1902

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1902-1903

University of Nebraska College of Medicine

University Bulletins Series VII, Number 5

THE UNIVERSITY OF NEBRASKA

THE COLLEGE OF MEDICINE

SUCCESSOR TO THE OMAHA MEDICAL COLLEGE

The University Bulletins are issued one or more every month, and are entered at the post-office at Lincoln, Nebraska, as second-class matter.

July, 1902
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The University Bulletins are issued one or more every month during the collegiate year. One is issued for the Graduate School; one for the College of Literature, Science and the Arts; one each for the Industrial College, the College of Law, and the College of Medicine; one each for the Schools of Art, Agriculture, Domestic Science, Mechanic Arts and Music; and one for the Special Collegiate courses. Bulletins are entered at the Lincoln post-office as second-class matter, and are furnished gratuitously, postage paid, to all who apply for them. In calling for bulletins, please name the department of the University concerning which information is desired.

Address

DEAN HENRY B. WARD,
THE UNIVERSITY OF NEBRASKA,
Lincoln, Nebraska.

Or if the information desired relates to the Omaha branch or department of the College of Medicine.

Address,

DOCTOR EWING BROWN,
12th and Pacific Streets,
Omaha, Nebraska.

CALENDAR 1902-1903

1902

September 16, T., to 19, F., inclusive, examinations and registration
September 20, S., annual opening address by the chancellor
November 27, Th., to 30, Su., inclusive, Thanksgiving recess
December 9, T., regular meeting of the board of regents
December 20, S., first day of Christmas holidays

1903

January 4, Su., last day of Christmas holidays
January 26, M., to 30, F., inclusive, first semester examinations. Examinations and registration for the second semester
February 2, M., second semester begins
February 15, Su., charter day. The exercises occur on Monday, February 16
February 16, M., regular meeting of the board of regents. Seventh mid-winter commencement
April 7, T., regular meeting of the board of regents
April 10, F., to 13, M., inclusive, Easter recess
June 1, M., to 5, F., inclusive, second semester examinations

FOR THE WORK IN OMAHA

1902

September 9, 8 P.M., opening address
September 10, lectures begin
September 12, 2 P.M., examinations for advanced standing
September 13, 9 A.M. and 2 P.M., entrance examinations
November 26 to December 1, Thanksgiving recess
December 20, Christmas vacation begins

1903

January 1, winter term begins
February 22, Washington's birthday—holiday
May 6, senior lectures end
May 9, all lectures end
May 7, 8, 9, senior examinations
May 11, 12, 13, examinations
May 14, commencement
May 14, 9 P.M., alumni banquet

THE COLLEGE OF MEDICINE

THE FACULTY

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DEPARTMENT OF THE EYE AND EAR

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Assistants: G. L. STRADER, M. D. H. B. LEMERE, M. D.

DEPARTMENT OF NOSE AND THROAT

F. S. OWEN, M. D.
Assistants: H. B. LEMERE, M. D. GEORGE L. STRADER, M. D.

DEPARTMENT OF DISEASES OF CHILDREN

H. M. McClannahan, M. D.

DEPARTMENT OF GYNECOLOGY

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Assistant: Edward A. Van Fleet, M. D.

DEPARTMENT OF OBSTETRICS

A. B. Somers, M. D.
Assistant: A. B. Lindquest, M. D.

DEPARTMENT OF DERMATOLOGY

O. S. Hoffman, M. D.

DEPARTMENT OF GENITO-URINARY SURGERY

A. C. Stokes, M. D.

DEPARTMENT OF NEUROLOGY

H. B. Lowry, M. D. J. M. Aikin, M. D.

SECRETARY OF CLINICAL STAFF

A. C. Stokes, M. D.

GENERAL INFORMATION

By an agreement entered into in May, 1902, the Omaha medical college became the college of medicine of the university of Nebraska. The college thus incorporated into the university was founded in 1880 and has experienced strong and steady growth in all lines.

The affiliation is not a mere formal association. The college becomes an integral part of a great university. The moral effect of the union will make itself felt in elevating and strengthening an already high tone of scholarship at the college. For the present the work of the first and second years may be taken either at the department in Omaha or in Lincoln. The requirements for entrance are the same in both departments.

The agreement provides that the entire work of the first two years of the course shall be done exclusively at the university as soon as such end may be conveniently attained. The change which enables students to do the preliminary scientific work at the university is a great gain for them since it has placed at the disposal of students in the first years of medical study advantages such as are offered in but few medical schools of the country. The various laboratories of the university are already well equipped with modern appliances for scientific study and di-

rected by men of thorough training and broad scholarship with a reputation in many cases justly to be called international. These teachers of experience devoting their entire time to the work of instruction and supervision give to the student the best and most recent in scientific progress. The atmosphere of a great university is favorable for the development of that breadth of mind and intellectual grasp which makes possible the greatest future success.

The entire work of the last two years will be done exclusively at the college in Omaha. The city of Omaha affords most excellent clinical facilities for the training of the student in the latter part of his medical course. The college has enjoyed large opportunities in this direction in the past and the change allows the bending of all its energies to the development of this type of work. The constant aim is to strengthen the clinical courses and extend the facilities so that the institution will take its position in the front rank of medical schools.

ENTRANCE AND REGISTRATION

Students are required to register promptly at the beginning of each semester. A wider range of studies is offered at the beginning of the first semester than at the beginning of the second. Women are admitted on the same terms as men.

Examinations for entrance to various classes are held from September 16 to September 19 and from January 26 to January 30. The requirements for admission are stated below.

Candidates for admission make application for examination to the dean of the college.

