quiz. Ten hours laboratory. Second semester. Freshman year.

3. Colloids in Relation of Medicine—A course, elective to those who have had preliminary training in physical chemistry and courses 1 and 2. Lectures and demonstrations covering the topics of the state of matter, mass action, phase rule, absorption, etc. Thanksgiving recess until February first, two hours per week.

4. Sanitary Chemistry—An elective course covering the principles of chemical analysis of foods, their adulterants and their preservation. Attention will be paid to methods of detection of impurities, milk analysis and water analysis from the standpoint of biological chemistry, state medicine and hygiene. Hours to be arranged.
5. **Thesis Work**—Candidates for master's and doctor's degree (Ph. D.) may elect a topic after consultation with the head of the department of biological chemistry with a view of obtaining partial fulfillment for a degree.

**DERMATOLOGY AND SYPHILOLOGY**

Professor Schalek, Doctor Ballard

Throughout the year the students are taken to the different hospitals by appointment to see interesting and rare cases of skin affections. Weekly recitations are given in both semesters to prepare a thorough foundation for the subject. At the University Free Dispensary the students are brought in personal contact with patients of whom they take entire care under the supervision of the attending physician. Special attention is given to the latest advances in syphilology. Salvarsan is discussed and its administration demonstrated. The students are made acquainted with all the newer therapeutics in dermatology. During the second semester a weekly clinic is given at the Douglas County Hospital which affords abundant dermatological material. A fine collection of plates and photographs is available to be thrown on the screen for lectures and conferences.

1. **Dermatology**—Lantern demonstrations of the various skin lesions, together with lectures and recitations upon their etiology, pathology and treatment. One hour. First semester, senior year. Ballard

2. **Dermatology**—Course 1 continued. One hour. Second semester, senior year.

3. **Dermatology and Syphilology**—A weekly clinic at the County Hospital. Demonstration of patients, discussion of treatment and lectures. Two hours. Second semester, senior year. Schalek

4. **Dermatology and Syphilology**—Demonstrations of patients and new methods of treatment, at the Methodist and Immanuel Hospitals, by appointment. First and second semesters, senior year.

5. **Dermatology and Syphilology**—University Free Dispensary, five hours weekly. Examinations of patients and treatments given by students under the supervision of the attending physician. First semester, junior and senior years. Schalek, Ballard

6. **Dermatology and Syphilology**—University Free Dispensary, five hours weekly. Second semester, junior and senior years.
GENITO-URINARY SURGERY

Assistant Professor Kennedy, Doctors Ballard and Pratt

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. Operations upon the perineum, testicle, prostate and bladder are performed with the assistance of members of the sections.

1. Genito-Urinary Surgery—Two hours clinic and lecture at Douglas County Hospital. First semester, senior year. Kennedy
3. Genito-Urinary Clinic at Free Dispensary—Two hours daily in sections, one month. First semester, junior and senior years. Kennedy, Ballard, Pratt
4. Genito-Urinary Clinic—3 continued. Second semester, junior and senior years.

GYNECOLOGY AND OPERATIVE OBSTETRICS

Professor Findley, Doctors Fairchild, Waters, Taylor

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereopticon views of pathological lesions and operative procedures with demonstrations of gross and microscopical specimens. The dispensary clinic, held daily at the University Free Dispensary, 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 clinic each week is held in the Clarkson Memorial or Douglas County Hospital throughout both semesters where cases are presented for diagnosis and treatment.

Opportunity is afforded for making bimanual examinations under anaesthesia in the clinics and for assisting in the operations.

1. Gynecology—Lectures and recitations. Embryology, congenital malformations, anatomy, histology and physiology of female generative
organs. History taking. Methods of examination, use of instruments etc. 
One hour. Second semester, junior year. Waters

2. Gynecology—The subject is covered by didactic lectures and 
recitations. These are supplemented by lantern demonstrations, demon­
strations of instruments, casts and pathological specimens. Four hours. 
First semester, senior year. Findley

3. Operative Obstetrics—Illustrated lectures and conferences. Three 
hours. First half, second semester, senior year. Findley

4. Operative Obstetrics—Presentation of clinical cases in connection 
with courses 5 and 6.

5. Gynecology—A weekly clinic at the Clarkson Memorial or Douglas 
County Hospital. A special feature is the opportunity given each student 
to make examinations under anaesthesia and to assist in operations. Two 
hours. First semester, senior year. Findley

6. Gynecology—5 continued. Two hours. Second semester, senior 
year.

7. Gynecology—University Free Dispensary. Two hours each day 
are devoted to clinics in the dispensary, where small groups of students 
are permitted to examine patients, to write histories, and to apply local 
treatments. Ten hours. First semester, senior year. 
Fairchild, Waters, Taylor

8. Gynecology—7 continued. Ten hours. Second semester, senior 
year.

HISTOLOGY AND EMBRYOLOGY

Professor Willard, Mr. Sherwood, Mr. Figi

1. Vertebrate Embryology—A brief survey of vertebrate develop­
ment with special reference to morphogenesis and histogenesis of organs. 
The course is arranged to correlate as closely as possible with those in histo­
logy and gross anatomy. Ten hours laboratory, five hours recitation. 
First six weeks, first semester, freshman year.

