1966

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1966-1967

University of Nebraska College of Medicine

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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 CALENDAR
ACADEMIC YEAR 1966-1967

Freshmen and Sophomores
Sept. 8, Thursday .................. Freshman orientation
Sept. 8, Thursday .................. Freshman physical examination
Sept. 8, Thursday .................. Sophomore registration; first half of tuition due
Sept. 9, Friday ..................... Freshman registration; first half of tuition due
Jan. 30, Monday .................... Balance of tuition due

Juniors
Aug. 15, Monday .................... Junior registration, 8:30 a.m.
Aug. 15, Monday .................... First half of tuition due
Aug. 15, Monday .................... Classes begin 1:00 p.m.
Jan. 30, Monday .................... Balance of tuition due

Seniors
June 6, Monday ..................... First half of tuition due
June 6, Monday ..................... First period begins
Jan. 30, Monday .................... Balance of tuition due
June 4, Sunday ..................... Commencement

Lecture quarters for all campus
Summer ............................. June 6-September 3
Fall .................................. September 12-December 3
Winter ............................... December 5-March 4
Spring ............................... March 6-May 28
Classes end for all students May 27, 1967.

State Basic Science Test .......... October 4 and 5
...................................... January 10 and 11
...................................... May 2 and 3

National Board Examination—
Part I ................................ June 20 and 21
...................................... September 6 and 7
Part II ................................ April 10 and 19
(Closing dates for applications—8 weeks in advance of examination date)

Holidays
July 4 (Monday) ..................... Independence Day
Sept. 5 (Monday) .................... Labor Day
Nov. 24-27 (inclusive) .......... Thanksgiving
(Thursday-Sunday)
Dec. 21-Jan. 3 (inclusive) .... Christmas
(Wednesday-Tuesday)
March 24-26 (inclusive) ....... Easter
(Friday-Sunday)
May 30 (Tuesday) ................. Memorial Day

Family Day—October 30, 1966
Pre-Med Day—April 29, 1967
Architect's drawing of the new addition to University Hospital. It will add 189 teaching beds to the college. Older sections of the hospital will be remodeled. Completion is due in late 1968.

Proposed Basic Science Building and Library of Medicine
ADMINISTRATION

The Board of Regents

Clarence E. Swanson, Lincoln ................................................................. January 1967
J. Leroy Welsh, Omaha ............................................................................. January 1967
J. G. Elliott, Scottsbluff ........................................................................... January 1969
Robert L. Raun, Norman ......................................................................... January 1969
Richard E. Adkins, Osmond ..................................................................... January 1971
B. N. Greenberg, M.D., York ................................................................. January 1971

Joseph Sosnik, Lincoln, Corporation Secretary

The University

Clifford Morris Hardin, Ph.D., Chancellor of the University.
Adam Carlyle Breckenridge, Ph.D., Vice Chancellor and Dean of Faculties.
Merk Hobson, Ph.D., Dean of the Graduate College.
G. Robert Ross, Ph.D., Head of the College of Medicine and Superintendent of the University Hospital.
Joseph Sosnik, Ph.D., Vice Chancellor for Business and Finance.
Cecil Legriel Wittson, M.D., Dean of the College of Medicine and Superintendent of the University Hospital.
Harry S. Allen, M.S., Director of Institutional Research.
Carl A. Donaldson, M.S., Business Manager of the University.
Floyd Hooper, Ph.D., Registrar.
George S. Round, B.S., Director of Public Relations.
Carl R. Yost, M.B.A., Comptroller of the University.

Emeriti Faculty

Clarence F. Bantin, B.S., M.D., Associate in Pediatrics, Emeritus.
Roland Russell Best, B.S., M.D., Professor of Surgery, Emeritus.
John Francis Bresnahan, B.S., M.S., M.D., Instructor in Internal Medicine, Emeritus.
George Worthington Covey, B.S., M.D., Clinical Associate Professor of Internal Medicine, Emeritus.
Herbert Heywood Davis, A.B., M.D., Professor of Surgery, Emeritus.
Harold Everett Eggers, B.A., M.A., Ph.D., Professor of Pathology, Emeritus.
Benhard Farner, M.D., Clinical Associate in General Practice, Emeritus.
Horse K. Giffen, B.A., M.D., Assistant Professor of Pathology, Emeritus.
Weiler Mark Gysin, M.D., Associate Professor of Neurology and Psychiatry, Emeritus.
Harry Evans Harvey, B.S., M.D., Clinical Associate Professor of Obstetrics and Gynecology, Emeritus.

