1955

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1955-1956

University of Nebraska College of Medicine

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BULLETIN OF THE

COLLEGE OF MEDICINE

OMAHA

1955 - 1956
THE HIPPOCRATIC OATH
FORMULATED AT GENEVA*

Now being admitted to the profession of medicine
I solemnly pledge to consecrate my life to the service
of humanity. I will give respect and gratitude to my
deserving teachers. I will practice medicine with con­
science and dignity. The health and life of my patient
will be my first consideration. I will hold in confi­
dence all that my patient confides in me. I will main­
tain the honor and the noble traditions of the medical
profession. My colleagues will be as my brothers. I
will not permit considerations of race, religion, nation­
ality, party politics or social standing to intervene be­
tween my duty and my patient. I will maintain the
utmost respect for human life from the time of its con­
ception. Even under threat I will not use my knowledge
contrary to the laws of humanity. These promises I
make freely and upon my honor.

*Adopted by the Second General Assembly of the World Medical
Association held in Geneva, Switzerland, September 8 to 11, 1948
college of medicine
1955-1956
course offerings
EXISTING, 1955

A. North Laboratory
B. South Laboratory
C. Hospital Unit I
D. Hospital Unit II
E. Nurses’ Home
M. Children’s Memorial Hospital
N. Nebraska Psychiatric Institute
O. New Power Plant
P. Old Power Plant
Q. Laundry
R. Service Building
S. Child Saving Institute

UNDER CONSTRUCTION OR TO BE CONSTRUCTED

F. Nurses’ Home
G. 130-Bed Hospital
H. Class Rooms
I. Library and Student Activities
J. Medical Center Auditorium
K. University Clinic, Laboratories, Research
L. Admissions and Emergency
T. Children’s Memorial Hospital Unit II
### CALENDAR 1955-56

**Freshmen, Sophomores and Graduate Students**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 20, Monday</td>
<td>Registration, Summer Quarter Begins (Graduate Students)</td>
</tr>
<tr>
<td>July 4, Monday</td>
<td>Independence Day Holiday</td>
</tr>
<tr>
<td>August 27, Saturday</td>
<td>Summer Quarter Ends (Graduate Students)</td>
</tr>
<tr>
<td>September 16, Friday</td>
<td>Freshman Registration and Physical Examinations</td>
</tr>
<tr>
<td>September 19, Monday</td>
<td>Freshman Tests; Graduate Students Register</td>
</tr>
<tr>
<td>September 20, Tuesday</td>
<td>Sophomore Registration; Freshman Orientation</td>
</tr>
<tr>
<td>September 21, Wednesday</td>
<td>Fall Quarter Begins</td>
</tr>
<tr>
<td>November 23-27</td>
<td>Thanksgiving Vacation</td>
</tr>
<tr>
<td>December 17, Saturday</td>
<td>Fall Quarter Ends</td>
</tr>
<tr>
<td>December 18-January 2</td>
<td>Christmas Vacation</td>
</tr>
<tr>
<td>January 3, 1956, Tuesday</td>
<td>Winter Quarter Begins</td>
</tr>
<tr>
<td>January 7, Saturday</td>
<td>Late Fee charged after this date for students not registered</td>
</tr>
<tr>
<td>March 22, Thursday</td>
<td>Winter Quarter Ends</td>
</tr>
<tr>
<td>March 23-26</td>
<td>Spring Vacation</td>
</tr>
<tr>
<td>March 27, Tuesday</td>
<td>Spring Quarter Begins</td>
</tr>
<tr>
<td>March 31, Saturday</td>
<td>Late Fee charged after this date for students not registered</td>
</tr>
<tr>
<td>May 30, Wednesday</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>June 16, Saturday</td>
<td>Spring Quarter Ends</td>
</tr>
</tbody>
</table>

**Juniors**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 6, Tuesday</td>
<td>Junior Registration</td>
</tr>
<tr>
<td>September 7, Wednesday</td>
<td>Fall Quarter Begins</td>
</tr>
<tr>
<td>November 24, Thursday</td>
<td>Thanksgiving Day Holiday</td>
</tr>
<tr>
<td>December 24, Saturday</td>
<td>Fall Quarter Ends</td>
</tr>
<tr>
<td>December 25-January 2</td>
<td>Christmas Vacation</td>
</tr>
<tr>
<td>January 3, 1956, Tuesday</td>
<td>Winter Quarter Begins</td>
</tr>
<tr>
<td>January 7, Saturday</td>
<td>Late Fee charged after this date for students not registered</td>
</tr>
<tr>
<td>March 24, Saturday</td>
<td>Winter Quarter Ends</td>
</tr>
<tr>
<td>March 26-31</td>
<td>Spring Vacation</td>
</tr>
<tr>
<td>April 2, Monday</td>
<td>Spring Quarter Begins</td>
</tr>
<tr>
<td>April 7, Saturday</td>
<td>Late Fee charged after this date for students not registered</td>
</tr>
<tr>
<td>May 30, Wednesday</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>June 23, Saturday</td>
<td>Spring Quarter Ends</td>
</tr>
</tbody>
</table>

**Seniors**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 18, Monday</td>
<td>Summer Period Begins (Seniors on Dispensary begin June 20 and stagger vacations)</td>
</tr>
<tr>
<td>September 5, Monday</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>September 16, Friday</td>
<td>Summer Period Ends</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>September 17, Saturday</td>
<td>Registration—Summer, Fall and Winter Tuition due</td>
</tr>
<tr>
<td>September 19, Monday</td>
<td>Fall Period Begins</td>
</tr>
<tr>
<td>November 19, Saturday</td>
<td>Fall Period Ends</td>
</tr>
<tr>
<td>November 21, Monday</td>
<td>Winter Period Begins</td>
</tr>
<tr>
<td>November 23–27</td>
<td>Thanksgiving Vacation</td>
</tr>
<tr>
<td>December 18–January 2</td>
<td>Christmas Vacation</td>
</tr>
<tr>
<td>February 10, Friday</td>
<td>Winter Period Ends</td>
</tr>
<tr>
<td>February 11, Saturday</td>
<td>Registration—Spring and Final Tuition due</td>
</tr>
<tr>
<td>February 13, Monday</td>
<td>Spring Period Begins</td>
</tr>
<tr>
<td>April 14, Saturday</td>
<td>Spring Period Ends</td>
</tr>
<tr>
<td>April 16, Monday</td>
<td>Final Period Begins</td>
</tr>
<tr>
<td>May 30, Wednesday</td>
<td>Memorial Day Holiday</td>
</tr>
<tr>
<td>June 16, Saturday</td>
<td>COMMENCEMENT</td>
</tr>
</tbody>
</table>
ADMINISTRATION

The Board of Regents

Earle G. Johnson, M.D., Grand Island .................................................. January 1957
Frank M. Johnson, Lexington ................................................................. January 1957
Charles Y. Thompson, West Point ............................................................ January 1959
B. N. Greenberg, M.D., York ................................................................. January 1959
J. Leroy Welsh, Omaha, President ............................................................. January 1961
Clarence E. Swanson, Lincoln ................................................................. January 1961

John Kent Selleck, Lincoln, Corporation Secretary

The University

Clifford Morris Hardin, B.Sc., M.Sc., Ph.D., Chancellor of the University.
James Perry Tollman, B.Sc., M.D., Dean of the College of Medicine and
Superintendent of the University Hospital.
James Winfred Benjamin, B.A., M.A., Ph.D., Assistant Dean of the College
of Medicine.
George Walter Rosenlof, Ph.D., LL.D., Dean of Admissions and Inter-
Institutional Relationships.
J. Philip Colbert, B.Sc., M.Sc., Dean of the Division of Student Affairs.
Floyd W. Hoover, Ph.D., Director of Registration and Records.

Emeriti Faculty

John Franklin Allen, B.Sc., M.D., Professor of Clinical Medicine, Emeritus and Di-
rector of Student Health Service, Emeritus.
Rodney Waldo Bliss, A.B., M.D., Professor of Medicine, Emeritus.
Alfred Jerome Brown, A.B., M.D., Professor of Surgery, Emeritus.
*William Frederick Callfas, C.M., M.D., Professor of Otolaryngology, Emeritus.
George Worthington Covey, B.Sc., M.D., Clinical Associate Professor of Internal
Medicine, Emeritus.
Harold Everett Eggers, A.M., M.D., Professor of Pathology and Bacteriology, Emeritus.
Joseph Aloysius Henske, M.D., Professor of Pediatrics, Emeritus.
Lloyd Oliver Hoffman, M.D., Associate in Surgery, Emeritus.
John Clyde Moore, Jr., A.B., B.Sc., M.D., Professor of Pediatrics, Emeritus.
Sergius Morgulis, A.M., Ph.D., Professor of Biochemistry, Emeritus.
Charles Austin Owens, B.Sc., M.D., Associate Professor of Urology, Emeritus.
Abraham Srol Rubnitz, A.B., M.D., Assistant Professor of Pathology and Bacteriology, Emeritus.
Robert D. Schrock, A.B., M.D., Professor of Orthopedic Surgery, Emeritus.
William Lele Shearer, A.B., D.D.S., M.D., Professor of Surgery, Emeritus.
Robert James Stearns, M.D., Assistant Professor of Obstetrics and Gynecology, Emeri-
tus.
Willis Harvey Taylor, B.Sc., M.D., Professor of Clinical Obstetrics and Gynecology,
Emeritus.
**Charles Creighton Tomlinson, M.D., Professor of Dermatology and Syphilology,
Emeritus.
Chester Hill Waters, Sr., B.Sc., M.D., Professor of Surgery, Emeritus.
William Albert Willard, Ph.D., Professor of Anatomy, Emeritus.
George Alexander Young, Sr., M.D., Professor of Neurology and Psychiatry, Emeritus.

** Deceased July 1, 1955.
Senior Consultants

Edwin Davis, B.A., M.D., Professor of Urology, Senior Consultant.
J. Jay Keegan, A.B., A.M., M.D., Professor of Surgery, Senior Consultant.
Ralph Herbert Luikart, M.D., Professor of Obstetrics and Gynecology, Senior Consultant.
Ernest Lynn MacQuiddy, A.M., M.D., Professor of Internal Medicine, Senior Consultant.
James Sylvester McAvin, Ph.G., M.D., Associate in Radiology and Physical Medicine, Senior Consultant.
Friedrich Wilhelm Niehaus, B.Sc., M.D., Professor of Internal Medicine, Senior Consultant.
Donald Benjamin Steenburg, B.Sc., M.D., Clinical Associate in General Practice, Senior Consultant.
Harry Allen Taylor, A.B., B.Sc. in Med., M.D., Senior Consultant.
Irwin Levi Thompson, B.Sc., M.D., Clinical Associate in General Practice, Senior Consultant.
Warren Thompson, B.Sc., M.D., Professor of Medicine, Senior Consultant.
James E. M. Thomson, A.B., M.D., Clinical Associate Professor of Orthopedic Surgery, Senior Consultant.

Active Faculty

Payson Stone Adams, B.Sc. in Med., M.D., Professor of Urology.
John Andrew Aila, Ph.D., M.D., Associate Professor of Neurology and Psychiatry.
Clayton Albertson, A.B., M.D., Professor of Internal Medicine.
George Thomas Alliband, B.Sc., M.D., Assistant Professor of Ophthalmology.
Maine C. Andersen, M.D., Assistant Professor of Internal Medicine.
Harley Eric Anderson, B.Sc. in Med., M.D., Associate Professor of Obstetrics and Gynecology.
Lawrence Lloyd Anderson, A.M., M.D., Associate in Surgery.
Thorwald Anderson, A.B., M.D., Assistant Professor of Pathology.
Carol Remmer Angle, A.B., M.D., Clinical Assistant in Pediatrics.
Franklyn N. Arnhoff, B.Sc., M.A., Ph.D., Instructor in Neurology and Psychiatry.
Stanley Monrad Bach, A.B., M.D., Assistant Professor of Orthopedic Surgery and Instructor in Anatomy.
Clarence Fredrick Bantin, B.Sc., M.D., Associate in Pediatrics.
Elmer William Bantin, B.Sc., M.D., Assistant Professor of Pediatrics.
Anthony Joseph Barak, B.Sc., M.Sc., Ph.D., Assistant Professor of Biochemistry.
John L. Barmore, M.D., Assistant Professor of Surgery.
Meyer Beber, B.Sc., Ph.D., Associate Professor of Internal Medicine and Associate Professor of Biochemistry.
James Winfred Benjamin, B.A., M.A., Ph.D., Associate Professor of Anatomy, Assistant Dean of the College of Medicine.
Arthur Lawrence Bennett, A.B., Ph.D., M.D., Professor of Physiology and Pharmacology, (Assistant Chairman of Department.)
Gordon Newall Best, B.Sc., M.D., Associate Professor of Internal Medicine.
Rolland Russell Best, B.Sc., M.D., Professor of Surgery and Assistant Professor of Anatomy.
James Dewey Bisgard, A.B., M.D., Professor of Surgery.
William Carl Boelster, B.A., M.D., Clinical Assistant in Obstetrics and Gynecology.
Russell Charles Brauer, A.B., M.D., Clinical Assistant in Surgery.
John Grierson Brazer, A.B., M.D., Assistant Professor of Internal Medicine.
John Francis Bresnahan, B.Sc., M.D., Instructor in Physical Diagnosis.
I. William Brill, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry.
Herman Henry Brinkman, M.D., Clinical Assistant in Surgery.
Kenneth Murie Browne, M.Sc., M.D., Associate in Neurological Surgery and Adjunct Instructor in Physiology and Pharmacology.
John Hobart Brush, A.B., M.D., Associate in Surgery.
Donald John Bucholz, A.B., M.A., M.D., Associate in Internal Medicine.
Dwight Willard Burney, Jr., A.B., M.D., Associate in Orthopedic Surgery, Assistant in Anatomy.
Tomas Robert Cajigas, M.D., Instructor in Pathology.
Olin James Cameron, M.S., M.D., Professor of Dermatology (Chairman of Department.)
Louis Scott Campbell, B.Sc., M.D., Associate Professor of Orthopedic Surgery.
Oscar Carp, B.Sc., M.D., Assistant Professor of Otorhinolaryngology.
Michael J. Carver, B.Sc., M.Sc., Ph.D., Instructor in Biochemistry.
Waldron Alvin Cassidy, A.B., M.D., Professor of Otorhinolaryngology and Consultant in Bronchoscopy.
Arthur O. Chapman, A.B., M.A., Ph.D., Assistant Professor of Anatomy.
George Leonard Clark, B.Sc., M.D., Assistant Professor of Pediatrics.
Robert Morris Cochran, B.Sc., M.D., Associate in Surgery and Instructor in Anatomy.
John Daniel Coe, M.D., Instructor in Surgery and Assistant in Anatomy.
Francis C. Coleman, M.D., Clinical Assistant Professor of Pathology.
Robert Marshall Collins, B.Sc. in Med., M.D., Assistant Professor of Obstetrics and Gynecology.
Walter Thomas Cotton, B.Sc., in Med., M.D., Assistant Professor of Obstetrics and Gynecology.
Michael Crofoot, A.B., M.D., Assistant Professor of Pediatrics.
Edmund Jesse Dailey, D.D.S., Assistant Professor of Dental Surgery.
Dale Henley Davies, M.D., Associate in Radiology.
Edwin Davis, Jr., B.A., M.D., Associate in Internal Medicine.
Herbert Haywood Davis, A.B., M.D., Professor of Surgery (Chairman of Department).
Herbert Leroy Davis, A.B., Ph.D., Assistant Research Professor of Biochemistry and Surgery.
James Allan Davis, B.Sc., M.D., Instructor in Otorhinolaryngology.
John Calvin Davis, Jr., A.B., M.D., Professor of Otorhinolaryngology (Chairman of Department).
Lawrence Taylor DeBusk, M.D., Instructor in Surgery.
William John Dickerson, A.B., M.D., Instructor in Internal Medicine.
Robert Hugh Dickinson, A.B., M.D., Associate Professor of Neurology and Psychiatry.
Arthur Lovell Dunn, A.B., A.M., Ph.D., Assistant Professor of Biochemistry and Radiology.
Frank Lowell Dunn, B.Sc., A.M., M.D., Professor of Internal Medicine and Associate Professor of Clinical Physiology.
Frank Lewis Eagle, B.Sc., M.D., Associate in Ophthalmology.
Alfred George Ellick, A.B., J.D., Assistant Professor of Medical Jurisprudence.
Robert James Ellingson, B.Sc., M.A., Ph.D., Associate Professor of Medical Psychology.
H. Chandler Elliott, B.A., M.A., Ph.D., Associate Professor of Anatomy.
Herman Charles Ellsworth, B.A., M.D., Clinical Associate in Radiology.
John Clayton Filkins, B.Sc., M.D., Associate in Ophthalmology.
David Pressey Findley, M.D., Associate Professor of Obstetrics and Gynecology.
Alister Ian Finlayson, M.A., M.D., Associate Professor of Neurological Surgery.
Don Casot Fitzgerald, M.A., Ph.D., Assistant Professor of Medical Psychology.
Max Fleishman, M.D., Instructor in Internal Medicine.
Miles E. Foster, A.B., B.Sc., M.D., Assistant Professor of Pathology.
Muriel Naomi Frank, A.B., A.M., M.D., Associate in Anesthesiology.
Albert Edward Freed, B.Sc., M.D., Instructor in Internal Medicine.
Fred J. Fricke, B.Sc., M.Sc., M.D., Clinical Instructor in Medicine.
John Leo Gedgoud, B.Sc., M.D., Professor of Pediatrics.
John Harold George, M.D., Clinical Instructor in Obstetrics and Gynecology.
Gordon Everett Gibbs, A.B., M.A., Ph.D., M.D., Associate Professor of Pediatrics.
Horse Kerr Giffen, A.B., M.D., Assistant Professor of Pathology.
Harold Gifford, Jr., B.Sc. in Med., M.D., Associate Professor of Ophthalmology.
Ray O'Herin Gillies, Jr., B.Sc., M.D., Instructor in Otorhinolaryngology.
Julius Charles Goldner, B.Sc., M.D., Instructor in Neurology and Psychiatry.
William Ernest Graham, A.B., M.D., Instructor in Internal Medicine.
**Harris Breiner Graves, A.B., M.D., Clinical Assistant in Internal Medicine.
Richard Walter Gray, M.D., Instructor in Neurology and Psychiatry.
Arthur Morton Greene, B.Sc., M.D., Assistant Professor of Medicine.
Robert Leslie Grissom, M.D., Professor of Internal Medicine.