An applicant who presents a certificate from an accredited school, academy or high school is, without examination, admitted to any classes for which he is fully prepared. Any candidate for admission bringing credentials from a high school, college or university not included in the list of schools accredited to this university must, upon making application, present his credentials to the registrar and be prepared to take such examinations as are prescribed.

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

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

A leave of absence for a brief time may be granted a student by the dean. This leave is not an excuse from any work and no student can be certified as in attendance during a given year if such absence be other than brief.

The summer session of the university affords opportunities to make good deficiencies in certain lines of medical work. For particulars see special bulletin.

REQUIREMENTS FOR ADMISSION

1. The applicant presents a certificate or passes examinations covering 24 "points" [Bulletin 3, p. 21]. To master 24 "points" most pupils need to study four years in a high school or academy.

A "credit point" means the work of five recitations per week of not less than forty minutes each during a semester of at least eighteen weeks.

2. The following are required subjects:

Mathematics 4 points. English 4 points. History 2 points. Language 4 points (of which 2 must be Latin). Science 4 points (taken from physics, chemistry, botany, zoology). In addition to these, in order to enter without condition, each applicant must offer six points from optional subjects. Applicants who obtain at least twenty points from accredited schools or on examinations may be admitted on express condition that they make good preparatory deficiencies within one year from the date of admission. No student can be registered for the second year of medical work who has not made good all preparatory deficiencies.

3. Candidates may be enrolled on passing such regular entrance examinations of the university of Nebraska or of other institutions of equal rank as may be necessary to give 24 credit points, but conditions to the amount of 4 credit points may be allowed under the terms stated in section 2.

4. Without examination the following persons may be admitted to full standing:

a. Graduates or matriculates of reputable colleges on presentation of honorable dismissal certificates.

b. Graduates of state normal schools in regular courses.

c. Graduates of accredited schools in Nebraska who

present at least 24 points of acceptable university entrance credits.

Such of the persons enumerated in *a*, *b* and *c* as shall be deficient in any required subject specified above must make good such deficiencies before the beginning of the second year of medical work.

5. Requirements for admission to the six-year combined academic and medical courses are stated in the requirements for admission to the academic and industrial colleges of the university.

In order to comply with the rules of the medical examination boards of several states a student taking the combined course will matriculate and register with the dean of the medical school at the beginning of the first year's work in medicine and will register again with the dean of the medical school at the beginning of the second year's work in medicine. If he is to be a candidate for the bachelor's degree he will, at the same time, continue to register with the dean of the academic or industrial college.

The satisfactory completion of the combined course entitles the student to the academic degree. If he leaves the medical school he may also obtain a certificate for the work of the two years in the medical course which enables him to enter the junior class in any other medical school belonging to the American association of medical colleges.

The courses in human anatomy, bacteriology, pathology and medical zoology are open only to students registered in the medical school. They may, however,

be taken as electives by juniors and seniors in the academic or industrial college by registration in the medical school and payment of the regular fees.

Special students not candidates for a degree are admitted when in the opinion of the officers of the school the circumstances warrant the privilege and the accommodations are sufficient to allow of it without detriment to the work of regular matriculates.

ADVANCED STANDING

Upon presentation of proper credentials advanced standing may be given as follows:

Graduates of recognized universities or colleges where the degree includes satisfactory courses in biology and chemistry are admitted to the sophomore year.

Graduates of colleges of dentistry or pharmacy are accorded such standing as their credentials warrant.

Graduates of colleges of homeopathy or eclectic medicine requiring a four years' course are admitted to the senior year.

Students of other medical colleges in good standing are admitted to the class to which credentials issued by such colleges entitle them, only on presentation of certificate of honorable dismissal.

In all such cases credits equal to those required by this college for admission must be furnished by the applicant.

COURSES AND METHODS OF INSTRUCTION

The course of study covers four years of about nine months each. During the first two years those strictly scientific branches are pursued which form the basis for the technical studies of the last two years. By independent work in the laboratory, which alone is accepted, the student acquires positive knowledge. Each student must do the work himself, as none of the courses are mere demonstrations. Its independent and satisfactory completion is insisted upon. In no other way than by actual performance can the student acquire that knowledge and skill which are essential for successful pursuance of the technical work. This objective method of instruction is followed not only in the laboratory study of the first two years but also in the clinical work of the last two, which makes constant use of the facts acquired from the laboratory teaching in the fundamental branches.

The courses embrace also didactic and clinical lectures in which by charts, models, experiments, demonstrations and other appropriate means an effort is made to broaden the mind of the student and to coordinate the facts acquired in the laboratory. Frequent quizzes and examinations are employed to test the progress of the student in each line of work. Constant and intense application is necessary to achieve proficiency. It is the aim to keep each student informed at all times regarding his standing in every branch so that no topic can be passed unless thoroughly mastered.

The small size of the classes permits of personal instruction in every topic. Each student stands continually in close touch with his instructors and obtains the best information that can be given.

The work in Lincoln is given in the various university laboratories, which are well equipped with the necessary apparatus. Further details may be found in the calendar under "equipment."

THE COLLEGE BUILDING IN OMAHA

The college building, completed in 1899, embodies the best features of modern medical school buildings. It is a brick and stone structure, four stories in height, with basement, furnished with steam heat and electric lights. The first story contains a large students' lobby and the free dispensary, the latter comprising a waiting room for patients, a drug room and numerous clinic rooms for the systematic examination and treatment of patients.

The second floor contains an amphitheater with seating capacity for 250 students. It also contains the library, the reading room, the X-ray room and a commodious coat room.

