

1917

## Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1917-1918

University of Nebraska College of Medicine

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### Recommended Citation

University of Nebraska College of Medicine, "Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1917-1918" (1917). *Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine*. 11.

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Series XXII

No. 11

# Bulletin of The University of Nebraska

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## ANNUAL CATALOG OF THE COLLEGE OF MEDICINE

ANNOUNCEMENT  
1917-18

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Published by the University

April 25, 1917

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.



# Bulletin of The University of Nebraska

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## 1917

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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## 1918

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29	30						27	28	29	30	31			24	25	26	27	28	29	30	29	30	31																

1917

Sept. 14-15—Registration, first semester.  
 Nov. 27-Dec. 1—Thanksgiving Recess.  
 Dec. 22-Jan. 5—Christmas Recess

1918

Feb. 1-2—Registration, second semester.  
 Mar. 30-April 6—Spring Recess  
 June 9-12—Forty-seventh Annual Commencement.

## COLLEGES AND SCHOOLS OF THE UNIVERSITY

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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.

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## THE UNIVERSITY YEAR

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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

1917

September 10-15	Monday-Saturday	Entrance examinations
September 14-15	Friday-Saturday	First semester registration College of Medicine
September 15	Saturday, 8 p. m.	University reception to all students
September 17	Monday	First semester classes begin
September 18	Tuesday, 11 a. m.	Opening address by the Chancellor
November 27	Tuesday, 6 p. m.	Thanksgiving recess begins
December 1	Saturday, 12 m.	Thanksgiving recess ends
December 11	Tuesday	Regular meeting of the Board of Regents
December 22	Saturday, 12 m.	Christmas recess begins

1918

January 5	Saturday, 12 m.	Christmas recess ends
Jan. 26-Feb. 2	Saturday-Saturday	First semester examinations
February 1-2	Friday-Saturday	Second semester registration
February 4	Monday	Second semester classes begin
February 15	Friday	Charter day. Regular meeting of the Board of Regents. Twenty second Annual Mid-Winter Commencement. (In Lincoln.)
March 30	Saturday, 12 m.	Spring recess begins
April 6	Saturday, 12 m.	Spring recess ends
April 9	Tuesday	Regular meeting of the Board of Regents
June 1-8	Saturday-Saturday	Second semester examinations

### Commencement Week

June 9	Sunday	Baccalaureate sermon
June 10	Monday, 10 a. m.	Final recommendation for degrees by faculties
June 10-11	Monday-Tuesday	Class Day. Alumni Day
June 11	Tuesday	Regular meeting of the Board of Regents
June 12	Wednesday	Forty-seventh Annual Commencement. (In Lincoln.)

### Summer Session 1918

June 10	Monday	Summer Session begins
June 14-15	Friday-Saturday	Registration, Summer Session
August 2	Friday, 8 p. m.	Twelfth Annual Summer Session Commencement. (In Lincoln.)

1918-1919

September 13	Friday	First semester College of Medicine begins. (1918-1919)
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## THE BOARD OF REGENTS

1917

HON. FRANK LOUIS HALLER.....	Omaha
Term expires January, 1919	
HON. VICTOR GERALD LYFORD.....	Falls City
Term expires January, 1919	
HON. EDWARD PROVOST BROWN.....	Davey
Term expires January, 1921	
HON. JOHN ESCHLEMAN MILLER.....	Lincoln
Term expires January, 1921	
HON. PHILIP LOUIS HALL.....	Lincoln
Term expires January, 1923	
HON. HARRY DEWITT LANDIS.....	Seward
Term expires January, 1923	

## OFFICERS OF THE BOARD OF REGENTS

HON. FRANK LOUIS HALLER, President

JAMES STUART DALES, Secretary

## COMMITTEES OF THE BOARD OF REGENTS

**Executive**—Messrs. Haller, Lyford, Landis.

**Finance**—Messrs. Hall, Haller, Miller.

**Property**—Messrs. Lyford, Miller, Brown.

**Industrial Education**—Messrs. Brown, Hall, Landis.



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.
- <sup>1</sup>VANCIL KELSO GREER, LL. B., Registrar and University Publisher.  
(*Secretary of the Faculties.*)
- FLORENCE IRWIN MCGAHEY, A. B., Acting Registrar and University Publisher. (*Secretary of the Faculties.*)
- 
- AUGUST ERNEST GUENTHER, Ph. D., Professor of Physiology.
- CHARLES WILLIAM McCORKLE POYNTER, B. Sc., M. D., Professor of Anatomy. (*Head of Department.*)
- WILLIAM ALBERT WILLARD, Ph. D., Professor of Anatomy.
- JAMES DOUGLAS PILCHER, Ph. B., M. D., Professor of Pharmacology.
- HAROLD E. EGGERS, B. Sc., M. D., Professor of Pathology and Bacteriology.
- 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 Otolaryngology.
- 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 Emeritus of Obstetrics.
- SOLON RODNEY TOWNE, A. M., M. D., Professor of Hygiene and State Medicine.
- <sup>1</sup>JOSEPH MELANCHTHON AIKIN, M. D., Professor of Nervous and Mental Diseases.
- PALMER FINDLEY, A. M., M. D., Professor of Gynecology and Operative Obstetrics.

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<sup>1</sup>Resigned.

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.

G. ALEXANDER YOUNG, M. D., Professor of Nervous and Mental Diseases.

AMOS W. PETERS, A. M., 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.

ALDIS ADELBERT JOHNSON, Ph. B., M. D., Assistant Professor of Clinical Pathology and Superintendent of Dispensary.

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

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

JOHN TENNYSON MYERS, A. B., M. S., Instructor in Bacteriology.

ALFRED OLAF PETERSON, A. M., M. D., Instructor in Internal Medicine.

HENRY BASSETT LEMERE, M. D., Instructor in Ophthalmology and Otology.

ERNEST TIBBETS MANNING, M. D., Instructor in Pathology.

WILLIAM PENALUNA WHERRY, M. D., Instructor in Laryngology and Rhinology.

- CHARLES AARON HULL, M. D., Instructor in Surgery.
- JAMES McDOWELL PATTON, A. M., M. D., Assistant Professor of Ophthalmology and Otology.
- WILLIAM NANCE ANDERSON, B. Sc., M. D., Instructor in Physical Diagnosis.
- HOWARD BROWNLEE HAMILTON, M. D., Instructor in Medicine.
- JOHN BEEKMAN POTTS, M. D., Instructor in Ophthalmology and Otology.
- WILLIS HARVEY TAYLOR, B. Sc., M. D., Instructor in Obstetrics.
- CARL HARDIN BALLARD, M. D., Instructor in Dermatology and X-ray Diagnosis.
- CHESTER HILL WATERS, B. Sc., M. D., Instructor in Gynecology.
- ROBERT D. SCHROCK, A. B., M. D., Instructor in Orthopedic Surgery.
- FRANK MATTHEW CONLIN, M. D., Instructor in Medicine.
- CHARLES CREIGHTON TOMLINSON, M. D., Instructor in Dermatology.
- GEORGE PRATT, B. Sc., M. D., Instructor in Medicine.
- AMOS THOMAS, LL. B., Instructor in Medical Jurisprudence.
- JOHN CLYDE MOORE, JR. B. Sc., M. D., Instructor in Medicine.
- CLARENCE RUBENDALL, B. Sc., M. D., Clinical Assistant in Laryngology and Rhinology.
- HARRIET WILSON, A. B., Librarian of Medical College Library.
- HARRISON ALONZO WIGTON, B. Sc., M. D., Clinical Assistant in Pediatrics.
- JOHN RUDOLPH NILSSON, M. D., Clinical Assistant in Surgery.
- ARCHIBALD ROY KNODE, M. D., Clinical Assistant in Ophthalmology and Otology.
- ADOLPH BERNARD LINDQUEST, A. B., M. D., Clinical Assistant in Ophthalmology and Otology.
- LYNN THOMPSON HALL, B. Sc., M. D., Clinical Assistant in Medicine.
- JOHN FAY HYDE, M. D., Clinical Assistant in Surgery.
- LOUIS EDWIN MOON, M. D., Clinical Assistant in Surgery.
- WILLIAM FREDERICK CALLFAS, C. M., M. D., Clinical Assistant in Ophthalmology.
- CHARLES STANTON JAMES, M. D., Clinical Assistant in Ophthalmology.
- CLYDE AUGUSTUS ROEDER, M. D., Clinical Assistant in Surgery.
- BESSIE B. RANDALL, R. N., Head Nurse in Charge of Free Dispensary.
- EDITH M. PULS, R. N., Assistant Nurse in Charge of Free Dispensary.