* On leave of absence.
** On military leave.
Millard Filmore Gunderson, Ph.D., Professor of Medical Microbiology.

William Rudolph Hamsa, B.Sc., M.D., Professor of Orthopedic Surgery. (Chairman of Department.)

Ernest Wilberforce Hancock, A.B., M.D., Instructor in Pediatrics.

Charles Robert Hankins, A.B., M.D., Assistant Professor of Internal Medicine.

Alexander Thom Harvey, B.Sc., M.D., Instructor in Internal Medicine and Assistant Superintendent, University Hospital.

Lyman Howard Heine, A.B., M.D., Assistant Professor of Otorhinolaryngology.

Mary Josephine Henn, A.B., M.Sc., M.D., Instructor in Internal Medicine.

Harland Thomas Hermann, B.Sc., M.D., Instructor in Neurology and Psychiatry.

Bernice M. Helzner, B.A., M.A., Assistant Professor of Library Science.

Hiram David Hilton, A.B., M.Sc., M.D., Clinical Coordinator.

Donald Vincent Hirt, A.B., M.D., Instructor in Obstetrics and Gynecology.

Roy Groves Holly, B.Sc., Ph.D., M.D., Professor of Obstetrics and Gynecology.

Joseph Michael Hollihaus, B.Sc. in Med., M.D., Instructor in Internal Medicine.

Edward Augustus Holyoke, Ph.D., M.D., Professor of Anatomy.

Leo Thomas Hood, B.Sc., M.D., Associate in Orthopedic Surgery.

Wayne McKinley Hull, M.Sc., M.D., Associate in Internal Medicine.

Fred Ludwig Humole, B.Sc., Ph.D., Associate Research Professor of Chemical Physiology and Pharmacology.

Herbert Haynes Humphreys, A.B., M.A., Ph.D., Assistant Professor of Neurology and Psychiatry.

Howard Beeman Hunt, A.M., M.D., Professor of Radiology (Chairman of Department), and Professor of Rehabilitation Physical Medicine.

Charles Gregory Ingham, M.D., Associate in Neurology and Psychiatry.

Donald Robert Jackson, A.B., M.D., Instructor in Internal Medicine.

Herbert Paul Jacobi, B.Sc., M.Sc., Ph.D., Associate Professor of Biochemistry. (Chairman of Department.)

Herman Mandel Jahr, B.Sc., M.D., Professor of Pediatrics. (Chairman of Department.)

Louise H. Jodrey, B.Sc., M.Sc., Ph.D., Instructor in Physiology and Pharmacology.

George Nick Johnson, Jr., M.D., Associate in Surgery.

Herman Frank Johnson, M.D., Professor of Orthopedic Surgery.

Marshall R. Jones, A.B., M.A., Ph.D., Assistant Professor of Medical Psychology.

Robert Dale Jones, M.D., Instructor in Neurology and Psychiatry.

Robert Eric Jonanson, B.Sc., M.D., Associate in Internal Medicine.

Harold Daniel Jourdan, M.D., Instructor in Surgery.

John Hewitt Judd, B.Sc., M.D., Professor of Ophthalmology. (Chairman of Department.)

Henry Kammandel, B.Sc., M.D., Associate in Urology.

John Charles Kennedy, M.A., M.D., Assistant Professor of Surgery.

Esley Joseph Kirk, A.M., M.D., Associate Professor of Medicine.

Frank Joseph Klabenese, B.Sc., M.Sc., Ph.D., Associate Professor of Otorhinolaryngology.

William Philip Kleitsch, M.D., Assistant Professor of Surgery.

George John Klok, A.B., B.Sc., M.D., Associate in Pediatrics.

Walter George Klopfer, A.B., M.A., Ph.D., Assistant Professor of Neurology and Psychiatry.

James Robert Kovarik, M.D., Associate in Obstetrics and Gynecology.

Morion Howard Kulesh, A.B., M.D., Assistant Professor of Pathology.


Edward Langdon, B.Sc., M.D., Associate in Internal Medicine.

John Francis Latenser, M.D., Instructor in Surgery.

John Stephens Latta, Ph.D., Professor of Anatomy. (Chairman of Department.)

Leroy William Lee, B.Sc. in Med., M.S., M.D., Professor of Urology. (Chairman of Department.)

Henry John Lehnhoff, Jr., A.B., M.D., Associate Professor of Internal Medicine.

Rosaire Elie Lemiere, B.A., M.D., Instructor in Internal Medicine.

Raymond Gerald Lewis, A.B., B.Sc., M.D., Associate in Internal Medicine.

Roland Henry Loder, M.P.H., M.D., Associate Professor of Preventive Medicine.

Robert Stanley Long, B.Sc., M.D., Assistant Professor of Internal Medicine.

George Walter Loomis, A.B., M.D., Associate in Internal Medicine.

Robert Ellsworth Lovgren, B.Sc., M.D., Assistant Professor of Otorhinolaryngology.

Joseph Daniel McCarthy, M.D., Associate Professor of Internal Medicine.

** Deceased July 26, 1954.
FACULTY

Harry Webber McFadden, A.M., M.D., Associate Professor of Medical Microbiology.

(Chairman of Department.)

Millard Blair Mcgee, A.B., B.Sc., M.D., Instructor in Internal Medicine.

Leon Steinert McGoogan, A.B., M.D., Professor of Obstetrics and Gynecology. (Chairman of Department.)

Archibald Ross McInlyre, Ph.D., M.D., Professor of Physiology and Pharmacology.

(Chairman of Department.)

Charles William McLaughlin, Jr., B.Sc. in Med., M.D., Professor of Surgery.

George Boone McMurtrey, M.D., Instructor in Surgery.

Clarence Austin McWhorter, B.Sc. in Med., M.D., Associate Professor of Pathology.

Reginald Anslow MacHaffie, B.Sc., M.A., M.D., Instructor in Internal Medicine.

Ernest Lynn MacQuiddy, Jr., A.B., M.D., Instructor in Internal Medicine.

Frank Majka, B.Sc., M.D., Associate in Neurology and Psychiatry.

Edward Marvin Malashock, A.B., M.D., Associate in Urology.

Morris Margolin, A.B., M.D., Assistant Professor of Internal Medicine.

Morris Melberger, A.B., M.D., Instructor in Internal Medicine.

Daniel Martin Miller, B.Sc., M.D., Associate in Surgery.

Norman Gustav Miller, B.Sc., M.Sc., Ph.D., Assistant Professor of Medical Microbiology.

Clinton Charles Millett, B.Sc., M.D., Clinical Assistant in Internal Medicine.

William Bridges Moody, A.B., M.D., Professor of Internal Medicine. (Chairman of Department.)

Charles Franklin Moon, M.D., Professor of Obstetrics and Gynecology.

Ralph Cory Moore, B.Sc., M.D., Associate Professor of Radiology.

Harold Smith Morgan, M.D., Instructor in Obstetrics and Gynecology.

Kerck Morris, A.B., M.D., Associate in Internal Medicine and Director of Student Health Service.

William Howard Morrison, B.Sc. in Med., M.D., Associate Professor of Ophthalmology.

Paul Newton Morrow, A.B., B.Sc. in Med., M.D., Associate Professor of Pediatrics.

Ruben Allyn Moses, A.B., M.D., Associate Professor of Internal Medicine.

Howard Otis Mott, A.B., M.D., Associate in Internal Medicine.

Floyd Joshua Murray, B.Sc., M.D., Associate in Surgery.

Nathan Muskin, A.B., M.D., Instructor in Internal Medicine.

Morle McNeil Musselman, B.Sc., M.D., Professor of Surgery.

Delbert Delose Neis, A.B., M.D., Instructor in Surgery.

Oliver Clarke Nickum, A.B., M.D., Instructor in Medicine.

Donald Charles Nilsson, A.B., M.D., Associate in Pediatrics.

John Frederick Nilsson, M.D., Instructor in Surgery.

William Edwin Nutzman, A.B., M.D., Assistant Professor of Internal Medicine.

Byron Bay Oberst, B.A., M.D., Associate in Pediatrics.

Leland J. Olson, A.B., M.D., Associate in Obstetrics and Gynecology.

Paul David Pedersen, M.P.H., M.D., Instructor in Preventive Medicine.

Earl Stanley Pederson, A.B., M.A., Ph.D., M.D., Assistant Professor of Radiology and Anatomy.

Maurice Lewis Pepper, B.Sc., M.D., Assistant Professor of Internal Medicine and Associate in Cardiology.

George Henry Pesier, A.B., M.D., Instructor in Surgery.

George Francois Pinne, M.D., Associate Professor of Dermatology and Syphilology.

Louis Thomas Placek, B.Sc., M.D., Associate in Otorhinolaryngology.

Stanley Ernest Potter, M.D., Associate in Surgery and Instructor.

Carl Joseph Potthoff, B.Sc., M.D., Sc.P.H., Associate Professor of Preventive Medicine and Public Health.

Eugene Francis Powell, A.B., Ph.D., Premedical Adviser, Assistant Professor of Zoology and Anatomy.

Peyton Thomas Pratt, A.B., M.D., Associate in Internal Medicine.

Robert Houston Ras Gorske, M.D., Assistant Professor of Ophthalmology.

John Arthur Rasmussen, M.D., Associate in Surgery and Assistant in Anatomy.

John Philbrook Redwick, B.Sc., M.D., Assistant Professor of Obstetrics and Gynecology.

Barney Benjamin Rees, A.B., M.A., M.D., Instructor in Surgery.

Oliver Francis Rehfeld, D.V.M., Instructor in Comparative Pathology.

Rose M. Reynolds, A.B., Instructor in Anatomical Illustration.

Floyd O. Ring, B.Sc., M.D., Associate in Neurology and Psychiatry.

* On military leave.
Jerome Ritter, M.D., Clinical Coordinator.

George Edwin Robertson, B.Sc. in Med., M.D., Professor of Pediatrics.

Earl Alvin Rogers, B.A., M.D., Associate Professor of Preventive Medicine.

Paul Carl Roock, B.Sc., M.D., Instructor in Internal Medicine.

Charles Morton Root, M.D., Associate in Internal Medicine.

Jerman Walter Rose, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry.

Robert Carl Rosenlof, M.D., Instructor in Internal Medicine.

William Leonard Rumboltz, A.B., M.D., Assistant Professor of Obstetrics and Gynecology.

Earl Gudding Sage, B.Sc., M.D., Professor of Obstetrics and Gynecology.

Herbert Blake Salchek, B.Sc., M.D., Clinical Instructor in Radiology.

Gilbert Lee Sandritter, M.D., Associate in Neurology and Psychiatry.

John Rudolph Schenkken, B.Sc., M.D., Professor of Pathology (Chairman of Department), Director of the School of Medical Technologists.

Gilbert C. Schreiner, A.B., M.D., Instructor in Pediatrics.

Rudolph Frederick Sievers, Ph.D., M.D., Instructor in Physiology and Pharmacology.

Eugene Earl Simmons, B.Sc., M.D., Professor of Internal Medicine.

Milton Simmons, B.Sc. in Med., M.D., Assistant Professor of Pathology.

Anton William Skoog-Smith, B.Sc. in Med., M.D., Clinical Instructor in Radiology.

Robert Alken Slabaugh, B.Sc., M.D., Instructor in Internal Medicine.

Dorothy Irene Smith, A.B., M.D., Associate in Pediatrics.

Francis D. Smith, B.Sc., M.D., Associate in Pathology.

Jackson Algernon Smith, B.A., M.D., Professor of Neurology and Psychiatry.

Richard Dale Smith, A.B., M.D., Associate in Orthopedic Surgery.

Alvin Somberg, M.D., Instructor in Internal Medicine.

Chester Quay Thompson, B.Sc., M.D., Associate Professor of Medical Jurisprudence.

Robert Johnston Stein, B.Sc., M.D., Instructor in Neurology and Psychiatry.

Abraham A. Steinberg, B.Sc., M.D., Assistant Professor in Ophthalmology.


John David Stevens, M.D., Instructor in Neurology and Psychiatry.

LaVerne Craig Strough, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry.

Samuel August Swenson, Jr., A.B., B.Sc., M.D., Associate in Surgery.

Jerry X. Tamisiea, M.D., Instructor in Pathology.

Earl S. Taulbee, A.B., Ph.D., Instructor in Neurology and Psychiatry.

Willis Heacock Taylor, B.Sc., M.D., Instructor in Obstetrics and Gynecology.

Frederick Franklin Teal, A.B., M.D., Associate Professor of Orthopedic Surgery.

Robert Charles Therien, B.Sc. in Med., M.D., Associate in Anesthesiology.

John Martin Thomas, A.B., M.D., Associate Professor of Pediatrics.

Chester Quay Thompson, B.Sc., M.D., Associate Professor of Medicine.

Dorothy Helen Thompson, B.Sc. in Med., M.D., Assistant Professor of Anesthesiology.

Lynn Wirt Thompson, B.Sc., M.D., Instructor in Anesthesiology.

James Perry Tolman, B.Sc. in Med., M.D., Professor of Pathology. Dean of the College of Medicine and Superintendent of University Hospital.

Charles Archibald Tompkins, B.Sc. in Med., M.D., Associate Professor of Pediatrics.

Stanley Marshall Truhlsen, A.B., M.D., Associate in Ophthalmology.

Arthur T. Tuma, A.B., M.Sc., Instructor in Radiology.

Robert D. Vickery, A.B., M.D., Instructor in Ophthalmology.

Donald Clay Vroman, B.Sc. in Med., M.D., Associate in Obstetrics and Gynecology.

John R. Walsh, M.D., Assistant Professor of Internal Medicine.

Carl Arthur Walvoord, M.D., Clinical Assistant in Internal Medicine.

Chester Hill Waters, Jr., A.B., M.D., Associate Professor of Orthopedic Surgery.

Herbert Wetherell, B.Sc., Ph.D., Assistant Professor of Physiology and Pharmacology.

Robert Spencer Wigton, M.A., M.D., Professor of Neurology and Psychiatry.

Violet Myrtle Wilder, A.B., M.A., Ph.D., Associate Professor of Biochemistry.

Carlyle Everett Wilson, A.B., B.Sc., M.D., Instructor in Surgery and Assistant in Anatomy.

Donald Jasper Wilson, A.B., B.Sc., M.D., Associate Professor of Dermatology and Syphilology.

Joseph Lorenzo Wilson, M.D., Instructor in Neurology and Psychiatry.

Cecil Legriel Wittson, B.Sc., M.D., Professor of Neurology and Psychiatry. (Chairman of Department.)

Willis Dean Wright, B.Sc., M.D., Associate in Internal Medicine.

Raymond Joseph Wyren, A.B., M.D., Associate in Internal Medicine.

J. Lewis Yager, A.B., Ph.D., Associate in Neurology and Psychiatry.

* On military leave.
George Alexander Young, Jr., M.D., Associate in Neurology and Psychiatry.
Frank Marshall Zahiler, M.D., Instructor in Pediatrics.

Administration
Izma Maurine Kyle, R.N., B.Sc., S.M., Director of the School of Nursing and Professor of Nursing.
Alexander Thom Harvey, B.Sc., M.D., Assistant Superintendent of University Hospital and Instructor in Internal Medicine.
Helen Erikson, R.N., Superintendent of Dispensary.
Josephine Chamberlin, R.N., Superintendent of Dispensary, Emeritus.
Evelyn Schellak, A.B., M.S. in Soc. Adm., Director of Medical Social Service.
Ruth ErDena Pohle, B.A., Supervisor in Hospital Laboratory.
Violet May Pospichal, Assistant Registrar.
Florence M. Classen, Secretary to the Dean.
Dorothy Spragg, A.B., M.A., Director of Dietetics.
Duane Johnson, B.Sc. in M. Hosp. Adm., Hospital Administrator.
Herschel Nuss, Assistant Finance Director.
James Oschner, B.Sc. in M.E., Assistant Superintendent of Buildings and Grounds.
Lloyd W. Wagon, B.Sc., M.Sc., Administrative Assistant in charge of Public Relations and Post Graduate Work, College of Medicine.