2. General Histology and Organology—This deals with the normal 
human histology supplemented by mammalian and vertebrate material of 
other types. Histological technique may be arranged for outside the regular 
hours. Ten hours laboratory, five hours recitation. Last twelve weeks, 
first semester, freshman year.
3. **Neurology**—Study of the anatomy of the human brain from serial sections and dissections with graphic reconstruction of the principal functional paths. Discussion of the methods of neurological study. Eight hours laboratory and recitation. First ten weeks, first semester, sophomore year.

**ELECTIVES**

4. **Special Human Embryology**—Introductory to Obstetrics—Facts relating specifically to the development of the human ovum and later fetal stages, the membranes, development and histology of the placenta, external form and embryological malformations. Lectures, reading and demonstrations. Two hours. First half of second semester.

5. **Cytology**—An intensive study of intracellular structure with relation to the functional activities of the cell. A course which should precede histological research.

6. **Comparative Neurology**—A study of certain aspects of the nervous system of lower vertebrates as indicating the phylogeny of the human brain. Lectures and laboratory work.

Courses 5 and 6 are electives to be specially arranged for, the credit value depending upon the time required for them.

7. **Graduate Courses**—The facilities are available for research on special problems within the field of the department, such work leading to graduate degrees under the rules of the Graduate College of the University.

**HYGIENE AND PUBLIC HEALTH**

Professor Towne

1. **Sanitation and State Medicine**—Relation of medical profession to public health. Results of practical experience. Quarantine regulations in Nebraska. Discussions upon air, water, soil and climate; heating and ventilation; water supplies public and private; private and municipal management of transmissible diseases; epidemics, contagion and disinfection; vital statistics. One hours lecture. First semester, senior year.

Towne
1. **Physical Diagnosis**—General principles. Demonstration of topography of head, chest and abdomen. Physical signs in health studied by direct personal examination. Lectures treat of normal conditions. Two hours lecture and recitation. Second semester, sophomore year.

2. **Principles of Medicine**—A recitation course upon the general and infectious diseases, taking up systematically their etiology, pathology, symptomatology, diagnosis, prognosis and treatment. Two hours. Second semester, sophomore year.

3. **Physical Diagnosis**—Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Two hours clinic, two hours quiz. First semester, junior year.

4. **Physical Diagnosis**—3 continued. One hour. Second semester, junior year.

5. **Internal Medicine**—2 continued. Three hours recitation and quiz, two weeks alternate dispensary service, two hours clinic. First semester, junior year.

6. **Internal Medicine**—5 continued. Three hours quiz, two hours clinics. Second semester, junior year.

7. **Tropical Medicine**—Lectures on the distribution, etiology, diagnosis, and treatment of such tropical diseases as are of practical importance to American physicians in view of our increasing commercial intercourse with tropical countries by reason of our possessions in the West Indies, Panama Canal Zone, and in the Islands of the Pacific. The endemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control, and suppression of the same. One hour lecture. First semester, senior year.

8. **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. One hour. Second semester, senior year. Milroy

9. Medical Conferences—Reports of cases on clinical clerk and extern services. One hour. Second semester, senior year. Milroy

10. Internal Medicine Clinics—
a. Methodist Hospital—2 hours. First and second semesters junior year. E. L. Bridges
b. County Hospital—2 hours. Second semester, junior year. Bliss
c. Methodist Hospital—2 hours. First and second semesters, senior year. W. O. Bridges
d. Clarkson Hospital—2 hours. First and second semesters, senior year. Crummer
e. County Hospital—2 hours. First semester, senior year. Milroy
f. Dispensary service (see schedule).
g. Clinical Clerk Service (see schedule.)

LARYNGOLOGY AND RHINOLOGY

Professor Owen, Doctors Wherry and Rubendall

1. Physiology and Appearance of Nose, Throat and Larynx—Examination of each with special reference to the normal. Use of instruments. One hour lecture. One hour demonstration. First semester, junior year. Wherry

2. Diseases of the Nose, Throat and Larynx with pathology, diagnosis and treatment. One hour lecture. Second semester, junior year. Owen