The third floor, besides a smaller amphitheater provided with a stationary table to which gas and running water are supplied for practical demonstrations in chemistry, contains the dissecting room, accommodating 100 students, and the new chemical laboratory, which is a room fifty by thirty feet. There are also private rooms for the professors of anatomy, chemistry and biology.

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

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

By these arrangements it has been found possible so to individualize the laboratory work that whenever a student finds a spare hour he can resort to the laboratory and utilize it profitably.

With the transfer of the entire work of the first two years to Lincoln, much additional space will be set free for the expansion of the advanced work.

CURRICULUM

SIX-YEAR COMBINED COLLEGIATE AND MEDICAL COURSE

The entrance requirements are those of the college of literature, science and the arts or of the industrial college, given in the undergraduate bulletin.

Whenever it is possible, the student is advised to take this work, which leads to the bachelor's degree at the conclusion of four years, and to that of doctor of medicine at the end of six years. The work in Lincoln is known as that of the pre-medical group, and was adopted by the board of regents April, 1902, on recommendation of the faculty of the university. The work in the group lays a broad foundation for the technical work of the last two years and gives the student not only the best possible training but also the advantages which accrue from the possession of the bachelor's degree.

The work of the course is as follows:

First Year		*Second Year*	
Mathematics, 1, 2*	5 hrs.	Botany, 1, 2	2 hrs.
Modern language (German)	5 "	Chemistry, 3, 4	3 "
Chemistry, 1, 2	2 "	Zoology, 5, 8	4 "
Zoology, 1, 2	3 "	Modern language	5 "
English, 1, 2	2 "	Osteology, hygiene	2 "
Total	17 "	Total	16 "
Third Year		*Fourth Year*	
Botany, 19, 20	2 hrs.	Human Anatomy	4 hrs.
Physiology	2 "	Bacteriology	2 "
Zoology, 9, 10	3 "	Physiological chemistry.	3 "
Physics, 1, 2	3 "	Physics, 3, 4	2 "
Military science	1 "	Psychology	3 "
Human anatomy, 4	5 "	Advanced physiology	2 "
Total	16 "	Total	16 "

* The numbers designate the courses listed in the undergraduate bulletin.

FOUR-YEAR MEDICAL COURSE

The curriculum embraces four years of graded instruction of eight to nine months each, known as the freshman, sophomore, junior and senior years, and is outlined in the following synopsis, which must be conformed to by all students. The year is divided into two semesters approximately eighteen weeks each.

Examinations are held in all the work covered at the end of each year. Students failing in any of the final examinations of the year must pass such examinations either at the opening of the ensuing session or during the Christmas vacation following. Students failing in more than one-third must take the entire work again.

Freshman Year

	CREDIT HOURS*
Anatomy	4 hrs.
Chemistry	2 "
General physiology	2 "
Bacteriology	2 "
Pharmacology	2 "
General and medical zoology	3 "

Sophomore Year

	CREDIT HOURS
Anatomy	4 hrs.
Chemistry, organic and physiological	4 "
Special physiology	2 "
Histology and embryology	2 "
Hygiene and physical diagnosis	2 "
Pathology	2 "

Junior Year

Therapeutics	2 hrs.
Medicine	4 "
Surgery	4 "
Obstetrics	1 "
Pathology (special)	2 "
Medical jurisprudence	1 "
Physical diagnosis	1 "
Surgical anatomy	1 "
Physiological chemistry.	1 "
Electro-therapeutics	1 "
Bandaging and surgical dressings	1 "

Senior Year

Medicine	4 hrs.
Surgery	4 "
Obstetrics	2 "
Diseases of children	1 "
Nervous diseases	1 "
Insanity	1 "
Medical jurisprudence	1 "
Orthopedic surgery	1 "
Dermatology	1 "
Genito-urinary and rectal surgery	1 "
Gynecology	1 "

*One credit hour involves a total of three time hours of work in class room, laboratory, library and study.

Junior Year—Con.

General clinics—
a Medical ..... 3 hrs.
b Surgical ..... 3 "
Special clinics ..... 1 "
In the following subjects: Opthalmology and otology, genito-urinary diseases, diseases of children, laryngology.

Senior Year—Con.

Ophthalmology and otology ..... 1 hr.
Laryngology and rhinology ..... 1 "
Dental surgery .....6 lectures
General clinics—
a medical; 2 hrs. in the college and 2 hrs. in the Douglas and Immanuel hospitals.
b Surgical: 2 hrs. in college and 2 hrs. in Douglas, Omana, Immanuel and Clarkson hospitals.
Special clinics—
1 hr. in ophthalmology and otology in Omaha hospital; 1 hr. in college in the following subjects: Genito-urinary and rectal surgery, diseases of children, dermatology, gynecology, laryngology and rhinology. Obstetrics—Each student will have an opportunity for attending or assisting in two or more confinements during the year.

INSTRUCTION

ANATOMY

PROFESSOR WARD, ASSISTANT PROFESSOR WOLCOTT, MR. ——

The object of this department is to teach the subject of human anatomy in a thorough—hence practical—manner, and to present it in the most modern, strictly scientific form. To insure the former, the student is expected to spend three hours per day during the first two years of his course in the laboratory, and to make a satisfactory grade in recitations. These consist of daily individual quizzes upon the subject, weekly sectional quizzes, with or without the subject, a thorough demonstration by each individual student at the close of each dissection of a part, and occasional review quizzes to test the student's ability to retain the knowledge gained. The lectures supplement the laboratory work, and in them are discussed such facts drawn from comparative vertebrate anatomy, from the different types of mankind, and from the study of human anomalies, together with such occasional references to embryology, as enables the student to understand the structure of the human body, while finally, emphasis is laid upon the general facts derived from the study of the body as serve to correlate details learned by laboratory dissection and to give the student a clear conception of the body as a whole. The careful formal presentation of some circumscribed topic is required of each student before credit is given for the course, as a final test of his grasp of the subject.

