1947

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1947-1948

University of Nebraska College of Medicine

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College of Medicine

ANNOUNCEMENT 1947–1948

SERIES LII
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AUGUST 10
1947

The University reserves the right to make, without advance notice, whatever changes it deems appropriate in the particulars contained in this Bulletin.

PUBLISHED BY THE UNIVERSITY AT LINCOLN

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ACADEMIC CALENDAR

CALENDAR 1947-1948

1947 Summer School

June 13-14, Friday 9 a.m. to Saturday noon—Guidance and counseling examinations, all new students.

June 16, Monday—Registration, all students.

June 17, Tuesday, to July 23, Wednesday—Short Session.

June 17, Tuesday, to August 8, Friday—Long Session.

First Semester 1947-48

Sept. 3-13, Wednesday to Saturday—Medical examinations.

Sept. 11, Thursday, 9 a.m.—Convocation, entering students.

Sept. 11, 12, 13, Thursday, Friday, Saturday—Guidance and counseling examinations, new students.

Sept. 15, 16, 17, Monday, Tuesday, Wednesday—General registration.

Sept. 18-27, Thursday to Saturday noon—Registration, Graduate College.

Sept. 18, Thursday—First semester classes begin.

Oct. 25, Saturday—First scholastic reports.

Nov. 27-Dec. 1, Thursday to Monday, 8 a.m.—Thanksgiving Day vacation.

Dec. 6, Saturday—Second scholastic reports.

Dec. 20-Jan. 5, 1948, Saturday noon to Monday, 8 a.m.—Christmas vacation.

Jan. 22-31, Thursday to Saturday—First semester examinations.
ACADEMIC CALENDAR—Cont’d.

CALENDAR 1947-1948

Second Semester 1947-1948

Jan. 28, 29, Wednesday and Thursday—
Guidance and counseling examinations,
new students.

Jan. 30, Friday—Registration for new stu-
dents.

Feb. 2-7, Monday to Saturday noon—Regis-
tration, Graduate students.

Feb. 2, Monday—Second semester classes
begin.

Feb. 15, Sunday—Charter Day.

March 13, Saturday—First scholastic re-
ports.

March 26-31, Friday, 8 a.m., to Wed-
nesday, 8 a.m.—Spring vacation.

April 20, Tuesday—Honors Convocation.

April 24, Saturday—Second scholastic re-
ports.

May 1, Saturday—Ivy Day.

May 26-June 5, Wednesday to Saturday—
Second semester examinations.

June 5, Saturday—Alumni Day.

June 6, Sunday—Baccalaureate sermon.

June 7, Monday—Seventy-seventh annual
commencement.
COLLEGE OF MEDICINE

CALENDAR 1947-48
FRESHMEN, SOPHOMORES AND JUNIORS

First Semester

September 10, Wednesday
September 11, Thursday
September 12, Friday
September 15, Monday
October 25, Saturday
November 8, Saturday
November 27–December 1, Thursday to 8 a.m. Monday
December 6, Saturday
December 20–January 5, 1948, Saturday noon to 8 a.m. Monday
January 21, Wednesday
January 22–28, Thursday through Wednesday

Freshman Exams, Convocation and Reception
Freshman Registration
Sophomore and Junior Registration
First Semester Classes begin
First Scholastic Reports
First Half of First Semester ends
Thanksgiving Holiday
Second Scholastic Reports
Christmas Vacation
First Semester Classes end
First Semester Examinations

Second Semester

January 30–31, Friday and Saturday
February 2, Monday
March 13, Saturday
March 26–April 1, Friday through Wednesday
March 27, Saturday
April 24, Saturday
May 29, Saturday
May 31–June 5, Monday through Saturday

Registration Second Semester
Second Semester Classes begin
First Scholastic Reports
Spring Vacation
First Half of Second Semester ends
Second Scholastic Reports
Second Semester Classes end
Second Semester Examinations
CALENDAR

SENIOR YEAR 1947–48

First Semester

March 26, 1947, Wednesday
April 5–14, Saturday noon to 8 a.m.
   Monday
May 17, Saturday
June 7, Saturday noon
September 15, Monday
September 27, Saturday
November 5–12, Wednesday to
   Wednesday
First Semester Classes begin
Spring Vacation
First Scholastic Reports
Summer Vacation begins
Classes resume
Second Scholastic Reports
First Semester Examinations

Second Semester

November 19, Wednesday
November 20, Thursday
November 27–December 1, Thursday through Sunday
December 20–January 5, 1948, Saturday noon to 8 a.m. Monday
January 10, Saturday
February 21, Saturday
March 26–31, Friday to 8 a.m.
   Wednesday
April 1–7, Thursday through Wednesday
April 10, Saturday
Registration for Second Semester
Second Semester Classes begin
Thanksgiving Holiday
Christmas Vacation
First Scholastic Reports
Second Scholastic Reports
Spring Vacation
Second Semester Examinations
Commencement
The College of Medicine, the School of Nursing, and the University Hospital are situated at the College of Medicine campus in Omaha at 42nd Street and Dewey Avenue. All the buildings are modern, the oldest, North Laboratory, having been erected in 1912.
ADMINISTRATION

The Board of Regents

Term Expires

JAMES L. WELSH, Omaha .......................................................... January 1949
ROBERT W. DEVOE, Lincoln ..................................................... January 1949
VINCENT C. HASCALL, Omaha, President * ............................. January 1949
STANLEY D. LONG, Grand Island, President ............................. January 1951
FRANK M. JOHNSON, Lexington ................................................. January 1951
GEORGE LIGGETT, Utica .......................................................... January 1953
CHARLES Y. THOMPSON, West Point ......................................... January 1953

JOHN KENT SELLECK, Lincoln, Corporation Secretary

The University

REUBEN GILBERT GUSTAVSON, Ph.D., D.Sc., LL.D., Chancellor of the University.

CARL WILLIAMS BORGMAN, B.Sc. (Ch.E.), Ph.D., Dean of the Faculties.

HAROLD CHARLES LUETH, Ph.D., M.D., Dean of the College of Medicine.

CHARLES WILLIAM MCCORKLE FOYNTER, B.Sc., M.D., D.Sc., Dean of the College of Medicine, Emeritus.

JAMES PERRY TOLLMAN, B.Sc., M.D., Assistant Dean of the College of Medicine.

GEORGE WALTER ROSENLOF, Ph.D., LL.D., Registrar, University Examiner, and Director of Admissions. (Secretary of the Faculties.)

THEOS JEFFERSON THOMPSON, Ph.D., LL.D., Dean of Student Affairs.

MARJORIE WILLARD JOHNSTON, M.A., Dean of Women.

COLLEGE OF MEDICINE

Degrees of Doctor of Medicine, Bachelor of Science in Medicine, Bachelor of Medical Technology, Bachelor of Science in Nursing, and Graduate Nurse.

DEPARTMENT OF ANATOMY
J. S. Latta, Chairman

DEPARTMENT OF BIOCHEMISTRY
S. Morgulis, Chairman

DEPARTMENT OF DERMATOLOGY AND SYPHILIOLOGY
C. C. Tomlinson, Chairman

DEPARTMENT OF INTERNAL MEDICINE
H. C. Lueth, Acting Chairman

DEPARTMENT OF MEDICAL JURISPRUDENCE

DEPARTMENT OF NEUROLOGY AND PSYCHIATRY
A. E. Bennett, Chairman

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
E. C. Sage, Chairman

DEPARTMENT OF OPHTHALMOLOGY
J. H. Judd, Chairman

DEPARTMENT OF ORTHOPEDIC SURGERY
R. D. Schrock, Chairman

DEPARTMENT OF OTORHINOLARYNGOLOGY
Clarence Rubendall, Chairman

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

DEPARTMENT OF PEDIATRICS
J. A. Henske, Chairman

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY
A. R. McIntyre, Chairman

DEPARTMENT OF RADIOLOGY AND PHYSICAL MEDICINE
H. B. Hunt, Chairman

DEPARTMENT OF SURGERY
J. J. Keegan, Chairman

DEPARTMENT OF UROLOGY
E. Davis, Chairman

* Deceased February 19, 1947.
PAYSON STONE ADAMS, B.Sc. in Med., M.D., Assistant Professor of Urology.

JOHN A. ATTA, Ph.D., M.D., Instructor in Neurology and Psychiatry.

JOHN FRANKLIN ALLEN, B.Sc., M.D., Professor of Clinical Medicine, Emeritus and Director of Student Health Service, Emeritus.

PLINY ARUNAH ALLEN, M.D., Assistant Professor Bacteriology and Pathology.

ROBERT M. ALLEN, A.B., M.S., Ph.D., Assistant Professor of Pathology and Bacteriology.

GEORGE THOMAS ALLIBAND, B.Sc., M.D., Instructor in Ophthalmology.

MAYNE C. ANDERSEN, M.D., Assistant Professor of Medicine.

HARLEY ERIC ANDERSON, B.Sc. in Med., M.D., Assistant Professor of Obstetrics and Gynecology.

LAWRENCE LLOYD ANDERSON, A.B., M.D., Clinical Assistant in Surgery.


CLARENCE FREDERICK BANTIN, B.Sc., M.D., Instructor in Pediatrics.

ELMER WILLIAM BANTIN, B.Sc., M.D., Assistant Professor of Pediatrics.

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ABRAM ELTING BENNETT, B.Sc., M.D., Professor of Neurology and Psychiatry. (Chairman of Department).

ARTHUR LAWRENCE BENNETT, Ph.D., M.D., Professor of Physiology and Pharmacology.

GORDON NEWALL BEST, B.Sc., M.D., Assistant Professor of Internal Medicine.

ROLLAND RUSSELL BEST, B.Sc., M.D., Assistant Professor of Anatomy and Associate Professor of Surgery.

JAMES DEWEY BISGARD, A.B., M.D., Associate Professor of Surgery.

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LOUIS EVERETT HANISCH, B.Sc., M.D., Instructor in Surgery.
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EDWARD ACUSTUS HOLYKE, Ph.D., M.D., Professor of Anatomy.
WAYNE MCKINLEY HULL, M.Sc., M.D., Instructor in Internal Medicine.
HOWARD BEERMAN HUNT, A.M., M.D., Professor of Radiology and Physical Medicine. (Chairman of Department.)
HERBERT PAUL JACOB, Ph.D., Assistant Professor of Biochemistry.
HERMAN MILTON JAHR, B.Sc., M.D., Associate Professor of Pediatrics.
HERMAN FRANK JOHNSON, M.D., Associate Professor of Orthopedics and Associate Professor of Surgery in Charge of Division of Fractures.
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James Perry Tollman, B.Sc. in Med., M.D., Assistant Dean of the College of Medicine, Professor of Clinical Pathology, and Director of the School of Medical Technologists.
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Frank Marion Townsend, M.D., Instructor in Pathology and Bacteriology.
Donald Clay Vroman, B.Sc. in Med., M.D., Instructor in Obstetrics and Gynecology.
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Chester Hill Waters, Jr., A.B., M.D., Assistant Professor Orthopedics.
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William Albert Willard, Ph.D., Professor of Anatomy, Emeritus.
Donald Jasper Wilson, A.B., B.Sc., M.D., Assistant Professor of Dermatology and Syphilology.
Willis Dean Wright, B.Sc., M.D., Instructor in Medicine.
Raymond Joseph Wyrens, A.B., M.D., Instructor in Medicine in Charge of Tropical Medicine.
George Alexander Young, Sr., M.D., Professor of Neurology and Psychiatry, Emeritus.
George Alexander Young, Jr., M.D., Instructor in Medicine.
Richard Harte Young, M.S., M.D., Associate Professor of Neurology and Psychiatry.

Residents

Anesthesiology—John Lucian Bartmore, M.D.
Medicine—Thorwald Robert Anderson, B.A., M.D.
Albert Edward Freed, B.Sc., M.D.
Donald Robert Jackson, A.B., M.D.
Albert William Mann, A.B., M.D.
William Reece Elton Newman, B.Sc., M.D.
Charles Morton Root, M.D.
Jack Michael Stemper, B.Sc. in Med., M.D.
OBSTETRICS AND GYNECOLOGY—Fay Nace, M.D.
William Leonard Rumbolz, A.B., M.D.

OPHTHALMOLOGY—Frank Lewis Eagle, M.D.
Lawrence James Gridley, B.Sc. in Med., M.D.

ORTHOPEDIC SURGERY—Stanley Monrad Bach, B.Sc. in Med., M.D.

PATHOLOGY—Arnold Kenneth Myrabo, A.B., M.D.
Gordon Quentin Olsson, M.D.

PEDIATRICS—Byron Bay Oberst, M.D.

RADIOLOGY—Robert Mason Coleman, A.B., M.D.

SURGERY—John Hobart Brush, A.B., M.D.
Robert Morris Cochran, B.Sc., M.D.
Loran Earl Coppoc, M.D.
Clyde Lewis Kleager, A.B., M.D.
George Henry Pester, M.D.
Max McCoy Raines, A.B., M.D.
John Arthur Rasmussen, M.D.
Thomas Leclade Young, A.B., M.D.

ASSISTANT RESIDENT—Frank Stewart Greenslit, A.B., M.D.

Fellows

RADIOLOGY—David Parker Christie, M.D.
Charles Craig Gass, B.Sc. in Med., M.D.

Interns

Robert Dean Dalager, A.B., M.D.
Lloyd Londrosh Downing, A.B., B.Sc. in Med., M.D.
Gerriet Arthur Janssen, B.Sc. in Med., M.D.
Willard George Kuehn, B.Sc., A.B., M.D.
Edwin John Loeffel, B.Sc. in Med., M.D.
Byron Douglas Petersen, M.D.
Leon Ethelbert Steiner, B.Sc., M.D.
Paul Abraham Stoesz, B.Sc. in Med., M.D.
Oliver Matthew Storsteen, M.D.
Frederick James Swartendruber, A.B., M.D.
Judith D. Walton, A.B., M.D.