Herman Frank Johnson, M.D., Professor of Orthopedic Surgery, Emeritus.
John Hewitt Judd, B.S., M.D., Professor of Ophthalmology, Emeritus.
Eiley Joseph Kirk, A.B., M.D., Associate Professor of Internal Medicine, Emeritus.
John Stephens Latta, A.B., Ph.D., Professor of Anatomy, Emeritus.
Joseph Daniel McCarthy, M.D., Professor of Internal Medicine, Emeritus.
Charles Franklin Moon, B.S., M.D., Professor of Obstetrics and Gynecology, Emeritus.
Sergiu Morquils, A.B., M.A., Ph.D., Professor of Biochemistry, Emeritus.
Charles Austin Owens, B.S., M.D., Associate Professor of Urology, Emeritus.
Abraham Srol Rubnitz, A.B., M.D., Assistant Professor of Pathology, Emeritus.
William Leite Shearer, A.B., D.D.S., M.D., Professor of Surgery, Emeritus.
Eugene E. Simmons, B.S., M.D., Professor of Internal Medicine, Emeritus.
Robert James Stearns, M.D., Assistant Professor of Obstetrics and Gynecology, Emeritus.

Chester Hill Waters, Sr., B.S., M.D., Professor of Surgery, Emeritus.
William Albert Willard, A.B., M.A., Ph.D., Professor of Anatomy, Emeritus.
Senior Consultants

Leland C. Alberson, A.B., M.D., Instructor in Internal Medicine, Senior Consultant.
Allen Byford Anderson, M.D., Clinical Associate in General Practice, Senior Consultant.
Arthur Wesley Anderson, Sr., B.A., M.D., Clinical Associate in General Practice, Senior Consultant.
Harley Eric Anderson, B.S., M.D., Senior Consultant in Obstetrics and Gynecology.
Walter Benthack, B.A., M.D., Clinical Associate in General Practice, Senior Consultant.
Gordon Newell Best, B.S., M.D., Assistant Professor of Internal Medicine, Senior Consultant.
Waldron Alvin Cassidy, A.B., M.D., Professor of Otorhinolaryngology and Consultant in Bronchoscopy, Senior Consultant.
John Calvin Davis, Jr., A.B., M.D., Professor of Otorhinolaryngology, Senior Consultant.
Max Fleishman, M.D., Assistant Professor of Internal Medicine, Senior Consultant.
W. Max Genry, A.B., M.D., Clinical Associate in General Practice, Senior Consultant.
George Alfred Haslam, A.B., B.S., M.D., Clinical Associate in General Practice, Senior Consultant.
Harlan S. Heim, B.A., M.D., Clinical Associate in General Practice, Senior Consultant.
Wayne McKinley Hull, B.A., B.S., M.S., M.D., Assistant Professor of Internal Medicine, Senior Consultant.
J. Jay Keegan, A.B., A.M., M.D., Professor of Surgery, Senior Consultant.
Earl F. Leininger, B.S., M.D., Clinical Associate in General Practice, Senior Consultant.
Ralph Herbert Luikart, M.D., Professor of Obstetrics and Gynecology, Senior Consultant.
James Sylvester McAvin, Ph.G., M.D., Associate in Radiology, Senior Consultant.
Anron M. McMillan, A.B., M.D., Clinical Associate in General Practice, Senior Consultant.
Morris Margolin, A.B., M.D., Assistant Professor of Internal Medicine, Senior Consultant.
Willson Bridges Moody, A.B., M.D., Professor of Internal Medicine, Senior Consultant.
Donal H. Morgan, B.S., M.D., Clinical Associate in General Practice, Senior Consultant.
Harold Smith Morgan, M.D., Clinical Associate Professor of Obstetrics and Gynecology, Senior Consultant.
Herschel B. Morton, B.S., M.D., Clinical Associate Professor of Surgery, Senior Consultant.
Nathan Muskin, A.B., M.D., Instructor in Internal Medicine, Senior Consultant.
Friedrich Wilhelm Niehaus, B.S., M.D., Professor of Internal Medicine, Senior Consultant.
Theodore August Peterson, B.S., M.D., Senior Consultant in General Practice.
E. Burkett Reed, B.S., M.D., Associate Professor of Internal Medicine, Senior Consultant.
Sidney 0. Reese, B.S., M.D., Clinical Associate Professor of Surgery, Senior Consultant.
Oliver Francis Roihart, D.V.S., Instructor in Pathology, Senior Consultant.
Harry Allen Taylor, A.B., B.S., M.D., Senior Consultant.
Irwin Levi Thompson, B.S., M.D., Clinical Associate in General Practice, Senior Consultant.
Donald Jasper Wilson, B.S., A.B., M.D., Professor of Dermatology and Syphilology, Senior Consultant.