To assist the student in his work, charts, models, anatomical preparations, and carefully selected works of reference are close at hand where the student can make immediate reference to the same.

First year's course. Assistant professor Wolcott. Two hours devoted to lectures, demonstrations and quizzes, and nine hours laboratory work, each week.

Beginning with a series of introductory lectures, accompanied

by demonstrations and practical work on the dog, the student is first made acquainted with the technic of the subject. Upon the human body the subjects are myology and arthrology, and with the aid of the skeleton that of osteology, are covered this year. The laboratory work includes dissection, drawing, the study of gross serial sections and modeling of bones.

Second year's course. Assistant professor Wolcott. A continuation of the preceding. The subjects covered are angiology, splanchnology, neurology, regional anatomy, the latter affording an opportunity for correlating the facts gained by the student during his two year's course.

BOTANY

PROFESSOR BESSEY, MR. METCALF

Pharmaceutical botany and the *elements of pharmacology.* These subjects are combined in a single course, in which the student is made familiar with the structural characteristics of the principal drugs derived from plants, their preparation, and physiological effects. The course consists of two lectures and text-book exercises, and two periods of laboratory work each week throughout the year. Professor Bessey and Mr. Metcalf.

Laboratory bacteriology. The purpose of this course is to give the student a practical knowledge of the nature of bacteria, their relation to disease, and the modern methods of study employed in the laboratory. It includes two lectures and text-book exercises and four hours of laboratory work each week throughout the year. Mr. Metcalf.

CHEMISTRY

PROFESSOR NICHOLSON, PROFESSOR WHITE, PROFESSOR AVERY

These courses serve to give the student a general survey of the field of chemistry, both inorganic and organic, including the nature of chemical processes and the use of chemical apparatus.

All instruction is by the lecture-laboratory method. Lectures prepare the student for his laboratory work and emphasize and co-ordinate the facts which he there learns.

Advanced students, who have the necessary experience and knowledge, are admitted to research work under the guidance of some member of the department staff.

COURSES

Metallic or base-forming elements. A careful study of the occurrence, methods of preparation, and properties of the common elements and their chief compounds. Two hours throughout the year. Professor Nicholson.

Elementary organic chemistry. A discussion of the important classes of organic substances, supplemented by the preparation, in the laboratory, of typical compounds. Two hours throughout the year. Professor Avery.

Physiological chemistry. A study of the organic compounds and chemical processes of physiological importance. Especially useful in subsequent study of practical medicine. Two hours throughout the year. Professor White.

PHYSIOLOGY

DOCTOR LILLIE

General physiology. Two lectures and three hours laboratory work weekly throughout the year. Doctor Lillie.

General and chemical physiology, blood and circulation, muscle and nerve. Respiration, digestion, secretion and excretion, nutrition, metabolism.

The laboratory is equipped with the ordinary physiological apparatus and the work is planned so that each student shall perform a series of experiments and not merely witness demonstrations by an instructor or assistant.

Special physiology. The physiology of the nervous system and special sense organs with laboratory experimentation on the same. Two lectures and three hours of laboratory work throughout the year. Doctor Lillie.

ZOOLOGY

PROFESSOR WARD, ASSISTANT PROFESSOR WOLCOTT, MR. WILLARD, DOCTOR LILLIE

The laboratory is well equipped with Zeiss and Leitz microscopes, Reinholt-Giltay, Minot and Thomas microtomes; Lillie and Naples paraffin baths, and various subsidiary apparatus, together with a supply of glassware, reagents, etc., demanded for the work. The departmental library immediately adjacent to the laboratory and freely accessible at all times is supplied with 2,000 works on animal morphology and physiology. A series of specimens from the Naples zoological station, one of injected tissues by Thiersch and embryological models by Ziegler and Dahlgren are among the illustrative material at hand. The work is divided as follows:

Introduction to animal biology and medical zoology, Professor Ward and Mr. Willard. Two lectures, a quiz and four hours of laboratory work per week throughout the year.

The course begins with the fundamental properties of protoplasm, the structure and activities of the cell, its division, the maturation and fertilization of the reproductive cells; their development and differentiation into germ layers, tissues, organs, and animals. The foundation is thus laid for the work in anatomy, embryology, histology and physiology, and the course concludes with a study of those animals which are of special interest in clinical work, particularly haematozoa and helminthes.

Normal histology. Doctor Lillie. One lecture, a quiz and six hours of laboratory work for the first semester.

The microscopic structure of tissues and organs is studied in detail and illustrated by drawings, models and demonstrations with lantern and projection microscope. The student also becomes acquainted with the standard methods for preparing such objects, and acquires a set of typical microscopical preparations on histology.

Vertebrate embryology. Professor Ward and Mr. ——. One lecture, a quiz and six hours of laboratory work for the second semester.

The lectures give a brief survey of general embryology and a

detailed review of the development of man. The higher vertebrates are constantly drawn upon for comparative evidence. The laboratory work employs the frog, chick, and pig for different stages and introduces methods of graphic and plastic reconstruction.

LABORATORY INSTRUCTION IN OMAHA

ANATOMY

This work is under the direction of an efficient corps of demonstrators, and each student is expected to pass an examination upon the part dissected.