3. Diseases of Nose and Throat—One and one-half hours clinic. First semester, junior year in sections.

4. Diseases of Nose and Throat—One and one-half hours clinic. Second semester, junior year in sections.

5. Diseases of Nose and Throat—Lectures and clinic. Two hours. Second semester, senior year.

6. Dispensary—Services of one month, daily. First semester, junior and senior years. Owen, Wherry, Rubendall

7. Dispensary—Course 6 continued. Second semester, junior and senior years.
THE UNIVERSITY OF NEBRASKA

MEDICAL JURISPRUDENCE
Mr. Thomas


NERVOUS AND MENTAL DISEASES
Professor Aikin, Doctor Mogridge

1. Nervous and Mental Disorders—Lectures on the etiology of nervous and mental diseases; methods of examination; upper and lower neurons with symptoms referable to each; neuritis single and multiple; motor and sensory disorders; diseases of the spinal cord; sclerosis; progressive muscular atrophies and dystrophies; diseases of the brain and its membranes; apoplexy, hemorrhage; epilepsy, hysteria, convulsions; idiocy, imbecility, feeblemindedness; neurasthenia and psychasthenia; goitre, occupation neuroses; trophic and vasomotor disorders; disorders of sleep; insanity, its recognition; acute and common forms amenable to treatment; chronic and dementing forms and their care; psycho-analysis in medical practice, etc. One hour, second semester, junior year.

Aiken, Mogridge

2. Nervous and Mental Disorders—1 continued. One hour, first semester, senior year.

3. Nervous and Mental Disorders—Clinic at the Methodist Hospital. General discussion of the causes productive of neurologic and psychologic symptoms. Cases followed by clinical clerks. One hour, first semester, senior year.

Aiken

4. Nervous and Mental Disorders—Clinic at the County Hospital. Conferences on diagnosis and treatment. Cases followed by clinical clerks. Two hours, second semester, senior year.
OBSTETRICS

Professor Somers, Assistant Professor Pollard, Doctor Taylor

1. The Physiology of Pregnancy, Labor, and the Puerperium—Hygiene and conduct of pregnancy, normal labor and puerperium and the physiology and the care of the new-born child. Two hours lecture. Second semester, sophomore year. Taylor

2. Pathology of Pregnancy, Labor, Puerperium, and of New-Born Child—Two hours lecture. First semester, junior year. Pollard

3. Pathology of Pregnancy, Labor, Puerperium and of New-born Child—2 continued. Two hours, second semester, junior year. Somers

4. Obstetrics—The Hemorrhages, antepartum, intrapartum, and post-partum. The toxemias, antepartum, intrapartum, postpartum and the infections. Review of use of forceps with special applications. Two hours, first semester, senior year. Somers

5. Clinical Obstetrics in homes and institutions during the entire junior and senior years. Somers, Pollard, and Taylor

ATTENDANCE ON OBSTETRICAL CASES

The Lying-in Dispensary and the various hospitals, including the Douglas County Hospital, afford abundant opportunity for the assignment of obstetric cases to members of the senior class under direction. During such attendance the student is excused from other College exercises. Under direction and in presence of the 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. Each student is shown one or more cases during the junior year, special opportunities being offered to students remaining in the city during the summer months. An obstetric clinic by appointment on Saturday afternoons and on other days out of lecture hours is in successful operation in connection with this department, at which students are taught antepartum diagnosis, physiological and pathological pregnancy, and shown cases of interest that may be under observation at the time. All material for six months of the year at the County Hospital is utilized for this purpose. Written reports of all clinical work are required and each student must have reported twelve cases of confinement before coming up for graduation.
OPHTHALMOLOGY AND OTOLOGY

Professor Gifford, Doctors Patton, Lemere, Potts, Lindquest, Knode and Callfas


2. Ophthalmology—Diseases of the eye, symptomatology and diagnosis. Lecture and quiz. One and one-half hours, first semester, junior year.


4. Diseases of the Eye and Ear—Lectures and clinics at Methodist Hospital. Cases followed by clinical clerks on service. Treatment and diagnosis. One and one-half hours. First semester, senior year.

5. Diseases of the Eye and Ear—4 continued. One and one-half hours. Second semester, senior year.


7. Ophthalmoscopy—Course designed to meet demands of ophthalmoscopic diagnosis in internal medicine. Elective for seniors. Twelve hours.

8. Dispensary—Junior and senior services of one month each. Three hours systematic and special quiz with demonstrations.

ORTHOPEDIC SURGERY

Professor Lord

2. **Orthopedic Surgery**—Two hours clinic and quiz. Clarkson Hospital. Second semester, senior year.

**PATHOLOGY AND BACTERIOLOGY**

Professor Schultz, Doctor Johnson

1. **Bacteriology and Protozoology**—The course aims to develop proper laboratory technique and to give a working familiarity with the more important and typical pathogenic micro-organisms. The work of the course is arranged as indicated below. Seven hours laboratory, two hours lecture and one hour recitation. First semester, sophomore year.

1a. **Bacteriology**—Training in cultural methods is developed thru actual work upon the pathogenic schizomyces and eumycetes. Representative forms rather than numbers of closely related species are selected for study. Ten hours per week during the first fifteen weeks of the semester.