Committees of the Faculty

ADMISSION AND SCHOLASTIC STANDING—Doctors A. L. Bennett, Chairman, Bisgard, Latta, McGoogan, Tollman, R. H. Young.
CAMPUS—Doctors Lueth, Chairman, McIntyre, Mr. Saxon, Mr. Welsh and Miss Kyle.
DISPENSARY—Doctors Henske, Chairman, Dunn, McGoogan, McLaughlin.
EXAMINATIONS—Doctors Simmons, Chairman, Cash, McLaughlin, R. R. Best, Kirk, McGoogan, Crofoot, Lee, Waters.
EXECUTIVE—Chairmen of Departments, Dean, Assistant Dean, Director School of Nursing, Assistant Operating Superintendent.
GRADUATE STUDIES—Doctors McIntyre, Chairman, Gunderson, Morgulis.
LIBRARY—Doctors Latta, Chairman, H. H. Davis, McIntyre, Pratt, Mr. Moe, Miss Kyle.
POSTGRADUATE—Doctors Bisgard, Chairman, F. L. Dunn, Schenken.
STUDENT ACTIVITY—Doctors Sage, Chairman, H. H. Davis, Moody.
STUDENT ASSISTANCE—Doctors A. L. Bennett, Chairman, Holyoke, Tollman.
UNIVERSITY HOSPITAL—Doctors Hunt, Chairman, Keegan, Moore, Moser, McGoogan, Warren Thompson, Tollman, the Superintendent.
Faculty

Administration

Irma Maurine Kyle, R.N., B.Sc., S.M., Director of the School of Nursing and Professor of Nursing.

Charlotte Burgess, R.N., Ph.B., Director and Professor of Nursing, Emeritus.

Reuben Allyn Moser, A.B., M.D., Assistant Superintendent of University Hospital and Associate Professor of Medicine.

Ruben Bryan Saxon, B.Sc. in M.E., Assistant Operating Superintendent at the College of Medicine.

James Gray Carr, Jr., B.Sc., Fiscal and Personnel Officer.

Phillip Severin Moe, B.Sc., Librarian, College of Medicine Library.

Hazel Sprague, B.Sc., Director of Dietetics with rank of Associate Professor.

Helen Erikson, R.N., Superintendent of Dispensary.

Josephine Chamberlin, R.N., Superintendent of Dispensary, Emeritus.

Mary Elizabeth Converse, B.A., Medical Record Librarian.

Evelyn Schellak, A.B., M.S. in Social Administration, Director of Medical Social Service.

Alice Mary Folda, B.Sc., in H.Econ., Assistant Dietitian.

Lucille Evelyne O'Connor, B.Sc., in H.Econ., Assistant Dietitian.

Ruth Erdena Pohle, B.A., Supervisor in Hospital Laboratory.

Helen Irene Pitzer, Secretary to the Dean.

Violet May Pospichal, Secretary to the Dean.

Gertrude Landis, Finance Secretary.
COLLEGE OF MEDICINE

History.—The legislative Act of February 15, 1869, provided for the formation of the University of Nebraska at Lincoln, and included provision for a college of medicine. In 1883, the University of Nebraska College of Medicine was established at Lincoln. It continued in operation until the 1887 session of the legislature withdrew its appropriation, necessitating discontinuance of the college on May 19, 1887. The Omaha Medical College incorporated at Omaha in 1881, became a part of the University of Nebraska in 1902. The merger resulted in the first two years of the four-year medical course being given in Lincoln and the last two years in Omaha. Since 1913 the entire four-year course has been given in Omaha.

Standing.—Nebraska legislatures, since 1913, have appropriated more than two million dollars which the Board of Regents has devoted to the erection and equipment of buildings on the University of Nebraska College of Medicine campus at Omaha. The campus provides for the instruction of students in the basic sciences, and in the University Hospital and Dispensary, for clinical teaching and experience. A constantly increasing Faculty has met the demands of the expanding requirements of medical education, and, through our affiliated hospitals, adequate clinical facilities have been provided.

The College of Medicine meets the requirements of the most exacting state examining and licensing boards. Its diploma grants the holder all privileges accorded to graduates of any medical college in the United States. It is a member of the Association of American Medical Colleges and is approved by the Council of Medical Education and Hospitals of the American Medical Association. It maintains high standards in instructional staff and content of courses.

The course of study in medicine covers four years of 36 weeks each. The first two years in medicine include those laboratory sciences which form the basis for the clinical studies of the last two years. The clinical application of laboratory subjects is emphasized and introductory clinical subjects are given in the second year. The last two years are spent largely in the study of disease in clinics of the hospital and outpatient department. The objective method is followed in laboratories and clinical instruction. In all courses students are encouraged to do a large amount of individual work and are arranged in small groups to meet both laboratory and clinical instructors.

Application for Admission

Application for admission should be addressed to the Registrar, College of Medicine, 42nd Street and Dewey Avenue, Omaha 6, Nebraska. Printed application forms are available at the College of Medicine. Completed applications and credentials should be forwarded to the Registrar early in the year of final pre-medical preparation. Applications must be completed before April 1 or they will not be considered. Sufficient time must be given the University Examiner to allow for a complete evaluation of the records of students who have taken their premedical work at schools other than the University of Nebraska. This written report must be received by the Registrar, College of Medicine, on or before April 1.

The selection of medical students is based upon their scholastic standing in premedical studies, upon their character and personal fitness for
the practice of medicine as disclosed by personal interviews and letters of recommendation, and upon their scores in the various tests. Preference will be granted to residents of Nebraska.

Credentials

Applicants for admission to the College of Medicine must present the following credentials:

1. An official transcript of high school work showing the grades and credits earned.
2. Official transcript from each college or university attended showing the grades and credits earned.
3. A completed application form for the College of Medicine.
4. A small recent unmounted photograph, preferably 2" x 2".
5. Two character appraisals from professors of pre-medical sciences, preferably chemistry, zoology or physics.
6. The results of the Graduate Record Examination for pre-medical students on forms provided.

A personal interview with the Dean, or members of the Committee on Admissions and Scholastic Standing is desirable.

A fee of $5.00 must accompany the application of applicants who are not legal residents of Nebraska. The fee will cover the cost in handling the application and is not refunded.

Specific Educational Requirements

High School.—Fifteen secondary school units are required for admission and must include three units in English, one of which may be certified from the ninth grade; two in one foreign language (ancient or modern); two in mathematics (one each of algebra and geometry or an equivalent combination of general mathematics); and one in science (biology, botany, chemistry, physics or zoology).

College or University.—The following pre-medical program of subjects represents the minimum credits now required of all applicants for admission to the College of Medicine:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry (4 hours of which shall be organic)</td>
<td>12</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>56</td>
</tr>
<tr>
<td>Total</td>
<td>90</td>
</tr>
</tbody>
</table>

The pre-medical course must include at least 90 semester hours completed in an approved college of arts and sciences or in a university. The students are urged to elect a broad list of courses including the humanities as well as the basic sciences. This might well include sociology, psychology, history, advanced English, and a major foreign language, preferably German, to be carried through two or three years unless it has been begun in high school.

Semester hours in subjects such as anatomy, histology, embryology, physiology, biochemistry, medical bacteriology, or any other subject which is taken in Medical College cannot be utilized in satisfying the admission requirements. Credits offered from professional schools which do not regularly receive Arts College credit are not acceptable for admission to the College of Medicine.
Beginning in September, 1951, the following prerequisites will be re-
quired of all applicants for admission to the College of Medicine. All
students seeking admission to the College of Medicine prior to that time
are encouraged to meet these prerequisites as nearly as possible.

CHEMISTRY, fifteen semester hours which must include general inorganic
chemistry, quantitative analysis, and organic chemistry.

BIOLOGY, eight semester hours, of which at least four semester hours
represent laboratory work. The requirements may be satisfied by a
course of eight credit hours in either general biology or zoology or by
four credit hours each in zoology and botany, but not by botany alone.

PHYSICS, eight semester hours including mechanics, sound, heat, elec-
tricity, magnetism and light.

ENGLISH COMPOSITION AND LITERATURE, six semester hours. The usual
introductory college courses or their equivalent. Students should develop
the ability to speak and write good English and those found deficient in
the use of written or spoken English will not be permitted to enter upon
or to continue the medical course.

FOREIGN LANGUAGE, a reading knowledge of a foreign language, prefer-
able a modern foreign language.

ELECTIVES. It is recommended that the remaining hours include psy-
chology, social studies, history, and other humanities.

Registration and Admission to Classes

Registration in the College of Medicine is for a period of one academic
semester. Upon receipt of notice that an applicant has been accepted for
entrance to the College of Medicine, he is required to send a deposit of
$25.00 to be applied to matriculation and as part of payment of the tuition
fee for the first semester or to be forfeited if the applicant fails to reg-
ister in the class for which he was accepted. Applicants who are eligible
for the provision of Public Law 346, 79th Congress (G.I. Bill) should
present their certificate of eligibility in lieu of the $25.00 entrance deposit.

Registration is accomplished on the day indicated in the official cal-
endar. A fee of $3.00 is charged any student who, unless excused by the
dean, seeks to register later than this day. A fee of $1.00 is charged for
reregistration. Any change whatever in a registration once made is con-
sidered as a reregistration. No work done in the College of Medicine
may be granted credit without proper registration. Eligibility for the
degree of Doctor of Medicine requires registration in eight separate se-
mers. No regular student is registered for less than 12 hours a semester
without the dean’s permission, nor under any conditions for more than
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.

Advanced Standing.—Application for admission in the second and third
medical year classes will be considered only from medical schools ap-
proved by the Council on Medical Education and Hospitals of the Ameri-
can Medical Association and provided vacancies exist. An applicant for
admission must furnish evidence that he has satisfactorily completed
courses equivalent in kind and amount to those taken by the class to
which admission is sought, and must present also a letter of honorable
dismissal. The University of Nebraska College of Medicine reserves the
right in every case to give examinations in any or all subjects in which
credit is requested.
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.

No student will be admitted to advanced standing in any class while he has a delinquency in any subject. No student may become a candidate for graduation unless he has spent the last two years in residence at this college.

Credit Requirements.—In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the Doctor of Medicine 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 Committee on Admissions and Scholastic Standing. Admission to any class does not necessarily carry with it credit in all work previously done by the class, since the Committee on Admissions and Scholastic Standing has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the students of this College, and in case the work is not equal to such requirement the deficiency stands against the student as an “incomplete” until removed.

Class Standing and Examination.—The standing of a student in any course is determined by the instructor in charge of the subject through examinations, personal contact, and observation of routine work. The passing grade for subjects of the first and second medical years is 4 (70 per cent) and for the third and fourth medical years 5 (75 per cent). A grade below passing constitutes a “failure.”

A student who fails to make an average of 5 (75 per cent) in all of the subjects of either the first or second medical year shall be reexamined in all of the subjects of the respective year by an examining committee before being permitted to register for the following year. A student is allowed to take only one recapitulation examination.

A course, which for a good reason has not been completed, may, if of passing grade, be marked “incomplete.” Such incomplete must be removed by the end of the first semester in which the course is again offered or it becomes a failure.

A failed subject must be absolved by reregistration in and satisfactory completion of the subject at or before the next offering in the college schedule. A reregistered subject takes precedence over all other subjects. A minimum grade of 5 in each course is required of students repeating work during the first two years. A student who has failed twice here or elsewhere in the same subject is not eligible for registration in that subject at this college.

Attendance at less than 80 per cent of the scheduled lectures and recitations or 85 per cent of the scheduled laboratory and clinical hours constitutes a failure in any course and shall be so reported.

Whenever at the end of any semester a student is delinquent in half or more of his registered hours, his name is automatically dropped from the rolls of the College of Medicine and his registration cancelled.

Student discipline will be handled by the Dean of the College of Medicine who will make recommendations for suspensions, dismissals, or other suitable action as the case warrants, to the Faculty of the College of Medicine, the Chancellor, and the Board of Regents. The Dean may appoint a committee of the Faculty to advise him on such matters.
Absence or Withdrawal.—The Dean of the College of Medicine is the adviser of all students in the College of Medicine. 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. 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 at least 21 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 all required courses and examinations of the College of Medicine, University of Nebraska. The last two years work must have been taken at this institution.
5. He must write an acceptable paper on a question posed by the Examinations Committee at the end of his senior year.
6. He must write an acceptable senior thesis.

The degree of Doctor of Medicine cum laude may be conferred upon students who have complied with certain requirements laid down by the faculty and whose work shows unusual merit.

Combined Academic and Medical Courses

Course Leading to the Degrees of Bachelor of Arts or Bachelor of Science and Doctor of Medicine.—By completing the group requirements of the College of Arts and Sciences and two minors (or one major) and by the use of the subjects of the first year of the medical course as a major, the student is enabled to receive at the end of four years the degree of Bachelor of Arts or Bachelor of Science in the College of Arts and Sciences.

Candidates for baccalaureate degrees in institutions other than the University of Nebraska may arrange with their colleges to accept transcripts of the work of the first two years in medicine to apply to such degrees, or otherwise satisfy the requirements of those institutions.

Course Leading to the Degree of Bachelor of Science in Medicine.—Only students presenting premedical college credits of high standard and who have completed the first two years in medicine, the last year of which shall be in residence in this institution, but who have not fulfilled the requirements for the degree of Bachelor of Science in the College of Arts and Sciences, may become candidates for the degree of Bachelor of Science in Medicine.

Graduate Work

Graduate work leading to the Master of Science or Doctor of Philosophy degree is offered at the College of Medicine under the rules and regulations of the Graduate College. Students registering for graduate work in Medical Sciences must comply with the general requirements of the Graduate College and special rules governing the graduate work in Medi-
cal Sciences. Admission to graduate work in the Medical Sciences may be granted to students upon recommendation by the Graduate Committee at the College of Medicine from any of the following categories:

1. Students with a Bachelor of Science or Bachelor of Arts degree from a recognized college or university who must attain an average grade of 85 in a qualifying examination in the basic medical sciences.