For the purpose of stimulating a desire for proficiency in this important department, the five sophomores who receive the highest marks in their final examination in anatomy are appointed assistants to the demonstrator for the ensuing session. This exercise, which requires only one evening each week, affords a favorable opportunity for more completely mastering the subject of anatomy. The appointees for the session of 1902–1903 are: Fred W. Karrer, Robt. C. Panter, P. M. Pedersen, Francis Petr.

The dissecting room in the new building is commodious and provided with abundant ventilation. While it is thoroughly lighted for work during the day, most of the dissecting is done during the evening in order to avoid annoying interruptions. Each dissecting table is supplied with two adjustable electric lights.

PRACTICAL CHEMISTRY

The laboratory is under the personal supervision of the professor of chemistry, aided by his assistants. It is large and most completely fitted. It accommodates 100 students at a time. It is abundantly supplied with apparatus, gas and water throughout. The work is divided as follows:

FRESHMAN YEAR.—The first half is devoted to experimental work in the gases, metalloids and metals. An effort is made to familiarize the student with methods of experimenting and the

proper deductions to be drawn from the same. The last half of the year is devoted to tests and analyses. The student is taught to determine the existence of all the common metals and acids in any inorganic mixture.

SOPHOMORE YEAR.—The first half is devoted to the formation of certain organic preparations of interest to physicians, as chloroform, iodoform, acetic acid, formaldehyde and others. The last half of the year is devoted to the study of common poisons and adulterations, and the student is taught to make tests according to Dragendorf's system of determining same; also, an elementary consideration of urine analysis. The course occupies two lectures and one laboratory session through the year.

JUNIOR YEAR.—This year is devoted to a consideration of the elements of physiological chemistry. This includes a complete discussion of urine analysis, analysis of stomach contents, faeces, blood and the pathological significance of these under abnormal conditions. This course occupies two hours per week in laboratory throughout the year.

BIOLOGY AND EMBRYOLOGY

The course in biology and embryology consists of lectures and laboratory work three hours per week during the entire year. The laboratory work in biology includes the study of the typical forms of animal and plant life, beginning with amoeba and yeast cell, and ending with frog and flowering plant. The laboratory work in embryology includes the preparation and mounting of the chick in all stages, both in series and as whole specimens, together with special study of prepared series of frog and porcine embryos. The lectures cover the field of general biology and human embryology.

PRACTICAL HISTOLOGY

The histological laboratory is under the direction of the professor of histology. Each student is furnished with a microscope and all apparatus necessary to enable him to become practically familiar with the most approved methods of microscopical technology, as well as with the normal histology of all

the tissues and organs. Each student is immediately and personally taught the use of the microscope and its attachments, hardening, section cutting, and the staining and mounting of normal tissues and their differentiation.

PRACTICAL PATHOLOGY

In this department the students, both in the sophomore year in general pathology and in the junior year in special pathology, are under the immediate instruction of Professor ———. In the course of general pathology the sophomore class is carried through a carefully chosen series of studies covering all the general pathological conditions, and as a result of their labors acquire a knowledge of these conditions, and also a collection of slides, properly labeled, which remain their property and may be preserved for future reference.

The junior class, in their special pathology, occupy a portion of their time in the study of specimens furnished by the professor. They are also required to bring pathological specimens, usually obtained from our clinics and dispensaries, and prepare them for microscopical examinations.

PRACTICAL BACTERIOLOGY

This course consists in didactic lectures, in which the natural history of bacteria, infection and immunity, the principles of sterilization and disinfection and their relation to disease are explained. A practical laboratory course is also given, in which the student becomes familiar with the preparation of culture media, methods of cultivating, staining and studying fully the important species of pathogenic micro-organisms.

A projection apparatus, fitted both for lantern slides and microscopical sections, was recently added to the already well equipped department. By means of this the microscopical slides, after they are prepared by the class, may, in a moment's notice, be projected upon the screen before the students, and all the features demonstrated at once.

X-Ray.—A static machine of the latest Morton-Wimhurst-Ho[illegible] pattern has been purchased and installed in the building. This

is a ten-plate machine, the largest in the west. It is supplied with all the attachments for neuropathic work and supplementary accessories for X-ray work in all its branches. The power is supplied by an electric motor. A simple static apparatus has also been provided for use in the introductory study of the principles involved in the use of the large and complicated machine. It is the purpose of the college to give the senior students the most thorough instruction in static, as well as all other forms of electricity, including practical work in radiography.

CLINICAL INSTRUCTION

After laying the foundation work, in a medical education, which is included in the studies of the first and second years, the practical part of the student's career is found in clinical instruction. Here is the field in which the student is brought face to face with cases in all departments of medicine, and it is in proportion as the opportunities offered are ample that he becomes the better qualified to take up the work in actual practice after graduation. The means to this end at the exclusive command of the college of medicine are unexcelled even in the largest cities. The 175,000 population of Omaha and South Omaha, with their great manufacturing industries, furnish to the hospitals a great variety of cases in all branches of medicine and surgery. Unusual opportunities are offered in instruction in accidental and railway surgery. In obstetrics there are exceptional advantages, and every senior student before receiving his degree is expected to attend at least two cases of confinement, and many students in the past have attended at least a dozen cases. Thus each graduate is familiarized with the phenomena of normal and pathological labor before undertaking this delicate duty entirely on his own responsibility.

THE COLLEGE OF MEDICINE DISPENSARY

The college dispensary is open daily except Sundays at the college building for free treatment of the indigent sick. By this means a large number of cases are obtained for clinical purposes. These cases include every variety of medical and surgical disease, and are precisely such as form the great majority of

those met with by the general practitioner in his daily rounds. The dispensary is open throughout the year, and students who remain in the city during the vacation period have the privilege of regularly attending this clinic, and find it greatly to their advantage to do so.