Active Faculty

Nathan Richard Addkins, B.S., M.D., Instructor in Radiology.
Dean Craig Affleck, B.S., M.A., Ph.D., Associate Professor of Medical Psychology, Neurology and Psychiatry.
John Andrew Aita, Ph.D., M.D., Associate Professor of Neurology and Psychiatry and Associate in Physical Medicine and Rehabilitation.
John R. Allely, A.B., M.D., Assistant Instructor in Internal Medicine.
George Thomas Alliband, B.S., M.D., Associate Professor of Ophthalmology.
Lawrence Lloyd Anderson, A.B., M.D., Associate in Surgery.
Thorwald Robert Anderson, A.B., M.D., Clinical Assistant Professor of Pathology.
Carol Remmer Angle, A.B., M.D., Assistant Professor of Pediatrics.
William Dodge Angle, B.S., M.D., Associate Professor of Internal Medicine.
Stanley Monrad Bach, B.A., M.D., Assistant Professor of Orthopedic Surgery and Anatomy and Associate in Physical Medicine and Rehabilitation.
David L. Bacon, M.D., Assistant Instructor in Internal Medicine.
John William Ballew, B.S., M.D., Instructor in Obstetrics and Gynecology.
Paul Martin Bancroft, B.S., M.S., M.D., Clinical Associate Professor of Pediatrics.
William H. Bancroft, B.S., M.D., Assistant Instructor in Internal Medicine.
Anthony Joseph Barak, B.S., M.S., Ph.D., Assistant Professor of Biochemistry.
John Lucian Barmore, M.D., Associate Professor of Surgery.
John Hodgson Barthell, M.D., Clinical Instructor in Dermatology and Syphilology.
George William Bartholow, B.S., M.D., Assistant Professor of Neurology and Psychiatry.
Jerold C. Baumgartner, B.S., M.D., Instructor in Pediatrics.
Meyer Beber, B.S., Ph.D., M.D., Professor of Internal Medicine and Associate Professor of Biochemistry.
Edward T. Beilman, B.S., M.D., Instructor in Neurology and Psychiatry.
Charles Dudley Bell, B.A., M.D., Instructor in Dermatology and Syphilology.
James Winfred Benjamin, B.A., M.A., Ph.D., Professor of Anatomy.
Arthur Lawrence Bennett, A.B., Ph.D., M.D., Professor of Physiology and Pharmacology (Assistant Chairman of Department).
Reba Ann Benschoter, B.A., M.S., Assistant Professor of Medical Teaching Aids, Neurology and Psychiatry.
Samuel G. Benson, B.S., M.S., Instructor in Physiology and Pharmacology.
James Dewey Bisgard, A.B., M.D., Professor of Surgery.
Albert S. Black, B.S., M.D., Assistant Professor of Surgery.
Irvin LeRoy Blose, B.S., M.S., M.D., Instructor in Neurology and Psychiatry.
John Lucian Barmore, M.D., Assistant Professor of Surgery.
Raymond John Breed, B.A., M.D., Associate Professor of Internal Medicine.
LeGrand Dwight Cherry, B.S., M.D., Clinical Assistant Professor of Surgery.
Robert Morris Cochran, B.S., M.D., Associate in Surgery and Associate in Anatomy.
John Daniel Coe, A.B., M.D., Assistant Professor of Surgery.
Richard L. Cohen, B.A., M.D., Associate Professor of Neurology and Psychiatry and Chief of Childrens Service, Nebraska Psychiatric Institute.
Frank Cole, B.S., M.D., Clinical Associate in Surgery.
Francis C. Coleman, M.D., Clinical Assistant Professor of Pathology.
Robert Marshall Collins, B.S., M.D., Assistant Professor of Obstetrics and Gynecology.
Robert Edward Connor, B.S., Chief Pharmacist with rank of Assistant Instructor.
John H. Copenhaver, B.S., Ph.D., Assistant Professor of Neurology and Psychiatry and Biochemistry.