2. Students with a baccalaureate degree and the degree of Doctor of Medicine with an acceptable record.

3. Students with a Master's Degree in a related field from an acceptable college.

4. Students from the College of Medicine who have a bachelor's degree, who have completed the first two years of the regular curriculum in the College of Medicine or its equivalent, and who have attained an average grade of 7 (85) in their courses or passed a qualifying examination in the basic medical sciences with a grade of at least 85.

A student who wishes to become a candidate for an advanced degree must select work in one of the departments approved for graduate work.

Candidates for advanced degrees who select one of the preclinical departments for their thesis research may come from any of the four categories listed above.

Candidates for advanced degrees who select one of the clinical departments for their thesis research must hold the M.D. degree and must select some graduate work in the preclinical departments.

The distribution of graduate work should be such that not more than two-thirds of the total program, including thesis research, should be in the major field of study and the remainder in at least one other department for candidates for the Master's degree or in at least two other departments for candidates for the Doctor of Philosophy degree.

Candidates for advanced degrees who select one of the preclinical departments for their thesis research may select other preclinical departments for additional work. Candidates for advanced degrees who select one of the clinical departments for their thesis research must select preclinical departments for additional work.

Graduate students may be required to obtain proficiency in their field of concentration by participation in the instruction of medical students for at least one semester in a regularly required course in the College of Medicine. A student who fails to earn an average grade of at least 85 may not continue his program of study without special permission of the Committee on Graduate Studies. The final oral examination for all advanced degrees will include a defense of the thesis and will determine the candidate's knowledge of the fundamentals in the field of medical science, and their integration with the special fields of study.

**Fees and Expenses**

All fees must be paid to the Comptroller at the time of registration. No person may enroll in or attend classes or take any examination until his fees are paid. Students are urged to retain all receipts issued by University officials. The following schedule of fees will remain in force for the year 1947–48 unless changed by The Board of Regents prior to registration.

The minimum tuition fee for the premedical years is $3 per credit hour.

**Matriculation**

Payable on entering a college .......................................................... $ 5.00

Being statutory, this fee cannot be refunded except when collected in error.
FEES AND EXPENSES

Nonresident

Minimum, each semester (see paragraphs below) .................................................. $ 75.00

Registration

This fee is charged every student each and every time he registers in the University.

Re-registration or any change in registration .................................................. 1.00

Late registration (fees paid after designated days) minimum .......................... 3.00

For each additional week after classes have begun ........................................ 1.00

Tuition

Tuition, each semester .......................................................................................... $150.00

Irregular students, per credit hour ...................................................................... 8.50

A breakage fee of $10 per year is charged, the unused portion of which will be returned at the end of the fourth year.

For elective courses requiring laboratory space, apparatus, and material, an extra fee is charged. This fee is by agreement between the student and the chairman of the department, and is based on the amount of material required. No student in the College of Medicine may be excused from tuition payments because of the fact that he holds an appointive position or is doing instructional work for any department. Special course fees or the fees of students taking part-time work is prorated on the basis of the number of hours of work. In no case is the fee more than 20 cents for each hour of work. The minimum fee, however, is $10. Breakage in the laboratory and damage to the College property is charged to the individual or class responsible. In case the responsibility for the damage cannot be placed it is charged to the class pro rata.

Incidental

Medical Service, each semester .......................................................................... $ 5.00

Transcript (one copy furnished free)

Each additional original copy ............................................................................. 1.00

Each additional original and one carbon ......................................................... 1.25

Special Examination

Each subject, Medical College ........................................................................... $ 5.00

Advanced standing by examination, per credit hour ........................................ 3.00

Graduation

Baccalaureate degree .......................................................................................... $ 5.00

In absentia or medical cum laude, additional .................................................. 10.00

No person may be recommended for a degree until he has paid all fees, including the fee for graduation.

Nonresident Students.—All students not residents of Nebraska must pay a nonresident fee, the fee charged being not less than the fee charged to residents of Nebraska for a similar course of study in a corresponding institution by the state in which such a nonresident has his home.” This fee will not be less than $75 a semester. The exact amount will be determined when application is made for entrance to the University.

The following rules have been adopted by The Board of Regents:

1. In accordance with statutory provisions, all students not domiciled in Nebraska are required to pay the nonresident fees. These entering the state to attend a state school, or within one year prior to matriculation, are presumed to be nonresidents and the burden of overcoming this statutory presumption is upon them. Ordinarily this will not be satisfied by a mere declaration, while attending school, of intent to reside in Nebraska.

2. One desiring exemption shall make a verified application therefor upon a blank to be secured from the Comptroller’s office and approved by the committee on exemptions. All information called for by the form shall be given in full. When duly verified, the application shall be filed in the Comptroller’s office.
3. Students who are charged the nonresident fee, and who claim exemption, must file their application for exemption in the Comptroller's office on or before the end of the ninth week of the semester for which the fee is charged; in the case of summer sessions, before the end of the third week of the term for which the fee is charged. For failure after due notice to file such application on said date, the fee becomes automatically assessed to the student.

4. In all cases the burden is upon the applicant to make a showing sufficient to justify the requested exemption. While personal hearings will not be granted as of right, the committee will summon the applicant for a personal interview in all cases where it is of the opinion that such an interview will aid the proper disposition of the case.

It should be noted that no provision is made for exempting students from this fee on account of financial need or of scholarship. Students coming from outside the state therefore should be prepared to pay the fee throughout their University career.

Refunds.—The matriculation fee will be refunded only when charged through an error of a University official. Registration and medical service fees will not be refunded but tuition and nonresident fees may be refunded on withdrawal in good standing from the University as follows:

<table>
<thead>
<tr>
<th>Tuition Returnable</th>
<th>All</th>
<th>75%</th>
<th>50%</th>
<th>25%</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each semester, withdrawal within</td>
<td>1-2</td>
<td>3-6</td>
<td>7-10</td>
<td>11-14</td>
<td>15-18 weeks</td>
</tr>
</tbody>
</table>

Microscopes.—Students are urged to provide suitable modern microscopes for their own use.

Expenses.—Board may be obtained in the vicinity of the College campus at an average of $10 per week. Comfortable rooms for the individual cost $25 a month. Students rooming together may obtain comfortable rooming quarters at approximately $15 per month each. Seventy-five dollars a year should be allowed for books and instruments. The average expense of the student for a school year, including board and room, books, instruments and all fees is between $800 and $1,200.

Employment.—A city the size of Omaha offers many opportunities for students to defray a part of their expenses. The College of Medicine does not, however, guarantee employment.

Student Health Service

The Student Health Service, which is a part of the Division of Preventive Medicine, has as its function the protection and conservation of the medical and nursing students. Periodic physical examinations are given and immunizations of proved worth are offered. Laboratory, X-ray and hospital facilities are available to those who need them. Ill students may report here for examination and treatment.

Laboratory Facilities

Anatomy.—The Department of Anatomy occupies the third and fourth floors of the North Laboratory Building. The rooms are well lighted and ventilated. The “unit room” system—each unit accommodating four or eight students—has been adopted as superior to that of a large common dissecting room. The state anatomical law provides ample material for dissection. In the laboratory for microscopic anatomy individual desks, lockers, reagents, etc., are at the student's command, as are also excellent collections of histological and embryological material, models, charts, etc.
Biochemistry.—This department, located on the fourth floor of the South Laboratory Building, is amply equipped with modern scientific apparatus. It also has special research laboratories equipped with calorimeter, thermostat, automatic burettes, electric stoves, etc. A balance room and rooms for combustion, calorimetric, and Kjeldahl work are among the excellent facilities of this department.

Clinical Pathology.—For clinical clerk service a central hospital laboratory is provided, in which clinical laboratory work on assigned cases is done under supervision. For tissue examination, a special laboratory is located on the ground floor of the first hospital unit, with necropsy room adjacent.

Maternal and Child Health.—The Departments of Biochemistry, Obstetrics and Pediatrics, in cooperation with the Bureau of Maternal and Child Health of the State Department of Health, maintain a special laboratory for the detailed investigation of clinical problems. This laboratory is located on the fourth floor of the hospital building and is equipped for the special biological and chemical tests necessary for the study of patients. This laboratory also carries on clinical investigation under the direction of the sponsoring departments. It serves both a teaching and research function.

Pathology and Bacteriology.—This department occupies the first and second floors of the North Laboratory Building, and has two large teaching laboratories for bacteriology, for general pathology of the second medical year, and for clinical and special pathology of the third medical year. Ample facilities and apparatus, with the exception of microscopes, are provided for each student.

Pharmacology.—Experimental pharmacology occupies the third floor of the South Laboratory Building. The chemical and pharmaceutical work of the student is carried on in this laboratory. The department's equipment includes private laboratories for experimental work.

Physiology.—The main physiology laboratory in the South Laboratory Building accommodates 40 students in each section; separate tables with lockers are provided for each pair of students. The room for mammalian experimentation accommodates 32 students. For research work and special experiments, several additional rooms are available. The work shop, the instrument room, and the photographic room furnish opportunities for additional types of work.

Clinical Facilities

University Hospital.—The University Hospital forms the largest unit of the group of buildings constituting the College of Medicine. It is the center around which all the activities of the various departments are grouped, making possible a close correlation between clinical and laboratory teaching. The hospital, modern in every respect, contains floor space for 212 beds, and provides for the care of a wide variety of cases.

Patients are received from the several counties of Nebraska and are admitted on the application of a legally qualified practitioner of medicine and county official. There are no private patients.

The ground floor contains an admitting department, drug room, kitchen, dining rooms, pathological laboratories, necropsy amphitheater, the X-ray and physical medicine department, together with photography, and the stack room of the library. The first or main floor contains the college and hospital administration offices, alumni office, medical amphitheater, reading room of the library, office of the dietitian, three medical wards, staff
room, and electrocardiograph room. The second floor provides four surgical wards similar to those on medicine, a faculty conference room, the offices of the School of Nursing, and the Medical Record library. The third floor contains wards for obstetrics and gynecology, a nursery, a children's ward, and a central hospital supply as well as the operating pavilion for obstetrics. On the fourth floor is situated the operating pavilion with rooms for general surgery and the surgical specialties which will accommodate large and small groups of observers, the hospital laboratory, the laboratory for clinical clerks, and interns' quarters. Each ward is provided with a large solarium.

The control of the University Hospital rests in The Board of Regents and is administered by the College of Medicine.

University Dispensary.—The dispensary is located in the South Laboratory Building. Separate services, each having its own rooms and equipment, are provided in: dermatology; eye, ear, nose, and throat; genito-urinary diseases; gynecology; internal medicine; neurology; obstetrics; pediatrics; and surgery. There is also an out-call service which provides medical treatment in the homes, and in its problems, cooperates with the Visiting Nurses' Association and other charitable agencies of the city. These activities furnish a wide diversity of diseases and are organized for the teaching of the senior students.

Extramural Hospitals.—Bishop Clarkson Memorial, Lutheran, Immanuel, Nebraska Methodist, Hattie B. Munroe Convalescent Home and Douglas County hospitals are available for regular or special clinics as needed. Clinics in Psychiatry and Tuberculosis are provided at the Douglas County Hospital. Members of the University Faculty are on the staffs of all these hospitals.

Hospital Appointments.—Graduates of the College of Medicine are afforded a wide choice in the selection of internships. Fourteen internships and twenty-six residencies in the major specialties are available at the University Hospital.

Library and Museum Facilities

College of Medicine Library.—The college library is located in a wing of the Hospital Building and within easy access from the various laboratories, and stands as a vital, common interest to the laboratory and clinical branches of medical instruction. The spacious reading and seminar rooms furnish a most congenial place for students and faculty to work. Accessions, cataloging, and indexing are in charge of a competent, expert librarian. The 55,000 bound volumes and 28,000 unbound pamphlets, reprints, and theses are the result of purchases and acquisitions extending over more than half a century and represent the mature judgment, as to valuable medical literature, of many specialists. There has thus been built up, not only a very valuable research library, but one which offers students abundant opportunities for additional reading and study. 460 standard scientific periodicals are on the regular subscription list. The College of Medicine is accumulating all of the publications issued by the Army, the Navy, and the U. S. Public Health Service inspired by World War II.

Incidental to its ordinary functions, the library has in recent years laid emphasis on the acquisition of material of historic interest, including pictures of great medical men, biographies, histories, and surgical instruments. It also keeps a file of reprints from the writings of Nebraska medical authors. Incorporated within the library of the College of Med-
Fellowships, Assistantships and Loan Funds

Fellowships are available to students who qualify for graduate study and research in the medical sciences. Application should be made to the chairman of department concerned.

Graduate Assistantships are available to students of exceptional ability to give them opportunity to do research in the medical sciences and fulfill the requirements for a Master of Science or Doctor of Philosophy degree.

The C. W. M. Poynter Foundation.—A fellowship under the sponsorship of the Poynter Foundation provides a stipend of $1,200 for a period of ten months, during which time the recipient will be expected to devote his entire time to research under the direction of any department of the College of Medicine. Applicants should have completed two or more years of medicine and have demonstrated ability and aptitude for investigative work. The recipient may, if he desires, become a candidate for an advanced degree in the medical sciences.

The Josephine Chamberlin Loan Fund.—On the retirement of Miss Josephine Chamberlin as Superintendent of the University of Nebraska Dispensary, on June 11, 1946, a fund was established in her honor. From this fund loans are available to students of the College of Medicine and the School of Nursing. Application should be made at the Dean's office.

The Sidney R. Kent Fellowship in Medicine.—An award of $500 is available annually to the student in the College of Medicine who has made the most outstanding record and who desires to pursue further work in medicine. Such study may be pursued either in the University of Nebraska or elsewhere agreeable to the action of the Committee. Details of this award may be learned on application to the Dean's office or to the Sidney R. Kent Committee of Awards.