In gynecology special advantages are offered, as the clinic is very large. The senior class is divided into sections of two or three, and each section is in turn personally instructed for a definite period in examining the cases, which present every variety of minor and major gynecology.

A large number of obstetric cases are assigned to the members of the senior class, under the direction of Professor Somers. The student has practically charge of the normal cases, and in cases of complication, mal-presentation, the necessity for operative interference, or in puerperal diseases, he has the direct assistance of the professor.

The plan for utilizing the clinical material found in the dispensary is as follows: A member of the senior class is detailed each week to the medical department, and one to the surgical. Each of these seniors is provided with two assistants from the junior class. As new cases present themselves they are personally examined by the senior in charge, who dictates a clinical history of the case, which is recorded by his assistants. Subsequently he presents the case in the clinical amphitheater, where, under the guidance of the professor, instructive, obscure and difficult points in diagnosis and treatment are elucidated.

In the dark-room for eye, ear, nose and throat work, numerous lights are provided, at which advanced students are given an opportunity to personally examine patients with the ophthalmoscope or appropriate mirrors, and so become familiar with these diseases and the special appliances used in their diagnosis and treatment.

The dispensary drug room is in charge of a skilled pharmacist. Five members of the freshman class are assigned to duty each week as assistants to the druggist. The practical acquaintance with drugs and their combination which they here acquire is of material value in the study of materia medica.

DOUGLAS COUNTY HOSPITAL

This, one of the largest hospitals in the west, was completed several years ago at a cost of $200,000. It has accommodations for 300 patients, and includes a maternity pavilion and a department for the insane. The hospital is under the charge of the board of county commissioners and is practically the charity hospital of Omaha. All departments of medicine find clinical illustration in its wards, and the weekly clinics in the various branches of medicine and surgery give the student exceptional opportunities for direct and personal instruction.

D. F. Lee, M. D., class 1902, hospital physician.

Students of this college are admitted to all clinics held in this hospital.

MEMBERS OF THE STAFF

Internal medicine—Dr. W. O. Bridges, Dr. W. F. Milroy, Dr. S. R. Towne.

Surgery—Dr. A. F. Jonas, A. C. Stokes.

Eye and ear—Dr. H. Gifford.

Gynecology—Dr. Ewing Brown.

Pathology—Dr. ——.

THE BISHOP CLARKSON MEMORIAL HOSPITAL

MEMBERS OF THE STAFF

Internal medicine—Dr. W. H. Christie, Dr. A. W. Edmiston.

Diseases of children—Dr. H. M. McClannahan.

Eye and ear—Dr. H. Gifford.

IMMANUEL HOSPITAL

This hospital is beautifully located, well equipped according to modern ideas, and adapted to the application of scientific methods in the treatment of patients. It contains an operating amphitheater for the students of this college only. The resident physician of this hospital is appointed from each graduating class. The term of service is one year, room and board being furnished by the hospital. In connection with the hospital is a training school for nurses.

P. E. James, class 1902, resident physician.

Medical clinics are held here Saturdays, in alternation with Douglas county hospital, by Professor Milroy. Professor Davis holds a surgical clinic Saturdays throughout the term.

MEMBERS OF THE STAFF

Internal medicine—Dr. W. F. Milroy, Dr. W. H. Christie.
Surgery—Dr. B. B. Davis.
Eye and ear—Dr. H. Gifford, Dr. F. S. Owen.
Pathologist—Dr. ——.

THE OMAHA (METHODIST) HOSPITAL

This institution has been so eminently successful that plans are far advanced for a new fire-proof building, with a clinical amphitheater of the most modern type. Excellent advantages are offered the class for instruction in general surgery and diseases of the eye and ear, two clinics each week being held during the college course. There is a nurses' training school connected with the hospital.

A. W. Carlile, class 1902, resident physician

Surgical clinics are held Wednesdays by Professor Jonas; eye and ear clinics Wednesdays, 2:00 to 3:00 P.M., by Professor Gifford; medical clinics by appointment by Professors Gibbs and Bridges.

MEMBERS OF THE STAFF

Surgery—Dr. A. F. Jonas.
Internal medicine—Dr. W. S. Gibbs, Dr. W. O. Bridges.
Eye and ear—Dr. H. Gifford.

LIBRARIES

IN OMAHA

A neatly furnished and comfortable apartment is provided as a quiet place for study at odd hours. This is also the home of the college library. This library has but recently been established and is under the supervision of Dr. G. L. Strader. It contains about 1,000 volumes, including a good, up-to-date collection of text-books covering the entire range of medical science. It is not designed to obviate the necessity of students to possess their own text-books, but it enables them to investigate points

in which they are specially interested more fully than they otherwise could do. A good supply of periodical literature is on file. The library is equipped with a case of recent design for a card index, and the work of indexing, upon this system, is in progress. A librarian is in attendance at convenient hours.

The Omaha public library contains sixty thousand volumes, including a very good medical library. The use of it is extended to students in the college, free of charge.

IN LINCOLN

The university library, and that of the state historical society on the campus, the state library at the capitol and the Lincoln city library in the new Carnegie building, contain together 120,000 volumes, are easily accessible to students, and all contain works of general and special importance to the medical student. The first is strong along the scientific lines which are the particular work of the student in his first two years, having special departmental libraries in botany, chemistry, hygiene, physiology and zoology. The Lincoln city library contains that of the state medical society. The university library has a special medical alcove for the use of the school.