1b. **Protozoology**—Because of the bearing of recent cytological investigations upon certain of the problems of cellular pathology and physiology considerable attention is paid to the general biology of the protozoa, this aspect of the work being illustrated as much as possible by the study of the more important pathogenic protozoa. The diseases and tissue reactions set up by protozoa are considered in the course in pathological histology. Ten hours per week during the final three weeks of the semester.

1c. **Infection and Immunity**—To illustrate the mechanisms concerned in infection and in immunity experimental work is carried on in connection with the bacteria studied. The microscopic study of the lesions experimentally produced helps to bridge the gap between laboratory bacteriology and pathological histology.

2. **The Principles of Pathology**—A series of lectures devoted to the discussion of the fundamentals of general pathology. One hour lecture. Second semester, sophomore year.

3. **Pathological Histology**—A study of lesions and of the general pathological processes concerned in their production, especial attention being paid to inflammation, to the tissue reactions of the specific infections and to tumors. While the primary aim of the course is the study of general processes, these are illustrated wherever possible by lesions which show the modifications of the various general pathological processes in the different organs and tissues. The gross pathology of the processes considered is illustrated by museum preparations and by such fresh material as is avail-
able from time to time. Eight hours of laboratory work, three hours lecture and one hour recitation. Second semester, sophomore year.

4. Pathological Technique—Students are required to stain and mount their own sections, one hour per week, not included in course 3, being set aside for this purpose. In addition to the routine staining of class sections, the special methods of use in pathological histology are practiced. Training in the preparation of pathological tissues for microscopic study is obtained upon the material of the experimental work in infection. One hour. Second semester, sophomore year.

5. Special Pathology—The work of course 3 is continued in the first semester of the junior year as systemic pathology. The effects of the various pathological processes upon the different organ systems are considered and are illustrated by microscopic and museum preparations and by fresh material. Three hours laboratory, one hour lecture and one hour recitation. First semester, junior year.

6. Clinical Pathology—The primary aim of this course is to familiarize the student with the apparatus, methods and technique of the clinical laboratory. Especial attention is paid to methods applicable in general practice, the results of such practical modifications being compared with those obtained by more exact methods and apparatus. The course is closely correlated with the preceding one, the clinical laboratory work applicable to each organ system following directly upon the consideration of the gross and microscopic pathology of that system. Two hours laboratory, one hour lecture and one hour recitation. First semester, junior year.

7. Autopsy Technique. Senior students are required to attend the autopsies held by the staff. Two junior students are assigned to each autopsy, performing the postmortem under the immediate supervision of the instructor; they are required to present a complete protocol of the gross and microscopic findings.

ELECTIVE COURSES

The following elective courses are open to those who have completed courses 1, 2, and 3.

8. Public Health Bacteriology—A laboratory course intended to give instruction in the methods of bacteriological analysis of water, milk, sewage and foods.
9. Immunology—Laboratory work and assigned reading aiming at more detailed knowledge, especially of the methods which have clinical application, than is possible from course 1c.

10. Experimental Pathology—The study of physiological abnormalities induced by experimental procedures.

11. Clinical Pathology—Advanced work in the hematological and chemical study of clinical cases.

12. Research—The facilities of the department are available for original investigation upon presentation by the applicant of evidence of adequate preliminary training.

PEDIATRICS

Professor McClanahan, Doctors Christie, Hamilton, Wigton, Moore

1. Pediatrics—Gastro-intestinal diseases, diseases of nutrition, and the important part played by errors of diet in their production. The history and technique of intubation. Clinics, at Child Saving Institute and Methodist Hospital, where many cases of ordinary affections of infancy and childhood furnish practical applications. One and one-half hour lecture and clinic. First semester, senior year. McClanahan

2. Pediatrics—1 continued. Second semester, senior year. One and one-half hours lecture and clinic.

3. Care of Children—Instruction in the care, hygiene and feeding of infants; cranial measurements and physical development. Milk modification in all its methods including practical work at the Child Saving Institute and at the Clarkson Hospital. Diseases of new born and diseases of nutrition. One hour lecture, one hour clinic. Second semester, junior year. Christie

4. Dispensary—Two hours daily, first semester, junior and senior years on assignment. Hamilton, Wigton, Moore

5. Dispensary—4 continued. Two hours daily, second semester, junior and senior years on assignment.

PHARMACOLOGY

Professor Pilcher and Assistants

1. Elementary Pharmacy and Principles of Prescription Writing; Toxicology; Absorption and Excretion of Drugs—The term "Phar-
macy" is construed liberally; the course will include sufficient laboratory and didactic work to enable the student to become familiar with the various pharmaceutical preparations used in therapeutics. Laboratory and didactic practice in the methods of writing and of compounding prescriptions; the avoidance of incompatibilities; study of principles of toxicology and of absorption of drugs. Six hours laboratory. First nine weeks of second semester, sophomore year.