RALPH DENNIS GREEN, A. B., Assistant in Biochemistry.  
E. LYNN MACQUIDDY, A. B., Fellow in Anatomy.  
EMELIA BRANDT, Ph. G., Dispensary Pharmacist.  
ELVIN LOUIS SEDERLIN, A. B., Assistant in Anatomy.  
CARL FREDERICK RUSCHE, Assistant in Physiology.  
NIELS NEDERGAARD, A. B., Library Assistant.  
MARGARET FLAVILLA QUINLAN, Stenographer and Clerk.  
IRENE R. BOSTWICK, Clerical Assistant.  
ROBERT GORDON, Technical Assistant in Pathology and Bacteriology.  
JOSEPH KOVARIK, Technical Assistant in Anatomy.  
JOE GOLDSTONE, Technical Assistant in Pharmacology.

**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. Peters.  
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. Eggers (Chairman), Dr. Poynter, Dr. Pilcher.  
Dispensary—Dr. E. L. Bridges (Chairman), Dr. Johnson.  
Publications—Dr. Wherry (Chairman), Dr. Aikin, Dr. Hollister.

OFFICERS OF INSTRUCTION  
IN LINCOLN

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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, Ph. D., Associate Professor of Chemistry.

CLARENCE JACKSON FRANKFORTER, A. M., Assistant Professor of Chemistry.

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 thoro 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.

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. This building, now complete, will be fully equipped and ready to receive patients August 1, 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.

### 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 six years, there being in each of the years thirty-four weeks of class work exclusive of all registration and examination days. During the first four 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 thoroly 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 thoro 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 thoroly 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 an additional 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 additional clinical year is optional.

## ADMISSION TO THE UNIVERSITY AND COLLEGE OF MEDICINE

*Credentials which are accepted towards 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 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**

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 below is essential.<sup>1</sup>

Required Subjects	Points
English.....	4
History (European) (a).....	2
Language (foreign) (b).....	6 to 4
Mathematics (algebra and geometry) (b).....	4 to 6
Science (laboratory)*.....	2
Elective Subjects	
Other subjects taught in an approved manner in an accredited secondary school.....	12
<b>Total</b> .....	<b>30</b>

(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 minimum of four points in either. Greek or Latin is recommended.

### ADMISSION TO ADVANCED STANDING

Admission to 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<sup>2</sup> of college work, including physics, 6 hours; zoology, 6 hours (including vertebrate anatomy); chemistry, 10 hours; German, 10 hours and 30 entrance points.<sup>3</sup> 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 above under "Admission by Certificate," and in the subjects for the amount

<sup>1</sup>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, mechanical drawing, solid geometry, trigonometry, third and fourth year German, French, Greek 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.

<sup>2</sup>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.

<sup>3</sup>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.

indicated above under "Entrance Subjects" are required. 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.

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-six of the two hundred and four 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.

### COMBINED ACADEMIC AND MEDICAL COURSES

COURSE LEADING TO THE DEGREES OF B. SC. AND M. D.—By the use of the laboratory subjects of the third and fourth 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.

## ORDER OF SUBJECTS IN THE SIX-YEAR COMBINED COURSE

	1st Semester		2d Semester	
	FIRST YEAR	Hours	Hours	
Chemistry 1, 2.....		3		3
Zoology 13, 14.....		3		3
Rhetoric 1, 2.....		2		2
German.....		5		5
Pharmacy 26.....				2
History of Medicine.....				
Electives.....		2		
Military Science (men), Physical Education (women)		1		1
		—		—
		16		16
SECOND YEAR				
Physics 11 12.....		3		3
Botany 1, 2.....		3		3
Chemistry 8, 25.....		4		2
Zoology 25, 22.....		3		5
Electives.....		3		3
Military Science (men), Physical Education (women)		1		1
		—		—
		17		17

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 entrance to the study of medicine while pursuing the courses in pharmacy.

## COURSE LEADING TO THE DEGREES OF A. B. AND M. D.

A student registering for the degree of Bachelor of 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.

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.

### 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 third and fourth 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.

### 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.

**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 third and fourth year subjects, and at least 75 per cent in fifth and sixth year 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 DELINQUENCIES

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 re-examination 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 supplementary examination he is "failed" in the course, and shall not have the privilege of 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 instruction by a member of the teaching staff may be accepted in place of attendance at the regular classes.

If a student fails, after repeating a course as provided in the foregoing paragraph, then he shall have no further privileges of instruction or examination 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 Adviser 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.
4. 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 degree 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 throught the year the work shall be under the supervision of two advisers 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.

#### THIRD YEAR

Tuition, first semester.....	\$65.00
Tuition, second semester.....	60.00
Breakage fee.....	10.00

#### FOURTH YEAR

Tuition, first semester.....	\$60.00
Tuition, second semester.....	60.00
Breakage fee.....	10.00

#### FIFTH YEAR

Tuition, first semester.....	\$55.00
Tuition, second semester.....	55.00
Incidental fee.....	10.00

#### SIXTH YEAR

Tuition, first semester.....	\$55.00
Tuition, second semester.....	55.00
Incidental 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. Thru 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 containing a large locker room with 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 an attractive rest room with cloak rooms adjoining.

This floor also accommodates the private laboratories of the department of pharmacology, the operating room for animals, postmortem and preparation rooms, room-size incubator and refrigerator, 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 occupies the entire fourth floor of the laboratory building. The ventilation is perfect and the lighting is ideal,

being supplied by side windows and large north sky-lights. The gross anatomy is carried on in sections in unit rooms designed to accommodate eight students. This arrangement avoids the noise and distraction incident to the grouping of large numbers of students together. Each unit room has an asphalt floor fitted with drain to permit flushing and a sanitary wash-bowl with hot and cold water supply; large black boards, movable dissecting tables and study tables complete the equipment. The State provides adequate material for dissecting purposes and the osteological collection provides each student with the loan of a half skeleton.

The laboratory for microscopical anatomy is planned with special reference to the student's convenience. Each student has an individual desk which faces the north light and is provided with reagent drawers and microscope locker; gas and artificial light are available at each desk when needed. A large individual loan collection in both histology and embryology conserves the laboratory time and insures the opportunity for study of many preparations which are not available for routine work. Binocular dissecting microscopes are used to bridge the gap between macroscopic and microscopic study.

Adjoining the general laboratories of the department are the offices of the department, research and technic rooms, a photographic dark room and a quiz room provided with a projection lantern.

The equipment in special preparations, models and charts is very complete and the library possesses all of the important journals on anatomy and allied subjects.

### 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.

### 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 student 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.

### PATHOLOGY

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.

### 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 of the ordinary class apparatus, 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 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, tho 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 internes 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 thruout 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 thoroly equipped for the application of scientific methods to the treatment of disease. The hospital has 120 beds housed in two buildings, one of which is new and thoroly 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 300 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 thoroly 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 Twenty-fourth 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. Smallpox 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 year's hospital service before entering upon private service.

### 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. Everyday Facts about Tuberculosis, Typhoid, and Cancer.
- Number 3. Hygiene of the Child—Colds, Whooping-cough, Measles.
- 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.

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 over estimated.

**Convocations.** During the year 1916-1917 the Convocation Committee arranged a series of addresses by prominent medical men. Those scheduled for 1916-1917 included 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.*"

Dr. H. J. Prentiss, University of Iowa—"*The Position of the Adult Heart from the Viewpoint of Development.*"

### 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 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 management 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.