DEPARTMENT CHAIRMEN

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J. S. Latta, Chairman
DEPARTMENT OF BIOCHEMISTRY
H. P. Jacob, Chairman
DEPARTMENT OF DERMATOLOGY AND SYRINGOLOGY
O. J. Cameron, Chairman
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
L. S. McGooagan, Chairman
DEPARTMENT OF OTOHINOLARYNGOLOGY
J. H. Judd, Chairman
DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY
A. R. McIntyre, Chairman
DEPARTMENT OF INTERNAL MEDICINE
W. B. Moody, Chairman

COMMITTEES OF THE FACULTY

Admissions and Scholastic Standing
Drs. Benjamin (Chairman), Cotton, Giffen, Hamsa, McFadden, Martin, Pederson
Budget
Drs. McIntyre (Chairman), F. L. Dunn, Hunt, Latta, Moody, Schenken
Building
Drs. F. L. Dunn (Chairman), Barmore, Benjamin, Hunt, McWhorter, Musselman, Wittson, Mr. D. Johnson (ex officio)
Curriculum
Drs. Bennett (Chairman), Benjamin, Grissom, Holly, Holyoke, Musselman, McIntyre
Dispensary
Drs. Loomis (Chairman), Cotton, Kulesh, Malashock, Rees, Truhlser
Educational Policies
Drs. H. H. Davis, Latta, McFadden, McIntyre, Moody, Wittson
Library
Drs. Latta (Chairman), Grissom, Moon, Wetherell, Miss Kyle, Mrs. Hetzner
Preceptorship
Drs. R. R. Best (Chairman), MacQuiddy, Sr., McCarthy, Moon, Niehaus, Fay Smith, W. Thompson
Public Relations
Drs. Brush (Chairman), F. L. Dunn, G. N. Johnson, Lee, McLaughlin, MacQuiddy, Jr., Wittson, Potter
College of Medicine

Postgraduate Activities
Drs. Angle (Chairman), Bennett, Brush, Holly, Kammandel, Lee

Senior Examinations
Drs. Henn, Holly, Musselman, Dorothy Smith, Strough, Benjamin (ex officio)

Special Functions
Drs. A. J. Barak (Chairman), Chapman, Jahr, Dorothy Smith, Wilder, Miss Reynolds, L. Williams, V. Pospichal (ex officio)

Student Assistance
Drs. Holyoke (Chairman), Bach, Benjamin, Elliott, Jacobi

Thesis Committee
Drs. A. J. Barak (Chairman), Chapman, Jahr, Dorothy Smith, Wilder, Miss Reynolds, L. Williams, V. Pospichal (ex officio)

University Hospital
Drs. Hunt (Chairman), Jahr, Langdon, McFadden, McLaughlin, Olson. Harvey (ex officio), Miss Kyle (ex officio), Mr. D. Johnson (ex officio)

Interns
1955-1956
Leo Melvon Adams, B.Sc. in Med., M.D.
Dale Walter Ebers, B.Sc., M.D.
Elize Noordsij, M.D.
Otto Gottlieb Rath, A. B., M.D.
Howard Dean Wesley, B.Sc. in Med., M.D.

Residents
1955-1956
Gerard R. F. Landry, B.A., M.B., M.D.

Anesthesiology
Charles Albert Hamilton, B.Sc., M.Sc., M.D.

Internal Medicine

Obstetrics and Gynecology
Edwin Heman Barnes, III, M.D.
John O. McCarthy, B.Sc. in Med., M.D.
John Donald McCrady, B.Sc. in Med., M.D.
Ramona Jean Middleton, M.D.
Clyde Eugene Penner, A.B., M.D.
Mary A. Soule, B.A., M.D.

Ophthalmology
Fenworth M. Downing, B.Sc. in Med., M.S., M.D.

Orthopedic Surgery
Warren J. Roberts, M.D.

Pathology
Donald Max Fitch, B.A., B.Sc., M.D.
John LeRoy Lang, B.Sc., M.D.
Frank Leonard Vrtiska, B.A., M.D.
Howard Rex Wilcox, B.Sc., M.D.
Richard Barr Wilson, M.D.

Pediatrics
David Williams Davis, M.D.

Psychiatry
Ilse Beck, M.D.
Robert Sullivan Behrns, M.D.
Waldo E. Burnett, B.Sc., M.D.
A. J. Noordsij, M.D.
Damaris Suttle Rice, B.Sc. in Med., M.D.
Jerrold Sidney Rice, B.A., M.D.

Radiology
Shaun Dennis Gunderson, B.Sc. in Med., M.D.
Charles Harold Newell, M.D.
George Robert Pullman, M.D.
FACULTY

SURGERY

John Lear Beattie, B.Sc. in Med., M.D.
Thomas Edward Bilon, M.D.
William Henry Bunstock, B.Sc. in Med., M.D.
Lawrence Taylor DeBusk, B.Sc. in Med., M.D.
Richard Henry Jesse, B. Sc. in Med., M.D.
Harold Daniel Jourdan, B.A., M.D.
John Wesley Porter, B.Sc., M.D.
Donald Trojan Stroy, B.A., M.D.

Fellows
1955-56

PEDIATRICS
Bharat Bhushan Kumar, M.B.B.S.

RADIOLOGY
Ronald Edgar Waggener, B.Sc., M.Sc. M.D.

CLINICAL ASSOCIATES IN GENERAL PRACTICE

James Gillan Allen, B.Sc. in Med., M.D., Tekamah
Carl Gideon Amick, B.Sc., M.D., Loup City
Allen Byford Anderson, M.D., Pawnee City
Arthur Wesley Anderson, M.D., Lexington
Chatuncey Leroy Anderson, B.Sc., M.D., Stromsburg
Carl Cecil Barr, B.Sc., M.D., Tilden
Robert Earl Barr, M.D., Tilden
Walter Bentschack, A.B., M.D., Wayne
Herbert Alva Blackstone, B.Sc., M.D., Bridgeport
Rolland Roy Brady, M.D., Ainsworth
Everett C. Brillhart, B.Sc., M.D., Columbus
Ralph L. Cassel, A.B., M.D., Fairbury
Charles Maxwell Coe, B.Sc., M.D., Wakefield
Roy Spencer Cramm, B.Sc. in Med., M.D., Burwell
Benhard Farner, M.D., Norfolk
John Edgar Farner, B.Sc. in Med., M.D., Valentine
Leroy Turner Gathman, B.Sc. in Med., M.D., South Sioux City
W. Max Gentry, A.B., M.D., Gering
Benjamin Hayes Grimm, B.Sc., M.D., Sidney
George Alfred Haslam, A.B., B.Sc., M.D., Fremont
Clifford Dale Howard, B.Sc., M.D., Blair
Dwight Otis Hughes, B.Sc., M.D., Fairbury
Marvin Anthon Johnson, M.D., Plainview
Wilbur Edward Johnson, A.B., B.Sc., M.D., Valentine
Antonius Andrew Larsen, B.Sc., M.D., South Sioux City
William D. Lear, B.Sc., M.D., Ainsworth
Earl Francis Leininger, B.Sc., M.D., McCook
I saiah Lukens, Jr., A.B., B.Sc., M.D., Tekamah
John Lewis McFee, B.Sc., M.D., Ogallala
Julian E. Meyer, M.D., Columbus
Burdette L. Miller, A.B., M.D., Loup City
Donal Hohari Morgan, B.Sc., M.D., McCook
H. Dev Myers, B.Sc., M.D., Schuyler
Dan Atchison Nye, M.D., Kearney
Paul B. Olsson, B.Sc., M.D., Lexington
Harold Jay Panzer, A.B., M.A., M.D., Bassett
Theodore August Peterson, B.Sc. in Med., M.D., Holdrege
Bert W. Pyle, A.B., M.D., Gothenburg
Walter M. Reiner, M.D., Holdrege
George Salter, B.Sc., M.D., Norfolk
Paul Milton Scott, B.Sc. in Med., M.D., Auburn
Willard George Seng, M.D., Oshkosh
Alfred Harold Shamberg, M.D., Kimball
Rudolph Frederick Sievers, B.Sc., Ph.D., M.D., Blair
Fay Smith, B.Sc., M.D., Imperial
Carl Herman Louis Stehl, M.D., Scribner
Hardin Sherman Tennant, B.Sc., M.D., Stanton
Elwood Edward Yaw, B.Sc., M.D., Imperial
BRYAN MEMORIAL HOSPITAL

Paul Martin Bancroft, B.Sc., M.Sc., M.D., Clinical Associate Professor of Pediatrics.
Wilbur W. Bartels, A.B., M.D., Clinical Assistant Professor of Orthopedic Surgery.
John Hodgson Barthell, M.D., Clinical Instructor in Dermatology and Syphilology.
Louis T. Davies, A.B., B.Sc., M.D., Clinical Associate Professor of Surgery.
K. J. Fijan, B.Sc., M.D., Clinical Instructor in Pediatrics.
Marina D. Fraser, B.Sc., M.D., Clinical Associate Professor of Radiology.
Richard Earl Garlinghouse, A.B., M.D., Clinical Associate Professor of Obstetrics and Gynecology.
Robert S. Grant, A.B., M.D., Clinical Instructor in Pediatrics.
John Hodgson Barthell, M.D., Clinical Instructor in Dermatology and Syphilology.
Louis T. Davies, A.B., B.Sc., M.D., Clinical Assistant Professor of Surgery.
Harold R. Horn, A.B., M.D., Clinical Instructor in Orthopedic Surgery.
Kenneth T. McGinnis, B.Sc., M.D., Clinical Assistant Professor of Obstetrics and Gynecology.
Paul J. Maxwell, M.D., Clinical Instructor in Internal Medicine.
Herschel B. Morton, B.Sc., M.D., Clinical Associate Professor of Surgery.
Leverne F. Pfeifer, B.A., M.D., Clinical Instructor in Urology.
E. Burket Reed, B.Sc., M.D., Clinical Associate Professor of Internal Medicine.
Edward Andrew Stilka, M.D., Clinical Instructor in Urology.
Lee Storey, A.B., M.D., Clinical Assistant Professor of Internal Medicine.
Bowen E. Taylor, A.B., M.D., Clinical Instructor in Internal Medicine.
Wayne K. Tice, A.B., M.D., Clinical Instructor in Radiology.
Frederick S. Webster, A.B., M.D., Clinical Instructor in Orthopedic Surgery.
W. Wallace Webster, D.D.S., Clinical Assistant Professor of Oral Surgery.
Jon T. Williams, A.B., M.D., Clinical Instructor in Internal Medicine.
Maynard A. Wood, B.Sc., M.D., Clinical Associate Professor of Ophthalmology.
Robert Armstrong Youngman, A.B., M.D., Clinical Assistant Professor of Internal Medicine.

LINCOLN GENERAL HOSPITAL

Marion Porter Brolsma, A.B., B.Sc., M.D., Clinical Instructor in Internal Medicine.
LeGrand Dwight Cherry, B.Sc., M.D., Clinical Assistant Professor of Surgery.
Frank Cole, B.Sc., M.D., Clinical Associate in Surgery.
Clarence Kilgore Elliott, A.B., M.D., Clinical Assistant Professor of Internal Medicine.
Robert O. Garlinghouse, A.B., M.D., Clinical Assistant Professor of Surgery.
Louis Gilbert, A.B., M.D., Clinical Instructor in Urology.
Louis James Gogela, B.S.M., M.A., M.D., Clinical Assistant Professor of Surgery.
Hodson Arthur Hansen, B.Sc., M.D., Clinical Instructor in Obstetrics and Gynecology.
Harry Evans Harvey, B.Sc., M.D., Clinical Associate Professor of Obstetrics and Gynecology.
Robert Antoine Hillyer, A.B., M.D., Clinical Instructor in Surgery.
Howard Eugene Mitchell, M.D., Clinical Assistant Professor of Orthopedic Surgery.
Harold Smith Morgan, M.D., Clinical Associate Professor of Obstetrics and Gynecology.
Horace Varnum Munger, A.B., M.D., Clinical Assistant Professor of Otorhinolaryngology.
Ornis A. Neely, B.Sc., M.D., Clinical Assistant Professor of Radiology.
Paul L. Peterson, M.D., Clinical Assistant Professor of Otorhinolaryngology.
Donald Frederick Purvis, M.D., Clinical Assistant Professor of Internal Medicine.
Jerome Ritter, A.B., M.D., Clinical Assistant Professor of Internal Medicine.
*Kenneth Dwight Rose, M.A., M.D., Clinical Instructor in Internal Medicine.
George Ewing Stafford, B.Sc., A.B., M.D., Clinical Assistant Professor of Pediatrics.
Robert Johnston Stein, B.Sc., M.D., Clinical Associate Professor of Neurology and Psychiatry.
Frank A. Stewart, B.Sc., M.D., Clinical Assistant Professor of Pediatrics.
Frank Paschal Stone, A.B., M.D., Clinical Assistant Professor of Orthopedic Surgery.
Frank Harold Tanner, B.Sc., M.D., Clinical Associate Professor of Pathology.
Horace Halsey Whitlock, B.Sc., M.D., Clinical Instructor in Internal Medicine.

* On military leave.
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 three million dollars which the Board of Regents has devoted to the construction and equipment of buildings on the University of Nebraska College of Medicine campus at Omaha. In the 1953 Session of the Nebraska Legislature a bill was passed to raise $6,000,000 within the next five years to build an addition to the University of Nebraska Hospital and to increase other teaching facilities on the College of Medicine campus. The campus provides for the instruction of students in the preclinical sciences, and in the University Hospital and Dispensary, for clinical teaching and experience. A strong faculty has met the demands of the expanding requirements of medical education, and, through 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 to 48 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.

APPLICATIONS FOR ADMISSION

Printed application forms are available at the College of Medicine, University of Nebraska, 42nd Street and Dewey Avenue, Omaha 5, Nebraska. Students applying for the Class of 1956 must have their applications completed by December 1, 1955.

In considering scholastic records of applicants, greater weight is given to the quality of work than to an excess of credit hours over the minimum required number. High scholarship alone does not assure acceptance. Consideration is given also to appraisals of character, personal interviews, scores on the Medical College Admission Tests and general fitness and promise of the candidate.

A very limited number of students from states other than Nebraska and not more than two students from foreign countries will be accepted to
the freshman class. It is the policy of the Committee on Admissions and Scholastic Standing to require that foreign students spend at least one year, and preferably two, studying in an undergraduate college in this country before applying for admission to the College of Medicine. This policy has been established in order both that the applicant may become familiar with the language, customs, and methods of teaching in the United States, and that the Committee may obtain a better evaluation of his qualifications and preparation for medicine.

APPLICATION PROCEDURE

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

1. A completed application form sent from the College of Medicine.
2. A small recent, unmounted photograph, preferably 2 x 2 inches.
3. An official transcript sent directly from the high school attended, showing the grades and credits earned.
4. An official transcript sent directly from each college or university attended.
5. Two character appraisals from professors of premedical sciences, preferably chemistry, zoology or physics.
6. The result of the Medical College Admission Test. The 1956 class will take the test by the fall of 1955. Information concerning this test may be obtained from the premedical adviser of the Arts and Science College or from the Education Testing Service, 20 Nassau Street, Princeton, New Jersey. Students should communicate directly with that office for specific details.

A personal interview with members of the Committee on Admissions and Scholastic Standing is required. Interview sessions will be held at the campus of the University of Nebraska in Lincoln in October and November. Interviews will be given at the College of Medicine at stated dates. Inquiries should be made of the premedical adviser at Lincoln or of the Assistant Registrar of the College of Medicine for appointments for interviews.

A fee of $5.00 must accompany the application of a student who is not a legal resident of Nebraska. Remittance should be made by check or postoffice money order and made payable to the University of Nebraska College of Medicine. Currency should not be sent. The fee will cover the cost of handling the application and is not refunded.

Any applicant who has previously applied for admission and has not been accepted or who fails to enroll after an acceptance, must re-apply in the regular manner if he wishes consideration for a subsequent year.

If an applicant has previously attended a medical school, he must also submit complete official transcripts of his medical school work and a letter of honorable dismissal from the dean of the last medical school attended. If a student has been dropped from another medical school because of poor scholarship or unsatisfactory conduct, he is not acceptable for admission to The University of Nebraska College of Medicine.

SPECIFIC EDUCATIONAL REQUIREMENTS

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

**College or University.**—The University of Nebraska College of Medicine requires a minimum of three years of college work (90 semester hours or 135 quarter hours) in an accredited college. Specific minimum premedical course requirements are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry (4 hours of which must be organic)</td>
<td>14</td>
</tr>
<tr>
<td>Biology</td>
<td>8</td>
</tr>
<tr>
<td>Physics</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Electives (including foreign language)</td>
<td>54</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>90</strong></td>
</tr>
</tbody>
</table>

**Chemistry:** Fourteen semester hours which must include complete course in general inorganic chemistry, 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 semester hours of credit in zoology. These requirements can be satisfied at the University of Nebraska by completing courses: Zoology 1, 2, 112, 141 or 151; or by Biology 1, 2 and Zoology 112 or 141 or 151. They may also be met by four credit hours in zoology and four credit hours in botany, but not by botany alone.

**Physics:** Eight semester hours including mechanics, sound, heat, electricity, magnetism and light. For students at the University of Nebraska this requirement can be met by the completion of Physics 1 and 2, or 103 and 104.

**English Composition and Literature:** Six semester hours. 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 continue the medical course.

**Foreign Language:** Students must have a reading knowledge of a foreign language, preferably a modern foreign language. This requirement may be met as follows:

<table>
<thead>
<tr>
<th>Group</th>
<th>HIGH SCHOOL LANGUAGE</th>
<th>GROUP REQUIREMENT</th>
<th>COMBINED GROUP AND ENTRANCE REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUP</td>
<td>1 semester or none</td>
<td>16 hours in one language</td>
<td>18 hours in one language</td>
</tr>
<tr>
<td>GROUP</td>
<td>2 semesters</td>
<td>11 hours in same language</td>
<td>12 hours in same language</td>
</tr>
<tr>
<td>GROUP</td>
<td>3 semesters</td>
<td>11 hours in same language</td>
<td>11 hours in same language</td>
</tr>
<tr>
<td>GROUP</td>
<td>4 semesters</td>
<td>6 hours in same language</td>
<td>6 hours in same language</td>
</tr>
</tbody>
</table>

A student who has completed French 14, German 4, Spanish 54 or Latin 6, or the equivalent of these courses, with a grade of 6 or above, will be considered as having met the language requirements of the College. All of these courses are fourth semester courses. It is presumed that any student who can earn a grade of 6 in these courses has an acceptable knowledge of the language, even if he has not earned credit in the more elementary courses in these languages.