2. Experimental Pharmacodynamics—Experimental laboratory work on cold blood animals and mammals. Experiments are performed by the students, written observations noted and conclusions drawn. In the laboratory period the members of the classes alternate in collecting and classifying the data obtained by the individual students and groups of students. These class reports are presented and discussed in frequent conferences. The object of this method of presenting the work of the entire class by one or two students is to familiarize each student with methods of classifying and presenting experimental data in a clear, concise manner. Six hours laboratory, two hours conference. Second nine weeks of second semester, sophomore year.

3. Didactic Pharmacology—By means of lectures and quizzes individual drugs are studied; this includes drugs of local and systemic activity, constant reference being made to the results of the laboratory course. This course includes the following subdivisions: (a) The discussion of the physiological action of drugs, special emphasis being laid on the therapeutic application of the knowledge required. (b) The practical application of the principles of toxicology acquired in the related departments of biochemistry and pharmacology. (c) Materia Medica: while studying the individual drugs the student will familiarize himself with the appearance and physical properties of the preparation of the drug; the dosage, methods of dispensing, etc., practice in prescription writing, etc. Four hours. Second semester, sophomore year.

4. Therapeutics—Discussion of all drugs which under the test of modern investigation have been found useful in the treatment of disease. Application of the scientific data obtained through pharmacodynamics. Questions of treatment considered as matters of direct argument from physiology and pathology rather than as mere memory work. Mechanical, physical and hygienic treatment discussed. Immunity and serum therapy. Personal quizzing; prescription writing. Three hours lecture or quiz. First semester, junior year.
5. **Elective Work**—As time and opportunity permit elective courses along experimental lines will be offered to a limited number of students. Not more than one course of about twenty hours will be offered in one year.

**PHYSIOLOGY**

Professor Guenther and Assistants

A study of the facts and theories of normal vital phenomena presented with special reference to their medical bearing. The general course required of medical students involves two hundred and eighty-three hours, of which eighty-eight are spent in class conferences and one hundred and ninety-five in laboratory experimentation. Numerous demonstrations are given to illustrate the particular subject-matter under consideration.

In addition to imparting information, stress is laid upon training students in differentiating physiological facts from inferences and in the acquisition of a careful experimental technic.

1. **General Course in Physiology**—Lectures, conferences and quizzes. Laboratory work and demonstrations. Preparation of theses, five to six hours recitation and ten to fifteen hours laboratory. First semester, sophomore year.

2. **Elective Course**—Physiology of special clinical interest and courses leading to research. Arranged as to content and time for juniors and seniors, for candidates for advanced degrees, for practitioners and for special students. Credit to be arranged.

**SURGERY**

Professor Jonas, Professor Davis, Professor Summers, Associate Professor Stokes, Doctors Kennedy, Morrison, Hollister and Hull

The course in surgery aims to give the students a thorough understanding of the principles of surgical pathology, surgical diagnosis and rational treatment and does not attempt in the undergraduate courses the development of surgical operative technique. Minor surgical technique is taught in the dispensary and clinics, including numerous practical exercises in surgical asepsis, and the student is prepared to perform such operations as would come to the practitioner as emergencies or in the course of general work. For surgical courses leading to general surgery the student is referred to graduate courses which may be arranged by consultation with the head of the department.
1. Principles of Surgery—A full description of the classes of tumors, their pathology, differentiation, relation to general diseases, manifestations, operative and non-operative methods of treatment. Topics assigned for recitation and quiz covering lectures on principles of surgery, surgical pathology of tumors, the practice of surgery, fractures and dislocations. Three hours. First semester, junior year. Stokes, Hull, Hollister


3. Practice of Surgery—Clinics amplified by lectures on surgical diagnosis, pathology and treatment. Cases assigned for clinic are reported by special groups of senior students with complete data regarding diagnosis, treatment, etc., of each case. All reported or operated cases followed in the wards by clinical clerks on service. Methodist Hospital. One hour lecture, one hour clinic. First semester, senior year. Jonas


5. Fractures and Dislocations—A lecture, quiz and demonstration course on fractures and dislocations. X-ray diagnosis with application of bandages and casts. Two hours. First semester, senior year. Hollister


7. Operative Technique—Students required to master details of the more common operations; ligations, amputations, excisions, paracentesis, celiotomies for various abdominal diseases, rib resection and trephining. One hour. Second semester, senior year. Morrison

8. Experimental Surgery—Intended to familiarize students with principles of surgical technique, asepsis, preparation of supplies for operation, use of instruments, preparation of patients for operation, and care of patients after operation. These points are developed by operations done on animals with the same care that such operations are done on human beings. One hour lecture, two hours in operating room. Second semester, junior year. Stokes

9. Surgical Clinics—
   a. Immanuel Hospital—Three hours. First and second semester, junior year. Davis, Hull
   b. County Hospital—Two hours. Second semester, junior year. Hollister
c. Methodist Hospital—Two hours. First and second semesters, senior year. Jonas

d. Clarkson Hospital—Two hours. First and second semesters, senior year. Summers

e. County Hospital—Clinics by appointment on time of clinic “d”. Summers

f. Wise Hospital—Two hours. First and second semesters, senior year. Stokes

g. Dispensary Service (see schedule).
h. Clinical Clerk Service (see schedule).