## LIBRARIES AND SOCIETIES

**The College of Medicine Library**, in Omaha, contains about 12,000 volumes particularly strong in those scientific lines wherein lie the last four years' work of the student of medicine. There is included a collection of text books covering the entire range of medical science. This does not obviate the necessity of students having their own text books, but offers opportunities for additional reading and study in subjects in which they are specially interested. A splendid collection of periodical literature is also on file. One hundred and thirty standard scientific periodicals are on the regular subscription list. There are also about 10,000 classified 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 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. W. N. Anderson, President; Dr. W. L. Douglas and Dr. I. Tröstler, Vice-Presidents; 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, Phi Rho Sigma and Phi Chi 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, sixth year, and is based upon the scholarship record of the last four years of the medical course.

**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

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 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 scholarship 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 blocking is most thorough in the earlier portions of the curriculum. 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 thruout the curriculum free hours or half days during which capable students are free to elect additional work or otherwise.

SUMMARY OF COURSES OF THE THIRD, FOURTH, FIFTH AND SIXTH YEARS

THIRD YEAR

First Semester

Course	Character	Total Hours	Credit Hours
Biochemistry 1..... (Org. and Phys.)	Lec. Lab. Quiz....	120	3.6
Biochemistry 2..... (Physiological)	Lec. Lab. Quiz....	220	6.6
Anatomy 3..... (Embryology)	Lec. Lab. Quiz....	90	2.7
Anatomy 1..... (Gross Anatomy)	Lec. Lab. Quiz....	165	5.1

Total hours of semester..... 595  
 Total credit hours..... 18

Second Semester

Course	Character	Total Hours	Credit Hours
Anatomy 2..... (Gross Anatomy)	Lec. Lab. Quiz....	340	11.0
Anatomy 4..... (Hist. and Organol.)	Lec. Lab. Quiz....	220	7.0

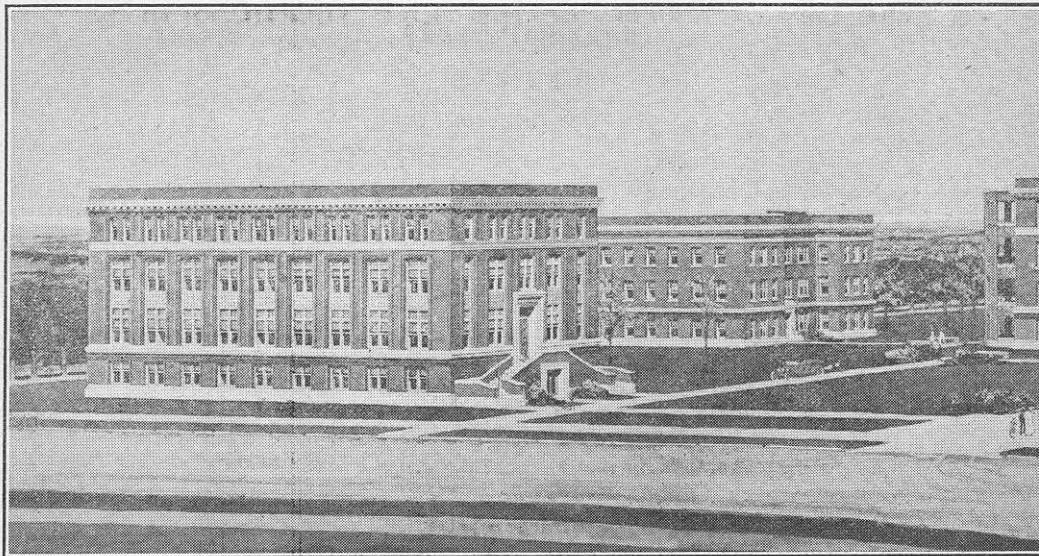
Total hours of semester..... 560  
 Total credit hours..... 18  
 Total hours of third year..... 1,155

FOURTH YEAR

First Semester

Course	Character	Total Hours	Credit Hours
Pathology 1..... (Bacteriology)	Lec. Lab. Quiz....	170	5.8
Physiology 1.....	Lec. Lab. Quiz....	280	9.5
Anatomy 5.....	Lec. Lab. Quiz....	80	2.7

Total hours of semester..... 530  
 Total credit hours..... 18



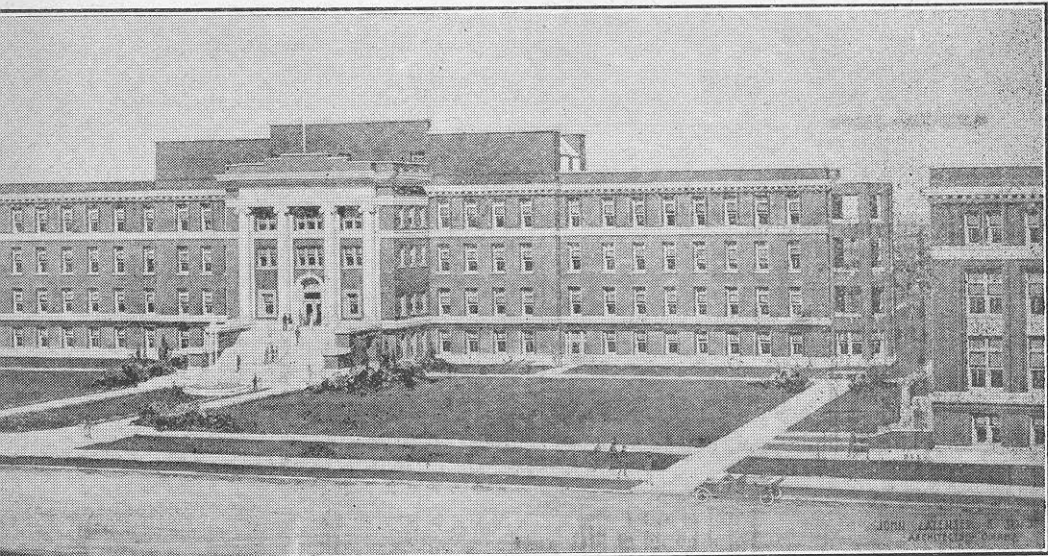
## UNIVERSITY HOSPITAL—CO

This building contains one hundred-twenty beds in ward group units of sixteen beds each, equipped with modern equipment. The operating suite is on the fifth floor with north light and is connected to the main building south provide out-door accommodations for over fifty patients. The hospital is a complete hospital. The hospital is entirely under the control and government of the Board of Regents of the University of Nebraska.

## Second Semester

Course	Character	Total Hours	Credit Hours
Pharmacology 1, 2, 3 . . . . . (Pharmacy, Pharmacodynamics)	Lec. Lab. Quiz . . . . .	187	6.0
Pathology 2 . . . . .	Lec. Lab. Quiz . . . . .	238	8.0
Physiology 3 . . . . . (Applied Physiol. and Phys. Diag.)	Lec. Lab. Quiz . . . . .	56	1.8
Obstetrics 1 . . . . .	Lec. . . . .	32	1.0
Ophthalmology 1 . . . . .	Lec. Dem. . . . .	6	.2
Medicine 2 . . . . .	Quiz . . . . .	32	1.0

Total hours of semester . . . . . 551  
 Total credit hours . . . . . 18  
 Total hours of fourth year . . . . . 1,081



COLLEGE OF MEDICINE, OMAHA

each and adequate isolation room. A commodious pathological department is provided with recovery rooms and a complete X-ray department. Wide porches both to the north and south are attached to the building, each with a teaching unit with every convenience for the comfort and safety of the patients. The University Hospital is operated in connection with the College of Medicine.