A student applying to the College of Medicine should have a grade average of at least 6.0 in all the required science courses. The grade
point of 6.0 is based upon the grading system of the University of Ne­
braska. The equivalent in other grading systems will be determined by
the Assistant Registrar's Office and the Committee on Admissions and
Scholastic Standing. In determining the equivalent, the grading system
and the scholarship requirements of the college or university wherein
the work was completed, will be taken into consideration.

Electives: It is recommended that the remaining hours include psychol­
ogy, social studies, history and other humanities and should be chosen
with the idea of obtaining the maximum cultural benefit. Candidates
for a bachelors degree are urged to choose elective subjects not related to
the specific medical requirements in order that they may acquire a broad
cultural background. Credits offered from professional schools which do
not regularly receive arts college credit are not accepted for premedical
college requirements.

Semester hours of credit in subjects such as human anatomy, histology,
embryology, physiology, biochemistry, medical bacteriology, or any other
subject which is taken in the medical college cannot be used in satisfying
the admission requirements.

REGISTRATION AND ADMISSION TO CLASSES

When an applicant receives notice that he has been accepted for en­
trance to the College of Medicine, he is required to send a deposit of
$25.00. This is applied as part payment of the tuition fee for the first
quarter or is forfeited if the applicant fails to register in the class for
which he was accepted. Applicants who are eligible for the provision of
Public Law 346 should present their certificates 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 $2.50 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. 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 to the second or third
year medical classes will be considered only from students attending medi­
cal schools approved by the Council on Medical Education and Hospitals
of the American Medical Association and provided a vacancy exists. An
applicant for admission to advanced standing must follow the regular
application procedure (see p. 14) and 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.
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 last two years of which must be in residence in the University of Nebraska College of Medicine.

The granting of transfer 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 work. The passing grade for subjects of the first and second medical years is 4. However, a student who fails to make a yearly average of 5 must pass an oral examination in all of the subjects of the year just completed before being permitted to register for the following year. A student is allowed to take only one recapitulation examination. The passing grade for the third and fourth years is 5.

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 quarter 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.

Whenever at the end of any quarter 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. A student who by quality of work or conduct indicates an unfitness to enter the medical profession may be required at any time to withdraw from the medical college. Recommendations for suspensions, dismissals, or other suitable action as the case warrants, will be made 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.**—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.

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 by the dean. 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 quarter, 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 have written an acceptable paper on an examination posed by the Examinations Committee at the end of the senior year, and also have passed all departmental examinations.
6. He must have written and presented an acceptable, typed senior thesis.
7. He must have discharged all indebtedness to the University of Nebraska.

The degree of Doctor of Medicine *cum laude* may be conferred upon a student who has made a high scholastic record, and who, in addition, has in the course of his medical studies performed some original research. Such a student must be recommended by the department in which the original work was done. Usually he must stand in the upper ten per cent of his class.

**Courses Leading to the Degrees of Bachelor of Arts or Bachelor of Science and Doctor of Medicine.**—Students who have transferred from the University of Nebraska College of Arts and Sciences may at the end of their fourth year earn the Bachelor of Arts degree or Bachelor of Science degree by:

1. Completing the group requirements of the College of Arts and Sciences (see page 18 of the College of Arts and Sciences catalog.)
2. Completing two minors or one major.
3. Using the subjects of the first year of the medical course as a major. Both of these degrees are conferred by 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 or Bachelor of Arts in the College of Arts and Sciences, may become candidates for the degree of Bachelor of Science in Medicine.
FEES AND EXPENSES

All students who are legal residents of Nebraska and who carry a full student load will pay a single blanket fee of $150.00 each quarter. Nonresident students will be charged a single blanket fee of $205.00 each quarter. Adjustments may be made in the case of students carrying less than the full student load.

The blanket fee includes matriculation, registration, medical, laboratory, library, diploma and course fees. In case of undue usage of materials or breakage or loss of equipment other than that allotted to each course, and because of negligence on the part of the student, a penalty charge will be levied based on the fair value of such material and equipment so lost or broken.

FEE REFUNDS

A student who withdraws from the University during any term for which he registered, is entitled to claim a refund of a portion of his fees, unless he withdraws after the twenty-eighth calendar day of the regular term. Then he will not be entitled to a refund.

CHANGES IN SCHEDULE

Any student is permitted to make changes in his or her schedule only upon the approval of the proper authorities. For such changes there will be a “change of registration fee” of $2.50.

ADVANCED STANDING EXAMINATION

Any student has the privilege of applying for advanced standing credit on the basis of examination. There is a charge of $6.00 per credit hour which must be paid in advance of the time of the examination.

MISCELLANEOUS FEES

The following fees are not included in the schedules listed above:

- Transcript—one copy furnished free
- Each additional original.......................... $1.00
- Degree in absentia................................. 10.00
- Special examination, each course............... 5.00
- Thesis Abstract.................................. 20.00
- Photostatic copy of diploma, each copy........ .25

CAP AND GOWN RENTAL

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No person may be recommended for a degree unless he has paid all fees assessed.

GRADUATE WORK

Graduate Committee: Professors McIntyre, Chairman, Bisgard, Hunt, Latta, Jacobi, McFadden, Schenken.

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 Medical Sciences. Upon recommendation of the Graduate Committee at
the College of Medicine admission to graduate work in the Medical Sciences may be granted to students who are in any of the following categories:

1. Students with Bachelor of Science or Bachelor of Arts degrees from recognized colleges or universities who attain an average grade of 7 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 from an acceptable college and presenting the equivalent of two semesters credit in the basic medical sciences.

4. Students from the College of Medicine who have bachelor's degrees, 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 in their courses or passed a qualifying examination in the basic medical sciences with a grade of at least 7.

Graduate students who are admitted with deficiencies in the medical sciences may, by permission of the Graduate Committee and approval of the Dean of the Medical College, register for courses on the College of Medicine campus in preparation for their qualifying examinations. Such graduate students may, upon satisfying the examiners in the medical sciences, make application to the Graduate Committee for graduate credit in certain medical courses successfully completed. The Graduate Committee may make recommendation for such credit on the basis of the attainment and aptitude of the applicant. In any case at least one-half of the total credit for the Master's degree shall be taken in graduate courses listed as 350 and above. Medical courses for which partial or total graduate credit may be allowed are listed under the respective departmental headings in the sections which follow listing courses of instruction.

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 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 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 quarter in a regularly required course in the College of Medicine. A student who fails to earn an average grade of at least 7 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 involve 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.

GRADUATE FEES

A resident student who originally registers for less than 12 quarter hours will be charged at the rate of $6.00 for the first hour and $4.00 for each additional hour up to and—including the twelfth. Quarter hours added thereafter will be free of charge.

A change of registration fee of $2.50 is charged in addition to the regular tuition for any changes made from the original registration.

A nonresident student who registers for less than 12 quarter hours will be charged double these fees, namely $12.00 for the first hour and $8.00 for each additional hour as well as the $2.50 change of registration fee if the original registration is changed.

All students who are legal residents of Nebraska and who carry a full schedule (12 or more hours) in any quarter will pay a blanket fee of $50.00 per quarter. Nonresident students will be charged a single blanket fee of $100.00 each quarter. The single fee includes—in addition to course charges—registration, library, diploma, and Student Health fees.

TEACHING AND RESEARCH ASSISTANTSHIPS

A graduate student holding an appointment as a teaching or research assistant during a quarter or summer session is required to pay only the administrative fee, providing the appointment carries a University stipend equal to at least the maximum tuition fee of $100 for a quarter, or for the summer. If the stipend received by an assistant is for an academic year (three quarters), he will pay only the administrative fee for the summer session following, or intervening between quarters for which he is appointed, even though he does not hold an appointment for the summer session.

The administrative fee is $12.50 for a registration of 7 or more hours during a quarter. If an assistant is registered for less than 7 hours during a quarter, he pays only a registration fee of $1.

GRADUATE FELLOWSHIPS

A student must carry a full program of graduate study or research for each quarter during which the fellowship stipend is received. Recipients of tuition fellowships, if residents of Nebraska, are required to pay only the administrative fee of $12.50 for each quarter for a full program, the resident tuition fee each quarter being remitted.

GRADUATE REGISTRATION

Registration will be accomplished during the first week of each quarter. At the candidate's first registration a written recommendation from the Director must be presented.

A fee of $3.00 is charged any student who, unless excused by the Director, seeks to register after the first week.

MISCELLANEOUS INFORMATION

Form of Payment.—To avoid misunderstanding as to the amount charged for fees, checks on personal accounts will be received only when written
for the exact amount of the fees. Parents or guardians should write checks for fees and for other expenses separately; if this is not done, students should deposit funds in a local bank and give personal checks for the amount of the fees.

Remittance by mail should be by draft, money order, or cashier’s check. Do not send coin or money except by registered mail. It is impossible to trace money lost in the mail and University officials cannot be held responsible for such loss.

Nonresident Students.—According to the Nebraska law, any student whose legal residence is not Nebraska is required to pay the nonresident fee. Those who enter the state to attend any institution of learning in this state will be considered nonresidents until they prove that they are legal residents as defined by the state statutes.

If a student wants to apply for exemption from the nonresident fee, he must get a residency application blank from the Office of the Comptroller and fill it in completely. This application blank must be notarized and then filed in the Office of the Comptroller.

The deadline for filing this application is the end of the sixth week of the term for which the tuition fee has been charged.

Students who are interested in the exact wording of the state law on residency can find it on the application blank for exemption from nonresident fees.

Microscopes.—Students are required to provide suitable microscopes for their own use. Inquiries regarding specifications for microscopes as recommended by the faculty may be obtained by addressing the dean’s office.

Expenses.—Board may be obtained in the vicinity of the College campus at an average cost of $15 a week and comfortable rooms for $30 a month. Students rooming together may obtain comfortable rooming quarters at slightly less than this amount. Seventy-five dollars a year should be allowed for books and instruments. The average expenses of the student for a school year, including board and room, books, instruments and all fees is between $1,250 and $1,500.

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 health of 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 disposal, as are also excellent collections of histological and embryological material, models, charts, etc.

Biochemistry.—This department occupies the entire fourth floor of the South Laboratory Building. The well-equipped student laboratory can
accommodate 48 students. Adjoining it are a classroom, balance room, "walk-in" incubator, and student stock room. The department also has several large research laboratories equipped with all of the modern tools of biochemistry. Among these are analytical and preparative ultracentrifuges, filter paper and zone electrophoresis apparatus, chromatography cabinets, Warburg apparatus, spectrophotometers, special balances as well as the standard chemical supplies.

**Microbiology.**—Occupying the first floor of the North Laboratory Building, this department uses the same student laboratory as Pathology. There are excellent facilities for support of the teaching exercises and for support of an active research program being carried out. The diagnostic work for the University Hospital provides material useful in the class exercises. An extensive collection of color lantern slides, mounted specimens and charts is available for the teaching exercises.

**Pathology.**—The office and classroom area is principally on the second floor of the North Laboratory Building. The student laboratory is utilized also by Microbiology. Equipment, loan sets of slides, and apparatus, with the exception of microscopes are provided for the student. Approximately 7,000 color lantern slides are used for the teaching exercises. The Pathologic Anatomy and Clinical Pathology laboratories of the University Hospital provide material and support the teaching program.

**Pharmacology and Physiology.**—Experimental pharmacology and physiology 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.

The main laboratories accommodate 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.

**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.

**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.

**FELLOWSHIPS, GRADUATE ASSISTANTSHIPS AND SCHOLARSHIPS**

Fellowships are available to students who qualify for graduate study and research in the medical sciences. Application should be made to the chairman of the 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.
Jetur Rigg's 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 Rigg's Conkling and Jennie Hanscom Conkling Foundation," the income of which is 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. These scholarships are awarded on the basis of recommendation by the student assistance committee.

August Frederick Jonas Senior Memorial Fund.—This fund was established by Mrs. A. F. Jonas of Omaha to provide assistance for needy students who are judged worthy both for scholastic attainment and for character and promise. This fund is administered under the direction of the Student Assistance Committee.

The Anna Glock Fellowship in Cancer.—The will of the late Anna Glock provided money for research and treatment of cancer during a five-year period. A fellowship is awarded annually to the person who has had sufficient training and qualifications to pursue these studies. Applications should be addressed to the Dean.

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 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.

LOANS

The University of Nebraska College of Medicine has available loans for deserving students who, in an emergency, need financial assistance while attending medical school. Application for any of the following loan funds should be made at the Dean's Office, College of Medicine.

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.

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.

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.
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.

Lizzie Oltmans and Frederick Oltmans Student Loan Fund.—In March, 1950, the donors named above paid $1,000 to the University of Nebraska Foundation to be used as a loan fund for undergraduate and graduate students enrolled in the College of Medicine. Applications for these loans are acted upon by the Student Assistance Committee.

Robert H. Storz Student Loan Fund.—This fund was established by Storz Brewing Company in 1952 as an annual sum of $1,500.00 paid to the University of Nebraska. This fund was established to provide loans to students in the College of Medicine who are in need of assistance. Applications should be made through the Student Assistance Committee.

Dr. Carl P. Wagner Memorial Medical Student Loan Fund.—The sum of $500.00 was paid to the University of Nebraska Foundation in 1952. This fund was established to provide loans to students in the College of Medicine adjudged to be worthy and in need of assistance. Applications should be made through the Student Assistance Committee.

Awards

University of Nebraska College of Medicine Alumni Association Award.—An award of $50.00 is given each year to the senior student presenting the best thesis as judged by the Thesis Committee.

STUDENT AND ALUMNI ORGANIZATIONS

Student Activities Council.—The Student Activities Council governs the organization and regulation of student activities of the College of Medicine and School of Nursing. It serves as an agency through which faculty relationships with student activity may be fostered and maintained. Recognized student groups elect members who serve as representatives in the Student Activities Council.

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 Thesis 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 nine or more quarters 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.

Student American Medical Association.—Founded in 1950 with the aid of a grant from the AMA, the Student American Medical Association swiftly grew to its present membership of over twenty thousand students, representing sixty-nine medical schools. Serving expressly "to advance the profession of medicine, to contribute to the welfare and
education of medical students, to familiarize its members with the purposes and ideals of organized medicine, and to prepare its members to meet the social, moral, and ethical obligations of the medical profession, SAMA offers group insurance plans, an internship evaluation program, and a monthly Journal. Plans for the immediate future include low-interest student loans, new scholarships, and a job placement service.

At Nebraska, among other functions SAMA jointly sponsors “Premed Day” and a series of convocations held regularly throughout the school year. Membership closely approaches one hundred per cent of the student body. Officers for 1955-56 are: William Nye, President; Allan Landers, Vice President; Nathan Adkins, Secretary; Kiyoshi Hachiya, Treasurer.

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 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.

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 202 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 chairman of the county board.

The ground floor contains an admitting department, diet kitchen, patient's library, drug room, kitchen, dining rooms, pathological laboratories, necropsy amphitheater, the X-ray department, and the stack room of the library. The first or main floor contains the college and hospital administration offices, registrar's office, medical records office, medical amphitheater, reading room of the library, office of the medical department, three medical wards, and electro-cardiograph room. The second floor provides four surgical wards similar to those on medicine, faculty conference room, the offices of the School of Nursing, surgery department office, and the photography department. The third floor contains wards for obstetrics, a nursery, a children's ward, offices of Departments of Pediatrics and Obstetrics and Gynecology, 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; genitourinary diseases; gynecology; internal medicine; neurology; obstetrics; orthopedic surgery; pediatrics; surgery; and urology. These activities furnish a wide diversity of diseases and are organized for the teaching of the senior students.

Extramural Hospitals.—Bishop Clarkson Memorial, Childrens’ Memorial, Lutheran, Immanuel Deaconess, Nebraska Methodist, Hattie B. Munroe Convalescent Home and Douglas County hospitals in Omaha and Bryan Memorial and Lincoln General Hospitals in Lincoln are available for regular or special clinics as needed. Clinics in psychiatry are provided at the Nebraska Psychiatric Institute. 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. Twelve internships and thirty-four residencies in the major specialties are available at the University Hospital.

Medical Social Service Department.—The Medical Social Service Department provides a service to the patient and to the doctor. It interprets the medical findings and recommendations to the patient and his family and gives to the doctor information regarding the economic, social and cultural problems of the patient. This information gives the doctor a better understanding of the patient and enables him to evaluate better the patient’s ability to carry out his orders.

SCHOOL OF NURSING

The College of Medicine maintains a School of Nursing affording three years’ instruction with unexcelled facilities. The immediate administration of the School of Nursing is provided through the Director and the faculty. Instruction in the various subjects outlined in the nursing curriculum is given by members of the faculty of the School of Nursing and the College of Medicine. Students are admitted to the School of Nursing as candidates for the diploma of Graduate Nurse and as candidates for the degree of Bachelor of Science in Nursing. Conkling Hall, the residence of the School of Nursing, is located on the medical college campus. Requests for bulletins and application blanks should be made to the Director, School of Nursing.

LIBRARY FACILITIES

The College Library is located in the Hospital Building within easy access from the various laboratories and stands as a vital common interest to the laboratory and clinical branches of medical instruction. The reading room, seating ninety, furnishes a congenial place for students, faculty, and staff to work. Most of the 750 current journals received are shelved in this room. The book stacks are directly below on two levels and contain 66,000 bound volumes and 30,000 pamphlets, theses, and unbound journals. This collection is the result of purchases and acquisitions extending over more than half a century, building up complete files of important journals in the fields of clinical medicine and the medical sciences in English and foreign languages as well. Here, the student has access to one of the most complete medical libraries in the Midwest, which offers abundant opportunities for research and additional reading and study. First year students are given instruction in the use of the library
including an introduction to all the important medical reference tools and indexes.

Incident to its ordinary function, the Library maintains a collection of material on the history of medicine in Nebraska, graduates of the College, activities of its staff, and keeps a complete file of reprints of the writings of staff members. Incorporated within the library of the College of Medicine are 2,000 volumes of the Omaha-Douglas County Medical Society, periodicals and transactions of the Nebraska State Medical Association and several outstanding private medical libraries of former practitioners of the state.