PRIZES

The faculty offers the following prizes this year:

1. To the member of the graduating class receiving the highest total of marks in the final examinations, a general surgical operating case. This prize was awarded this year to B. W. Christie, and honorable mention was made of Grove Rathbun and P. E. James.

2. To the student who shall prepare the best dried anatomical preparation, a pocket instrument case. All preparations offered in competition for this prize shall become the property of the college museum and be labeled with the name of the maker. This prize shall not be awarded unless the specimens offered possess sufficient merit, as determined by a committee consisting of the professors of anatomy and the principles and practice of surgery. Previous successful competitors are excluded. It was awarded this year to J. H. Kerr, class of 1903.

3. Professor Gifford offers as a prize a Loring's ophthalmoscope

to the member of the senior class most proficient in ophthalmology. It was awarded this year to Grove Rathbun.

4. Professor Jonas offers as a prize a medal to the member of the senior class most proficient in surgery. It was awarded this year to John A. Peters.

5. The J. Cameron Anderson prize, a gold medal, is offered to the member of the senior class most proficient in genito-urinary and rectal surgery. This prize this year was awarded to C. W. M. Poynter.

SOCIETIES

A medical society has been organized among the students in Lincoln for the mutual advantage of members. It has lectures by prominent men on topics of special interest to the student of medicine and aims to afford some social opportunities.

The alumni association of the college of medicine maintains an active and efficient organization, of advantage to both the graduates and the university. The annual meeting is held in Omaha on commencement day.

OFFICERS ALUMNI ASSOCIATION, 1902

M. A. TINLEY, '02 ..... *President*
Council Bluffs, Iowa.

B. W. CHRISTIE, '02 ..... *First Vice-President*
Omaha, Nebraska.

H. A. REICHENBACH ..... *Second Vice-President*
Omaha, Nebraska.

GEO. H. BICKNELL, '95 ..... *Secretary and Treasurer*
Omaha, Nebraska.

Members of the association are earnestly requested to notify the dean of the college and the secretary of the association of changes in location. It is especially desired that the annual meeting be largely attended, and a good representation be at each commencement.

FEES

All fees and charges are payable in advance at the finance office of the university in Lincoln or at the office of the associate dean at the college building, in Omaha. No part of fees can be refunded to students who leave during the session, but in

case the same work is taken up again no additional charge will be made for the part which was omitted.

The following schedule of fees for the college of medicine is in force for 1902–1903:

Matriculation fee ..... $ 5 00
Diploma fee 5 00

The by-laws of the board of regents prescribe that no person shall be recommended for degree until he has paid all dues, including the fee for the diploma.

Special certificate of standing ..... $ 5 00

FIRST YEAR

Tuition fee 25 00

LABORATORY FEES

Anatomy $20 00
Botany and pharmacology 3 00
Chemistry 10 00
Histology 7 50
Physiology 3 00
Zoology, general and medical 3 00

FOR THE STUDENTS IN OMAHA

The schedule of fees in force prior to May 1, 1900, will continue to apply to all persons who were then matriculates of this college.

THIRD YEAR

Fees for all the required exercises of the year, including all hospital clinics and laboratories $75 00
Examination fee 10 00

FOURTH YEAR

Fees for all the required exercises of the year, including all hospital clinics and laboratories $75 00
Examination fee 10 00

Breakage in the laboratory and damage to the college property is charged to the individual or class responsible for the same, and in case the damage cannot be located to the class pro rata.

All fees are payable strictly in advance when the session opens. Students will not be entitled to appear for any one of the final examinations until all fees are paid.

A graduate of any recognized medical college, who may desire to attend this college, may be permitted to do so on the payment of a fee of $10.00.

Choice of seats is assigned in the order of matriculation, and choice of microscopes and desks in the order of the presentation of receipts for laboratory fees. Parts for dissection are assigned to students in the order of payment of their entire fees for the session. The fees are payable when the session opens, at the college building. Notice of hours will be bulletined.

GRADUATION

The following are the requirements for the degree of doctor in medicine:

1. The candidate must be twenty-one years of age. He shall have complied with all the requirements for admission, and not be delinquent in any portion of his fees. His moral character must be unquestioned. He must have completed all required courses and have passed a satisfactory examination on all required studies in the full curriculum.

2. He must have pursued the study of medicine four years, and have received credit for at least four full courses of instruction in different years at medical schools in good standing. The last course must have been in this institution.

3. Every candidate for graduation must undergo a full and satisfactory written and oral examination at the termination of the course.

MISCELLANEOUS INFORMATION

FOR THE STUDENTS IN OMAHA

By calling at the college building, corner Twelfth and Pacific streets, on arrival in the city, students will be materially aided in securing rooms. The college is reached by walking one block south and two west from the Union and Burlington depots at Tenth and Mason streets, and by taking the Thirteenth street car line south at the Webster street depot, getting off at Pacific street. Baggage should be left checked at the depot until rooms are secured and save the expense of transfer.

A special season ticket is issued by the Y. M. C. A. of Omaha to students of the college of medicine. This admits them, at

very small cost, to the elegant baths, gymnasium, parlors, lectures, concerts and many other valuable privileges to be found in the magnificent association building.

The cost of living in Omaha varies from three to five dollars per week, or more, according to the means and habits of the student. Very successful students' clubs have furnished a pleasant and economical mode of living.

A growing interest in the athletic association among the students is apparent in recent years. In approving recognition of this the trustees have constructed, in the basement, for the use of the football team, a shower-bath with suitable dressing rooms adjoining.

It is a well known fact that among medical students there are always some whose circumstances do not enable them to lodge in the most opulent quarters. Since the new bath in the college building is supplied with hot as well as cold water, it may be comfortably used throughout the year, and is freely at the disposal of any member of the college who may find it agreeable to use it.