FIFTH YEAR  
First Semester

Course	Character	Total Hours	Credit Hours
Internal Medicine 5.....	Lec. Quiz. Clinic...	68	1.5
Internal Medicine 10a.....	Clinic.....	34	.8
Laryng. and Rhinology 1 and 3.....	Lec. Dem.....	18	.5
Pathology 4.....	Lab. Lec. Quiz.....	136	4.0
Internal Medicine 3..... (Physical Diagnosis)	Clinic. Quiz.....	51	2.0
Surgery 9a.....	Clinic.....	34	1.0
Obstetrics 2.....	Lec. Quiz.....	34	1.0
Surgery 1.....	Lec. Quiz.....	68	2.0
Ophthalmology 2.....	Lec. Quiz.....	21	.5
Otology 3.....	Lec. Quiz.....	9	.2
Pharmacology 4..... (Therapeutics)	Lec. Quiz.....	51	1.5
Dispensary.....	Clinic.....	117	3.0
Total hours of semester.....		641	
Total credit hours.....		18	

## Second Semester

Course	Character	Total Hours	Credit Hours
Dispensary . . . . .	Clinic . . . . .	117	3.0
Gynecology 1 . . . . .	Lec. Quiz . . . . .	18	.5
Internal Medicine 4 . . . . . (Physical Diagnosis)	Clinic . . . . .	12	.5
Internal Medicine 6 . . . . .	Quiz. Lec . . . . .	68	2.5
Internal Medicine 10a . . . . .	Clinic . . . . .	34	1.0
Laryngology 2 . . . . .	Lec. Quiz . . . . .	18	.5
Laryngology 4 . . . . .	Clinic . . . . .	3	.5
Nervous Diseases 1 . . . . .	Lec. . . . .	14	.5
Obstetrics 3 . . . . .	Lec. Quiz . . . . .	34	1.5
Pediatrics 3 . . . . .	Lec. Clinic . . . . .	34	1.0
Surgery 2 . . . . .	Lec. Quiz . . . . .	51	1.5
Surgery 8 . . . . .	Lec. Lab . . . . .	51	1.5
Surgery 9a . . . . .	Clinic . . . . .	51	1.5
Surgery 9b . . . . .	Clinic . . . . .	30	1.0
Therapeutics 1 . . . . .	Lec. Quiz. Clinic . . . . .	34	1.0
Total hours of semester . . . . .		569	
Total credit hours . . . . .		18	
Total hours of fifth year . . . . .		1,210	

## SIXTH YEAR

## First Semester

Course	Character	Total Hours	Total Credit
Clinical Clerkship and Dispensary . . . . .	Clinic . . . . .	117	3.3
Ophthalmology 4 . . . . .	Clinic . . . . .	25½	.7
Nervous and Mental Diseases 2 . . . . .	Lec. Quiz . . . . .	18	.5
Nervous and Mental Diseases 3 . . . . .	Clinic . . . . .	17	.5
Internal Medicine 10d . . . . .	Clinic . . . . .	34	1.0
Internal Medicine 10c . . . . .	Clinic . . . . .	34	1.0
Internal Medicine 10e . . . . .	Clinic . . . . .	25	.7
Therapeutics 2, 4, 6 . . . . .	Lec. Clinic . . . . .	34	1.0
Pediatrics 1 . . . . .	Lec. Clinic . . . . .	25½	.7
Genito-Urinary Surgery 1 . . . . .	Lec. Clinic . . . . .	25½	.7
Surgery 9d . . . . .	Clinic . . . . .	34	1.0
Surgery 3 and 9c . . . . .	Clinic . . . . .	34	1.0
Surgery 9f . . . . .	Clinic . . . . .	34	1.0
Surgery 5 . . . . .	Lec. Quiz . . . . .	30	1.0
Obstetrics 4 and 5 . . . . .	Lec. Quiz . . . . .	30	1.0
Gynecology 2 . . . . .	Lec. Quiz . . . . .	40	1.0
Gynecology 4 and 5 . . . . .	Clinic . . . . .	34	1.0
Dermatology 1 and 4 . . . . .	Lec. Quiz. Clinic . . . . .	18	.5
Hygiene 1 . . . . .	Lec. Quiz . . . . .	12	.4
Total hours of semester . . . . .		634	
Total credit hours . . . . .		18	

## Second Semester

Course	Character	Total Hours	Credit Hours
Clinical Clerkship and Dispensary..	Clinic.....	117	3.3
Ophthalmology 5.....	Clinic.....	25 $\frac{1}{2}$	.7
Internal Medicine 10d.....	Clinic.....	34	1.0
Internal Medicine 10c.....	Clinic.....	34	1.0
Internal Medicine 11.....	Quiz.....	25	.7
Nervous and Mental Dis. 4.....	Clinic.....	34	1.0
Pediatrics 2.....	Clinic.....	25 $\frac{1}{2}$	.7
Therapeutics 5.....	Clinic.....	25 $\frac{1}{2}$	.7
Surgery 9d and 9e.....	Clinic.....	34	1.0
Surgery 4 and 9c.....	Clinic.....	34	1.0
Surgery 9f.....	Clinic.....	34	1.0
Orthopedic Surgery 1 and 2.....	Clinic.....	34	1.0
Gynecology 6.....	Clinic.....	34	1.0
Surg. Obstetrics 3 and 4.....	Lec. Clinic. Quiz...	24	.7
Dermatology 3.....	Lec. Clinic.....	17	.5
Internal Medicine 7.....	Lec. Quiz.....	16	.5
Medical Jurisprudence 1.....	Lec. Quiz.....	14	.3
Medical Conference 9.....	Clinic.....	9	.2
Laryngology 5.....	Clinic. Lec.....	9 $\frac{1}{2}$	.1
Surgery 6.....	Lab. Lec. Quiz.....	25	.7
Gen.-Urinary Surg. 2.....	Clinic.....	17	.5
Medical Review.....	Quiz.....	68	.4

Total hours of semester..... 681

Total credit hours..... 18

Total hours of sixth year..... 1,315

Grand total number of hours scheduled in Omaha.... 4,761

## ANATOMY

Professor Poynter, Professor Willard, Doctor Keegan, Mr. MacQuiddy

In this department instruction is given in gross anatomy, histology, embryology and neurology. The work of the department extends thru the third year and half of the fourth. In the third year the student completes the courses in dissection, descriptive anatomy, embryology and histology (except central nervous system). In the first semester of the fourth year he completes the course in the gross and microscopic anatomy of the central nervous system.

All instruction is based on laboratory work carried out under the supervision of the staff. Lectures covering subjects of broad morphological significance are given before the entire class but for the discussion of details, in conjunction with laboratory work, the class is subdivided into small groups. Every effort is made to correlate the work in gross and microscopic anatomy so that the student may understand that the microscope is simply an aid to a better understanding of morphology.



1,2. **Gross Anatomy**—A study of the human body. In the laboratory the student is required to make a complete dissection of the cadaver, using charts, atlases and texts as guides; while his work is largely independent he will be required to submit completed dissections to the departmental staff from time to time to insure the development of a careful technic and a proper understanding of the regions studied. At the completion of the course each student is required to pass a practical examination on the cadaver. Lectures, conferences and laboratory—505 hours.

3. **Embryology**—This course includes a brief survey of the fundamental facts of vertebrate development and their application to the problems of human morphogenesis and histogenesis. In the laboratory the work on general development is based on the study of the chick and pig; in organogeny this material is largely supplemented with human tissues. Recitations on assigned readings, lectures and laboratory—90 hours.

4. **Histology and Organology**—This course is organized to emphasize the idea that the subject is a farther microscopic analysis of the gross structure of the body. Laboratory work consists of a study of normal human material supplemented by various other mammalian tissues. The relation between structure and function is constantly emphasized. An individual loan collection is furnished each student. Lectures, quizzes and laboratory—220 hours.

5. **Neurology**—A study of the gross and microscopic anatomy of the central nervous system. In the laboratory the work consists of dissections of the human brain, study of microscopic sections and reconstructions of the principal functional paths. The lectures aim to extend the laboratory work and develop those features which are not susceptible of laboratory demonstration and which have a direct bearing on the later work of the curriculum. Lectures and laboratory—80 hours.

#### Elective Courses and Courses Leading to Research

6. **Topographical Anatomy**—A laboratory course devoted to the study of special regions by means of dissections, frozen sections and wet preparations. 54-90 hours.

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

8. **Comparative Neurology**—A study of certain aspects of the nervous system of lower vertebrates as indicating the phylogeny of the human brain.

9. **Histological Technic**—A study of the various technical methods employed in preparing tissues for microscopic study. Classes limited.

10. **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.

NOTE—All elective courses must be specially arranged for; time and credit to be arranged for at time of registration.