The resources of the University of Nebraska Libraries in Lincoln are available to students and faculty in Omaha, putting an additional 650,000 volumes at their disposal. Through close cooperation with other medical libraries it is possible for the Librarian to secure interlibrary loan material available in other libraries, including the John Crerar Library in Chicago and the Army Medical Library in Washington.

### SUMMARY OF DEPARTMENTAL HOURS

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### SUMMARY OF DEPARTMENTAL HOURS

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<th>Department</th>
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**Freshman Year** | 1068 **Sophomore Year** | 1206 **Junior Year** | 1320 **Senior Year** | 1129

- Clock Hours
- Total Clock Hours
Courses of Instruction

In the following departments, courses numbered 310-319 are given in the first medical year; courses numbered 320-329, in the second medical year; courses numbered 330-339, in the third medical year; courses numbered 340-349, in the fourth medical year. Courses numbered 350 carry graduate credit. Roman I indicates courses offered the fall quarter, II, the winter quarter, III, the spring quarter, and SS, the summer.

Anatomy

Professors Latta, Chairman, Holyoke; Associate Professors Benjamin, Elliott; Assistant Professors R. Best, Chapman, Gardner, Pederson; Instructors Bach, Cochrane, Reynolds; Assistants Burney, Coe, Friel, Rasmussen, Wilson.

In this department instruction is given in gross anatomy, embryology, histology, organology, and neurology. The work of the department extends through the first two quarters of 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. A comprehensive examination covering all phases of anatomy is given at the end of the second quarter.

Anatomy.—

310. Gross Anatomy (Total 312 hrs I, II)
The course covers 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. (240 hrs or 10 qtr hr credit for graduate work.)

311. Embryology-Histology (Total 212 hrs I, II)
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. (200 hrs or 9 qtr hrs credit for graduate work.)

312. Neuro-Anatomy (Total 100 hrs II)
Lecture and laboratory
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 lab study into functional systems applicable to later physiological and clinical studies. (80 hrs or 7 qtr hrs credit for graduate work.)

350. General and Special Methods in Histological Technique (3-8 qtr hrs) Mr. Latta, Mr. Elliott, Dr. Holyoke
Prereq Annt 310-314
Principles and practice in general methods of preparation of tissue for histological study; special training given in the field of the student's particular interest.

351. Special Neurohistological and Experimental Neurological Techniques (3-8 qtr hrs)
Mr. Elliott, Mr. Latta, Mr. Gardner
Prereq Annt 359
Advanced special technical methods of demonstrating the histological structure of nervous tissue and of the experimental approaches to neurological problems.

352. Techniques of Histochemistry (3-8 qtr hrs) Mr. Latta, Mr. Jacobi
Prereq Annt 350
Development of methods for demonstrating various chemical features in tissues of the body.

353. Morphological and Experimental Hematology (4-9 qtr hrs) Mr. Latta (was Annt. 352)
Prereq Annt 350
Detailed study of the morphology and inter-relationships 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.
354. Comparative Human Embryology (4-9 qtr hrs) Mr. Latta, Mr. Benjamin, Dr. Pederson
   Prereq Anat 350 (was Anat 353A)
   Special advanced studies of various features of reproduction and development as illustrated in the departmental and embryological collection.

355. Experimental Embryology (4-9 qtr hrs) Dr. Holyoke, Mr. Latta (was Anatomy 353B)
   Prereq Anat 350
   Advanced study and training in the methods employed in analysis of the factors and potentials operative in mammalian development processes.

356. Advanced Human and Comparative Neuroanatomy and Neurohistology (4-9 qtr hrs) Mr. Elliott, Mr. Benjamin
   Prereq Anat 350
   Advanced detailed study of the structural organization of the central and peripheral nervous system of a man and/or various laboratory animals.

357. Morphological Endocrinology (4-9 qtr hrs) Dr. Pederson, Mr. Latta, Dr. Holyoke
   Prereq Anat 350
   Advanced study of histological features of the various endocrine glands and morphological effects of endocrine substances on various target organs.

358. Biology of Radiation (4-9 qtr hrs) Mr. Latta, Dr. Pederson, Mr. Chapman
   Prereq Anat 350
   Morphological alterations induced in the living organism by radioactive substances.

359. Thesis Research (cr arranged) Staff
   Independent investigation of some problem chosen by consultation between student and the staff.

360. Seminar (1 cr per qtr) Staff
   By permission
   Presentation of problems and accomplishments of investigations conducted by the graduate students and members of the department with critical discussion.

Biochemistry

Associate Professors Jacoby, Chairman, Beber, Wilder; Assistant Professors Barak, A. L. Dunn, Assistant Research Professor H. L. Davis; Instructor Carver.

The instruction in biochemistry aims to acquaint students with the basic facts of this science in its strictly physiological background and to elucidate medical problems. Stress is laid on training in laboratory techniques, but the practical exercises are planned to give students ample opportunity to learn the theory and practice of various biochemical methods.

The instruction offered in the elementary course is further supplemented with more advanced and specialized courses designed to meet the needs of those who have already acquired considerable clinical knowledge as well as of those desiring to extend their study and research in the application of the principles and methods of biochemistry to problems of scientific and clinical medicine.

The courses offered in this department presuppose adequate preparation in inorganic and organic chemistry and are designed: (1) to furnish training in the fundamentals of physiological chemistry of a scope commensurate with the requirements of the regular medical curriculum; (2) to afford students, not candidates for the M.D. degree, the means for obtaining necessary credits for the Degree of M.S. or Ph.D.; (3) to extend the facilities of the laboratory for special work in selected topics independently of the requirements for a degree. All students who are candidates for a degree are expected to attend Course 310, unless the content of this course has been covered in an acceptable manner elsewhere.

310. Medical Biochemistry (Total 264 hrs II, III) (264 hrs or 14 qtr hrs credit for graduate work except for those completing a graduate major in biochemistry.)
   The descriptive and dynamic aspects of biochemistry with special reference to the human are presented. Physico-chemical principles are reviewed and applied to understanding normal and pathological physiology. Lipids, carbohydrates, and proteins are discussed from the standpoints of descriptive chemistry, digestion, absorption, intermediary metabolism, and of their relationships in metabolism and nutrition. Principles of biochemistry as they relate to clinical medicine are considered in discussions of blood and other body fluids and tissues; urine; water, electrolyte, and acid-base balance; mineral metabolism; enzymes; vitamins; and of hormones. The laboratory work is illustrative of the problems and methods discussed, and the experiments performed by the students constitute an important and integral part of the course in medical biochemistry.
330. **Clinical Biochemistry** (12 hrs III) Dr. Beber

Although this course deals with clinical problems, it is presented against a background of basic biochemistry. The content varies, depending on topics of current interest as well as on student needs. Such subjects as acid-base balance, water and electrolyte metabolism, protein metabolism, and antibiotics have been covered. The biochemical aspects of these topics are emphasized in extensive correlation with clinical material. In this way the biochemistry of clinical medicine is brought into sharp focus.

**Biological Chemistry, Electives.**

350. **Biochemistry of Disease** (3-9 qtr hrs) Mr. Jacobi, Dr. Beber.

*Prereq* Biochem 310

This course consists of the systematic presentation of the biochemical aspects of various diseases. Biochemical principles and facts are studied and utilized in a detailed manner in connection with the pathogenesis, course and treatment of disease.

351. **Vitamins and Nutrition** (3-9 qtr hrs) Miss Wilder

*Prereq* Biochem 310

Each of the vitamins is considered from the standpoints of history, chemistry, determination, physiological function, and requirements. Nutritional aspects of proteins, carbohydrates, lipids, and essential mineral elements are reviewed and integrated with the study of vitamins.

352. **Enzymes** (3-9 qtr hrs) Mr. Barak

*Prereq* Biochem 310

This course deals with the chemical nature of enzymes, the methods for their isolation, the kinetics of enzyme reactions, and the physiological function of enzymes. The clinical significance of certain of the enzymes is considered.

353. **Hormones** (3-9 qtr hrs) Miss Wilder

*Prereq* Biochem 310

Hormones are discussed from the standpoints of chemical nature, isolation, determination, and function. The hormonal control of metabolism and the relationship of hormones to enzymes and vitamins are emphasized.

354. **Intermediary Metabolism** (3-9 qtr hrs) Mr. Jacobi

*Prereq* Biochem 310

The chemical reactions involved in the anabolism, catabolism, transformations, and interconversions of proteins, lipids, and carbohydrates are presented in detail.

355. **Water, Electrolyte, and Acid-Base Balance** (3-9 qtr hrs) Mr. Jacobi, Dr. Beber

*Prereq* Biochem 310

This course is an advanced study of the chemical structure and volume of the various body fluids and the mechanisms whereby they are formed and maintained within normal limits. Deviations in various pathological conditions are interpreted in terms of normal mechanisms.

356. **Advanced Biochemical Techniques** (3-9 qtr hrs) Staff

*Prereq* Biochem 310

Instruction in advanced biochemical techniques including paper and solution electrophoresis, spectrophotometry, Warburg manometry, paper chromatography, ultracentrifugation and special chemical determinations.

357. **Histochemistry** (3-9 qtr hrs) Mr. Carver, Mr. Latta

*Prereq* Biochem 310

The histochemistry of proteins, lipids, carbohydrates, enzymes, and other biologically important compounds will be reviewed with emphasis on the chemistry of the staining techniques. The application of histochemistry to physiological and pathological problems will be described.

358. **Radioactive Tracers in Biochemistry** (3-9 qtr hrs) Mr. Dunn

*Prereq* Biochem 310

The employment of radioisotopes as a research tool in biochemistry will be presented. The theoretical and practical aspects of isotope methodology and the application of this technique to the solution of biochemical problems will be emphasized.

359. **Proteins** (3-9 qtr hrs) Mr. Barak, Mr. Carver

*Prereq* Biochem 310

This course consists of a survey of the chemistry and biology of proteins and the products of their hydrolysis. Descriptive chemistry, methods of isolation, techniques for characterization, and biological significance of proteins and amino acids will be considered.

360. **Seminar** (cr arr) Staff

361. **Research** (cr arr) Staff
INTERNAL MEDICINE

Dermatology and Syphilology

Professor Cameron, Chairman; Associate Professor Wilson; Assistant Professor Pinne.

A foundation in dermatology and syphilology is laid by lectures, clinics, 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.

Dermatology.—

330. Fundamentals (1 hr weekly, total 12 hrs II) Dr. Pinne (not offered 1955-56)
General classification of skin diseases, with lectures and quizzes on anatomy, histology, physiology, pathology, general symptomatology, etiology, diagnosis and treatment.

331. Diagnostic Clinic (1 hr weekly, total 12 hrs III) Dr. Cameron (not offered 1955-56)
A more advanced course in dermatology consisting largely of patient and colored slide demonstrations with particular reference to differential diagnosis and treatment.

341. Dispensary (3 hrs weekly, total 12 hrs SS, I, II, III)
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.

Internal Medicine

Professors Moody, Chairman, F. L. Dunn, Grisom, Simmons; Associate Professors Kirk, Lehnhoff, McCarthy, Moser, C. Thompson; Assistant Professors Andersen, Beber, G. Best, Brazer, Greene, Hankins, Long, Margolin, Nutzman, Pepper, Walsh; Associates Angle, Bucholz, Graham, Hull, Joranson, Langdon, Lewis, Loomis, Morris, Pratt, Root, Wright, Wyrens; Instructors Albertson, Bresnahan, Dickerson, Fleishman, Freed, Harvey, Henn, Holthaus, Jackson, Lemire, McGee, MacHaffie, MacQuiddy, Jr., Meiberger, Muskin, Nickum, Roock, Rosenlof, Slabaugh; Clinical Assistants Fuenning, Millet, Walvoord.

Internal Medicine.—

320. History Taking and Physical Diagnosis (3 hrs weekly, total 108 hrs I, II, III)
Instruction in the art of history taking including the various methods of eliciting significant physical complaints and emotional reactions of the patient; explanation and demonstration of the complete physical examination with emphasis on inspection, palpation, percussion and auscultation. Special methods of examination are taught by members of other specialty departments. Course taught at the University and Veterans Administration Hospital using patients to demonstrate normal and abnormal physical findings.

330. Principles of the Practice of Internal Medicine (Total 306 hrs, I, II, III)
The lectures in internal medicine are designed to acquaint the students with fundamental problems encountered in medical practice. Students are assigned in groups of eight to the University Hospital and to the Veterans Hospital for a period of 12 weeks. Students are required to take complete histories, make physical examinations and perform designated laboratory tests on three selected patients weekly.

340. Medical Grand Rounds (1 hr weekly, 18 hrs SS, I, II, III)
A formal case discussion is presented in the medical amphitheater and is attended by those on Dispensary and University Hospital Clinical Clerkship. A similar Medical Grand Rounds is held at the Veterans Administration Hospital each week. A combined Medical-Surgical Conference is held on the first Tuesday of the month during the academic year in the University Hospital.

341. Clinical Clerkship (Total 145 hrs, SS, I, II, III)
As a part of the senior rotating clerkship, each student will have 6 weeks of experience studying hospitalized patients in one or more of the cooperating hospitals: University of Nebraska, Bishop Clarkson Memorial, Nebraska Methodist, Immanuel, Omaha Veterans Administration, Bryan Memorial or Lincoln General Hospital.

342. Dispensary (18 hrs weekly, total 95 hrs SS, I, II, III)
Students are given responsibility in diagnosis and treatment of ambulant patients.
Seminar in Therapeutics is held weekly throughout the academic year and is attended by those assigned to Clinics. This is an interdepartmental seminar with the Department of Physiology and Pharmacology.

Internal Medicine Electives.—

350. The Physiology of Symptoms (4 cr) Dr. Grissom
An advanced course in applied physiology with special reference to the fundamental basis for symptoms and physical findings encountered in clinical medicine.

351. 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 (3 cr) Dr. Grissom
   b. Advanced Endocrinology (3 cr) Dr. Dunn
   c. Metabolism and Nutrition (3 cr) Dr. Lehnhoff

352. Advanced Gastroenterology and Biliary Diseases (3 cr) Dr. McCarthy
An advanced clinical course in digestive disorders.

353. Advanced Studies of the Cardiovascular-renal System
   a. Cardiologic Diagnosis and Electrocardiography (4 cr) Dr. Grissom
      An advanced study of physical radiologic and electrocardiographic findings in heart disease.
   b. The Management of Heart Disease (3 cr) Dr. Grissom
      Including the treatment of various cardiac emergencies and the employment of digitalis, its derivatives and allied preparations.
   c. Hypertension, Nephritis and Peripheral Vascular Diseases (3 cr) Dr. Lehnhoff
      An inclusive study of disease of the vascular system, excluding diseases of the heart, but including those concerned with blood coagulation and the clinical employment of anti-coagulant therapy.

354. Infectious Diseases, Rheumatism, Chemotherapy, and Antibiotics (3 cr) Dr. Simmons
An advanced study of diseases of microbial origin as to etiology, resultant structure changes and treatment thereof.

355. Seminar in Advanced Allergy and Hematology
   a. Allergy (1 cr) Dr. Grissom
      An advanced review of sensitization and the diseases arising therefrom.
   b. Hematology (1 cr) Dr. Pratt
      Clinical and lab observations in various anemic states with special reference to advances in therapeutic measures.

356. Research (cr arr)

Medical Jurisprudence
Associate Professor Spier; Assistant Professor Ellick

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.

340. Medical Jurisprudence (2 hrs weekly, total 18 hrs III)
Medical legislation, medical evidence and witnesses, privileged communications, general medico-legal relations, physicians' contracts and compensation, income taxes, malpractice, and liability of hospitals and nurses are some of the subjects discussed.

Medical Bibliography
Librarian Hetzner; Assistant Librarians Farris, Harvin, Meckel

Lectures and conferences are held to acquaint the student with resources in medical literature and bibliographic methods in medical research.

First year students are given instruction regarding the use of reference and indexing tools and receive practical experience in the application of literature-searching techniques. Advanced students may receive instruction and arrange conferences on the bibliography of science and the problems involved in thesis writing.
Medical Microbiology

Professor Gunderson; Associate Professor McFadden, Chairman; Assistant Professor N. Miller.

It is the aim of this department to develop with the student the character and host relationships of disease-causing microorganisms. It is also our aim to consider the effect upon the human host of microbial agents and to suggest the manner in which a bacteriological diagnosis may be made. This is done by lectures which emphasize host-parasite relationships. Immunity and associated phenomenon are discussed and laboratory exercises demonstrate the essential features of disease and resistance.

Medical Microbiology.—

320. Medical Bacteriology and Clinical Parasitology (Total 252 hrs. I, II)
Lect and lab 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.

Medical Microbiology, Electives.—

350. Physiology of Bacteria (8 cr) Mr. Gunderson
Prereq Medical Microbiology 320

351. Public Health Bacteriology
The facilities of the diagnostic lab with its turnover of at least 5,000 diagnostic tests per annum are available for this course.
   a. Study of Diagnostic Technics (8 cr) Dr. McFadden, Mr. Gunderson
      Prereq Medical Microbiology 350
      Hospital lab diagnosis.
   b. Immunology (4 cr) Dr. McFadden, Mr. Gunderson
      Prereq Medical Microbiology 350
      Laws of hemolysis, antigen-antibody relationships, blood grouping, anaphylaxis.

352. Molds, Yeast, and Actinomycetes (4 cr) Mr. Gunderson, Mr. Miller
Prereq Medical Microbiology 350
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.

353. Filterable Viruses (4 cr) Mr. Gunderson, Dr. McFadden, Mr. Miller
Prereq Medical Microbiology 350
Character, nature and transmission of viruses. Important human virus diseases.