Walter Thomas Cotton, B.S., M.D., Associate Professor of Obstetrics and Gynecology.
Michael Crofoot, A.B., M.D., Professor of Pediatrics.
Dale Alan Cruise, B.S., M.D., Instructor in Obstetrics and Gynecology.
Marion Rose Cunningham, B.S., Instructor in Neurology and Psychiatry.
Louis T. Davies, A.B., B.S., M.A., M.D., Clinical Assistant Professor of Surgery.
Herbert Leroy Davis, A.B., Ph.D., Associate Research Professor of Surgery and Associate Professor of Biochemistry.
J. Allan Davis, B.S., M.D., Associate in Otorhinolaryngology.
John Byron Davis, B.S., M.D., Assistant Professor of Surgery.
John Calvin Davis, B.S., M.D., Assistant Professor of Internal Medicine and Assistant Professor and Acting Chairman Department of Preventive Medicine and Public Health.
Neal Balbach Davis, M.D., Associate Professor of Urology.
Stanley L. Davis, B.A., M.D., Assistant Instructor in Internal Medicine.
Johanna C. DeVries, B.S., M.P.N., Assistant Instructor in Neurology and Psychiatry.
John Lage Dewey, A.B., M.D., Instructor in Internal Medicine.
William John Dickerson, A.B., M.D., Associate in Internal Medicine.
James William Dinsmore, B.S., M.D., Instructor in Orthopedic Surgery.
David Donahan, R.N., Lecturer in Physical Medicine and Rehabilitation.
George R. Dues, B.S., Ph.D., Associate Professor of Microbiology and Section Head of Viral Genetics, Eppley Institute.
H. Dwyer Dunlop, A.B., M.A., Associate Professor of Psychiatric Occupational Therapy, Neurology and Psychiatry.
Burton Jay Dunwitz, B.S., Lecturer in Physical Medicine and Rehabilitation.
Donald L. Dunlop, B.A., M.D., Assistant Professor of Obstetrics and Gynecology.
Arthur Lowell Dunn, A.B., A.M., Ph.D., Assistant Professor of Biochemistry and Biophysics in Radiology.
Frank Lowell Dunn, B.S., M.D., Professor of Internal Medicine and Associate Professor of Physiology and Pharmacology.
Stephen John Dutch, Jr., A.B., M.D., Associate Professor of Neurology and Psychiatry and Assistant Professor of Pediatrics.
Carol Lou Dworak, B.S., Assistant Instructor in Radiology.
Frank Lewis Eagle, B.S., M.D., Assistant Professor of Ophthalmology.
Louise Foster Eaton, A.B., M.D., Instructor in Neurology and Psychiatry.
Merrill T. Eaton, A.B., M.D., Professor of Neurology and Psychiatry and Clinical Director of Adult Outpatient Service.
Dale Walter Ebers, B.S., M.D., Associate in Pediatrics.
Robert W. Ehrlich, A.B., M.S., M.D., Clinical Instructor in Surgery.
James D. Eisen, B.S., M.S., Ph.D., Associate Professor of Human Genetics, Neurology and Psychiatry, and Assistant Professor of Anatomy.
Alfred George Ellick, A.B., J.D., Associate Professor of Medical Jurisprudence (Chairman of Department).
Robert James Ellingson, B.S., M.A., Ph.D., M.D., Professor of Medical Psychology, Neurology and Psychiatry.
H. Chandler Elliott, B.A., M.A., Ph.D., Professor of Anatomy.
James Howard Elston, M.D., Instructor in Obstetrics and Gynecology.
Arden Waters Engstrom, B.S., M.S., Instructor in Pathology.
Cleomond D. Eskelson, B.S., M.S., Instructor in Biochemistry.
Robert Gerald Faller, B.S., M.A., M.D., Instructor in Ophthalmology.
Robert D. Faulkner, B.S., M.S., Ph.D., Assistant Professor of Biochemistry and Biochemical Pharmacology, Eppley Institute.