THERAPEUTICS
Assistant Professor Goetz

The courses of this department follow directly those offered by the department of Pharmacology. The following courses are offered with the object of fixing firmly the practical applications of pharmacological reasoning.

1. Clinical Therapeutics—Practical course. Necessity of definite plans of treatment based upon logical reasoning shown in the more important diseases. Embraces the direct application of all forms of therapeutic aid. Lectures, quizzes and clinics. In clinics special attention paid to analyzing cases for therapeutic indications. Two hours recitation. Second semester, junior year. Goetz

2. Clinical Therapeutics—I continued. First semester, senior year.

3. Seminar in Therapeutics—Arranged at opening of school year. Each student makes an investigation and reports upon some of the modern specialized forms of therapeutics, such as the Nauheim treatment, the Carlsbad treatment, the Finsen treatment. Careful investigation of the topic with discussion by the class and criticism by the instructor. Senior year. By appointment. Goetz

4. Therapeutic Clinic—Two hours, first semester, senior year.

5. Therapeutic Clinic—Two hours, second semester, senior year.
COURSE IN EMBALMING AND SANITARY SCIENCE

GENERAL STATEMENT

It has been the policy of the University wherever possible to render assistance along the lines of state development. The responsibility of the state in public health matters is everywhere recognized and the importance of well trained embalmers in assisting in carrying out this work is becoming appreciated at its true worth. For students desiring to become professional embalmers and wishing to obtain wider preparation than can be secured in the short course which has formerly been held at the annual meeting of the Association, the University now offers a special group of courses covering a period of eight weeks. This work will be given in connection with the regular session of 1916, beginning in October. The first session of the course in Embalming given in the fall of 1915 was most successful.

REQUIREMENTS FOR ADMISSION

All persons desiring to register for these courses must be 21 years of age of good moral character, and must present to the Registrar credentials showing that they have had a preliminary education equivalent to a two years high school course and a certificate from a licensed embalmer showing that they have had at least one year's practical experience under his direction.

FACILITIES

The instruction in the laboratory courses will be given in the regular laboratories of the College of Medicine and the students will have access to all the facilities offered by the College, including the library which is open for consultation and study from 9 a.m., till 10 p.m., every day except Sunday. Demonstrations in practical embalming and funeral management will be furnished by members of the Nebraska Embalmers' Association resident in Omaha and South Omaha. In this way ample opportunity will be furnished for seeing practical work conducted in the most approved manner.

The following are the lecturers in addition to the faculty of the College of Medicine:

Mr. V. A. Matthews, Lincoln
Mr. N. P. Swanson, Omaha
Mr. Walton Roberts, Lincoln
Mr. W. H. Dorrence, Omaha
Mr. George H. Brewer, South Omaha
Mr. W. M. Hill, Hebron
Mr. Leo Hoffman, Omaha
CERTIFICATE

When students have completed satisfactorily the courses as outlined they will receive a certificate. This certificate will be received by the Board of Embalmers of Nebraska in lieu of an examination for an embalmers license providing other legal requirements have been complied with.

REGISTRATION

Persons intending to take this course or desiring further information concerning it are requested to apply to Doctor I. S. Cutter, Dean, University of Nebraska College of Medicine, Omaha, Nebraska.

COURSES OF STUDY

Anatomy. This course is designed to cover the general structure of the human body in so far as it will be needed in connection with the special work of embalming. Lectures will be supplemented with laboratory work where the student will be made familiar with all the important regions by individual work on the cadaver. Time 60 hours. Poynter

Bacteriology and Sanitary Science—The development of bacteriological knowledge; the nature, size and shape of bacteria; the distribution of bacteria in nature. The effects of bacterial growth in nature. Saprophytic bacteria and their relation to putrefaction and fermentation; soil bacteria; bacteria in the economy of nature. The growth and study of bacteria in the laboratory. Pathogenic bacteria; the causation of disease by bacteria; the paths by which disease producing bacteria enter the body. The modes of spread of pathogenic bacteria. The destruction of bacteria; disinfection and sterilization; the prevention of disease in the care of bodies and in the conduct of funerals. Bacteria and embalming. The prevention of infection in embalming. Schultz