354. Applied Bacteriology (4 cr) Mr. Gunderson
Prereq Medical Microbiology 350
Bacteriology of sanitation. Food bacteriology.

355. Medical Parasitology and Tropical Diseases (4 cr) Mr. Gunderson, Dr. McFadden, Mr. Miller
   a. Diseases Due to Animal Parasites
      Prereq Medical Microbiology 350
      Life cycles. Vectors.
   b. Diseases of Animals Transmissable to Man
      Prereq Medical Microbiology 350
      Plague, Tularemia, Undulant Fever, Typhus, Spotted Fever, etc.

361. Seminar (1 cr) Staff
By permission.

362. Research (cr arr) Staff

Neurology and Psychiatry

Professors Wittson, Chairman, Wigton, J. A. Smith; Associate Professors Aita, Dickinson, Ellington; Assistant Professors Brill, Fitzgerald, Humphreys, Jones, Klopfer, Martin, J. Rose, Strough; Associates Bellis, Brousseau, Ingham, Majka, Ring, Sandritter, Yager, Young; Instructors Arnhoff, Goldner, Hermann, R. D. Jones, Stevens, Taulbee, J. Wilson.
Training is conducted under two divisions, neurology and psychiatry. Courses are planned to give the student, beginning in his freshman year, correlated, progressive training in the anatomical, physiological and psychological fundamentals of psychiatry and neurology.

Lectures and demonstrations in the freshman year emphasize the significance of personality development in relation to normal and abnormal functioning. The sophomore program consists of lectures and case demonstration in basic psychiatry, especially descriptive and dynamic psychopathology, and in the techniques of examination.

In the junior and senior years stress is placed on supervised experience with psychiatric and neurological patients, both on inpatient and outpatient bases. Formal lectures are kept to a minimum, except for the clinical neurology lectures in the junior year. The aim is for correlation with all other medical teaching.

**Neurology and Psychiatry,—**

**310. Normal Personality Development** (1 hr weekly, total 24 hrs II, III)
Lectures with emphasis on stimulating student participation. The course describes the chronological development of the individual from the standpoint of the process of his personality formation. This material will be related to physical development and to medicine in general.

**320. Basic Psychiatry** (1 hr weekly, total 36 hrs I, II, III)
Lectures and demonstrations using available clinical material at the Psychiatric Institute. This course describes the mental illnesses from the clinical standpoint. It is to be related to the first year course. It will include the historical background of psychiatry, methods of interviewing and history-taking, and general mental examination. The course is oriented toward preparing the student for his junior year clerkship in psychiatry and for understanding mental illness from the standpoint of a general practitioner.

**330. Psychosomatic Medicine** (1 hr weekly, total 12 hrs I)
Lecture, clinical demonstrations if appropriate cases available, recorded case presentations. This course will stress the interaction of emotional and physiological processes. It will integrate the two preceding courses in psychiatry. It will stress the totality of the human organism—mind and body.

**331. Neurology** (1 hr weekly, total 24 hrs, I, III)
Lectures primarily, and demonstrations. This course will present the basis of clinical neurology. The neurological illnesses will be discussed from the descriptive viewpoint and related to the anatomical, pathological and physiological factors involved. The material will be correlated with medicine generally and particularly with psychiatry. Diagnosis and treatment will be stressed.

**335. Clinical Clerk** (23 hrs weekly, total 92 hrs I, II, III)
Each group of the junior class will spend one period of four weeks at the Psychiatric Institute. Each student will have assigned to him one or more of the inpatients. He will do a complete work-up on the patient, including history and physical and mental examination. Further, he will continue to see the patient in interviews during the whole of his clerkship. His work will be supervised in detail. Seminars and lectures will be included as well as demonstrations of interviewing technique, treatment, etc. In addition, lectures and demonstrations of psychosomatic disorders are presented. The stress throughout is on integration of the emotional and physical functions of the total person.

**340. Neuropsychiatric Demonstrations** (1 hr weekly, total 18 hrs SS, I, II, III)
Material for this course will be selected cases on which neurological or psychiatric consultations have been requested by the other hospital services. The case will be briefly presented to the class for consultation by the intern or resident who has requested consultation. He will describe the case and give his reasons for request. The patient will be interviewed briefly by the staff neuropsychiatrist who will then lead the class discussion. The area considered will be the emotional and physiological interactions, diagnosis, treatment, prognosis, and preparation of patient for psychiatric consultation or treatment. It is expected that the student will learn what happens to cases which he as a general practitioner might refer for psychiatric consultation, what limits there are to psychiatric treatment and what possibilities for various Neuropsychiatric treatments are available.

**342. Dispensary** (4½ hrs weekly, total 46 hrs SS, I, II, III)
Practical experience in diagnosis and treatment of outpatients in the psychiatric, neurologic and epileptic dispensaries. The student will gain experience under supervision in working with a variety of patients. He will learn how
to handle the minor problems himself as a general practitioner. He will also learn which cases should be referred for more specialized handling. He will learn how to use the service of psychologist and social worker.

Obstetrics and Gynecology

Professors McGoogan, Chairman, Holly, Moon, Sage; Associate Professors H. Anderson, Findley; Assistant Professors Collins, Cotton, Redgwick, Rumbolz; Associates Koverik, Olson, Vroman; Instructors Hirst, H. S, Morgan, Taylor; Clinical Instructor George; Clinical Assistant Boelter.

The instruction in obstetrics and gynecology consists largely of practical demonstrations in the University Hospital and the dispensary. In these clinics the student is trained in clinical diagnosis and treatment. The University Hospital affords abundant opportunity for the assignment of obstetric cases to members of the third-year medical class under direction. The prenatal clinic at the dispensary provides an excellent opportunity for both third- and fourth-year students to learn the proper care of the expectant mother. After a didactic review of the principles of obstetrics, the junior student is assigned to serve as assistant to the intern or house officer in the care of a patient during labor. During the fourth year the medical students are assigned to dispensary prenatal clinic and the gynecology clinic.

Obstetrics and Gynecology.

320. Introduction to Obstetrics and Gynecology (1 hr weekly, total 16 hrs I, II)
Anatomy and physiology of the female genital organs in their relation to normal pregnancy, labor and the puerperium and to gynecology. Physical diagnosis in obstetrics and gynecology.

330. Obstetrics and Gynecology (1 hr weekly, total 12 hrs II)
Abnormalities and complications of pregnancy, labor, puerperium and the newborn child. Theory, diagnosis and management of gynecologic disease.

335. Clinical Clerk (Total 84 hrs I, II, III)
Third-year students are assigned to a hospital obstetric and gynecologic service, where they are assigned patients. They follow the progress of patients in labor, assist at deliveries, follow the workup and management of gynecology patients, assist at operative procedures and maintain a complete record until the patient is discharged from the hospital. They attend weekly obstetric and gynecologic conferences, ward rounds and gynecological pathology conferences.

340. Hospital Clinic (1 hr weekly, total 18 hrs SS, I, II, III)
This course covers pathological conditions arising from or related to pregnancy and to gynecologic problems.

341. Senior Hospital Clerkship (Total 63 hrs, SS, I, II III)
Fourth-year students are assigned to a hospital obstetrics and gynecologic service for more advanced and practical experience. Each student attends a program of weekly seminars, ward rounds and chart conferences. The student participates in deliveries and assists at gynecologic operations.

342. Dispensary (18 hrs weekly, total 72 hrs SS, I, II, III)
Fourth-year students are assigned to the dispensary prenatal clinic and the gynecology clinic, where they assist in prenatal care and gynecologic examination and treatment.

Obstetrics and Gynecology, Electives.—

350. Advanced Obstetrics and Gynecology (6 cr) Staff
Seminars, conferences, lectures and demonstrations designed to familiarize the student with the applications of basic science to the field of obstetrics and gynecology. The student will be required to evaluate the clinical condition of the patient, write records of his findings and recommendations, and outline a program of treatment to be carried out under supervision.

351. Gynecological Pathology (3 cr) Staff
An advanced course in gross and microscopic pathology in the field of obstetrics and gynecology, including the physiological variations encountered in the reproductive cycle. A written discussion of all clinical, surgical, and autopsy specimens in the field of obstetrics and gynecology is required.

352. Anatomy (4 cr) Dr. Latta, Dr. Holyoke, Staff
Special dissection and study to cover the basic science aspects of anatomy and embryology as applied to obstetrics and gynecology. This work will be special dissections, readings, and histologic study of the generative tract.

353. Gynecological Radiology (1-5 cr) Dr. Hunt, Staff
Readings, demonstrations, clinics and seminars designed to show the application of radiographic and radio-therapeutic principles and procedures to obstetrics and
Conducted in conjunction with the department of radiology, this course gives experience in radiographic techniques, the interpretation of films, and the use of X-ray and radium. Independent reports will be required.

354. Advanced Course in Gynecological Surgery (4 cr) Staff
Personal conferences, discussions, and demonstration of the principles and technique of gynecological surgery. The nature of the material covered will depend upon the student’s aptitude and experience.

355. Special Problems and Thesis (cr arr) Staff
The student will select or be assigned special research problems in the basic science fields as applied to obstetrics and gynecology, including lab studies, literature analysis, and clinical evaluation of problems.

Ophthalmology

Professor Judd, Chairman; Associate Professors Gifford, Morrison; Assistant Professors Alliband, Rasgorshek, Steinburg; Associates Eagle, Filkins, Truhlsen; Instructor Vickery.

Ophthalmology—

320. Medical Ophthalmology (1 hr weekly, total 12 hrs III)
The didactic course consists of demonstrations and lectures on diseases of the eye, including ocular changes in general diseases. The lectures are illustrated by cases, diagrams, charts and slides. The course is supplemented by textbook work and quizzes.

335. Clinical Clerk (Total 12 hrs, I, II, III)
Selected cases of eye pathology are shown to small groups of students illustrating the major types of disease that are encountered in medical practice.

340. Dispensary (12 hrs weekly, total 48 hrs SS, I, II, III)
Students are regularly assigned to the dispensary clinic for practical experience in the diagnosis and treatment of eye conditions. This course includes a drill in the principal uses of the ophthalmoscope and other instruments employed in the diagnosis of diseases of the eye.

Orthopedic Surgery

Professors Hamsa, Chairman, H. Johnson; Associate Professors Campbell, Teal, Waters; Assistant Professor Bach; Associates Burney, R. Smith, Hood.

Orthopedic Surgery—

330. Fractures, Dislocations and Sprains (1 hr weekly, total 12 hrs I)
Lectures and clinics on anatomy, pathology and treatment of fractures, dislocations and sprains.

331. Diseases of Bones and Joints (1 hr weekly, total 18 hrs II)
Lecture clinics on disease of bones and joints, synovial membranes and bursae. Congenital, acquired, and disease-producing deformities. Prevention of deformities and dystrophies with principles of treatment. Illustrated by photographs, slides, etc.

340. Dispensary (3-5 hrs weekly, total 18 hrs SS, I, II, III)
Two 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 orthopedic cases.

341. Fractures, Dislocations and Sprains (1 hr weekly, total 18 hrs SS, I, II, III)
Lectures, quizzes, and demonstration course on fractures, dislocations and sprains. X-ray diagnosis with application of splints and casts.

Orthopedic Surgery, Electives—

350. Research (1-7 cr) Staff
Work for specially qualified students in special fields of investigation.

351. Seminar (1-6 cr) Staff
Literature reviews and reports of progress of research in special fields of investigation.

Otorhinolaryngology

Professors J. C. Davis, Chairman, Cassidy; Associate Professor Klabenes; Assistant Professors Carp, Heine, Lovgren; Associate Placek; Instructors J. A. Davis, Gillies.

Otorhinolaryngology—

One lecture is given on the anatomy of the ear and temporal bone and demonstration of the tympanic membrane in the freshman year in Anatomy.
Two lectures on the examination of the ear, nose, pharynx and larynx; and two 2-hour demonstrations on the use of instruments commonly used in ORL examinations is given in conjunction with the sophomore course in Physical Diagnosis.

### 330. Disease of Ear, Nose, Throat and Larynx
(1 hr weekly, total 12 hrs I)
Lectures covering the anatomy, physiology, common diseases, abnormalities, tumors, diagnosis and treatment in the ORL field.

**Ward Clinics** (Groups of ten students, 3 hrs weekly, total 12 hrs)
Four periods of two hours each are given each group of students which includes ward rounds whenever feasible and definitive instruction in carrying out complete ORL examinations.

### 340. Dispensary
(3 hrs weekly, total 12 hrs SS, I, II, III)
Clinics are held once weekly at the University Dispensary. Senior students are assigned patients for examination, diagnosis and treatment under supervision. Conferences are frequently held during these hours.

### Pathology

Professors Schenken, Chairman, Tollman; Associate Professor McWhorter; Assistant Professors T. R. Anderson, Foster, Giffen, Kulesh, Simons; Clinical Assistant Professor Coleman; Associate F. D. Smith; Instructors Cajigas, Reihart.

*It is the aim of this Department to acquaint the student with the material changes which cause or are caused by disease. There is consideration of the effect of these material changes on the function of the various organs and systems. This relationship of the disturbed function is considered in more specific detail in the clinical pathology conferences. The work in laboratory methods emphasizes these techniques which are so helpful in the evaluation of the patient’s problems.*

### Pathology—

#### 321. General Pathology
(Total 270 hrs II, III)
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.

#### 322. Clinical Pathology
(2 hrs lecture, 3 hrs laboratory weekly, total 120 hrs II, III)
Particular attention is given to application and interpretation of laboratory procedures, and especially the choice of tests useful in making a diagnosis and in following the course of disease processes.

#### 332. Clinico-Pathologic Conference
(1 hr weekly, total 24 hrs II, III)
Selected cases are presented jointly by a Clinical Department and the Department of Pathology for discussion of the differential diagnosis, management, and correlation of the clinical findings with the pathology. One conference of each four is devoted to Oncology Clinic which is conducted by Staff interested in Oncology problems and directed through the Department of Radiology.

#### 333. Clinicopathologic Conference
(1 hr weekly, total 36 hrs I, II, III)
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.

#### 340. Clinicopathologic Conference
(Total 18 hrs I, II, III)
Continuation of course 332.

#### 341. Clinical Pathology Conference
(Total 18 hrs I, II, III)
Continuation of course 333.

### Pathology, Electives—

#### 356. Autopsy Pathology
(8 cr) Drs. Schenken, Eggers
Prereq Path 329
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.

#### 357. Pathology of Tumors

- **a. An Intensive Course in Oncology, With Special Attention to the Morphology, Derivation, and Course, of Various Tumors**
  (4 cr) Dr. Eggers, Staff
Prereq Path 357a

- **b. Studies of Bone Tumors**
Prereq Path 357a

- **c. Studies of Tumors of the Nervous System**
Prereq Path 357a
358. Etiology of Tumors (1 cr) Dr. Eggers

Prereq Path 356

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.

359. Seminar (1 cr) Staff

By permission

360. Research (cr arr) Staff

Pediatrics

Professors Jahr, Chairman, Gedgoud, Robertson; Associate Professors Gibbs, Morrow, Thomas; Assistant Professors E. W. Bantin, Clark, Tompkins, Crofoot; Associates C. F. Bantin, Kolb, D. C. Nilsson, Oberst, D. Smith; Instructors Schreiner, Steinman, Zahller; Clinical Assistant C. R. Angle.

Pediatrics.

320. Growth and Development (1 hr weekly, total 16 hrs II, III)

Lectures on basic principles of total growth. The rate of progress to be expected in weight and length together with the mental and emotional development from birth to adolescence is discussed. Part of the course is devoted to presentation of some of the anomalies and diseases encountered during the newborn period.

330. Diseases of Childhood (1 hr weekly, total 40 hrs I, II, III)

In this course are covered the various diseases of childhood, including the diseases by systems, deviations in growth and development, nutritional diseases, and communicable diseases.

335. Clinical Clerk (22 hrs weekly, total 88 hrs I, II, III)

Students are assigned cases on the pediatric ward of the University and Children's Memorial Hospitals for complete study including history, physical examination, routine and special laboratory tests and other aids for the establishment of diagnosis with a view toward an effective program of therapy. Students are expected to have full knowledge of the cases assigned to them and also to be familiar with patients on the ward assigned to other students. Each student is held responsible for presentation of his cases at any time he may be called upon by the instructor during ward walks. One ward walk a week is devoted to discussion of behavior problems in childhood.

340. Hospital Clinics (1 hr weekly, total 18 hrs SS, I, II, III)

Clinics in all aspects of pediatrics are included in this course, utilizing material on the wards of the University Hospital and Childrens Memorial Hospital as well as other institutions affiliated with the College of Medicine. An effort is made to cover the entire field of pediatrics as seen in the various institutions.

341. Dispensary (17 hrs weekly, total 68 hrs SS, I, II, III)

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.

342. Senior Clerkship (40 hrs weekly, total 120 hrs, SS, I, II, III)

Senior students are assigned to the wards of the University and Children's Memorial Hospitals for a period of 3 weeks under staff direction. They are required to work up cases assigned to them, and to acquire general information regarding diagnosis and therapy on all patients admitted to the hospital to enable them to participate in the discussion of these cases. They are also assigned to the admitting and emergency sections of the hospital under the direction of the Staff. Senior clerks are required to attend ward walks twice daily, and a radiological conference once a day. Attendance at pathology conferences is also a requirement. Senior clerks are encouraged to participate freely in all staff conference discussions and to attend monthly staff meetings.

Pediatrics, Electives.

Junior and senior students interested in special problems in pediatrics are encouraged to engage in research under the direction of the staff. Arrangements for such work should be discussed with the Chairman of the Department.