The LaVerne Noyes Foundation Scholarships.—LaVerne Noyes Scholarships are awarded usually on a yearly basis. However, recipients may file renewal applications each year. Original and renewal applications should be filed during June and July at the office of Dean of Student Affairs. LaVerne Noyes Scholarships are available to students regularly registered for work at the college level in any college or school of the University. At

University Library.—In Lincoln, the University Library, containing more than 420,000 volumes is freely accessible to students and faculty in Omaha. Books may be withdrawn at any time upon demand. Likewise through the Medical College librarian 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 113,000 volumes at the State Capitol and the Nebraska State Historical Society Library of 50,000 volumes includes 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.

Museum.—The pathological museum of the College of Medicine contains about 5,000 specimens. Nearly every variety of pathological lesion is represented and the constant addition of fresh material from the autopsies performed continually adds to its interest. In addition to the gross specimens are thousands of microscopic sections and a large collection of wax reproductions of various lesions. The museum is an important and necessary adjunct to the teaching of pathology and of clinical medicine.
present, sufficient funds are available to provide tuition not to exceed $50 per semester.

**Jetur Riggs Conkling and Jennie Hanscom Conkling Foundation.**—The will of the late Clementine C. Conkling provides for the creation of a trust to be known as the “Jetur Riggs Conkling and Jennie Hanscom Conkling Foundation,” the income of which shall be used by the Regents of the University of Nebraska in providing scholarships for deserving medical students. Scholarships may be awarded only after the close of the students’ first year in the Medical College. Applications should be addressed to the Dean.

**Omaha Medical College Foundation.**—This foundation, created in April 1921, was established largely through contributions received from former professors in the Omaha Medical College. The object of the foundation is to promote the study of medicine and to provide for medical research in the University of Nebraska College of Medicine and to assist worthy students with loans.

**Nebraska Federation of Women’s Clubs Scholarship Loan.**—An annual grant of $200 is made for a loan to a student in the College of Medicine, on the basis of scholarship and financial need.

**Kellogg Fund.**—In April, 1942 the W. K. Kellogg Foundation of Battle Creek, Michigan, gave the College of Medicine $10,000 to be used as a student loan fund, particularly to meet the emergency created by the accelerated war schedule and the consequent loss of student earnings during the summer. An additional grant of $5,000 was made later in the year.

**Student and Alumni Organizations**

**Alumni Association.**—Alumni of the University of Nebraska College of Medicine maintain an active organization with headquarters in Omaha at the college. Dr. E. A. Holyoke is secretary.

The alumni of the medical college offer a prize of $50 for the senior thesis of the year judged best by the Examinations Committee.

**Alpha Omega Alpha.**—A.O.A. is a non-secret medical college honorary society, membership in which is based upon scholarship and moral qualifications.

Elections are made from the students who have completed seven semesters of the four-year medical curriculum and are made by unanimous vote of the active members of the Chapter. Not more than one-sixth of any class may be elected to membership. The University of Nebraska Chapter was organized November 2, 1914.

**Premedical Society.**—A large premedical society has existed for a number of years among the students in the premedical courses at Lincoln. This society meets monthly for an informal evening and to hear addresses by members of the faculty.

A Saturday in May is set aside each year as Premedic Day for a visit to the Omaha campus.

**Medical Curriculum**

**Departmental Hours.**—The course of study outlined is constructed in accordance with the recommendations of the Council on Medical Education and Hospitals of the American Medical Association and of the Association of American Medical Colleges. The experience of the best medical colleges of the country has been freely utilized. The University Hospital and Dispensary on the Medical College campus furnish ideal opportunities for bedside clinical instruction in close relation to the scientific departments of the college.
## Summary of Departmental Hours

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<th>Year</th>
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1 Included as part of Gross Anatomy.
Courses of Instruction

In the following departments, courses numbered 1a, b, c, etc., are given in the first medical year; courses numbered 2a, b, c, etc., in the second medical year; courses numbered 3a, b, c, etc., in the third medical year; courses numbered 4a, b, c, etc., in the fourth medical year. Courses numbered 300 carry graduate credit. Roman I indicates courses offered the first semester and II, the second semester.

Anatomy

Professors Latta, Chairman, Poynter, Willard, Emeritus, Holyoke; Associate Professor Grodinsky; Assistant Professors R. R. Best, Garrett; Associate Pedersen; Instructor Kennedy; Assistant Nilsson.

In this department instruction is given in gross anatomy, histology, organology, embryology, and neurology. The work of the department extends through the first medical year.

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.

1. Anatomy.—
(a) Gross—Dissection of Upper Extremity.—Total 120 hours, second eight weeks. I.
(b) Gross—Dissection of Head and Neck.—Total 120 hours. II.
(c) Gross—Dissection of Torso and Perineum.—Total 108 hours. II.
(d) Gross—Dissection of Lower Extremity.—Total 54 hours. II.

The above courses cover dissection of the entire body. This work is carried out in groups of four, each group being assigned a separate room. From time to time table demonstrations and quizzes are required. Through this table teaching the student’s proficiency is increased and calibration of individual progress is made possible.

(e) Embryology—Histology.—A brief survey of the fundamental facts of vertebrate development as based on chick, pig, and human embryos is first undertaken. This is followed by a study of the histogenesis of the fundamental tissues leading directly to their adult histological structure. Morphogenesis and histogenesis of the various organ systems of the body, excepting the nervous system which is studied independently, are similarly correlated with their adult histological and gross structure and with the relationships shown in gross anatomy. Special emphasis is placed on the study of the blood and blood-forming organs and the organs classified as endocrine which are studied somewhat independently. Total 192 hours. I.
(f) Embryology—Histology.—Anatomy 1(e) continued. Total 91 hours, first eight weeks. II.
(g) Neuro-Anatomy.—The gross and microscopic anatomy of the nervous system including sense organs. Study is made of the human brain by means of gross dissection; gross and microscopic sections; gross and microscopic study of the eye; and other sense organs by specially prepared demonstrations. Text and lectures aim to integrate the details of laboratory study into functional systems applicable to later physiological and clinical studies. Lectures and laboratory. Total 117 hours. II.

Anatomy, Elective.—

300. General and Special Methods in Histological Technique.—Principles and practice in general methods of preparation of tissue for histological study; special training given in the fields of the student’s particular interest. Prerequisite: Anat. 1. 2 cr. Dr. Latta, Dr. Holyoke.

301. Special Neurohistological and Experimental Neurological Technique.—Advanced special technical methods of demonstrating the histological structure of nervous tissue and of the experimental approaches to neurological problems. Prerequisite: Anat. 300. 2 cr. Staff.

302. Morphological and Experimental Hematology.—Detailed study of the morphology and interrelationships between the cells of the blood, blood-forming organs and the connective tissues. Experimental studies of the biological significance of the cellular elements of the blood. Prerequisite: Anat. 300. 2 to 6 cr. Dr. Latta.
303A. Comparative and Human Embryology.—Special advanced studies of various features of reproduction and development as illustrated in the departmental embryological collection. Prequisite: Anat. 300. 3 to 6 cr. Dr. Latta.

303B. Experimental Embryology.—Advanced study and training in the methods employed in analysis of the factors and potentials operative in mammalian development processes. Prequisite: Anat. 300. 2 to 5 cr. Dr. Holyoke.

304. Advanced Human and Comparative Neuroanatomy and Neurohistology.—Advanced detailed study of the structural organization of the central and peripheral nervous system of man and/or various laboratory animals. Prequisite: Anat. 301. 2 to 5 cr. Staff.

305. Thesis Research.—Independent investigation of some problem chosen by consultation between the student and the staff. Cr arr. Staff.

306. Seminar.—Presentation of problems and accomplishments of investigations conducted by the graduate students and members of the department with critical discussion. By permission. 1 cr. Staff.

Biochemistry

Professor Morgulis, Chairman; Assistant Professor Jacobi, Instructor Wilder

The aim of the instruction in biochemistry is to acquaint the student with the elementary facts of this science with special reference to their application to the problems of clinical medicine. Much stress is laid on training in the necessary technic and the laboratory work affords the students ample opportunity to learn the theory and practice of various biochemical methods.

To further supplement the elementary instruction advanced courses of study are offered to meet the needs of those who desire to extend their study and research in the application of the principles and methods of biochemistry to problems of both clinical and scientific medicine.

The courses given in the Department of Biochemistry presuppose preparation in inorganic, organic, and analytical chemistry, and are designed: (1) to give fundamental training in physiological chemistry as required in the regular curriculum of the medical student; (2) to afford students, not candidates for the degree of Doctor of Medicine, the means for obtaining the necessary credits for the degrees of Master of Arts and Doctor of Philosophy; (3) to extend the facilities of the laboratory for special work in selected topics to physicians and students independently of the requirements for a degree. All students who are candidates for a degree are expected to attend Course 2, unless the content of this course has been covered in an acceptable manner elsewhere.

2. Biological Chemistry.—

(a) Physical Chemistry.—In this course various physiological and pathological problems are studied from the point of view of the principles of physical chemistry. Total 84 hours. First six weeks; 5 lectures and 9 hours laboratory per week. I.

(b) Biological Chemistry.—Biochemistry 2a continued and covering: (a) descriptive biochemistry, dealing with the composition of biological materials; (b) dynamic biochemistry, dealing with the action of enzymes, metabolism, dietetics, urine secretion. Various methods for blood and urine analysis are taken up in the practical work of this course, and metabolism experiments carried out by the students constitute an important feature of the laboratory experience. Total 154 hours. Remaining 11 weeks; 5 lectures and 9 hours laboratory per week. I.

Biological Chemistry, Elective.—

300. Metabolism and Nutrition in Health and Disease.—An advanced study in metabolism, including theories of basal metabolism, energy changes in the body, interconversion and the specific dynamic action of foodstuffs, methods used in respiratory metabolism and the relationships between overnutrition and undernutrition to diseases of the blood, kidney, and febrile conditions and endocrine disorders. Prequisite: Biochem. 2. 2 cr. Dr. Morgulis.

301. Vitamins and Hormones.—History of vitamin discovery, their physiology and pathology, and their relationship to enzymes, hormones and minerals; followed by a detailed study of the various vitamins in which the following are considered: chemical constitution, isolation, synthesis, properties, occurrence, effects of avitaminosis, hypervitaminosis and hyperhypervitaminosis and their clinical significance. Prequisite: Biochem. 2. 2 cr. Dr. Morgulis.
302. Enzymes.—This course deals with the chemical nature of enzymes, the methods for their isolation, the kinetics of enzyme reactions, and the biological properties of enzymes; followed by a discussion of the chemistry of individual enzymes, method of preparation, and physiological action, together with the clinical significance of individual enzymes. Prerequisite: Biochem. 2. 1 cr. Staff.

303. Seminar.—Cr arr. Staff.

304. Research.—Cr arr. Staff.

Dermatology and Syphilology

Professor Tomlinson, Chairman; Assistant Professors Cameron, Wilson

A thorough foundation in dermatology and syphilology is laid by lectures, quizzes, and demonstrations. At the University Dispensary the students are brought in personal contact with patients whom they observe throughout their entire care under the supervision of the attending physician. A large and carefully selected collection of plates and photographs is available for lantern use.

3. Dermatology.—
(a) Fundamentals.—General classification of skin diseases, with lectures and quizzes on anatomy, histology, physiology, pathology, general symptomatology, etiology, diagnosis and treatment. 1 hour weekly. Total 17 hours. I.

4. Dermatology and Syphilology.—
(a) Dispensary Clinic.—Lectures and clinics supplementary to Derm. 3, with emphasis placed on the diagnosis and treatment of the more common dermatoses. Demonstration of the various clinical manifestations of syphilis, with discussion of diagnosis and principles of treatment. 1 hour weekly. Total 34 hours. I, II.
(b) Dispensary.—Two weekly 2-hour clinics are held at the University Dispensary. Fourth-year students are assigned to these clinics for practical experience in the diagnosis of skin diseases and the treatment of syphilis. 4 hours weekly. Total 20 hours. I, II.

Internal Medicine


2. Internal Medicine.—
(a) History Taking and Physical Diagnosis.—Instruction in history taking; development of forms for comprehensive medical history; explanation of physical examination; inspection, palpation, percussion and auscultation. Course taught at University Hospital, using patients to demonstrate normal and abnormal findings. Total 17 hours. I.

(b) Symptomatology.—Principles of medicine and physiology and clinical interpretations of some of the more common symptoms. Mechanism of pain, referred pain, and other symptoms associated with various organs reviewed. Total 17 hours. I, II.

3. Internal Medicine.—
(a) Metabolic Disorders and Applied Laboratory Tests.—Explanation of primary and secondary changes that occur in metabolic diseases as diabetes mellitus, gout, thyroid disease, obesity, undernutrition, diabetes insipidus and other conditions. Food and mineral metabolism with clinical applications reviewed. Total 17 hours. I

(b) Principles of the Practice of Internal Medicine.—Small group quiz sessions on textbook assignments of important subjects of medicine. Three quizzes weekly. Total 102 hours. I, II.

(c) Clinical Clerk.—Assignment to clinical cases in hospital for complete history, physical examination, laboratory tests. Students may be required to present patients at regular staff rounds and clinics. Small groups of students assigned to the University Hospital for a period of 9 weeks each. 7 hours weekly. Total 63 hours. I, II.
(d) **HOSPITAL CLINIC.**—Presentation of selected cases to illustrate diagnosis and treatment and to supplement lectures and text-book assignments. Total 68 hours. I, II.

(e) **CARDIOLOGY AND ELECTROCARDIOGRAPHIC INTERPRETATION.**—Review of the more important heart diseases, with discussions of the etiology, pathology, disturbances of hemodynamics and principles of treatment. Elementary electrocardiography as illustrated by typical tracings and demonstrations of patients from the Hospital and Dispensary. Total 17 hours. II.

4. **Internal Medicine.**

(a) **DISPENSARY.**—Regular assignment to dispensary clinic; students given responsibility in diagnosis and treatment of ambulant patients of the type seen in the office. 8 hours weekly. Total 96 hours. I, II.