## BIOCHEMISTRY

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

The courses of the department are designed:

A. To give a fundamental training in biological (physiological) chemistry in the regular curriculum of the medical student.

B. 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 who are candidates for a degree 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.

C. To offer the facilities of the laboratory to physicians and students, whether medical or non-medical, for special work on selected topics or methods in biochemistry, independently of the requirements for a degree.

1. **General Organic and Physical Chemistry**—A general survey of the important organic compounds especially those used in applied medicine. Selected compounds are prepared in the laboratory and their properties studied. Concurrently and in relation with this an introductory study, both descriptive and experimental, is made of some of the physico-chemical relations of reactions, especially electro-chemical conditions and those of the colloidal state. Five hours of lecture and quiz, fifteen hours of laboratory—Total 120 hours. First six weeks, first semester, third year.

2. **Biological Chemistry (physiological chemistry)**—The introductory work of the preceding course is immediately followed by a study of the principal biochemical substances and processes from the triple point of view of their chemical, their physiological and their pathological relations and as ultimately developed in the facts and principles of metabolism. The methods and results thus obtained are then applied to a similar study of selected tissues and organs. Quantitative methods are employed thruout the course to the fullest extent possible. The primary aim of the course is functional, the chemical method being used as a means to the biological or physiological end. Five hours of lecture and quiz. Twelve hours of laboratory—Total 220 hours. First semester, third year.

3. **Special Topics in Chemical Pathology**—Laboratory and conference work on special topics or methods selected according to the professional needs of the physician or the special interest of the student. Chemical methods and technic for the study of blood and urine may be selected, especially such as have clinical application, including the more recently developed micro-methods and physico-chemical methods. Other topics may be selected on the functional chemical tests of various organs or on the chemical pathology of diseases of growth and development or of nutrition and metabolism. Ample facilities of both laboratory and hospital will be provided for the chemical study of pathological conditions, or for practically following the succession of chemical or metabolic changes in the progress of a case or of a disease, and especially for experimental work in chemical pathology. This course is open to all physicians and to students who have had course 2 or its equivalent. It may be entered at any time. Hours and topics to be arranged individually.

4. **Outlines of Colloid Chemistry**—An elective course consisting of lectures, demonstrations and optional laboratory work. The principal facts of the colloidal state will be discussed especially in their relation to physiological and pathological processes. Medical procedures resting on colloid theories will be critically studied. Hours to be arranged.

5. **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.

6. **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 Tomlinson

Thruout 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 thoro 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. Eighteen hours. First semester, sixth year. Tomlinson

3. **Dermatology and Syphilology**—A weekly clinic at the County Hospital. Demonstration of patients, discussion of treatment and lectures. Seventeen hours. Second semester, sixth 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, sixth 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, fifth and sixth years. Schalek, Tomlinson

6. **Dermatology and Syphilology**—University Free Dispensary, five hours weekly. Second semester, fifth and sixth years. Schalek, Tomlinson

## GENITO-URINARY SURGERY

Assistant Professor Kennedy, Doctors Ballard and Tomlinson

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**—One and one-half hours clinic and lecture at Douglas County Hospital. Total twenty-five and one-half hours. First semester, sixth year. Kennedy

2. **Genito-Urinary Surgery**—One hour lecture. Total seventeen hours. Second semester, sixth year.

3. **Genito-Urinary Clinic at Free Dispensary**—Two hours daily in sections, one month. First semester, fifth and sixth years. Kennedy, Ballard, Tomlinson

4. **Genito-Urinary Clinic**—3 continued. Second semester, fifth and sixth years.

## GYNECOLOGY AND OPERATIVE OBSTETRICS

Professor Findley, Doctors Waters and Taylor

The instruction in diseases of women consists largely of practical demonstrations. The lectures are illustrated by stereoptican 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 thruout 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.

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

3. **Operative Obstetrics**—Illustrated lectures and conferences. Three hours. Total twenty-four hours. First half, second semester, sixth 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. Total thirty hours. First semester, sixth year. Findley

6. **Gynecology**—5 continued. Two hours. Total thirty-four hours. Second semester, sixth 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, sixth year. Waters, Taylor

8. **Gynecology**—7 continued: Ten hours. Second semester, sixth year.

## 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 hour lecture. Total twelve hours. First semester, sixth year. Towne

### INTERNAL MEDICINE

Professor Bridges, Professor Milroy, Professor Crummer, Assistant Professor Bliss, Assistant Professor Banister, Assistant Professor Bridges, Doctors Hamilton, Anderson, Conlin, Hall and Pratt

1. **Physical Diagnosis**—(See Physiology 3.)

2. **Principles of Medicine**—A recitation course upon the general and infectious diseases, taking up systematically their etiology, pathology, symptomatology, diagnosis, prognosis and treatment. Four hours. Total thirty-two hours. Second semester, fourth year. Hall

3. **Physical Diagnosis**—Physical signs in disease, and their clinical demonstration on cases taken from dispensary and hospital wards. Two hours clinic, one hour quiz. Total fifty-one hours. First semester, fifth year. Bliss, Anderson

4. **Physical Diagnosis**—3 continued. One hour quiz. Two hours clinic. Total fifty-one hours. Second semester, fifth year. Bliss

5. **Internal Medicine**—2 continued. Four hours quiz, two weeks alternate dispensary service, two hours clinic. Total sixty-eight hours. First semester, fifth year. E. L. Bridges, Conlin, Hamilton

6. **Internal Medicine**—5 continued. Four hours quiz, two hours clinic. Total sixty-eight hours. Second semester, fifth year. E. L. Bridges, Conlin, Hamilton

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. Total sixteen hours. Second semester, sixth year. Banister

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 technic in examining applicants for life insurance. One hour. Second semester, sixth year. Milroy

9. **Medical Conferences**—Reports of cases on clinical clerk and extern services. One hour. Total nine hours. Second semester, sixth year. Milroy

## 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, feeble-mindedness; 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. Total eighteen hours. Second semester, fifth year.

Aikin, Mogridge

2. **Nervous and Mental Disorders**—1 continued. Eighteen one-hour periods, first semester, sixth 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. Total seventeen hours. First semester, sixth year.

Aikin

4. **Nervous and Mental Disorders**—Clinic at the County Hospital. Conferences on diagnosis and treatment. Cases followed by clinical clerks. Two hours. Total thirty-four hours. Second semester, sixth 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. One hour lecture. Total thirty-two hours. Second semester, fourth year.

Taylor

2. **Pathology of Pregnancy, Labor, Puerperium, and of New-Born Child**—Two hours lecture. Total thirty-four hours. First semester, fifth year.

Pollard

3. **Pathology of Pregnancy, Labor, Puerperium and of New-born Child**—2 continued. Two hours. Total thirty-four hours. Second semester, fifth year.

4. **Obstetrics**—The hemorrhages, antepartum, intrapartum, and postpartum. The toxemias, antepartum, intrapartum, postpartum and the infections. Review of use of forceps with special applications. Three hours. Total thirty hours. First semester, sixth year.

Somers

5. **Clinical Obstetrics** in homes and institutions during the entire fifth and sixth years.

Somers, Pollard, 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 sixth year 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 examination, 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 fifth 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

1. **Ophthalmology**—General examination of the eye with special reference to the normal. Principles of refraction with practical exercises in groups at dispensary. Use of ophthalmoscope, etc., with practical demonstrations. One hour lecture. Total six hours. Second semester, fourth year. Potts

2. **Ophthalmology**—Diseases of the eye, symptomatology and diagnosis. Lecture and quiz. Three hours. Total twenty-one hours. First semester, fifth year. Patton

3. **Otology**—Special diagnostic methods with use of instruments. Non-surgical diseases of the ear. Three hours. Total nine hours. Second half, first semester, fifth year. Lemere

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. Total twenty-five and one-half hours. First semester, sixth year. Gifford, Patton

5. **Diseases of the Eye and Ear**—4 continued. One and one-half hours. Total twenty-five and one-half hours. Second semester, sixth year.