350. Pediatric Gastroenterology (3 qtr hrs per qtr, total 9 qtr hrs) Dr. Gibbs

Prereq medical school courses as follows: biochemistry, physiology, and histology or their equivalents

The special characteristics of the gastrointestinal physiology of the normal infant and the pathological physiology, clinical manifestations, and treatment of gastrointestinal diseases of special importance in early life will be surveyed. Particular attention will be given to the chronic metabolic diarrheas.
351. Endocrine and Metabolic Diseases in Early Life (3 qtr hrs per qtr, total 9 qtr hrs) Dr. Gibbs

Prereq same as in Course 350

The normal endocrine physiology is reviewed as it pertains to the infant, child, and adolescent. Abnormalities of endocrine and metabolic nature in early life are considered.

352. Pediatric Biochemical Ultra-Micro Analysis (2-3 qtr hrs per qtr, total 9 qtr hrs) Dr. Gibbs

Prereq Biochemistry 310 or completion of course in Medical Technology Instruction and experience in the performance of micro-biochemical procedures particularly useful to a clinical biochemical laboratory serving a children’s ward or children’s hospital.

353. Developmental Behavior Pattern of the Newborn (3 qtr hrs per qtr, total 6 qtr hrs) Dr. Jahr

Prereq M.D. degree or B.Sc. in Nursing or undergraduate major in psychology

A study of activities of the normal infant as related to environmental factors.

354. Electroencephalographic Findings in the Newborn (3 qtr hrs per qtr, total 6 qtr hrs) Dr. Jahr

Prereq M.D. degree or B.Sc. in Nursing or an undergraduate major in psychology

A series of electroencephalographic tracings will be made of newborn infants. These and previously collected records will be studied and discussed and correlated with clinical manifestations.

358. Pediatric Research Seminar (2 qtr hrs per qtr, total 6 qtr hrs) Dr. Gibbs

Selected topics of current research or contemplated research with presentation of appropriate patients.

359. Research in Pediatrics (cr arr) Dr. Gibbs

Prereq Ped 352 completed or in progress

Physiology and Pharmacology

Professors McIntyre, Chairman, Bennett; Associate Professor F. L. Dunn; Associate Research Professor Humoller; Assistant Professor Wetherell; Adjunct Instructor Browne; Instructors Jodrey, Sievers.

The courses in physiology and pharmacology 310–336, inclusively, stress the fundamental principles underlying living processes in health and disease and provide a comprehensive basis for medical practice. Courses 350–358, inclusively, are designed for special instruction for advanced students in physiology and pharmacology.

Physiology and Pharmacology —

310. General Introductory Course (lectures, demonstrations and conferences, total 72 hrs, III)

This course presents the essentials of physiology and pharmacology as a basis for more advanced study. The mechanism by which the body cells maintain the normal milieu intérieur are examined and emphasized and the fundamentals of neurophysiology including the autonomic system and the pharmacology of neural-effector cell transmission are described. The principles of endocrinology and the fundamental physiology of the pituitary glands, gonads, thyroid, parathyroid, islet tissue and adrenals are outlined.

311. Physiology and Pharmacology Laboratory Course (total 84 hrs, I)

The elements of anesthesiology are presented concurrently with practical work in anesthesiology on mammals. This course consists largely of acute mammalian experiments designed to illustrate the fundamentals of cardiovascular, renal and respiratory physiology, and the pharmacology of cardiovascular drugs.
324. Physiology and Pharmacology Lectures and Demonstrations (total 72 hrs, II)
   This course presents a detailed account of endocrinology together with a discussion of the physiology of the G.I. tract and drugs used to correct its disorders, together with a presentation of the pharmacology of specific agents including the antibiotics, chemotherapeutic substances and vitamins.

325. Physiology and Pharmacology Laboratory (total 84 hrs II)
   This course consists of practical work performed chiefly on the students themselves in gastro-enterology and experiments designed to demonstrate the physiology of vision and hearing.

336. Application of Physiology and Pharmacology to Clinical Problems (lectures and demonstrations, total 72 hrs I, II, III)
   This course is designed to illustrate the practical use of drugs in the treatment of patients including prescription writing. The fundamentals of normal and pathological physiology are stressed, together with the pharmacodynamics of the agents discussed.

Physiology and Pharmacology, Electives—

350. Technique in Experimental Physiology and Pharmacology (1-9 cr) Dr. McIntyre and Staff
   Prereq Physiology and Pharmacology 320-321
   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.

351. Special Physiology and Pharmacology
   1. Advanced Physiology and Pharmacology (1-9 cr) Bisgard
      Prereq Physiology and Pharmacology 350
      In Vivo aseptic preparations; instruction in the fundamental techniques of aseptic surgery for the preparation of animals for study, and their postoperative care.
   2. Advanced Physiology and Pharmacology (1-9 cr) McIntyre
      Prereq Physiology and Pharmacology 350
      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.
   3. Electro-Physiology (1-9 cr) Bennett
      Prereq Physiology and Pharmacology 350
      Preparation of nerve for action-potential studies and other phenomena associated with nerve-activity; the electrostatic voltmeter, the cathode ray oscilloscope, direct-current amplification; the modification of nerve-activity by chemical and physical agents.

352. Advanced Pharmacology
   1. Toxicology (1-9 cr) Wetherell
      Prereq Physiology and Pharmacology 350
      The recognition of poisons in the body. The quantitative determination of toxic substances in necropsy materials and excreta: Polarographic quantitative determination of metallic ions present in tissues. Qualitative and quantitative tests for alkaloids by polarographic and other methods.
   2. Bioassay (1-9 cr) Humoller, McIntyre
      Prereq Physiology and Pharmacology 350
      The assay of drugs and hormones and so-called vitamins by biometric methods, including standardization of drugs and biologically active substances.

353. Vitamin and Endocrine Studies
   1. The "Deficient State" (1-9 cr) Staff
      Prereq Physiology and Pharmacology 350
      Animal experiments on diets deficient in accessory food factors; avitaminosis; physico-chemical properties of accessory food factors; isolation and purification of accessory food factors.
   2. The Endocrine System (1-9 cr) McIntyre
      Prereq Physiology and Pharmacology 350
      Studies in hypo- and hyper-normal hormonal activity; techniques for extirpation of glands of internal secretion.

354. Application of Physiology and Pharmacology to Clinical Problems (1-9 cr) Bennett, McIntyre
   Prereq Physiology and Pharmacology 350
   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.

355. Special Application of Physiology and Pharmacology to Industrial Medicine and
Surgery (1-9 cr) Bennett, Humoller, McIntyre, Sievers
Prereq: Physiology and Pharmacology
Physiological principles in shock therapy due to trauma; low pressure, low
oxygen tension encountered in high altitude aviation. Physiological effects of
high pressure. Caisson disease; noxious gases and toxic industrial poisons.

356. Biophysics and Biochemistry of the Cell (4-15 cr) McIntyre, Humoller and Staff
This course places special emphasis on the physiology and biochemistry of the
anatomical units of the neuro-muscular system, and the effects of drugs, poisons,
and physical agents upon their functions and enzyme systems.

357. Seminar (1 or 2 qtr hrs credit per quarter)

358. Research in Physiology and Pharmacology (cr. arr.)

Preventive Medicine

Associate Professor Potthoff; Assistant Professor Rogers; Instructors S. Kutler, P.
Pedersen.

Instruction in this field is given to second and third year students. These courses
aim to give students an understanding of the principles of disease prevention and
health maintenance, and of their future responsibilities as health educators and
community leaders. The field work of the junior year is carried on through a co-
operative agreement with the Omaha-Douglas County Health Department.

320. Principles of Preventive Medicine and Public Health (2 hrs weekly, I, 1 hr
weekly for four wks, II, total 24 hrs)
An introduction to the concept of preventive medicine and public health; our
major health problems; the physician's role in preventive medicine; the organiza-
tion and activities of health agencies; the administrative control of commu-
nicable diseases; biostatistics.

321. Principles of Preventive Medicine and Public Health (2 hrs weekly, total 24
hrs, III)
Includes study of environmental sanitation and of health programs, stressing
maternal and child, dental, school, mental and occupational health programs,
safety, health education, rehabilitation, and preventive medicine in older age.

Field work to provide acquaintance with the everyday activities of the health
department.

Radiology

Professor Hunt, Chairman; Associate Professor Moore; Assistant Professor E. S.
Pederson; Associate Davies; Clinical Associate Ellsworth; Clinical Instructors Saichek,
Skoog-Smith.

The principles of radiology are presented during the third quarter of the second
year by lectures. During the third year students are assigned in groups of eight for
four weeks, during which part of the time is devoted to radiology for practical ex-
perience and individual instruction. A diagnostic radiologic conference is held
weekly at the University Hospital for the house officers and staff and third and
fourth year students are urged to attend. In the fourth year diagnostic conferences
are held every other week for the senior students assigned in Omaha.

Application of x-ray, radium and radioisotopes in the treatment of cancer is pre-
sented in the third year by ward rounds and on clerkship, and in the fourth year
by tumor conference held every other week for those students assigned in Omaha.

Radiological Anatomy (total 6 hrs)
Taught as a part of Gross Anatomy.

320. Principles of Radiology (1 hr weekly, total 12 hrs, III)

330. Clinical Radiology (total 22 hrs) Staff
Assignment of a group of students who during the four weeks they are as-
signed observe and participate in radiographic technique, fluoroscopy and
radiographic interpretation, clerkship on radiotherapy service with ward rounds,
radioisotope clinic and journal seminar.

341. Tumor Conference and Clinic (2 hrs monthly, total 18 hrs, SS, I, II, III) Dr. Hunt
Clinical presentation of selected cases with participation by radiology, pathology
and involved clinical specialties.
342. Diagnostic Radiologic Conference (2 hrs monthly, total 18 hrs, SS, I, II, III) Dr. Moore
Case presentation correlating clinical and radiologic findings.

Radiology and Physical Medicine Electives.—
350. Advanced Diagnostic Radiology (4 to 8 cr) Dr. Moore, Dr. Pederson
Prereq Radiol. 320, 330, 340
Responsible analyses of the status of the various tissues, organs, regions and systems of the body through correlation of radiographic and fluoroscopic observations with anatomy, physiology and pathology.

352. Advanced Therapeutic Radiology (4 to 8 cr) Dr. Hunt, Dr. Davies
Prereq Radio!. 320, 330, 340
Systematic consideration and responsible application of roentgen rays, radium and radioisotopes in the treatment of benign and malignant diseases involving the various organs and regions of the body.

353. Seminar (1 cr each semester) Staff

354. Radiological Dosimetry (3 to 8 cr) Dr. Davies, Dr. Dunn
Prereq Radiol. 320, and consent of department.
Analysis of factors controlling the intensity, quality, distribution, absorption and effects of radiation in phantoms, barriers and tissues.

355. Radiobiology (3 to 8 cr) Dr. Latta, Dr. Hunt, Dr. Pederson
Prereq Anat. 314, 315, Radiol. 320, 354 (may be concurrent)
Assigned laboratory projects and reading for analysis of basic biologic effects of radiation on cells, tissues and organisms.

356. Medical Instrumentation and Biophysics (3 to 8 cr) Dr. McIntyre, Dr. Hunt, Dr. Dunn
Prereq Physiol. 320, 321, Radiol. 320, 354
Assigned laboratory projects, practice and correlated reading referable to special applications of physics in medical instrumentation and biophysical analyses.

357. Thesis (cr arr) Staff

Rehabilitation and Physical Medicine
Professor Hunt; Associate Frost, Acting Chairman; Instructor Fricke; Assistant Steele.

The principles of rehabilitation and physical medicine are presented by group assignment of two students working in the Clinic at the College of Medicine, the Rehabilitation Center in the Douglas County Hospital and the Rehabilitation Section of the Omaha Veterans Administration Hospital at assigned times during a four-week period during the third year. Lectures and clinics will be presented in the fourth year.

350. Principles of Rehabilitation Medicine (total 10 hrs, I, II, III) Dr. Frost, Dr. Fricke, Miss Steele
Students will observe and participate in the evaluation and treatment of patients at the University Clinics, Veterans Hospital and Douglas County Hospital.

340. Lecture Clinics (cr arr, SS, I, II, III) Dr. Frost

Surgery

The courses in surgery are given in the junior and senior years. However, the student is introduced to surgery in his freshman year in the Correlation Hour of the Department of Anatomy. The student has further work in surgery in the sophomore year as a part of the course in Physical Diagnosis. In the clinical years the student is encouraged by direction and by precept to review the basic sciences as related to each disease which he encounters and to apply this knowledge in learning and understanding the principles of surgery.

The courses in surgery are planned to give the student a thorough understanding of the principles of surgical pathology, surgical diagnosis and surgical treatment.
The undergraduate courses do not include instruction in major operating technic. Minor surgery technic is taught in the Clinical Clerkship and Dispensary and includes practical exercises. The technic for performing such major operations as would come to the practitioner in the course of general work or as emergencies is taught during the internship. Preparation for the practice of surgery requires additional postgraduate training as a resident in surgery. Surgery includes a section of neurosurgery, a section of thoracic and cardiac surgery, and anesthesiology.

330. Fundamentals of Surgery (2 hrs weekly I and III; 1 hr weekly II, total 108 hrs)
A presentation of the principles of surgery by assigned reading and by lectures, demonstrations and quizzes supplementary to the text.

335. Clinical Clerk (12 wks, total 246 hrs, I, II, III)
Students are assigned patients in the University Hospital. They follow these patients under close supervision. The students are responsible for the history, physical examination, routine laboratory work, progress notes, and written discussions of the differential diagnosis and of the clinical-pathologic correlation. Instructors review the cases with the students individually and on ward rounds. The students receive training and practical experience in asepsis and O.R. technic, and in gross surgical pathology. Total hours include clerkships in anesthesiology and urology.

340. Hospital Clinic (1 hr weekly, total 18 hrs I, II, III)
Presentation of selected cases to illustrate surgical diagnosis, operative indications, and postoperative care.

341. Senior Hospital Clerkship (total 184 hrs, SS, I, II, III)
Students are assigned as clinical clerks to the University Hospital and the several hospitals associated with the Medical College: the Bishop Clarkson Memorial Hospital, the Immanuel Deaconess Hospital, the Nebraska Methodist Hospital of Omaha; and Bryan Memorial and Lincoln General Hospitals of Lincoln. The students serve on the clerkship for six weeks of the total eighteen weeks in surgery including the surgical specialties. Senior clerks work under the close supervision of members of the faculty. They record the history, the physical examination, laboratory work, the differential diagnosis, progress notes, and a case summary on patients assigned to them. Clerks assist at operations on their own patients and submit reports of the operations. In addition, they make rounds on their patients and review their charts with members of the faculty. The course includes teaching conferences but no didactic work.

342. Dispensary (9 hrs weekly, total 36 hrs SS, I, II, III)
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.

Urology

Professors Lee, Chairman, P. S. Adams; Associates Kammandel, Malashock

Ward Clinics (1 hr weekly, total 8 hrs I, II, III)
Students are given ward clinics using patients at the University Hospital to illustrate major disease entities encountered in the medical practice.

330. Fundamentals of Urology (1 hr weekly, total 16 hrs, I)
Lect and clinics on diseases of the urogenital system.

341. Dispensary (3 hrs weekly, total 12 hrs SS, I, II, III)
One clinic is held each week to which students are assigned for practical experience in the diagnosis and treatment of urogenital diseases.

Senior Preceptorship Program

An extramural teaching program consisting of having each senior student serve a period of nine weeks with an experienced practitioner of medicine has been established. It affords the student an opportunity to learn much of the art and science of medical practice. Preceptors have been selected by a Preceptorship Committee of the Faculty of the College, and are outstanding leaders in medical practice in the rural communities of Nebraska. Preceptors are regular appointed members of the College of Medicine faculty subject to the same rules and regulation as all other faculty members.

The student is assigned a preceptor and he closely follows his teacher in all of his medical activities, including hospital work, office practice and home calls. Students are allowed to participate in the various aspects of medical practice as they become familiar with the preceptor's method of practice, and as the preceptor feels they are capable of handling the work. The various aspects of general practice and community life are made known to the student during his preceptorship.
Trainign Course for X-ray Technicians

Howard B. Hunt, M.A., M.D.
Professor of Radiology and Chairman of Department

Shaun D. Gunderson, M.D.
Clinical Assistant in Radiology

A. T. Tuma, M.Sc.
Instructor in Radiation Physics

Joseph J. Schwangler, R.T.
Chief Radiological Technician

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, and extends over a two-year period. The first year consists of lectures and demonstrations with supervised experience. The second year consists of an apprenticeship in an accredited Department of Radiology. The course has been approved by the American Registry of X-ray Technicians which is sponsored by the American College of Radiology.

Students who have satisfactorily completed the course of training in X-ray Technique at the University of Nebraska, College of Medicine, including at least a second year of experience in an accredited Department of Radiology for which they are usually paid a salary, are accepted for examination by the American Registry of X-ray Technicians. A certificate in X-ray Technique is issued by the American Registry of X-ray Technicians upon successful completion of the examination.

Facilities for Instruction.—Ample opportunity for experience in making roentgenograms of patients is provided. During a period of 12 months about 15,000 X-ray examinations are done annually, including all usual and most special procedures, are made in the Department of Radiology for the University Hospital and Clinics 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 radiologists and chief radiological technician. Facilities are provided for deep X-ray therapy and radium therapy with adequate protection of all workers against exposure to radiation. About 3,000 X-ray treatments and 100 radium treatments are given in the department during a year. The radioisotope laboratory conducts about 500 procedures annually. The library of the College of Medicine is maintained in the hospital.