(b) **Out-CALL.**—Students assigned to answer calls requiring visits to homes, when patients are unable to attend the Dispensary. Daily supervision maintained and home visits made by attending staff on all difficult or serious cases. 16 hours weekly. Total 128 hours. I, II.

(c) **HOSPITAL CLINIC.**—Presentation of selected cases from hospital service. One 2 hour clinic weekly. Total 68 hours. I, II.

(d) **DIAGNOSTIC PROBLEMS.**—Discussion of medical, surgical, and personality features of the more common disease entities in hospital and dispensary patients, the aim being to instruct the student to consider the clinical case from a broader and more comprehensive aspect. Total 17 hours. I.

(e) **TROPICAL MEDICINE.**—Distribution, etiology, diagnosis and treatment of such tropical diseases as are of practical importance to American physicians. The endemiology and epidemiology of such diseases with the general and special sanitary measures adapted to the prevention, control and suppression of the same. 1 hour weekly. Total 17 hours. II.

(f) **MEDICAL SEMINAR.**—Review of medicine based upon current literature and systematic presentation of cases from the Hospital and Dispensary. Health examinations and compensation problems also reviewed, together with the various procedures used in industry and the government. 2 hours weekly. Total 34 hours. I.

(g) **THERAPEUTICS.**

300. **The Physiology of Symptoms.**—An advanced course in applied physiology with special reference to the fundamental basis for symptoms and physical findings encountered in clinical medicine. 3 cr.

301. **Problems in Metabolism and Endocrinology.**—The study of metabolic and endocrine disorders with special reference to the biochemical and physiological background of their genesis and clinical management.
   a. **DIABETES MELLITUS.**—2 cr.
   b. **ADVANCED ENDOCRINOLOGY.**—2 cr.
   c. **METABOLISM AND NUTRITION.**—2 cr.

302. **Advanced Gastroenterology and Biliary Diseases.**—An advanced clinical course in digestive disorders. 2 cr.

303. **Advanced Studies of the Cardiovascular-renal System.**
   a. **CARDIOLOGIC DIAGNOSIS AND ELECTROCARDIOGRAPHY.**—An advanced study of physical, radiologic and electrocardiographic findings in heart disease. 3 cr.
   b. **THE MANAGEMENT OF HEART DISEASE.**—Including the treatment of various cardiac emergencies and the employment of digitalis, its derivatives and allied preparations. 2 cr.
   c. **HYPERTENSION, NEPHRITIS AND PERIPHERAL VASCULAR DISEASES.**—An inclusive study of diseases of the vascular system, excluding diseases of the heart, but including those concerned with blood coagulation and the clinical employment of anti-coagulant therapy. 2 cr.

304. **Infectious Diseases, Rheumatism, Chemotherapy and Antibiotics.**—An advanced study of diseases of microbial origin as to etiology, resultant structure changes and treatment thereof. 2 cr.

305. **Seminar in Advanced Allergy and Hematology.**

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1 Formerly Therapeutics—Dropped.
2 Formerly Medical Review and Health Examination 4(h).
3 No longer offered.
a. Allergy.—An advanced review of sensitization and the diseases arising therefrom. 1 cr.

b. Hematology.—Clinical and laboratory observations in various anemic states with special reference to advances in therapeutic measures. 1 cr.

306. Research.—Cr arranged.

**Medical Jurisprudence**

Assistant Professor Spier

The course in medical jurisprudence has for its purpose the presentation of medico-legal relationships in order that the student may be familiar with that increasingly pertinent phase of professional life and practice. This course is a comprehensive survey of the medico-legal field and a detailed analysis and study of that science which applies the principles and practice of medicine to the elucidation and settlement of legal questions which arise in everyday professional practice as well as in courts of law.

4. Medical Jurisprudence.—

Physicians' contracts, general medico-legal relations, identity and survivorship, medical legislation, expert testimony, privileged communications, malpractice, and the physician's status on quasi-judicial commissions and boards are some of the subjects discussed. Total 17 hours. I.

**Neurology and Psychiatry**

Professors A. E. Bennett, Chairman, H. A. Wigton, Emeritus, G. A. Young, Sr., Emeritus; Associate Professor R. H. Young; Assistant Professor R. S. Wigton; Instructors, Aita, Cash, Sandrister, Stein; Clinical Assistant Steed.

Training in neurology and psychiatry is planned under its two separate divisions of psychiatry and neurology. The courses of instruction are arranged to give the student, from the freshman year on, progressive, systematic training in the anatomical, physiological, pathological, psychological fundamentals of neurology and psychiatry. The departments of anatomy, physiology and pathology cooperate in giving the first and second-year students special instruction in the anatomy, histology, physiology, and pathology of the central nervous system. Lectures in psychobiology in the freshman year emphasize the importance of personality development in its relation to both normal and abnormal body functioning. The presentation of clinical material with interpretation of symptomatology and instruction in methods of treatment is carried out during the third and fourth years in the University and Douglas County Hospitals.

1. Neurology and Psychiatry.—

(a) Normal Personality, Growth and Development.—Lectures of the normal personality, growth and development. An introduction to the principles of personality development. 1 hour weekly. Total 17 hours. II.

2. Neurology and Psychiatry.—

(a) Psychopathology.—Lectures on psychopathology and introduction to principles of psychosomatic medicine. Two hours weekly. Total 34 hours. II.

3. Neurology and Psychiatry.—

(b) Psychiatry.—Lectures and clinical demonstrations covering the field of psychiatry. Total 17 hours. I.

(c) Neurology.—Lectures and quiz-lectures covering methods of case taking, etiology, pathology, symptomatology, and treatment of the organic and functional nervous diseases. Total 17 hours. II.

(d) Clinical Clerk.—Cases from the University Hospital and Douglas County Hospital neuro-psychiatric departments are assigned to third-year students for complete case study and presentation before clinics. 6 hours weekly. Total 24 hours. I, II.

4. Neurology and Psychiatry.—

(a) Hospital Clinic.—In this clinic, cases of neurologic and psychiatric types are presented for the purpose of demonstrating the main forms of neurologic and psychiatric disorders and to allow a discussion of their treatment and their relations to the field of general medicine. 2 hours weekly. Total 68 hours. I, II.

(b) Dispensary.—Clinics are held at the dispensary to which fourth-year students are assigned for practical work in the diagnosis and treatment of ambulant patients. A special clinic is held on the subnormal child. 4 hours weekly. Total 16 hours. I, II.
36 COLLEGE OF MEDICINE

(b) CLINICAL CLERK.—Third-year students are assigned to University Hospital cases for complete history, physical examinations, and progress notes. Total 6 hours. I, II.

4. Otorhinolaryngology.—
(a) DISPENSARY.—Clinics are held twice weekly at the University Dispensary. Fourth-year students are regularly assigned for practical work in the diagnosis and treatment of ear, nose, and throat diseases. Conferences are held regularly during these hours. 6 hours weekly. Total 24 hours. I, II.

Pathology and Bacteriology

Professors Eggers, Emeritus, Gunderson, Schenken, Tallman; Assistant Professors Pliny Allen, Robert Allen; Instructor Townsend; Graduate Assistants.

It is the aim of this department to acquaint the student with the material changes which cause, or are caused, by disease, including, in bacteriology, a study of the character and host relationships of disease-causing microorganisms, and, in clinical pathology, a study of laboratory methods as related to diagnosis.

1. Bacteriology.—
(a) MEDICAL BACTERIOLOGY AND CLINICAL PARASITOLOGY.—Lecture and laboratory course on the cultural characteristics, pathogenic properties, immunological responses, etc., of bacteria, fungi, viruses and Rickettsia in general, with special reference to those of importance in disease. The course also provides a consideration of Clinical Parasitology and deals with Protozoa, Helminths and Arthropods of medical importance. Total 224 hours. I.

2. Pathology.—
(a) GENERAL PATHOLOGY.—Lecture and laboratory course on the study of general disease processes. It comprises a study of the general principles of pathology and of disease processes in detail, in classroom and laboratory. 119 hours laboratory, 85 hours class work. Total 204 hours. II.

CLINICAL PATHOLOGY

The aim of these courses is to emphasize the application of pathological principles to the study of clinical patients. This is accomplished through lectures which emphasize correlation of pathology and symptomatology, and by the teaching of laboratory methods which are in general use in the study of patients. Detailed discussion of the cases assigned in the clinical clerk services gives particularized application for the individual students. Experience in laboratory procedures is continued by dispensary assignments in the senior year amounting to about 30 hours.

2. Clinical Pathology.—
(b) CLINICAL LABORATORY METHODS.—Laboratory diagnostic tests with particular attention to the procedures which the physician can readily perform in a small laboratory. Use of these procedures in the study of clinical patients is emphasized. 5 hours weekly. 17 hours lecture, 68 hours laboratory. Total 85 hours. II.

3. Clinical Pathology.—
(a) CLINICAL PATHOLOGY.—Systematic disease, with emphasis on correlation of pathology and symptoms using gross and microscopic pathologic material. Particular attention is given to interpretation and correlation of all laboratory procedures. 34 hours lecture. I.

(b) HOSPITAL LABORATORY.—Regular assignment on clinical clerk service for practical work and discussion of cases. 4 hours weekly. Total 68 hours. I.

(c) CLINICAL PATHOLOGY CONFERENCE.—Selected cases are discussed from the standpoint of correlation of clinical observations with radiological and pathological findings. Whenever possible these cases parallel the lectures given in clinical departments. 1 hour weekly. Total 34 hours. I, II.

4. Pathology.—
(a) CLINICO-PATHOLOGIC CONFERENCE.—Selected recent cases are presented jointly by a Clinical Department and the Clinical Pathology Department for discussion of diagnosis, management and correlation with pathologic findings. Total 34 hours. I, II.

(c) CLINICAL PATHOLOGY CONFERENCE.—Continuation of Clinical Pathology 3c. Total 34 hours. I, II.

Formerly Necropsies.
Instruction in public health is given to second-, third-, and fourth-year students. These courses aim at giving the students a sound understanding of the principles of disease prevention and health maintenance and of giving them practical experience in the dispensary and in the field. Special emphasis is laid on the growing responsibilities of the physician in this toward his patients and the public at large.

2. Public Health.—

(c) Hygiene.—The relationship between water, food, air, soil, waste disposal, etc., and the development of disease in both urban and rural conditions. Reports of inspection of industrial and public service plants and methods. Total 17 hours. II.

3. Public Health.—

(d) Hygiene.—Continuation of Hygiene 2(c): Total 17 hours. I.

4. Public Health.—

(b) Public Health Administration.—Medical practice in relation to public health agencies, social histories, environment and disease, special methods of preventive medicine, as quarantine, immunization, and disinfection. 2 hours weekly. Total 34 hours. I.

Pathology and Bacteriology, Electives.—

300. Physiology of Bacteria.—Nutritive requirements of bacteria, growth, metabolism, enzymes, dormancy and death. Determinative bacteriology. Prerequisite: Bact. 1. 5 cr. Dr. Gunderson.

301. Public Health Bacteriology.—The facilities of the diagnostic laboratory, with its turnover of at least 5,000 diagnostic tests per annum are available for this course.

a. Study of diagnostic technics. Hospital laboratory diagnosis. Prerequisite: Path. and Bact. 300. 5 cr. Dr. Tollman, Dr. Gunderson.

b. Immunology. Laws of hemolysis, antigen-antibody relationships, blood grouping, anaphylaxis. Prerequisite: Path. and Bact. 300. 3 cr. Dr. Tollman, Dr. Gunderson.

302. Molds, Yeast, and Actinomycetes.—A study of fungi of medical importance; their morphological and immunological characteristics. With emphasis on the recognition and diagnosis of those producing mycotic infections in man. Prerequisite: Path. and Bact. 300. 3 cr. Dr. Gunderson.

303. Filterable Viruses.—Character, nature and transmission of viruses. Important human virus diseases. Prerequisite: Path. and Bact. 300. 3 cr. Dr. Gunderson.

304. Applied Bacteriology.—Bacteriology of sanitation. Food bacteriology. Prerequisite: Path. and Bact. 300. 3 cr. Dr. Gunderson.

305. Medical Parasitology and Tropical Diseases.


b. Diseases of animals transmissible to man. Plague, Tularemia, Undulant Fever, Typhus, Spotted Fever, etc.—Prerequisite: Path. and Bact. 300.

306. Autopsy Pathology.—In addition to participation in autopsies, the student will study in detail both gross and microscopic tissue changes, and will correlate these with clinical findings. Prerequisite: Path. 2. 5 cr. Dr. Tollman.

307. Pathology of Tumors.

a. An intensive course in oncology, with special attention to the morphology, derivation, and course of various tumors. Prerequisite: Path. and Bact. 306. 3 cr.

b. Studies of bone tumors. Prerequisite: Path. and Bact. 307a. 2 cr.

c. Studies of tumors of the nervous system. Prerequisite: Path. and Bact. 307a. 2 cr.

308. Etiology of Tumors.—This will be a general study of the subject of tumor etiology with special emphasis on the phases represented by the investigative work carried on by the student. In large part this will be carried on by study of the periodical literature. Prerequisite: Path. and Bact. 306. 1 cr.

309 (301). Seminar.—By permission. 1 cr. Staff.

310 (300). Research.—Cr arr. Staff.
Pediatrics

Professors Henske, Chairman, J. C. Moore; Associate Professors Gedgoud, Jahr, Robertson; Assistant Professors E. W. Bantin, Clark; Instructors C. F. Bantin, Hancock, Klok, Morrow, Tompkins; Clinical Assistant Crofoot.

2. Pediatrics.—
(a) GROWTH AND DEVELOPMENT.—Diseases of newborn. Lectures and clinics. 2 hours weekly. Total 34 hours. I.

3. Pediatrics.—
(b) INFANT NUTRITION.—Infant feeding, deficiency diseases, disorders of metabolism. 2 hours weekly. Total 34 hours. I.
(c) COMMUNICABLE DISEASES.—Lectures and clinics at Contagious Hospital. 1 hour weekly. Total 17 hours. II.
(d) CLINICAL CLERK.—Students are assigned to University Hospital cases for complete history, physical and laboratory examinations, with requirement of progress notes and presentation at staff rounds and clinics. 6 hours weekly. Total 24 hours. I, II.