6. **Operative Course on Animal Eyes**—Elective. One hour. Second semester, sixth year. Patton



7. **Ophthalmoscopy**—Course designed to meet demands of ophthalmoscopic diagnosis in internal medicine. Twelve hours. Elective for sixth year students. Patton

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

Potts, Lindquest, Knode, Callfas

### ORTHOPEDIC SURGERY

Professor Lord, Doctor Schrock

1. **Orthopedic Surgery**—Diseases of bones and joints, synovial membranes and bursae. Congenital and acquired deformities and disease producing deformities. The prevention of deformities and dystrophies with principles of treatment. Subjects illustrated by photographs, slides, etc. One hour. Total seventeen hours. Second semester, sixth year.

Lord, Schrock

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

Lord, Schrock

### PATHOLOGY AND BACTERIOLOGY

Professor Eggers, Dr. Johnson, Mr. Myers, Dr. Manning

1. **Bacteriology and Protozoology**—A lecture and laboratory course on the microorganisms of pathogenic importance to man. The lecture and class work is devoted: (a) to a study of the more important pathogenic organisms, with especial reference to their infectiousness as determined by their habits of life and occurrence in nature; (b) to a study of the phenomena and theories of immunity; (c) to a brief survey of the pathogenic protozoa; (d) to special applications of bacteriology, as in sanitary analysis. The laboratory work is primarily designed to familiarize the student with bacteriological technic, and to give him a first-hand working knowledge of the life habits of the principal pathogenic bacteria. In addition, experimental work is also given in the field of immunity, where the student studies the various types of immunity as produced by himself in laboratory animals; the last few weeks of the course are devoted to the bacteriological analysis of water and milk. 102 hours laboratory, 68 hours class work. First semester, fourth year.

2. **General Pathology**—A lecture and laboratory course on the study of disease processes in general. The lecture and class work is devoted: (a) to a discussion of the fundamentals of general pathology; (b) to a study of disease processes in detail, with particular reference to their causes, manifestations, and effects. In the laboratory, the greater portion of the work consists of a study of microscopic sections illustrating the various

processes. This is supplemented by the demonstration of gross museum specimens, and of fresh specimens whenever possible. 153 hours laboratory, 85 hours class work. Second semester, fourth year.

3. **Special Pathology**—The work of course 2 is continued in the first semester of the fifth 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 specimens and by fresh material. 51 hours laboratory, 17 hours lecture and 17 hours recitation. First semester, fifth year.

4. **Clinical Pathology**—The primary aim of this course is to familiarize the student with the apparatus, methods and technic 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. 34 hours laboratory, 17 hours lecture and 17 hours recitation. First semester, fifth year.

5. **Autopsy Technic**—Sixth year students are required to attend the autopsies held by the staff. Two fifth year 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.

6. **Pathological Technic**—A course on the preparation and examination of pathological anatomical material. It includes the use of the celloidin, paraffin, freezing microtomes, routine and special staining, and the diagnosis of specimens after preparation. Hours arranged individually.

7. **Public Health Bacteriology**—A laboratory course intended to give instruction in the methods of bacteriological analysis of water, milk, sewage and foods.

8. **Immunology**—Laboratory work and assigned reading aiming at more detailed knowledge, especially of the methods which have clinical application, than is possible from course 1.

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

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

11. **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 technic 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 hours lecture and clinic. Total twenty-five and one-half hours. First semester, sixth year.

McClanahan

2. **Pediatrics**—1 continued. Second semester, sixth year. One and one-half hours lecture and clinic. Total twenty-five and one-half hours.

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. Total thirty-four hours. Second semester, fifth year.

Christie

4. **Dispensary**—Two hours daily. First semester, fifth and sixth years on assignment.

Hamilton, Wigton, Moore

5. **Dispensary**—4 continued. Two hours daily. Second semester, fifth and sixth years on assignment.

## PHARMACOLOGY

Professor Pilcher and Assistants

1. **Elementary Pharmacy and Principles of Prescription Writing; Toxicology; Absorption and Excretion of Drugs**—The term "Pharmacy" 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, fourth 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, fourth 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. Two hours. Second semester, fourth year.

4. **Didactic Pharmacology**—Continuation of course 3. Lectures and quizzes and practice in prescription writing; the therapeutic application of the acquired knowledge of the drugs.

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, Dr. Anderson, Mr. Rusche and Assistants

A study of the facts and theories of normal vital phenomena presented with special reference to their medical bearing. The time allotted to the general course is spent in class conferences and in laboratory experimentation. In the laboratory the class is divided into two sections which meet on alternate days during one semester. Numerous demonstrations are given to illustrate the subject matter under consideration.

In addition to imparting information, stress is laid upon training the students in differentiating physiological facts from inferences; in the acquisition of a careful experimental technic; in the cultivation of a capacity for independent observation and in general, in supplying as far as is possible, an intimate knowledge of physiological processes.

1. **General Course in Physiology**—Lectures, conferences, quizzes. Laboratory work and demonstrations. Preparation of theses, assigned reading and the preparation of abstracts from current literature. Total 280 hours. First semester, fourth year. Guenther

2. **Clinical Physiology**—A series of lectures and quizzes given in conjunction with Physiology 3, placing emphasis on physiological topics of particular clinical interest. Total ten hours. Second semester, fourth year. Guenther

3. **Applied Physiology and Physical Diagnosis**—Continuation of Course 2. General principles. Demonstration of topography of head, chest and abdomen. Physical signs in health studied by direct personal examination. Lectures treat of normal conditions. In the laboratory the class is divided into sections and drilled in inspection, percussion and auscultation. Total fifty-one hours. Second semester, fourth year.

Anderson

4. **Elective Courses**—Physiology of special clinical interest and courses leading to research. Arranged as to content and time by consultation with the head of the department. For fifth and sixth year students, for candidates for advanced degrees, for practitioners and for special students. Credit to be arranged.

Guenther

## 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 thoro 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 technic. Minor surgical technic 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. Four hours. Total sixty-eight hours. First semester, fifth year.

Stokes, Hull, Hollister

2. **Principles of Surgery**—1 continued. Three hours. Total fifty-one hours. Second semester, fifth year.

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. Total thirty-four hours. First semester, sixth year.

Jonas

4. **Practice of Surgery**—3 continued. Methodist Hospital. One hour lecture, one hour clinic. Total thirty-four hours. Second semester, sixth year.

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

6. **Fractures and Dislocations**—5 continued. Practical work in application of plaster casts. Two hours. Total thirty-four hours. Second semester, sixth year.

7. **Operative Technic**—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, sixth year. Morrison

8. **Experimental Surgery**—Intended to familiarize students with principles of surgical technic, 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. Total fifty-one hours. Second semester, fifth year. Stokes

9. **Surgical Clinics**—

- a. Immanuel Hospital—Three hours. First and second semesters. Fifth year. Davis, Hull
- b. County Hospital—Two hours. Second semester, fifth year. Hollister
- c. Methodist Hospital—Two hours. First and second semesters, sixth year. Jonas
- d. Clarkson Hospital—Two hours. First and second semesters, sixth year. Summers
- e. County Hospital—Clinics by appointment on time of clinic "d." Summers
- f. Wise Hospital—Two hours. First and second semesters, sixth year. Stokes
- g. Dispensary service (see schedule).
- h. Clinical Clerk service (see schedule).

## THERAPEUTICS

Assistant Professor Goetz, Doctor Ballard

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. Total thirty-four hours. Second semester, fifth year. Goetz

2. **Clinical Therapeutics**—1 continued. Including course 4. Total twenty-five and one-half hours. First semester, sixth 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. Sixth year. By appointment. Goetz

4. **Therapeutic Clinic**—One and one-half hours. First semester, sixth year.

5. **Therapeutic Clinic**—One and one-half hours. Total twenty-five and one-half hours. Second semester, sixth year.

6. **X-ray Diagnosis and Therapeutics**—Lectures, demonstrations with practical reading of plates, fluoroscopic examinations and treatments. Nine hours lecture. First semester, sixth year. Ballard

## 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 1917, 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 year 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. 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. N. P. Swanson, Omaha
- Mr. Walton Roberts, Lincoln
- Mr. W. H. Dorrence, Omaha
- Mr. George H. Brewer, Omaha
- Mr. W. M. Hill, Hebron
- Mr. Leo Hoffman, Omaha
- Mr. Willis C. Crosby, Omaha
- Mr. V. A. Matthews, Lincoln
- Mr. M. F. O'Malley, Grand Island
- Mr. John J. Larkin, 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 sixty 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.