FOR THE STUDENTS IN LINCOLN

Board and lodging may be obtained in private families at a cost of from $3.00 per week upward. Numerous student clubs are also organized. In September a canvass of the city is made by the Y. M. C. A. and Y. W. C. A., at whose rooms a list of boarding places can always be secured. These associations render valuable assistance to new students in finding accommodations. The Y. M. C. A. also maintains an employment bureau, the services of which are free to all students. Many opportunities for work exist in a city the size of Lincoln, and many students defray a part of their own expenses. But the university guarantees employment to no one, and no one should plan to enter upon the work of the university unless he has resources for one semester's work, about $125.

Students in the college of medicine have the privileges of other students in the university. The gymnasium is open to them with the advice of the director as to the character and amount of physical exercise adapted to each case. Well equipped baths in the armory are open daily at regular periods. Military drill is also offered, though not required of the medical student.

Opportunities in athletics are afforded in every sort of sport, and there is abundant occasion to witness as well as engage in athletic games of high rank.

For further information address,

DEAN HENRY B. WARD,
The University of Nebraska,
Lincoln, Nebraska.

Or if the information desired relates to the Omaha branch or department of the College of Medicine,

Address,

DOCTOR EWING BROWN,
12th and Pacific Streets,
Omaha, Nebraska.

STUDENTS — 152

FOURTH YEAR—39

Men—37	Women—2
Barnes, F. M.	Kennedy, R. R.
Bartholomew, G. F.	Kerr, William
Benson, H. W.	Keyes, E. C.
Carlile, A. W.	Kruse, F. W.
Chapman, Wm. H.	Lee, D. A.
Christensen, C. J.	Lemar, F. A.
Christie, B. W.	McDowell, M. B.
Cooper, A. H.	Mantor, Hugh
Craft, W. T.	Moore, Milan S.
Drummer, Miss Frida	Morsman, C. F.
Fitzsimmons, A. W.	Peters, Jno. A.
Fleetwood, E. J.	Poynter, C. W. M.
Griffiths, D. G.	Rathbun, Grove
Hansen, J. E.	Reid, David J.
Hanson, F. H.	Reid, J. Dick
Henderson, Miss F. D.	Rundstrum, David
Henninger, Louis L.	Tinley, Mathew A.
Hully, H. D.	Tornholm, Frank
James, F. E.	Van Fleet, E. A.
Jones, W. Y.	

THIRD YEAR—41

Men—37	Women—4
Agee, James C.	Job, Miss Clatilla B.
Bartlett, A. L.	Jungbluth, E. C.
Beck, F. L.	Koetter, Max J. H.
Black, Emil C.	Kuhl, A. B.
Byman, R. A.	Lemar, Clair
Chambers, Oliver	McClymonds, Robt.
Davies, J. S.	Martin, Jos.
Erickson, Miss Christine	Morison, C. C.
Gage, Earl	Neal, H. F.
Graham, Jas. R.	Nielsen, Miss Marie
Harrison, J. H.	Osborn, T. E.
Isaacs, David	Platt, Owen D.
Iverson, J. C.	Pryer, Lee
Jensen, Frank	Rice, Mrs. Rose H.
Jensen, J. P.	Root, Chas.

Smersh, Otto
Smith, J. W. B.
Spear, Geo. E.
Stuckey, R. S.
Townsend, F. E.
Truelson, Thos.
Tweedy, Wm. A.
Vance, V. Verne
Walker, Joseph G.
Warner, H. P.
Wherry, Wm. P.

SECOND YEAR—42

Men—42	Women—0
Allibund, Geo. A.	Meisenbach, Jacob
Bellinger, S. W.	Merkel, Arthur E.
Bening, Jno. F.	Merritt, E. A.
Brush, E. L.	Nelson, N. D.
Campbell, Ross	Nye, Mark A.
Decker, J. C.	Orr, J. T.
Dempster, Roy P.	Overstreet, Clifford S.
Dickinson, Wm. E.	Panter, R. C.
Duncanson, J. H.	Patton, Jas. McD.
Edwards, J. A.	Pearse, Arthur S.
Eby, C. D.	Pederson, P. M.
Gates, Frank V.	Penner, H. I.
Gillett, Frank A.	Penner, Louis
Hart, John F.	Petr, Francis
Hummer, W. L.	Prest, Jno. E.
Karrer, F. W.	Railey, O. H.
Keckler, Sol. C.	Sample, Tho. E.
Kerr, J. H.	Shaw, Chas. E.
Knode, R. A.	Stuart, A. B.
Kohout, Jos.	Trostler, I. S.
McArthur, Hector	Underwood, R. B.

FIRST YEAR—30

Men—30	Women—0
Adams, Burton A.	Lauzer, E. S.
Anderson, Wm. H.	Lorenson, Paul B.
Baker, Milan D.	McDonald, Grundy
Bushnell, Ama E.	Mason, Claude W.
Caughey, Manley D.	Miller, C. G.
Dolbear, D. M.	Morrison, Geo. A.
Empey, E. S.	Pederson, Hans C.
Flanagan, Fred	Potter, Geo. B.
Garland, H. S.	Rumery, Arthur C.
Heine, Wm. H.	Smith, E. J.
Hohl, Adolph H.	Swoboda, Franz, Jr.
Jeffers, B. F.	Thomsen, John M.
Johnson, Alfred J.	Wainwright, C. J.
Kennedy, C. R.	Walsh, J. M.
Lane, Arthur E.	Wigton, H. A.