4. Pediatrics.—
(a) GENERAL PEDIATRICS.—Clinics and lectures on all aspects of pediatrics, utilizing clinical material within the hospital and out-patient departments. Behavior problems. 1 hour weekly. Total 34 hours. I, II.
(b) DISPENSARY AND OUT-CALL.—Four weekly 2-hour clinics are held at the dispensary to which fourth-year students are assigned for practical work in the diagnosis and treatment of ambulant cases. All children enter the dispensary through the pediatric clinics. Special clinics utilizing postnatal cases, and rheumatic heart cases are held each week. Supervised home visits are made to pediatric patients unable to attend dispensary. 10 hours weekly. Total 40 hours. I, II.

Physiology and Pharmacology

Professors McIntyre, Chairman, A. L. Bennett; Associate Professor F. L. Dunn; Instructor Sievers; Graduate Assistants.

The general courses in physiology and pharmacology stress the fundamental principles underlying living processes. The experimental evidence for present theories is examined and the application of these concepts to the study of abnormal physiology and to pharmacology is emphasized. Special instruction is provided in advanced physiology and pharmacology for students seeking higher degrees.

2. Physiology and Pharmacology.—
(a) PHYSIOLOGY GENERAL COURSE.—Muscle and nerve, central nervous system, circulation, digestion, metabolism, and special senses. Lectures, demonstrations, and conferences. Total 85 hours. I.
(b) PHYSIOLOGY LABORATORY COURSE.—Practical course in conjunction with Physiol. and Pharmacol. 2a. Total 136 hours. I.
(c) PHYSIOLOGY AND PHARMACOLOGY GENERAL COURSE.—Physiology of the kidney; physiology of the autonomic nervous system; physiology of the action of drugs; endocrinology; the vitamins; and prescription writing. Lectures, demonstrations, and conferences. Total 85 hours. II.
(d) PHYSIOLOGY AND PHARMACOLOGY LABORATORY COURSE.—Practical course in conjunction with Physiol. and Pharmacol. 2c. Total 136 hours. II.

Physiology and Pharmacology, Electives.—
330. Technique in Experimental Physiology and Pharmacology.—This course consists of instruction in surgical procedures on mammalia, reptilia, and amphibia and the preparation of organs and tissues in situ and ex situ for experimental study; instruction in the construction, manipulation and operation of apparatus. Prerequisite: Physiol. and Pharm. 2. 3 cr. Dr. McIntyre and Staff.

351. Special Physiology and Pharmacology.
(a) Advanced Physiology and Pharmacology. In Vivo aseptic preparations; instruction in the fundamental techniques of aseptic surgery for the preparation of animals for study, and their post-operative care. Prerequisite: Physiol. and Pharm. 300. 1-3 cr. Dr. Bisgard.
b. Advanced Physiology and Pharmacology. *In Vivo* preparations. The preparation of tissues for *in vitro* metabolism studies, perfusion of organs, isolated heart preparations, isolated smooth and striated muscles, myography, electromyography, cardiography, oncometry, and plethysmographic studies. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. McIntyre.

c. Preparation of nerve for action-potential studies and other phenomena associated with nerve activity; the electrostatic volt meter, the cathode ray oscilloscope, direct-current amplification; the modification of nerve activity by chemical and physical agents. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. Bennett.

352. Advanced Pharmacology.

a. Toxicology. The recognition of poisons in the body. The quantitative determination of toxic substances in necropsy materials and excreta; polarigraphic quantitative determination of metallic ions present in tissues. Qualitative and quantitative tests for alkaloids by polarigraphic and other methods. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. McIntyre.

b. Bioassay. The assay of drugs and hormones and so called vitamins by biometric methods, including standardization of drugs and biologically active substances. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. McIntyre.

353. Vitamin and Endocrine Studies.

a. The "Deficient State." Animal experiments on diets deficient in accessory food factors; avitaminosis; physico-chemical properties of accessory food factors; isolation and purification of accessory food factors. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Staff.

b. The endocrine system. Studies for hypo- and hyper-normal hormonal activity; techniques for extirpation of glands of internal secretion. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. McIntyre.

354. Application of Physiology and Pharmacology to Clinical Problems.—Electrocardiography, electrostethoscopy, metabolic rates. Study of neuro-muscular lesions by physiological methods; application of endocrinology to obstetrics and gynecology and medicine; special use of drugs and their diagnostic and therapeutic use in clinical problems. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. By arrangement with the Chairman of the Department.

355. Special Applications of Physiology and Pharmacology to "War Medicine and Surgery."—Physiological principles in shock therapy; low pressure low O₂ tension and high altitude aviation; high pressure and caisson disease; chemical warfare and industrial poisons. *Prerequisite:* Physiol. and Pharm. 300. 1-3 cr. Dr. Bennett, Dr. McIntyre, Dr. F. L. Dunn.

356. Seminar.—1 cr. Staff.

357. Research in Physiology and Pharmacology.—Cr att. Staff.

**Radiology and Physical Medicine**

Professor H. B. Hunt, Chairman; Instructors J. S. McAvin, R. C. Moore

During the first medical year the radiological aspects of anatomy are correlated with dissection. The principles of radiology and physical medicine are presented during the second semester of the second medical year and the first semester of the third medical year by means of lectures, demonstrations and conferences. The application and clinical correlation of roentgenologic studies are presented during the third medical year in connection with the clinical clerkship and radiological conferences. A weekly tumor clinic is conducted in the department by the tumor study group which provides correlation of clinical manifestations, histopathology, and treatment of individual tumor cases assigned to students on the clinical clerk service. In the fourth year students participate in interpretation of films and clinical examination of outpatients receiving therapy.

1. Radiological Anatomy.—Total 6 hours. I. II.

2. Radiology and Physical Medicine.—

(a) Principles of Radiology and Physical Medicine.—1 hour weekly. Total 17 hours. II.
3. Radiology and Physical Medicine.—
   (a) **Clinical Clerk.**—Students are assigned to University Hospital radiotherapy cases for complete case study. Total 6 hours. I, II.
   (b) **Radiological Conference.**—1 hour weekly. Total 17 hours. I.

4. Radiology Dispensary.—Students meet in sections of ten. 2 hours biweekly. Total 20 hours. I, II.

**Radiology and Physical Therapy Electives**

300. **Advanced work in application of Radiology to Diagnosis and Treatment of Disease.**—Prerequisite: Radiol. 1, 2, 3, 4. 3-5 cr. Dr. Hunt.

301. **Analysis of Assigned Problems in Clinical and Laboratory Radiology.**—Prerequisite: Radiol. 1, 2, 3, 4. 3-5 cr. Dr. Hunt.

**Surgery**


The courses in surgery are planned to give the student a thorough understanding of the principles of surgical pathology, surgical diagnosis, surgical indications and treatment, and do not attempt, in the undergraduate courses, instruction in major surgical operative technic. Minor surgical technic is taught in the clinical clerk service and dispensary, including numerous practical exercises in surgical asepsis. It is intended that the intern service prepare the student to perform such operations as would come to the practitioner as emergencies or in the course of general work. Preparation for the practice of general surgery requires additional postgraduate work as a resident or assistant in surgery.

3. Surgery.—
   (a) **Fundamentals of Surgery.**—A series of special lectures, quizzes and clinical demonstrations on important subjects of surgery, supplementary to the text. 2 hours weekly. Total 68 hours. I, II.
   (b) **Clinical Clerk.**—Students are assigned to University Hospital cases for complete history, physical and laboratory examinations, with requirement of progress notes, presentation at staff rounds and clinics and practical experience in surgical asepsis at operations. 6 hours weekly. Total 24 hours.
   (c) **Clinical.**—University Hospital. Presentation of selected cases to illustrate current lectures and textbook assignments. 1 hour weekly. Total 34 hours. I, II.
   (d) **Surgical Techinic.**—Bandaging, dressings, drains, sutures, closure of wounds. Local anesthesia. Total 17 hours. II.

4. Surgery.—
   (a) **Dispensary.**—Regular assignment to dispensary and outcall where students are given practical experience in the diagnosis of ambulant, home and hospital patients, with practical experience in anesthesia. 8 hours weekly. Total 32 hours. I, II.
   (b) **Hospital Clinic.**—Presentation of selected cases to illustrate surgical diagnosis, operative indications, and postoperative care. 1 hour weekly. Total 34 hours. I, II.
   (d) **Fractures and Dislocations.**—Lecture, quiz, and demonstration course on fractures and dislocations. X-ray diagnosis with application of splints and casts. 1 hour weekly. Total 34 hours. I, II.

**Urology**

Professor Edwin Davis, *Chairman*; Associate Professor Owens; Assistant Professors Adams, Lee.

3. Urology.—
   (a) **Clinical Clerk.**—Students are assigned to University Hospital cases for complete case study. Weekly ward rounds. Total 6 hours. I, II.

4. Urology.—
   (a) **Dispensary.**—One clinic is held each week to which students are assigned for practical experience in the diagnosis and treatment of urogenital diseases. 4 hours weekly. Total 12 hours. I, II.
   (b) **Fundamentals of Urology.**—Lectures and clinics on diseases of the urogenital system. 1 hour weekly. Total 17 hours. II.
### Internship Appointments—March 1947 Seniors

<table>
<thead>
<tr>
<th>Name</th>
<th>Home Address</th>
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<tbody>
<tr>
<td>Anderson, Mary Elizabeth</td>
<td>Lincoln</td>
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<tr>
<td>Archer, Dean Robbins</td>
<td>St. Elizabeth's Hospital, Washington, D.C.</td>
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<tr>
<td>Bartley, Richard Lee</td>
<td>Omaha, Nebraska</td>
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<tr>
<td>Beck, Marcus Richard, B.Sc. in Med. 1947</td>
<td>Emmen Hospital, Omaha, Nebraska</td>
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<tr>
<td>Bell, James Dennis, A.B. 1944</td>
<td>York</td>
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<tr>
<td>Benthack, Robert Bennett, B.Sc. in Med. 1946</td>
<td>Wayne</td>
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<tr>
<td>Bridenbaugh, Lloyd Donald</td>
<td>Dakota City</td>
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<td>Brorers, Charles William</td>
<td>Rochester, Minnesota</td>
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<td>Brugh, Elroy Alfred, A.B. 1945</td>
<td>York</td>
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<td>Byers, Malcolm Sexton, A.B. 1943</td>
<td>Fremont</td>
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<tr>
<td>Chadek, Leonard James, B.Sc. in Med. 1945</td>
<td>Omaha</td>
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<tr>
<td>Chaloupka, Melville Louis, B.Sc. in Med. 1946</td>
<td>Omaha</td>
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<tr>
<td>Collins, Frederick Gene, B.Sc. in Med. 1945</td>
<td>Omaha</td>
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<tr>
<td>Cooke, Edwin Theodore, B.Sc. in Med. 1945</td>
<td>Omaha</td>
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<tr>
<td>Dalager, Robert Dean, A.B. 1945</td>
<td>Albuquerque, New Mexico</td>
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<td>Davies, Robert Russell, B.Sc. in Med. 1946</td>
<td>Kimball</td>
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<tr>
<td>Degner, Albert Frederick, B.Sc. in Med. 1946</td>
<td>Lewisville, Minnesota</td>
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<td>Downing, Lloyd Londrash, A.B. 1946, B.Sc. in Med. 1945</td>
<td>Fullerton</td>
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<td>Ehrlich, Robert Wayne, A.B. 1945</td>
<td>Lincoln</td>
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<td>Ericson, Louis Leroy, B.Sc. in Med. 1945</td>
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<td>Fawell, William Nathan, B.Sc. in Med. 1945</td>
<td>Omaha</td>
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<tr>
<td>Fitch, Robert Elsworth, A.B., Univ. of Iowa 1942</td>
<td>Denver, Colorado</td>
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<td>Flory, David Wright, B.Sc. 1945</td>
<td>Pawnee City</td>
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<td>Foley, Robert John</td>
<td>Blair</td>
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<td>Frerichs, Cletus Troy, B.Sc. in Med. 1946</td>
<td>Coleridge</td>
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<td>Haase, Donald Delby, B.Sc. in Med. 1945</td>
<td>Norfolk</td>
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<td>Hall, Burton Ray</td>
<td>Omaha</td>
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<tr>
<td>Hansen, Howard Edward, B.Sc. in Med. 1947</td>
<td>South Alameda County Hospital, Oakland, California</td>
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<td>Harvey, Harold Elmer, A.B. 1945</td>
<td>Lincoln</td>
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<td>Harvey, Walter Carlton</td>
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<td>Heider, Charles Frank, B.Sc. in Med. 1945</td>
<td>North Platte</td>
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<td>High-Alameda County Hospital, Oakland, California</td>
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<td>Highland Hospital, Cleveland, Ohio</td>
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<td>St. Luke's Hospital, Chicago, Illinois</td>
<td>Mercy Hospital-Loyola University Clinics, Chicago, Illinois</td>
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<td>Aga, John Helsa</td>
<td>Pasadena, Calif.</td>
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<td>Alberts, Marion Edward</td>
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<td>Allen, Frederic Ray</td>
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<td>Beede, Charles Granville</td>
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<td>Canady, George Franklin</td>
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<td>Cerney, Charles Iams</td>
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<td>Crellin, Paul Ronald</td>
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<td>Cutshall, Roger Ackard</td>
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<td>Demorest, Byron Howard</td>
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<td>Edelman, Louis Boyce</td>
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<td>Farmer, Gordon Noble</td>
<td>Norfolk</td>
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<td>Fenner, Harold Allen</td>
<td>North Platte</td>
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<td>Fitch, William Melvin</td>
<td>Gothenburg</td>
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<td>Gunderson, Shaun Dennis</td>
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<td>Haerle, Henry Shields</td>
<td>Marysville, Kas.</td>
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<td>Hanisch, Louis Everett</td>
<td>Omaha</td>
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<td>Hedberg, Charles Leroy</td>
<td>Chadron</td>
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<td>Heidenreich, Clarence Raymond</td>
<td>Lincoln</td>
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<td>Hill, Billy Jay</td>
<td>St. Paul</td>
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<td>Hornberger, John Raile</td>
<td>Omaha</td>
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<td>Ives, Seward Keith</td>
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<td>McCoy, Raymond Howard</td>
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<td>Braverman, Irvin Bernard</td>
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| Buecher, Foster Donald | Hatton, No. Dak.
| Butler, Robert Henry  | Omaha        |
| Calkins, Robert Walter| Beatrice     |
| Chappell, James William | Lincoln   |
| Christensen, Floyd Duane | Hurley, So. Dak. |
| Christensen, Robert H | Stromburg    |
| Cobb, James Allen     | Spokane, Wash.|
| Cranney, Robert LeVerne| Omaha       |
| DeBecker, Lee Joseph  | Hastings     |
| Doering, William Alton| Omaha        |
| Donahoe, Joseph Francis| Fort Dodge, Ia. |
| Engdahl, Wallace Edward| Omaha       |
| Fletcher, Donald Gene | Walla Walla, Wash. |
| Fouts, Marjorie Marilyn| Seward      |
| Gardner, Lee Darrell  | Lincoln       |
| Gock, Robert Francis  | Lincoln      |
| Graham, Charles William| Omaha       |
| Graveline, Ernest Louis | Pawtucket, R. I.
| Groshong, LeRoy Edward | Portland, Ore. |
| Hall, David Frank     | Omaha        |
| Hamlin, Wendell D.    | Omaha        |
| Hoaglin, Lester Lee   | Race, Wis.   |
| Hoyt, Melvin Sumner   | Whitman      |
| Jesse, John Anthony   | Missoula, Mont. |
| Jones, Robert Charles | North Platte |
| Kalin, John Anthony   | Omaha        |
| Landgraf, Charles William | Dubuque, Ia. |
| Levine, Isaac Jacob   | Cincinnati, Ohio |
| Levitsky, Nick        | Youngstown, Ohio |
| Linsk, Joseph Alexander| Atlantic City, N. J. |
| Long, Llewelyn Lloyd  | Omaha        |
| Markley, Murray       | Fort Dodge, Ia. |
| Martin, Rolland Aldred| Omaha       |
| Mauk, Ferald Dee      | Norfolk      |
| McGowan, Robert Ashley| Omaha       |
STUDENTS