Pathology—The autopsy and the technique of its performance; preparation of the body after autopsy. The preservation of tissues; comparison of the effects of various chemicals and embalming fluids in tissue preservation. The pathological lesions of the more common diseases. The disposal of infected and infective material removed at autopsy. Lectures accompanied by lantern and demonstrations will be given on general questions of sanitation and public health of interest to the embalmer. Time 60 hours. Schultz
Chemistry—This course will furnish beside a preliminary survey of the subject study of the elements and compounds of interest to students of embalming. The preservative action and disinfective properties of inorganic and organic compounds will be given detailed study and work in the laboratory will afford the student opportunity for intimate observation of their actions. Time 90 hours. Morse

Practical Embalming—This course will combine thru demonstration and quiz a detailed study of all the important questions connected with embalming and funeral management. Some of the topics receiving special attention will be cosmetic effects of different methods of embalming; causes of discolorations and methods of removal; handling of the body cavities; preparation of bodies for long shipments; prevention of molds; prevention of dessication; care of contagious diseases; equipment and management of morgues; surgical and mutilated cases.

Professional Embalming and Funeral Management

1. The Profession of embalming, its history, growth and relation to the public. Lectures four hours. Mr. V. A. Matthews, Lincoln

2. Laying out bodies; preparation of face and hands, sterilization of orifices, dressing of bodies. Lectures and demonstrations four hours. Mr. N. P. Swanson, Omaha

3. Cavity and arterial embalming with instructions for the management of case in the home and at the morgue. Four hours. Mr. Walton Roberts, Lincoln

4. Special and difficult cases; contagious diseases; surgical and mutilated cases; preparation for shipment; dessication and mould and their prevention. Lectures and demonstrations, six hours. Mr. W. H. Dorrance, Omaha

5. Funeral Management. Lectures two hours. Mr. Geo. H. Brewer, So. Omaha

6. Legal aspects of embalming. Lectures four hours. Mr. W. M. Hill, Hebron

7. Theory and practice of embalming; a quiz and demonstration course covering all phases of the work and uniting the theoretic and the practical. Twenty hours. Mr. Leo Hoffman, Omaha

8. Practical Work.
Opportunity for observation of the practice of embalming and funeral management as conducted by the leading licensed embalmers of the city will be afforded from time to time. This work will be bulletined at the college and other work of the students will be arranged so as not to conflict with these special cases.

FEES

A fee of $40.00 must be paid at the time of registration to cover cost of instruction and laboratory expenses. At the close of the course examinations will be held and successful candidates will be given a certificate on which the Nebraska Board of Embalmers will issue a license without further examination, providing all requirements have been met. The usual fee for the state license is payable to the Nebraska Board of Embalmers.

MEDICAL WORK IN LINCOLN

The academic work preparatory to admission to the College of Medicine proper is done in the College of Arts and Sciences under the advice of the Dean of the College of Pharmacy.

COMBINED ACADEMIC AND MEDICAL COURSES

Six-year Combined Course. In addition to the four-year course leading to the degree of Doctor of Medicine, which must be preceded by two years of college work, there is offered a combined collegiate and medical course of six years. By the use of the laboratory subjects of the first two years of the medical course as electives in his collegiate course, the student is enabled to receive, at the end of four years, the degree of Bachelor of Science, and at the end of six years that of Doctor of Medicine. This, however, can only be accomplished by following exactly the course as outlined below, substitution being permitted rarely and under conditions where insistence upon the strict enforcement of the requirements would cause evident injustice. Any student failing to meet these requirements can secure his B.Sc. degree only by meeting the group requirements of the College of Arts and Sciences.

A student entering this University from another in which is offered a six-year combined course substantially equivalent to the one here outlined, may be registered in this course, on presentation of properly authenticated credentials showing the satisfactory completion of all requirements imposed by the institution from which he comes up to the time of his transfer.
Course Leading to the Degrees of A. B. and M. D.—A student registered for the degree of Bachelor or Arts may arrange a course similar to the course leading to the degrees of B. Sc. and M. D. by the same use of his electives, but he will find it necessary to spend seven years to meet the requirements for the Bachelor of Arts degree, and to secure, at the same time, the scientific training required for the degree in medicine.

ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED COURSE

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<th>FIRST YEAR</th>
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<td>Physics, 11, 12</td>
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<td>Botany 1, 2</td>
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Students entering without conditions but without two entrance points in chemistry take Chemistry D—4 hours—in the first semester of the first year, and Chemistry 1 and 2—5 hours—in the second semester. Rhetoric 1 and 2 are postponed till the second year.

All students spending three years at Lincoln are urged to take Psychology (Philosophy 1 and 2) in the third year of their course.