Warren Waldemar Fieber, B.S., M.D., Assistant Professor of Anesthesiology, Department of Surgery.
K. J. Fijan, B.S., M.D., Clinical Instructor in Pediatrics.
John Clayton Filkins, B.S., M.D., Assistant Professor of Ophthalmology.
Allister Ian Finlayson, M.A., M.D., Professor of Neurological Surgery.
Rex Rolland Fischer, B.S., M.D., Assistant Instructor in Obstetrics and Gynecology.
Donald Max Fitch, A.B., B.S., M.D., Assistant Professor of Pathology.
John F. Foley, B.S., M.D., Associate Professor of Internal Medicine and Chief Coordinator, Medical Cancer Therapy Program, Eppley Institute.
Miles E. Foster, A.B., B.S., M.D., Assistant Professor of Pathology.
Muriel Naomi Frank, A.B., M.D., Assistant Professor of Anesthesiology, Department of Surgery.
Maurice D. Frazer, B.S., M.D., Clinical Associate Professor of Radiology.
Fred J. Frick, B.S., M.S., M.D., Associate in Physical Medicine and Rehabilitation.
Waller J. Friedlander, B.A., M.D., Professor of Neurology.
Dwight Maurice Frost, B.S., M.D., Assistant Professor of Physical Medicine and Rehabilitation (Chairman of Department).
Samuel Isaiah Fuenning, B.S., M.S., M.D., Associate Professor of Preventive Medicine and Public Health.
Paul Jay Gardner, A.B., M.S., Ph.D., Professor of Anatomy.
Charles Garetz, A.B., M.S.W., Assistant Professor of Psychiatric Social Work, Neurology and Psychiatry.
Richard Earl Garlinghouse, A.B., M.D., Associate Professor of Obstetrics and Gynecology.
Robert O. Garlinghouse, A.B., M.D., Clinical Assistant Professor of Surgery.
Edward E. Gaiz, B.S., M.S., Assistant Instructor in Physiology and Pharmacology.
John Leo Gedgoud, B.S., M.D., Professor of Pediatrics.
John Harold George, M.D., Instructor in Obstetrics and Gynecology.
Carl Frederick Gessert, A.B., M.S., Ph.D., Assistant Professor of Physiology and Pharmacology.
Gordon Everett Gibbs, A.B., M.A., Ph.D., M.D., Professor of Pediatrics (Chairman of Department).
Harold Gifford, Jr., B.S., M.D., Professor of Ophthalmology (Chairman of Department).
Louis Gilbert, A.B., M.D., Clinical Instructor in Urology.
Robert W. Gillespie, B.S., M.D., Instructor in Surgery.
Ray O’Herin Gillies, Jr., M.D., Associate in Otorhinolaryngology.
Louis James Gogola, B.S., M.A., M.D., Clinical Assistant Professor of Surgery.
Julius Charles Goldner, B.S., M.D., Assistant Professor of Neurology and Psychiatry.
Dale Preston Joel Goldsmith, B.S., M.A., M.S., Ph.D., Associate Professor of Biochemistry.
Jewell Goodloe, B.S., Assistant Instructor in Neurology and Psychiatry.
John Robert Gorman, M.D., Assistant Professor of Internal Medicine.
Annette Therese Cormican, B.S., M.S., Ph.D., Assistant Professor of Human Nutrition.
Russell Leroy Gorhey, B.S., M.D., Assistant Professor of Obstetrics and Gynecology.
William Ernest Graham, A.B., M.D., Assistant Professor of Internal Medicine.
Robert S. Grant, M.D., Clinical Instructor in Pediatrics.
Harris Breiner Graves, A.B., M.D., Instructor in Internal Medicine.
Richard Walter Gray, M.D., Associate in Neurology and Psychiatry.
Arthur Morton Greene, B.S., M.S., M.D., Associate Professor of Internal Medicine.
Earl George Greene, B.S., M.D., Assistant Professor of Pathology.
Paul King Greening, B.A., M.D., Assistant Professor of Pathology.
John Maurice Grier, M.D., Assistant Instructor in Pathology.