McMorris, Rex Ofal .................. Omaha
McNeill, Roger Franklin .............. Lincoln
Memming, Lunetta Anna .............. Bloomington
Miller, Charles Henry .............. Elm Creek
Miller, Margaret Jane ................ San Francisco, Calif.
Paine, Frederic Olney .............. Lincoln
Penner, Henry Gerhard .............. Beatrice
Preston, Robert ...................... Logan, Utah
Rice, Lee Edward ........... OdeLL
Rutt, Fred John, Jr. ................. Hastings

Schoen, Carroll William .............. Plattie Center
Simmons, Joseph Raymond ......... Battle Creek
Simonson, Emmett Driscoll ........... Tower, Minn.
Skerk, Martin Henry ................. Omaha
Wells, Gerard Charles ............... Omaha
Wendt, Bernard Frederic ............. Omaha
Willard, Robert Hile ................. Topeka, Kan.
Witliff, Jack Stanley ............... Astoria, Ore.

Second Medical Year

Albee, Albert Burrell ............ Oshkosh
Amman, Franz Ervin ............... Wilcox
Bachman, Arthur Otis .......... Harrison
Baker, John N. ...................... Lincoln
Barton, Bert Leland ............... Cleveland, Ohio
Benner, Robert Edwin .......... Scribner
Billerbeck, Henry ................. Crofton
Brakel, Frank James .............. Callaway
Broers, Merlin Ulysses .......... Burr
Buckley, Lawrence Robert ......... Beatrice
Carter, Donald Clayton .......... Blair
Cochran, Roy Edwin .............. Lincoln
Conn, Fletcher ..................... Bancroft
Craig, Robin ....................... Omaha
Crantz, Paul Elroy ............... Holdrege
Cutshall, Vernon ................. St. Paul
Davies, George Henry .......... Sebring, Ohio
Davies, Neal ....................... Omaha
DeVoe, Lewell Stephen .......... Lincoln
Dodson, Albertus Frederick ......... Wilbur
Downing, Pentworth M. .......... Beaver City
Dunlap, James Hildreth .......... Lincoln
Dus, Charles Milos, Jr. ......... Omaha
Eberle, Donald Edward ......... Sumner
Elston, Richard Eugene .......... Omaha
Grubbs, Loran ..................... Harrisburg
Hahn, John Robert ................. Omaha
Harris, Stanley R. ................. Chappell
Henri, Mary Jo ..................... Lincoln
Holland, Robert Ellsworth ......... Lincoln
James, Lawrence Royce ........... Grand Island
Johnson, Richard Dawson ......... Kearney
Johnson, Richard Nick ............. Omaha
Johnson, Robert Orville ......... Kearney
Johnston, Raymond Foldell ......... Kearney
Kennedy, Kenneth Jack ............. Dorchester
Kerkoff, Stanley August .......... Omaha
Koefoot, Richard Bruce .......... Broken Bow
Kovarik, Joseph Lewis .......... Omaha
Lamb, Verner Eugene .............. Grand Island
Leary, Patricia Ann .............. Lincoln

Limbeck, Donald Arthur .......... Lincoln
McCarthy, John A ................. Omaha
McCarthy, John O. ................. Omaha
McEaehn, James Allen, Jr. .......... Lincoln
McClanahan, Frank ............... Omaha
McGee, Robert Randall ........... Columbus
McHenry, Margaret Louise ......... Plainview
Milheim, Richard Keith .......... Scottsbluff
Morgan, Francis William ......... Lincoln
Mueller, Harold W. .............. Kearney
Murray, Robert Glen ............. Omaha
Nywall, Dean D. ................. St. Edward
Olsen, Viggo Brandt .............. Omaha
Overholt, Victor Lorance ......... South Sioux City
Parry, Robert William ............. Cleveland, Ohio
Pillsbury, Curtis Bryant ......... Omaha
Pinkerton, Clifford Conkling .... Omaha
Platt, Otis Boyes ................. North Platte
Post, George Pete ................. Lewellen
Ronald, Douglas Charles ......... Lincoln
Rogers, Everett McClure .......... Alma
Rosenlof, Robert Carl .......... Goehner
Schellhase, Sybil Jean .......... Overton
Schroeder, Rupert Charles ......... Cleveland, Ohio
Schwamb, Halbert Herman ......... Lincoln
Schiemannl,ter, Floyd H. ........ Stanford
Silverman, Robert Allen .......... Omaha
Sitorius, Rodney Allen ........... Arnold
Smith, Roy James ................. Albion
Sutton, David Keith .......... Lincoln
Tamisiea, Jerry X. ................. Omaha
Tunberg, Clarence Lee .......... Lincoln
Urdod, John Charles .......... Hastings
Vincent, Keith Edward .......... O'Neill
Wagner, Loyd Raymond .......... Norfolk
Weaver, Rex Winfield .......... Lincoln
Wiedman, Wilbur Gumal ......... Lincoln

First Medical Year

Allen, William Cecil .............. Lincoln
Bader, Jean Lyon ................. Omaha
Baker, John Cornelius ............. Lincoln
Barber, Harris Wilnot .......... Omaha
Beattie, John Bear .......... Ainsworth
Bentley, Neil Benjamin .......... Norfolk
Bland, Robert Weidensall ......... Shelby
Boulware, John Milton .......... McCook
Brauer, Russell Charles .......... Randolph

Breuer, Mildred Renee .......... Lincoln
Buffington, Jack M. .............. Omaha
Campbell, John Archibald ......... Omaha
Carlberg, Robert Leroy .......... Pender
Chapp, John Dale ................. Virginia
Chappell, James C. .......... Hastings
Clatanoff, Dallas Vincent ......... Wisner
Daum, Harold Franklin .......... Crete
Davis, Harold LeRoy.......................... Omaha
Davis, John Byron.......................... Omaha
DeBusk, Lawrence Taylor.................... Fairbury
DeMay, Richard Ford................. Grand Island
Fitch, Donald Max.......................... Omaha
Folksam, Burton Whittemore................. Lincoln
Fueessler, Donald Arthur.................... Omaha
Gortney, Russell LeRoy..................... Murdock
Hagel, Donald Richard...................... Rushville
Hansen, William Gordon..................... Gordon
Hastrom, Rupert............................... Fremont
Jaros, Jerome................................ Omaha
Jeffrey, Keith Charles....................... Crab Orchard
Johnson, Keith Oliver....................... Holdrege
Jones, Robert Dale......................... Central City
Jones, Robert Lester....................... Sidney
Kaiser, Milton Lee.......................... Nebraska City
Kellogg, Henry J............................. Omaha
Kirkpatrick, Jeanne.................... Omaha
Kreischer, Robert Charles................... Lincoln
Kysar, John Edwin........................... Lincoln
Lawrence, William Doran..................... Omaha
Lear, William John.......................... Ainsworth
Lang, John Leroy............................ Lincoln
Mannschreck, William Chris................. Syracuse
Margolin, Harold N.......................... Omaha
Martin, Paul Raymond..................... Stamford
Miller, Otis William......................... Oshkosh
Mitcheltree, Robert Greet.................. Omaha
Moss, Nyle Harold.......................... Lincoln
Mufley, Charles George Meadow Grove.... Omaha
Myers, Wilbert E............................ Crete
Nakashima, Donald Tauglo.................. Honolulu, T. H.
Nathan, Lester J............................. Omaha
Niederluecke, Donald Charles.............. Omaha
Olney, Robert Dudley...................... Lincoln
Olson, Robert Orville...................... Duluth
Ovington, Robert Carl..................... Omaha
Peterson, James Alfred..................... Dannebrog
Pettee, Richard Addison.................. Waco
Pischke, Eugene Francis..................... North Bend
Posey, John William....................... Hubbell
Pullman, George Robert..................... Omaha
Rath, Hans................................ Peru
Reed, Don Richard......................... Upton, Wyo.
Remington, Frederick Kent................. Lincoln
Rogers, John Wesley....................... Lodgepole
Rosenau, Phyllis Marie..................... Hastings
Roth, Martin................................. Hebron
Ryder, Gilbert Ernest...................... Lincoln
Sawtell, Robert Rhyle..................... Omaha
Schaufelberger, Robert A................. Lincoln
Schutz, John Charles....................... Steinaker
Singer, Herbert Iman....................... Omaha
Slabaugh, Robert Aikin..................... Nebraska
Terhune, Neil Clifford..................... Paxton
Thayer, James Earl.......................... Lincoln
Thornton, Marjorie May..................... Billings, Mont.
Toren, Richard C............................ Lincoln
VaVerka, John Richard..................... Omaha
Vnuk, Wallace J.............................. Schuyler
Vose, James Leroy.......................... Sargent
Waldmann, Robert Paul..................... Omaha
Watson, Odber Bliss......................... Central City
White, Frank Gilbert...................... Omaha
Wilcox, Howard Rex....................... Hastings
Witkin, Erwin............................... Omaha
Wright, Ruth Ethel.......................... Genoa
Yeck, Ernest Arthur....................... Cordova
TRAINING COURSE FOR X-RAY TECHNICIANS

HOWARD B. HUNT, M.A., M.D.,
Professor of Radiology and Physical Medicine

Organization.—The course for x-ray technicians has been established by authority of The Board of Regents in connection with the Department of Radiology, College of Medicine. It has been accredited by the American Registry of X-Ray Technicians conducted by the American College of Radiology and the Council on Medical Education and Hospitals of the American Medical Association.

The American Registry of X-Ray Technicians conducts examinations for candidates who shall have had acceptable training and a total of at least two years' experience in radiological work, including the student year. Students who have satisfactorily completed the course of training in x-ray technic at the University of Nebraska College of Medicine and have had a second year of experience in an accepted department of radiology are accepted for examination. A certificate in x-ray technic is issued upon successful completion of the examination by the American Registry of X-Ray Technicians.

Facilities for Instruction.—Ample opportunity for experience in making of roentgenograms or x-ray films of patients is provided. During a period of 12 months about 4,500 radiographic examinations are made in the Department of Radiology for the University Hospital and Dispensary of the University of Nebraska College of Medicine. All types and positions of x-ray examinations are used in the department. The radiographic work is supervised by the radiologist. Facilities are provided for deep x-ray therapy and radium therapy with adequate protection of all workers against exposure to radiation. About 2,000 x-ray treatments and 100 radium treatments are given in the department during a year. The library of the College of Medicine is maintained in the hospital. A certificate is granted by the University of Nebraska upon successful completion of the prescribed course of training.

Requirements for Admission.—An applicant for admission to the course in X-ray technic shall be between 18 and 35 years of age and must be a graduate from an accredited high school or other approved preparatory school. Records must be submitted covering the content and grades received in the preparatory studies. It is recommended that the preparatory work include English, Latin, physics, zoology, typing, shorthand, and secretarial work, although applicants are considered who do not present credits in all of these subjects. At least one year of collegiate study including English, physics, zoology, typing, shorthand, and secretarial work is recommended. Preference is given to applicants who are graduate nurses. Applicants must be in good health with no disabilities. The application should be accompanied by a photograph and the names of two people from whom references can be obtained. Admission is allowed in January and July. Only two students can be accepted annually. Applications should be sent to the Chairman of the Department of Radiology, University of Nebraska College of Medicine, 42nd and Dewey Avenue, Omaha 5, Nebraska. Application forms will be provided upon request.