Requirements for Admission.—An applicant for admission to the course in X-ray technique may be between 18 and 35 years of age and must be a graduate from an accredited high school. Transcripts of high school and college, if attended, which show subjects studied and grades earned must be submitted. It is recommended that the preparatory work include English, Latin, physics, zoology, typing, and secretarial work, although applicants are considered who do not present credits in all these subjects. One year of collegiate study including English, physics, biology, zoology, typing, shorthand, and secretarial work is recommended. In the case of those students who have completed 90 semester hours of college work, including English 6 hours, Physics 6 hours, Chemistry 6 hours, and Biology 8 hours, the University of Nebraska College of Medicine will grant the
degree of Bachelor of Science in Radiological Technology upon completion of the prescribed course and the additional year of approved preceptor training. Applicants must be in good health with no disabilities. The application should be accompanied by a transcript of high school and college credits, a photograph, and the names of two people from whom references can be obtained. Admission is allowed in January, July and September, and only six 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.—A tuition fee of $90.00 for a resident student and $140.00 for a non-resident is charged at the time of enrollment. This fee covers tuition, registration, student health and diploma fees. 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 to $10 a week. A student may elect to spend the required second year in training at the University of Nebraska Hospital for which no tuition is charged.

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

General Information.—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 diptheria, typhoid fever, and smallpox is advised.

Curriculum.—The course of training for students of X-ray technique 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 and consists of instruction in anatomy, pathology, radiology and physical medicine. 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 courses are required of students in X-ray technique. The courses in Anatomy and Medical Science 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 specimen are used for study. 3 cr. hr.

(2) MEDICAL SCIENCE.—Causes and general features of disease processes. Lectures. 1 cr. hr.

(3) PRINCIPLES OF RADIOLOGY.—The general principles of radiation, technique, contrast media and various diagnostic procedures are present-
ed together with the basic principles of X-ray and radium therapy. Professional ethics. Lectures. 1 cr. hr.

(4) SECRETARIAL OFFICE PRACTICE.—Supervised experience covering filing, cross indexing of diagnoses according to the Standard Nomenclature of Disease, vocabulary training and transcription of radiological reports. 5 cr. hr.

(5) RADIATION PHYSICS.—The production, characteristics and control of X-rays applicable to radiographic technique, radiotherapy and protection of personnel. Lectures. 1 cr. hr.

(6) a. ELEMENTARY RADIOGRAPHIC TECHNOLOGY.—Demonstration of anatomical positioning and adaptation of radiographic exposure to the more common radiographic examinations. 9 cr. hr.

b. INTERMEDIATE RADIOGRAPHIC TECHNOLOGY.—Supervised application of above principles by the student in the conduct of routine radiographic procedures. 9 cr. hr.

(7) RADIOTHERAPEUTIC TECHNOLOGY.—Demonstration of types of diseases to which radiotherapy is applicable and demonstration of their treatment by X-ray, radium and radioactive isotopes. 7 cr. hr.

(8) FIRST AID.—A course in first aid as prescribed by The American Red Cross with award of First Aid Certificate by The American Red Cross upon satisfactory completion of course.

(9) The following courses, provided through the courtesy of the School of Nursing by the College of Medicine, may be audited by the student but are not required: Medicine, Surgery, Gynecology, Orthopedics, Urology, Diseases of the Eye, Ear, Nose and Throat.

Opportunities.—There is an increasing demand for 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.
Knowledge in the fields of biochemistry, hematology, serology, parasitology, bacteriology, immunology, and mycology has been increased greatly during the last twenty or thirty years. This knowledge is now being routinely applied in medical science by means of laboratory tests in the diagnosis and treatment of all patients, both those who enter hospitals and those who are cared for in physicians' offices.

Making these laboratory tests and interpreting their results have become so important and complicated that this is now a special field of medicine in itself. 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.

The demand for well-trained medical technologists has been increasing steadily. Most technologists are employed in hospital laboratories, although many of them work in physicians' offices and in clinics. There are some openings for medical technologists in research laboratories, and a number of opportunities have appeared in industrial laboratories with work related to or similar to medical techniques.

Organization.—The course for medical technologists 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 Council on Medical 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 of the Training Course in Medical Technology are expected to take the examination for certification by 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 202 beds, and patients are accepted from all over the state. All types of diseases are treated. Approximately 4,000 patients are admitted each year.

The laboratory of the University Dispensary is also used for instruction. Approximately 32,000 visits are made each year by patients of the University Dispensary. The treatment of patients in the hospital and dispensary is directed by the faculty of the College of Medicine. The laboratory work that is done 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.
High School.—Fifteen high school units are required for admission and must include three units in English, two units in one foreign language (ancient or modern), two units in mathematics (one each of algebra and geometry or an equivalent), and one in science (biology, botany, chemistry, physics or zoology).

College or University.—To insure adequate background and training for entering a recognized course in medical technology, the following minimum requirements have been established in accordance with the Registry of Medical Technologists:

Biology.—Twelve semester hours, of which are required at least 4 semester hours of zoology, and 3 semester hours of bacteriology if offered at the college where preliminary work is taken. If bacteriology is 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.—A lecture and laboratory course in physics is recommended, preferably with at least 8 semester hours including 2 hours of laboratory.

English.—Six semester hours in English.

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

After completion of the training course in Medical Technology, those students who have at least 90 semester hours of previous college work may obtain the degree of Bachelor of Science in Medical Technology, granted by the University of Nebraska College of Medicine. Those students taking the Training Course in Medical Technology with less than 90 semester hours of previous college work may be granted the Certificate of Medical Technologist.

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

Starting Dates.—The majority of the students begin their training during the summer months, on a somewhat staggered schedule. A limited number of students are accepted to begin their training during the mid-year, at approximately the beginning of the second semester of the college year.

Applications.—Forms for application may be obtained from the Director. These forms, with transcripts of both high school and college work, and accompanied by a small recent photograph or snapshot, should be submitted several months prior to the date for which application is being made.

Fees and Expenses.—A tuition fee of $90.00 a year for a resident student and $140.00 a year for a non-resident student is charged at the time of enrollment. This fee covers tuition, registration, student health and diploma fees. Other than uniform laundry, students are responsible for their own maintenance, uniforms, laundry, etc. No housing facilities are available on the Omaha campus. Adequate facilities for lodging and/
or board are available near the campus. Allowance should be made for the purchase of books.

**Plan of Instruction.**—The course of training is 12 months in length. No part of the course is offered separately. Lectures covering background material are taken with the students of the College of Medicine. 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 to familiarize the student with unusual problems.

The hours credit are arranged as follows:

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<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>Parasitology</td>
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<td>Serology</td>
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<td>Biochemistry</td>
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<td>Method in Chemistry</td>
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<td>Hematology</td>
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<td>Hematology Laboratory</td>
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<td>Histologic Technic</td>
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<td>Blood Bank Technic</td>
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<tr>
<td>Special determinations</td>
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</table>

The following formally arranged lecture courses are given:

**INTRODUCTION TO MEDICAL SCIENCE.**—This course covers a general survey of disease processes and their effect upon the individual. The relation of laboratory determinations and alterations in these tests associated with disease states is stressed.

**MEDICAL MICROBIOLOGY.**—This course is taken with the students of the College of Medicine. The medical aspects of bacteriology, immunology, mycology and parasitology are discussed.

**BACTERIOLOGY AND SEROLOGY LABORATORY PROBLEMS.**—Particular attention is given to laboratory technics, their control and interpretation.

**HISTOLOGIC TECHNIC.**—A series of lectures covering the basic principles of processing tissue and other materials for microscopic examination is given.

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

**HEMATOLOGY AND CLINICAL LABORATORY TECHNIQUES.**—This course covers the general principles of blood examination for alterations in the cellular elements, including a discussion of abnormal conditions which are reflected in the laboratory results. In addition, the general aspects of urinalysis, gastric analysis, basal metabolic rates, and electrocardiography are discussed.

**WEEKLY SEMINAR.**—A luncheon seminar is held weekly, during which time pertinent problems regarding the laboratory are discussed. Periodic reviews of the recent literature are conducted.

In addition to the formal lecture material, the student is assigned to various services, as follows:

**CHEMISTRY**—three months. This service includes examination of blood and other body materials for chemical constituents. Such tests usually are quantitative. The student learns the use of proper equipment and the application of careful technics to the performance of a wide variety of tests. Over 30,000 tests in the chemistry section are performed annually, allowing thorough training in this field.
HEMATOLOGY—three months. The various tests for enumeration and detection of abnormality of the formed elements of the blood, and the tests for alterations in the coagulation mechanism of the blood are done. Over 35,000 such tests are performed in the hospital laboratory yearly.

BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY—three months. The identification of microorganisms, particularly pathogenic, by morphologic and cultural characteristics is undertaken in bacteriology. Serology involves primarily immunologic procedures in laboratory tests. Parasitology includes the study of technics for isolation and identification of small animal forms capable of causing disease in man. Adequate demonstration material is maintained in the laboratory. This section of training is under the direction and supervision of the bacteriology staff of the College of Medicine. Approximately 30,000 procedures are done yearly in this field.

BLOOD BANK TECHNIC—one month. Here the student is instructed in methods for handling and storage of blood, as well as preparation of blood for transfusion. Methods for detection of incompatibilities between bloods are emphasized. Over 7,000 tests are made in this section yearly.

HISTOLOGIC TECHNIC—one month. The student becomes familiar with the methods for processing tissues for microscopic examination. A variety of methods is presented, and there are approximately 7,000 tissue sections made yearly.

MISCELLANEOUS—one month. On this service, the student performs routine examinations of urine, gastric contents, and other body fluids. In addition, the performance of basal metabolic rate determinations and of electrocardiographs is accomplished. Approximately 10,000 such tests are made yearly.
Graduating Class of 1955

Internship Appointments

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>University</th>
<th>Hospital/Location</th>
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<tr>
<td>Adams, Leo Melvon</td>
<td>B.Sc.</td>
<td>Univ. of Nebraska</td>
<td>University of Nebraska</td>
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<tr>
<td>Adamson, Richard Fred</td>
<td>B.Sc.</td>
<td>Univ. of Nebraska</td>
<td>St. Joseph Hospital, Tacoma, Washington</td>
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<td>Ahlemeyer, Edward</td>
<td>B.Sc.</td>
<td>Univ. of Nebraska</td>
<td>Lincoln</td>
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<tr>
<td>Allan, James Ray</td>
<td>B.Sc.</td>
<td>Univ. of Nebraska</td>
<td>Lima Memorial Hospital, Lima, Ohio</td>
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<tr>
<td>Anderson, Derald</td>
<td>B.Sc.</td>
<td>Univ. of Nebraska</td>
<td>Omaha, Nebraska</td>
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<td>Baker, Clifton</td>
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<td>Superior</td>
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<td>Baldwin, John Dewey</td>
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<td>Blattpcier, S. F.</td>
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<td>Tobias</td>
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<td>Blatch, John</td>
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<td>Brauer, Albert</td>
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<td>Bressman, Charles</td>
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<td>Brown, Glenn</td>
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<td>Madison General Hospital, Madison, Wis</td>
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<td>Hansen, John</td>
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<td>Dana College</td>
<td>Blair</td>
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53
COLLEGE OF MEDICINE

Heine, Clinton Daniel, AB. 1952 Univ. of Nebraska
Hooper General Hospital, Madison, Wisconsin

Hilst, Wilbur Dean
Big Spring
Nebraska Methodist Hospital, Omaha, Nebraska

Hoffman, Leonard L., B.Sc. in Med., 1953 Univ. No. Dakota
Detroit Lakes, Minn.

Hoffmeister, Rex Todd, A.B. 1950 Univ. of Nebraska
Imperial
Nebraska Methodist Hospital, Omaha, Nebraska

Jensen, Thomas Walter, B.Sc. in Med. Univ. So. Dakota 1953
Watertown, S. D.
St. Joseph’s Hospital, Phoenix, Arizona

Johnson, Ruth Alice, A.B. 1950 Univ. of Nebraska
Lincoln
St. Joseph’s Hospital, Phoenix, Arizona

Missouri
Orange County General Hospital, Orange, California

Kleppe, Lars William
Aberdeen, S. D.

Kuxhausen, Donald Leopold, A.B. 1952 Univ. Nebraska
Scottsbluff

Larson, Arthur Lee
University of Nebraska Hospital, Omaha, Nebraska

Larson, Mary Irene, A.B. 1950 Univ. of Nebraska
Lincoln

Leih, George G. T., A.B. 1948 Northwest Nazarene Coll.
Sioux Falls, S. D.

Mastin, Robert Lynn
Wayne County General Hospital, Eloise, Michigan

May, Derald Glen
Bishop Clarkson Memorial Hospital, Omaha, Nebraska

McGowan, Patrick Thomas, B.Sc. 1953 Univ. of Nebraska
Columbus
Scott and White Memorial Hospital, Temple, Texas

McLeary, John Franklin, B.Sc. in Med. 1955, Univ. of Nebraska
Lincoln
Creighton Memorial St. Joseph’s Hospital, Omaha, Nebraska

Meissner, Richard Harris, A.B. 1951 Univ. of Nebraska
Omaha

Mills, John Webster, B.Sc. 1951 Univ. of Nebraska
Osceola

Mockett, Robert Ellis, A.B. 1952 Univ. of Nebraska
Lincoln

Namikas, Matthew Liutauras, M.A. 1940, Teachers Coll., Ukmerge, Lith.
Gymnasium, Utena, Lith.

Nordlund, Harold Martin, A.B. 1951 Doane College, Crete, Nebraska
York

O’Neal, John Robert, A.B. 1951 Univ. of Nebraska
Columbus

Peatrowsky, David Dean, A.B. 1952 Univ. of Nebraska
Omaha

Rath, Otto Gottlieb, A.B. 1951 NSTC Peru, Nebraska
Peru

Hellman Hospital, Houston, Texas

Nebraska Methodist Hospital, Omaha, Nebraska

Rubin, Sidney Lee, B.Sc. in Med. 1953 Univ. of Nebraska
Tecumseh

Russell, Harry Walter, Jr., A.B. 1951 Hastings College
Fullerton

Saltzman, Paul Wesley, A.B. 1951 Univ. of Omaha
Michael Reese Hospital, Chicago, Illinois

Scholz, Jack Victor, A.B. Univ. of Nebraska
Chadron

Schultz, Loyd Raymond
Virginia Mason Hospital, Seattle, Washington

Scott, John William, Jr., A.B. 1948 Stanford University
Scottsbluff
Sacramento County Hospital, Sacramento, California

Smith, Clarence B., A.B. 1931 Hastings College
Clay Center

Bishop Clarkson Memorial Hospital, Omaha, Nebraska

Stewart, Jeannine Elizabeth, A.B. 1952 Univ. of Omaha
Touro Infirmary, New Orleans, La.
Grading Class 1955

Story, John Huntington, B.Sc. 1951, Wheaton College........... Maxwell  
Nebraska Methodist Hospital, Omaha, Nebraska
Sucha, Merlin Ladean, B.Sc. 1950, Midland College, Fremont, Nebraska... Schuyler  
Creighton Memorial St. Joseph’s Hospital, Omaha, Nebraska
Synhorst, Robert Bruce, A.B. 1951 Hastings College............ Grand Island  
Baylor University Hospital, Dallas, Texas
Taylor, Harold Frank, B.Sc. 1951 Univ. of Nebraska.............. St. Paul  
University Hospitals, Columbus, Ohio
Taylor, Lawrence C., B.Sc. in Med. 1953 Univ. of So. Dakota... Winner, S. D.  
Jackson Memorial Hospital, Miami, Florida
Thompson, William Everett................................. Chadron  
Good Samaritan Hospital, Phoenix, Arizona
Warner, Robert Craig, A.B. 1951 Univ. of Nebraska................. Omaha  
University Hospitals, Columbus, Ohio
Weatherhogg, Curtis Ramon, A.B. 1951 Univ. of Nebraska........... Lincoln  
University Hospitals, Columbus, Ohio
Westley, Howard Dean, B.Sc. in Med. 1955 Univ. of Nebraska........ Prague  
University of Nebraska Hospital, Omaha, Nebraska
Westfall, Robert Harris........................................... Nebraska City  
Edward W. Sparrow Hospital, Lansing, Michigan
Williams, Alice Ruth, A.B. 1952 University of Omaha.............. Council Bluffs, Ia.  
Immanuel Hospital, Omaha, Nebraska
Wills, Theodore Elder, A.B. 1951 Hastings College................. Scottsbluff  
Ancker Hospital, St. Paul, Minnesota
Wiltse, William Earle, A.B. 1951 Nebraska Wesleyan University........ Grand Island  
San Bernardino County Hospital, San Bernardino, Calif.
Winchell, Robert John............................................ Pawnee City  
San Bernardino County Hospital, San Bernardino, Calif.
Wong, Alton, S. K., B.Sc. 1956 Creighton University, Omaha, Nebraska... Omaha  
Harbor General Hospital, Torrance, California
Woodward, James M., Jr., A.B. 1951 Univ. of Nebraska.............. Lincoln  
State University of Iowa Hospital, Iowa City, Iowa
Wright, William E.................................................... Creighton  
Charles T. Miller Hospital, St. Paul, Minnesota
Junior Division
Registers and counsels all freshmen. Supervises the orientation of new students and conducts 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.
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 in the appropriate colleges.

School of Journalism
Leading to the degrees of Bachelor of Arts, Bachelor of Science in Agriculture, Bachelor of Science in Home Economics, Bachelor of Science in Business Administration in the appropriate colleges, and to a 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 and Architecture
Leading to the degrees of Bachelor 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 Electrical Engineering, Bachelor of Science in Mechanical Engineering; and the professional degrees of Agricultural Engineer, Architectural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, and Architect.
Supervises Nebraska Engineering Experiment Station, Lincoln.

Graduate College
Leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Architecture, Master of Music, Master of Science, Master of Science in Dentistry, Master in Psychiatric Nursing and Master of Social Work.

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

College of Law
Leading to the degrees of Bachelor of Science in Law and 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 degree of Bachelor of Science in Nursing and to the Diploma in Nursing.

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, Master of Education, Doctor of 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 Dean of Admissions, University of Nebraska, Lincoln 8