Students registered in the College of Pharmacy for degrees in Pharmacy but who wish to study medicine later, may arrange their courses so they can complete the work required for the study of medicine while pursuing the courses in Pharmacy.
THE COLLEGE OF MEDICINE

COURSES OF INSTRUCTION
IN LINCOLN

BOTANY

Five laboratories—general, advanced, and physiological—on the main floor of Nebraska Hall, with the plant-house, provide working room for undergraduate students. Microscopes, paraffin ovens, culture apparatus, microtomes, and other apparatus are furnished as needed. The botanical store-room is stocked with chemicals, stains, glassware and other supplies and apparatus.

1. **General Botany**—Introduction to structure and physiology of plants (protoplasm, cells; tissues, and their activities). General survey of the plant kingdom, including blue-green and green algae, the bacteria and fungi. Three hours lecture and quiz. Six hours laboratory or field work. Three hours credit. First semester. Pool, L. B. Walker, Hannah

2. **General Botany**—The general survey continued, including brown and red algae, the fungi (including lichens), to flowering plants. Three hours lecture and quiz. Six hours laboratory or field work. Three hours credit. Second semester. Pool, L. B. Walker, Hannah

CHEMISTRY

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.

D. **The Non-Metallic Elements**—This course is designed to give a general view of chemistry, including the general principles, and taken by students entering without a high-school course. 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. One hour quiz. Seven hours laboratory. Four hours credit. First semester. Pool, L. B. Walker, Hannah

1. **Qualitative Analysis**—Elementary course required of technical and scientific students. Prerequisite: A and B, D, or 2 entrance points.
Two hours attendance. Four hours laboratory. Three hours credit. First semester.  

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. Three hours credit. Second semester. Borrowman

1 and 2 (combined course). Qualitative Analysis. Prerequisite: same as course 1. Four hours attendance. Eight hours laboratory. Five hours credit. Second semester. Dales

8. Volumetric Analysis—A study of standard volumetric methods. One hour attendance. Ten hours laboratory. Four hours credit. First or second semester. Frankforter

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. May be taken with course 3. Two hours credit. Second semester. Dales

FRENCH

(See "Romance Languages and Literatures" in the Bulletin of the College of Arts and Sciences).

GERMAN

(See "Germanic Languages and Literatures" in the Bulletin of the College of Arts and Sciences).

HISTORY AND ART OF MEDICINE

History and Art of Medicine—Lectures by Dr. Orr on the history of medicine including a review of medical literature, together with instruction in the use of the library, the compilation of a bibliography, and the presentation of a thesis. Lectures by Dr. Stevens on the duties and responsibilities of a physician; his relation to his fellow practitioners; the evolution of the art of medicine; and the various relationships of the profession to society in general.

MILITARY SCIENCE AND TACTICS

(See Bulletin of the College of Arts and Sciences).
PHYSICS

The department of physics occupies a building erected especially for the department, conveniently arranged, with all needed facilities, and well supplied with apparatus.

These courses are designed for those desiring a knowledge of the principles of physics and of its relation to other sciences and to natural phenomena. It is open to students who have completed the Medical College entrance requirements in physics.

11. Arts Course in General and Experimental Physics—Mechanics, sound, and heat. For the nature of this course and conditions for admission, see Bulletin of the College of Arts and Sciences. Three hours lecture with illustrative experiments. Four hours laboratory. Three hours credit. First semester. Skinner


RHETORIC

(See the Bulletin of the College of Arts and Sciences).

PHARMACOLOGY

26. Pharmacy—A laboratory course intended to familiarize the student with the fundamental processes in pharmacy. Primarily for medical students. Two hours attendance. Three hours laboratory. Two hours credit. Second semester. Lyman, Day

ZOOLOGY

The laboratory is fully equipped and a good reference library is accessible.

3b. General Zoology—The lectures cover the general principles of morphology, physiology, development, distribution, classification and evolution of animals; laboratory work, an intensive study of a few selected types, together with a study of mitosis and cell cleavage and emphasis is laid upon methods. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Barker


A. General Zoology—For beginners and those who desire to complete a year's work in general zoology in one semester. This course covers the
same field as courses 3b and 4b. Five hours attendance. Eight hours laboratory. Five hours credit. Second semester. Barker

22. Comparative Vertebrate Anatomy—A course giving general survey of the field of comparative vertebrate anatomy from the dynamic point of view. The laboratory work includes the study of amphioxus, the shark, the necturus and the cat, with demonstrations from preparations in other groups. Three hours attendance. Eight hours laboratory. Five hours credit. Second semester. Barker

25. Medical Zoology—Lectures on certain groups of Protozoa, Platyhelminthes, Nematodermatophora and Arthropoda which produce or transmit the diseases of men, with particular reference to their structure identification and life activities. The laboratory work includes a study of type forms and the required preparation of slides and serves as an introduction to parasitological technique. Intended especially for the medical student. Three hours attendance. Four hours laboratory. Two hours credit. First semester. Barker