Fees and Expenses.—There is a registration fee of $1, payable on entrance. Ten dollars per year for the student health service is payable
on admission. A tuition fee of $75 per year is charged and a minimum nonresident fee of $50 per year for students enrolling from other states. Students must maintain themselves and provide their own uniforms. The cost of textbooks is about $15. Board may be obtained for $10 a week in the vicinity of the hospital and rooms for $5 a week.

Due to the generosity of the W. K. Kellogg Foundation there are funds available for student loans for students taking training as technicians. Information concerning the same can be secured by applying to the Director.

Curriculum.—The course of study covers a period of one year. Students are accepted on a probationary basis during the first month. Students are in class or on duty in the Department of Radiology from 8 a.m. until 5 p.m. with a free hour for lunch. Students are not on duty during Saturday afternoon or Sunday. A vacation of two weeks is allowed at the Christmas holiday or in the summer. Immunization against diphtheria, typhoid fever, and smallpox is advised.

Plan of Instruction.—The course of training for students of x-ray technic consists primarily of an apprenticeship and demonstrations under the technician and of conferences with the radiologist. The instruction in related fields is given in conjunction with the School of Nursing consisting of instruction in anatomy, pathology, radiology and physical therapy, principles of general medicine, general surgery, gynecology, orthopedics, urology, first aid, and eye, ear, nose, and throat. The apprenticeship comprises 90 per cent of the period of training. The student works with the technician in the making of all types of x-ray studies. Gradually increasing independent responsibilities are given over to the student as experience increases. The student must become familiar with transcription of the reports of the radiologist covering the x-ray studies made of patients and his reports on patients treated with x-ray and radium. In case the student is unfamiliar with the operation of a typewriter, additional courses must be taken at night school during the period of training.

The following formal courses are required of students in x-ray technic. These courses are provided through the courtesy of the School of Nursing by the College of Medicine.

(1) ANATOMY.—Lectures, class recitations, demonstrations, and laboratory work dealing with the structure of the human body. Preserved specimens and fresh animal specimens are used for study. 54 hours.

(2) MEDICAL SCIENCE.—
   a. Causes and general features of disease and disease processes. 18 hours.
   b. The basic principles and theory governing the use of physical agents, such as the electrical currents, high frequency currents, therapeutic exercises, ultraviolet, roentgen and radium therapy, are discussed in a series of lectures and demonstrations. 18 hours.

(3) MEDICINE.—Lectures and clinics dealing with the causes, symptoms, course, treatment, complications, convalescence, and prevention of medical diseases. 20 hours.

(4) SURGERY.—Lectures and clinics designed to give the student a practical understanding of the causes, symptoms, and treatment of surgical diseases and to stress the importance of early recognition and methods of prevention of these diseases. 18 hours.
(5) **GYNECOLOGY.**—Anatomy and physiology of the female pelvic organs; the pathology of the pelvis; the symptoms and treatment of gynecological diseases; complications, the care of patients before and after operation. Lectures and clinics. 10 hours.

(6) **ORTHOPEDICS.**—Lectures, classes, and demonstrations dealing with the causes, prevention, and mechanical and operative treatment and nursing care of diseases of the bones and joints and bony deformities. Demonstration of braces, splints, frames, and other appliances. 18 hours.

(7) **UROLOGY.**—Lectures dealing with the principal diseases of the genito-urinary tract. 4 hours.

(8) **FIRST AID.**—Lectures, classes, and demonstrations. Standard Red Cross first aid course for which a Red Cross Certificate is awarded. 20 hours.

(9) **DISEASES OF EYE, EAR, NOSE, AND THROAT.**—Lectures and clinics dealing with the anatomy and physiology of the eye, ear, nose, and throat; the diseases of these organs, their treatment and prevention. 18 hours.

**Opportunities.**—There is a moderate demand for well-qualified technicians. These opportunities are primarily in the departments of radiology in hospitals and in the offices of doctors specializing in x-ray and radium work. There is no opportunity for independent operation of a laboratory by the technician since the use of x-ray in the diagnosis and treatment of diseases is legally the practice of medicine and in the interest of public welfare and safety must be carried out under the supervision of a registered physician. In practice, it is frequently necessary for the technician to take dictation, type reports, file correspondence, and in small hospitals to care for the hospital records on patients. Many of the duties are in the nature of minor nursing such as the sterilization of materials, administration of enemas, preparation of patients for examination, and the general care of the sick. The duties of secretary and practical nurse are frequently combined with those of operating an X-ray machine, processing of X-ray films, and handling of patients in a small department or office. In a larger department the duties may consist of radiographic or radiotherapeutic technique alone.
TRAINING COURSE FOR MEDICAL TECHNOLOGISTS

Department of Pathology and Bacteriology

JAMES PERRY TOLLMAN, B.Sc., M.D.

Director and Professor of Clinical Pathology

In the last two to three decades there has been a very great increase in knowledge based on work in biochemistry, hematology, serology, parasitology, bacteriology, immunology, and mycology. Utilization of this information in the diagnosis and treatment of all patients has become widespread, and many procedures involving these principles have become routine, being applied to all patients entering hospitals, and many patients cared for in the doctors' offices.

The performance and interpretation of these laboratory tests have become so complicated that a specialty within the practice of medicine has developed, in which physicians concern themselves primarily with these problems. The volume of laboratory work has led to the training of medical technologists for the assistance of the physicians in this and other specialties, and in the general practice of medicine.

With ever increasing interest in, and application of laboratory procedures there is a steadily increasing demand for well-trained medical technologists. There is a wide variety of openings for which people trained in medical technology have found positions. The majority have been employed in hospital laboratories, while many work in physicians' offices and in clinics. There are some openings in research laboratories, and a number of opportunities have appeared in industrial laboratories with work related to or similar to medical technics.

Organization.—The course for laboratory technicians has been established by authority of The Board of Regents, in connection with the Department of Pathology, College of Medicine. It has been accredited by the Medical Council on Education and Hospitals of the American Medical Association and the American Society of Clinical Pathologists as being equipped and organized to furnish adequate training in laboratory technic. Graduates are eligible to take the examination for the Registry of Medical Technologists maintained by the American Society of Clinical Pathologists.

Facilities for Instruction.—The course is given in the University Hospital, and facilities of the University of Nebraska College of Medicine are available for instruction. The University Hospital is organized primarily for teaching and is under the control of The Board of Regents through the administration of the College of Medicine. It has a capacity of 220 beds, and patients are accepted all over the state. All types of diseases are treated. Approximately 3,300 patients are admitted each year. The laboratory of the University Dispensary is also used for instruction. Approximately 4,000 patients are treated each year. The treatment of patients in the hospital and dispensary is directed by the faculty of the College of Medicine. The laboratory work requested includes all routine procedures, and many specialized tests that are required for unusual diseases.

The Library of the College of Medicine is maintained in the hospital. These books and periodicals are available for study, and for keeping in touch with current work in the field of laboratory diagnosis.
Requirements for Admission.—To insure adequate background and training for entering a recognized course in medical technology, the following minimum requirements have been established by the Registry of Medical Technologists.

Biology: Eight semester hours of which at least 4 semester hours must be zoology.

Bacteriology: At least 3 semester hours. (If not available, other branches of biology may be substituted.)

Chemistry: General Inorganic Chemistry—At least 8 semester hours including 4 semester hours of laboratory. Organic Chemistry—A complete course, at least 4 semester hours with not less than 2 semester hours of laboratory. Quantitative Analysis—Three semester hours recommended.

Physics: At least 8 semester hours with 2 semester hours of laboratory recommended.

English: Six semester hours in English composition or rhetoric.

Electives: Sufficient to give a total of 60 semester hours of college credit. Sociology and psychology are recommended for electives.

For those students who have completed at least 90 hours of college work, the University of Nebraska, College of Medicine will grant the degree of Bachelor of Science in Medical Technology on successful completion of the course.

Application Forms.—May be obtained from the Director. These, with a transcript of college credits and a small photograph, should be submitted to make formal application.

Fees and Expenses.—There is a registration fee of $1, payable on entrance. Ten dollars per year for the student health service is payable on admission. A tuition fee of $75 per year is charged and there is a non-resident fee for students enrolling from other states. In addition, the students are responsible for their own maintenance, uniforms, and laundry. Board and room may be obtained in private homes for approximately $60 per month. Some allowance should be made for the purchase of books.

Due to the generosity of the W. K. Kellogg Foundation there are funds available for student loans for students taking training as technologists. Information concerning the same can be secured by applying to the Director.

Plan of Instruction.—The course of training is 12 months and is arranged as a unit of instruction. Parts of the course are not offered separately. Lectures covering background material are taken with students of the College of Medicine or with students of the School of Nursing, and other lectures are designed especially for the needs of the medical technologists. Conferences are held at frequent intervals for consideration of technics, their relation to disease processes, and possible sources of error. Oral and written examinations are given at intervals. Demonstrations are used to introduce new subject matter, to emphasize important points and familiarize the student with unusual problems.

The hours credit are arranged as follows:

<table>
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<th>Subject</th>
<th>Credit Hours</th>
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<tr>
<td>Anatomy</td>
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<tr>
<td>Introduction to Medical Science</td>
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<tr>
<td>Bacteriology</td>
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<td>Bacteriology Laboratory</td>
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<td>Serology</td>
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ANATOMY is taken with the students of the School of Nursing. This course gives a background of the structures of the human body.

INTRODUCTION TO MEDICAL SCIENCE is taken with students of the School of Nursing. This course considers the ways in which the physician studies disease processes in the body and correlation of the changes occurring in the body with the symptoms produced. It discusses the place of laboratory determinations in the study of patients.

BACTERIOLOGY. This course is taken with the students of the College of Medicine covering background and technic as well as the specific consideration of pathogenic bacteria.

Bacteriology Laboratory.—BACTERIOLOGY takes up the identification of pathogenic micro-organisms by their morphological, cultural, and immunological characteristics. Approximately 2,400 bacteriological examinations are made each year.

PARASITOLOGY, a study of the small animal forms which may cause disease, is included with this and is studied both from the material available in the hospital and dispensary and from demonstration specimens in the medical college.

SEROLOGY includes primarily immunological procedures.

The following courses are practical and specific studies of the methods in regular use in medical laboratories:

BIOCHEMISTRY is a study of the chemical reactions occurring within the body. Particular attention is given to the way in which laboratory tests can give information about normal and abnormal chemical functions in the body.

Methods and Laboratory.—BIOCHEMISTRY includes examinations of the blood and other body fluids for normal and abnormal chemical constituents. As a rule, these are quantitative determinations, and include such tests as blood sugar, nonprotein-nitrogen and creatinine determinations, as well as examinations of urine and of secretions of the gastro-intestinal tract and its associated glands. Between 6,000 and 7,000 examinations a year allow thorough training in this field.

HEMATOLOGY consists of examinations of the blood, particular attention being given to the cellular elements. Included in this service also are compatibility tests preparatory to transfusions. More than 20,000 examinations a year give adequate material for this phase of the work.

HISTOLOGIC TECHNIC covers the making of tissue preparations, principally sections of various organs and tissues, for microscopic study by the pathologist. A variety of methods are taken up during the training period. More than 4,000 sections are made yearly.

BLOOD BANK TECHNIC. This introduces the particular problems concerned with the handling and storage of blood, and its preparation for use in transfusions. Preparation of plasma is included.

SPECIFIC DETERMINATIONS. There are a number of procedures, such as Basal Metabolic Rate determinations, which are rather different from other kinds of procedures. These are studied in this section of the work.
THE UNIVERSITY OF NEBRASKA

Junior Division
Registers and counsels all freshmen and supervises terminal curricula. Conducts the University orientation course and a special testing program for guidance purposes.

College of Agriculture
Leading to the degrees of Bachelor of Science in Agriculture and Bachelor of Science in Home Economics and to vocational education certificate.
Supervises Nebraska School of Agriculture at Curtis; Experiment Substations at North Platte, Scottsbluff, and Valentine; Nebraska Agricultural Experiment Station and Agricultural Extension Service, Lincoln; fruit farm, Union; agronomy farm, Havelock; Box Butte Experiment Farm, Alliance.

College of Arts and Sciences
Leading to the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science.

School of Fine Arts
Leading to the degrees of Bachelor of Fine Arts, Bachelor of Music, Bachelor of Fine Arts in Education, Bachelor of Music in Education, Master of Music.

School of Journalism
Leading to the degrees of Bachelor of Arts, Bachelor of Science in Agriculture, and to certificate in journalism.

College of Business Administration
Leading to the degree of Bachelor of Science in Business Administration.

College of Dentistry
Leading to the degrees of Doctor of Dental Surgery and Bachelor of Science in Dentistry.

College of Engineering
Leading to the degrees of Bachelor of the Art of Architecture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Architectural Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Commercial Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Agricultural Engineer, Architectural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer.
Supervises Nebraska Engineering Experiment Station, Lincoln.

Graduate College
Leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Architecture, Master of Education, Master of Music, Master of Science, Master of Science in Social Work, Master of Science in Agricultural Engineering, Master of Science in Civil Engineering, Master of Science in Electrical Engineering, Master of Science in Mechanical Engineering.

Graduate School of Social Work
Leading to the degree of Master of Science in Social Work, and to certificate in social work.

College of Law
Leading to the degree of Bachelor of Laws.

College of Medicine
Leading to the degrees of Doctor of Medicine, Bachelor of Science in Medicine, Bachelor of Science in Medical Technology, Bachelor of Science in Nursing, and Graduate Nurse.

School of Nursing
Leading to the degrees of Bachelor of Science in Nursing and Graduate Nurse.

College of Pharmacy
Leading to the degree of Bachelor of Science in Pharmacy.

Teachers College
Leading to the degrees of Bachelor of Science in Education, Bachelor of Arts in Education, Bachelor of Fine Arts in Education, Bachelor of Music in Education.
Supervises Teachers College High School, Lincoln.

Summer School

Conservation and Survey Division

University Extension Division

Separate bulletins or information concerning any college, school, or division may be obtained free by addressing the Director of Admissions, University of Nebraska, Lincoln 8.