Eggers, Myers

**Pathology**—The autopsy and the technic 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 sixty hours.

Eggers

**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 action. Time ninety hours.

**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 desiccation; care of contagious diseases; equipment and management of morgues; surgical and mutilated cases.

### Professional Embalming and Funeral Management

1. Theory and practice of embalming: A quiz and demonstration course covering all phases of the work and uniting the theoretic and the practical. Twenty-four hours.

Mr. Leo Hoffman, Omaha

Mr. Willis C. Crosby, Omaha

2. Cavity and arterial embalming. Four hours.

Mr. Walton Roberts, Lincoln

3. Special and difficult cases; contagious diseases; surgical and mutilated cases; preparation for shipment; desiccation and mold and their prevention. Lectures and demonstrations, six hours.

Mr. W. H. Dorrence, Omaha

4. Funeral management. Lectures two hours.  
Mr. Geo. H. Brewer, Omaha  
Mr. N. P. Swanson, Omaha
  5. Management of case in home and morgue. Four hours.  
Mr. M. F. O'Malley, Grand Island
  6. Legal aspects of embalming. Lectures four hours.  
Mr. W. M. Hill, Hebron
  7. Rights of embalmer in relation to estates in Probate Court. Two hours.  
Mr. John J. Larkin, Omaha
  8. The Profession of Embalming, its history, growth and relation to the public. Lectures two hours. Mr. V. A. Matthews, Lincoln
- 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.

#### FEEES

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.

COURSES OF INSTRUCTION  
IN LINCOLN

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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). Field work on trees. 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.

Dales

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.

Borrowman

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.)

### MILITARY SCIENCE AND TACTICS

(See the 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. Three hours laboratory. Three hours credit. First semester. Skinner

12. **Arts Course in General and Experimental Physics**—Electricity and light. Course 11 continued. Three hours laboratory. Three hours credit. Second semester. Skinner

## PHYSIOLOGY AND PHARMACOLOGY

13. **History of Medicine**—The early lectures of this course are given by Dr. Stevens on the duties and responsibilities of the 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. The remaining lectures are given by various physicians from the medical faculty in Omaha. The object of the course is to give the student a comprehensive view of the field of medicine. One hour attendance. First semester.

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

## RHETORIC

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

## ZOOLOGY

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

13. **Zoology for Medical Students**—A beginning course in zoology open only to students registered in the six-year medical course. Emphasis is laid on the general fundamental biological principles. The structures, functions and development of animals are considered as an introduction to human anatomy, physiology and embryology. Laboratory work of an intensive type designed to prepare students for subsequent medical courses. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Barker

14. **Zoology for Medical Students**—13 continued. Second semester.

A. **Introduction to Zoology**—A beginning course for those who desire to complete a year's work in general zoology in one semester. This course covers the same field as courses 3 and 4. Five hours attendance. Eight hours laboratory. Five hours credit or with additional assigned work, six 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. Wolcott

25. **Medical Zoology**—Lectures on certain groups of Protozoa, Platyhelminthes, Nematelminthes and Arthropoda which produce or transmit the diseases of men, with particular reference to their structure identifica-

tion 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 technic. Intended especially for the medical student. Prerequisite: year of zoology. Three hours attendance. Four hours laboratory. Three hours credit. First semester. Barker

REGISTER OF STUDENTS, 1916-1917

In Omaha

SIXTH YEAR—18

Brix, Aage Emil	Lexington
Davis, John Calvin, Jr.	Omaha
Gifford, Sanford Robinson	Omaha
Johnson, Julius Andrew	Omaha
Kriz, Rudolph Edmund	Weston
Lake, Lilburn B.	Richmond, Ky.
Martin, Otis	Central City
Montgomery, Earl Clifton	Omaha
Nedergaard, Niels	Blair
Riggert, Leonard Otto	Norfolk
Ross, Arthur J., Jr.	Perry, Ia.
Salisbury, Frederick Scott	Broken Bow
Schaum, Lydia L.	Waco
Sherwood, Raymond Gessell	Rogers, Ark.
Sinamark, Andrew	Fremont
Talcott, Vernon Vivaldo	Crofton
Way, Charles Willard	Wahoo
Wildhaber, William Tell	Plymouth

FIFTH YEAR—28

Bantin, Elmer William	Omaha
Beede, Clarke Eli	David City
Brandt, Emelia Haigsen	Omaha
Breuer, Roland George	Lincoln
Burman, Guy Elmer	Axtell
Cassidy, Waldron Alvin	Omaha
Davis, Kenneth Samuel	Genoa
Dow, Andrew G.	Omaha
Eusden, Ralph Bonner	Marne, Ia.
Figi, Fred A.	Sutton
Folken, Garrett, Jr.	Schuyler
Frandsen, Charles	Elba
Hanisch, Edward Carl	Rockville
Hollenback, Carl Francis	Sterling
Johnson, Rudolph Eugene	Omaha
Larsen, Antonius Andrew	Homer
Losey, Ray Robinson	Hagerman, N. M.
Mauer, Roy Thornell	Omaha
Myers, Lloyd	Fort Crook
Owen, Donald Robert	Omaha

Safarik, Lumir Robert.....	Schuyler
Schembeck, Isaac S.....	Lincoln
Thompson, Kenneth Levi.....	West Point
Walker, Harold Hill.....	Mason City
Wear, John William, Jr.....	Peru
Weigand, Guy L.....	Omaha
Westover, Raymond Paschal.....	Rushville
Weyer, Stephen Morris.....	Ainsworth

## FOURTH YEAR—39

Bailey, Fuller Bryan.....	Imperial
Block, Max.....	Omaha
Coleman, Frederick David.....	Ulysses
Coolen, Freeman Stuart.....	Foxpoint, Nova Scotia
Cooper, Albert Lloyd.....	Fairbury
Cultra, George McClave.....	Lincoln
Dacken, Victor Robinson.....	Harlan, Ia.
Deal, William Floyd.....	St. Francis, Kans.
Deering, John Stewart.....	Sutton
Edmisten, Lloyd L.....	Eddyville
Freidell, Hugh Frederick.....	Dorchester
Green, Ralph Dennis.....	Beaver City
Griess, Rudolph Otto.....	Sutton
Hoffman, Loyd Oliver.....	Orleans
Hough, John Walter.....	Lincoln
Kline, Philip.....	Omaha
Krahulik, Emil Joseph.....	Clarkson
Lanphere, Grant Harold.....	Gresham
McGee, Harry Edwin.....	College View
MacQuiddy, Ernest Lynn.....	Sonoma, Cal.
Misko, George Harold.....	Ord
Morris, Ernest Henry.....	Omaha
Nielson, Arthur Lawrence.....	College View
Nolan, Martin John.....	Alliance
Northrup, Laurence Curtis.....	Platte City, Mo.
Osheroff, Sam A.....	Omaha
Puris, Abram.....	Omaha
Reinertsen, Bernhard Reynolds.....	Elk Point, S. D.
Rodgers, Clarence Edwin.....	Osmond
Rusche, Carl Frederick.....	Columbus
Sands, Robert Lyman.....	University Place
Seaberg, John Arthur.....	Saronville
Sederlin, Elvin Louis.....	Elk Mountain, Wyo.
Sheldon, Mary Josephine.....	Scottsbluff
Sill, Grant Wood.....	Newport



ROSTER OF STUDENTS

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Updegraff, Howard Leighton	Omaha
Wegner, Ernest Soloman	Fremont
Weinberg, Joseph Alexander	Council Bluffs, Ia.
Wiedman, Earl Vernon	McCook

THIRD YEAR—58

Balcom, Raymond D.	Crete
Bolton, Dan W.	Lincoln
Borghoff, John Aloyisius	Omaha
Brown, Lionel Botleman	Fairmont
Brownson, Hollis Lee	Verdon
Camp, Earl Fred	Republican City
Chain, Leo Williams	Omaha
Church, Ira O.	University Place
Churchill, Barbara	Omaha
Collins, Floyd MelRoy	Ord
DeBolt, Grover C.	Omaha
Eyerly, James Bryan	North Loup
Fahrenbruch, William Henry	Culbertson
Fouts, Paul Albert	Central City
French, Oscar William	Page
Gerrie, Wallace Anderson	Omaha
Gibbs, Edna L.	Omaha
Graham, Alfred Clifton	Julian
Grodinsky, Manuel	Omaha
Harvey, Harry Evans	Star
Harvey, Walter Carlton	Madison, S. D.
Hoover, Raymond Kenneth	Haddam, Kans.
Heustis, Charles Brown	Omaha
Hunt, Katherine Moran	Omaha
Ivers, Darlien Marie	Omaha
Johnson, Ernest Delogne	Omaha
Jones, Glenn Albert	Custer, S. D.
Keller, Samuel L.	Fremont
Kirkpatrick, Milton Elder	Holdrege
Lee, Yong Kiu	Ham-heung, Korea
Lichtenwallner, John B.	Omaha
Lissack, Edmund Henry Max	Syracuse
Lukovsky, Charles C.	Omaha
McClinton, Reginald Sullivan	Alma, Mich.
McCormick, Lawrence Ralph	University Place
Mantor, Edna Clara	Omaha
Melcher, William Henry	Omaha
Meyer, Andrew	Dannebrog
Miller, Walter Charles	Culbertson

Minthorn, Martin Lloyd	Lincoln
Mulligan, Harold Rowe	Beatrice
Murphy, James Bradford	Omaha
Murray, Floyd Joshua	Pender
Muskin, Nathan	Omaha
Neville, John William	Omaha
Newcom, Floyd Lesley	Arlington
Priest, Paul Herbert	University Place
Ravitz, Sol	Omaha
Rudloff, Frank X	Spalding
Shipley, Harry M	Rippey, Ia.
Stewart, Howard Coke	Tecumseh
Stonecypher, David Daniel	Lincoln
Surber, Frank Raymond	Waterbury
Walvoord, James Henry	Holland
Watters, Phil Ganz	Des Moines, Ia.
Weeth, Charles Reed	Omaha
Weymuller, Charles Augustus	Omaha
Wonder, Charles J	Omaha

REGISTER OF STUDENTS, 1916-1917

In Lincoln

SECOND YEAR, SIX-YEAR COMBINED COURSE—58

Amick, Carl Gideon	Loup City
Anderson, Clare Raymond	Omaha
Angle, Edward Everett DePutron	Lincoln
Baer, Howard Byron	Stanton
Barnes, Chester Dwight	Tecumseh
Bennett, Abram Elting	Alliance
Burns, Ernest Madison	Rifle, Colo.
Cameron, Alexander Clark	Kearney
Carter, Lester W.	Thermopolis, Wyo.
Chase, Cecil Arthur	Mason City
Chesley, Faris Franklin	Armour, S. D.
Conrad, Paul Edgar	Sabetha, Kans.
Duncan, James Thomas	Blue Hill
Eskildson, Eskild Karl	Lincoln
Flothow, Paul George	Omaha
Ford, David True	Lincoln
Graham, Donald Alexander	Alliance
Hardin, Leon George	Alma
Heider, Charles Frank	Elm Creek
Herrmann, Albert Edward	Lincoln
Hofer, Busben	McCook
Huffman, Harry Gusten	North Platte
Humphrey, Fred Augustine	Broken Bow
Jaenike, Richard C. A.	David City
Jahn, Gustav William	Lincoln
Johnson, Chester Arthur	Stuart
Johnson, Will T.	Pawnee
Kraybill, Harold Matthews	Abilene, Kansas
Lucke, Richard Otto	Omaha
McDonald, John Theodore	Omaha
Mahan, Arthur Leroy	Gothenburg
May, Charles Curtis	Lincoln
Miller, Erwin Phelps	Gibbon
Moates, Guy Hart	Plainview
Morgan, Donal Hobart	Danbury
Mossman, Jesse	Mason City
Mulligan, Allan William	Beatrice
Nesbit, Andrew Edgar	Tekamah
Palmateer, Homer Royal	Creston

Polsley, Lloyd William	Wahoo
Pratt, Willard Munson	Lincoln
Reith, Allan Funder	Lincoln
Renie, Robert Oswald	Arapahoe
Rogers, Floyd Lessie	Randolph
Rose, Leo Dow	Lincoln
Shackelford, Aron	Lincoln
Shirey, Ralph W.	Daykin
Shubert, Harold Cartwright	Council Bluffs, Ia.
Sorenson, Joseph Herbert	Omaha
Speier, Aaron S.	Lincoln
Sweeney, Edward E.	Lincoln
Touzalin, Harry Theodore	Superior
Troup, Ralph Leslie	Omaha
Woods, Curtis Keith	Mason City
Woods, Harold Harrison	Barneston
Woods, Ozro T.	Lincoln
Yoder, Carleton Byron	Wymore
Zimmerman, Naomi Bertha	Winfield, Ia.

## FIRST YEAR, SIX-YEAR COMBINED COURSE—67

Adams, Robert Harold	Sac City, Ia.
Babcock, J. Blaine	Lincoln
Bailey, Elmore Russell	Omaha
Baker, Burges Bruce	Curtis
Beckford, Leo V.	Waco
Best, Russell Rolland	Omaha
Bodwell, Rea Edson	Lebanon
Bogue, Edward Villars	North Platte
Bryant, Harry Victor	Omaha
Campbell, Philip Thomas	Lincoln
Campbell, William Allan	Lincoln
Cartwright, Forrest P.	Pilot Mound, Ia.
Casteel, J. Alden	Randolph
Clark, Eugene E.	Ashland
Constantine, Charles E.	Lincoln
Copeland, Charles William, Jr.	Belleville, Kans.
Copsey, Robert Lynn	Lincoln
Crellin, Leonard Daniel	Lyons
Dally, Henry Michael	Omaha
Davison, Almond D.	Dorchester
Eldredge, Robert Bruce	Omaha
Elston, Harry Richard	Columbus
Follings, George	Lincoln
Higgins, George Hubert	Hartington

Holmes, Allan Ralph	Dunbar
Hoon, Donald Martin	Mitchell, S. D.
Horley, William G.	Lincoln
Huntley, Donald	Pawnee City
Jensen, Alva H.	Minden
Judd, Walter H.	Rising City
Kohn, Frank	Beaver City
Krause, Arthur Russell	Lincoln
Lamb, Milton M.	Tecumseh
Langhorn, Charles Howard	Gering
Leininger, Earl Francis	Sargent
McConnell, Lucille May	Sutherland
McGoogan, Walter Milton	Lincoln
Moritz, Alan Richard	Lincoln
Mortensen, Oscar	St. Paul
Munger, Elbert Ervin, Jr.	Spencer, Ia.
Nelson, Cedric Henry	Billings, Mont.
Newhall, Redondo Everett	West Point
Norman, George R.	Chester
Olson, Carl Lester Elmer	Pacific Junction, Ia.
Palmer, Clinton Forest	College View
Preston, Perry Isaac	Oakland
Schwartz, John Mixer	Emerson
Rasmussen, Earl Copley	Ravenna
Richardson, William Thomas	Mynard
Ritchey, Edward Norman	Lincoln
Sauer, Leslie Earl	Strang
ShIPLEY, Joe Earl	Mound City, Mo.
Simpson, William Leonard	Lincoln
Skelton, Perry	Spencer
Smith, Floyd A.	Fremont
Sterba, Robert G.	Omaha
Stretton, Charles Thomas	Chester
Swanson, Leonard August	Clay Center
Tilgner, Irving	Lewellen
Vance, William Brooks	Omaha
Wells, Jessie Muriel	Gering
Wells, Teresa Pearl	Gering
White, Obert Newton	Ponca
Whitham, Roy Herbert	Fairfield
Williamson, Wirt Lee	Humboldt
Zook, Lester Eugene	Lexington
Zulauf, Walter Christian	Jackson