Robert Leslie Griscom, B.S., M.D., Professor of Internal Medicine (Chairman of Department).
Charley Franklin Gutch, B.A., M.D., Instructor in Internal Medicine.
Key Hachiya, A.B., M.D., Instructor in Surgery.
Richard A. Hadley, B.A., M.D., Assistant Professor of Pediatrics.
Phillip N. Haese, B.A., M.A., Assistant Instructor in Neurology and Psychiatry.
John A. Hagstrom, B.A., M.D., Assistant Instructor in Radiology.
Robert Emil Hahn, B.A., M.D., Instructor in Ophthalmology.
Cliff Struthers Hamilton, Jr., A.B., M.D., Instructor in Surgery.
Donald Lee Hamms, B.S., M.D., Instructor in Internal Medicine.
William Rudolph Hamss Jr., B.S., M.D., Instructor in Orthopedic Surgery.
William Rudolph Hamss Sr., B.S., M.D., Professor of Orthopedic Surgery.
Louis Everett Hanlish, M.D., Instructor in Surgery.
Charles Robert Hanks, A.B., M.D., Assistant Professor of Internal Medicine.
Hodson Arthur Hansen, B.S., M.D., Instructor in Obstetrics and Gynecology.
Denham Harman, B.S., Ph.D., M.D., Professor of Biochemistry and Assistant Professor of Internal Medicine.
Donald Andrew Harvey, B.A., Ph.D., M.D., Assistant Professor of Medical Microbiology and Instructor in Internal Medicine.
Harold Elmer Harvey, A.B., M.D., Associate in Obstetrics and Gynecology.
Mary H. Haworth, A.B., M.S., Ph.D., Associate Professor of Medical Psychology, Neurology and Psychiatry.
Malcolm Morris Helper, B.S., A.M., Ph.D., Associate Professor of Medical Psychology, Neurology and Psychiatry.
Harry C. Henderson, A.B., M.D., Instructor in Neurology and Psychiatry.
Mary Josephine Henn, A.B., M.S., M.D., Associate Professor of Internal Medicine and Assistant Dean in Charge of Student Affairs.
Mary Lynn Hepburn, B.S., M.S.W., Assistant Instructor in Neurology and Psychiatry.
Bernice Martin Heitzner, B.A.L.S., M.A., Professor of Library Science.
Marion Robert Hicks, B.S., M.S., Assistant Instructor in Pathology.
Robert Antoine Hillyer, B.A., M.D., Clinical Instructor in Surgery.
Hiram David Hilton, B.A., M.D., Clinical Assistant Professor of Surgery.
Donald Robert First, A.B., M.D., Instructor in Obstetrics and Gynecology.
Paul Edmund Hodgson, M.D., Professor of Surgery.
John Frederick Hofert, B.A., M.S., Ph.D., Assistant Professor of Biochemistry.
Kenneth Clyde Hoffman, B.S., M.D., Instructor in Pathology.
Robert C. Holcombe, A.B., M.D., Instructor in Internal Medicine.
Eunice Perle Holgdraf, B.S., Instructor in Internal Medicine.
Edward Augustus Holyoke, B.S., M.A., Ph.D., Professor of Anatomy (Chairman of Department).
Leo Thomas Hood, B.S., M.D., Assistant Professor of Orthopedic Surgery.
Julia Anne Hopkins, B.S., M.D., Instructor in Internal Medicine.
Harold R. Horn, A.B., M.D., Clinical Instructor in Orthopedic Surgery.
Lawrence Gene Hornsbay, M.D., Instructor in Neurology and Psychiatry.
Dorothy H. Hubbard, B.A., M.S.W., Instructor in Neurology and Psychiatry.
Theodore Franklin Hubbard, A.B., M.S., M.D., Associate Professor of Internal Medicine.
Fred Ludwig Humoller, B.S., Ph.D., Associate Research Professor of Chemical Physiology and Pharmacology.
Howard Beeman Hunt, A.B., M.A., M.D., Professor of Radiology (Chairman of Department) and Physical Medicine and Rehabilitation.
John Raymond Hyde, M.D., Instructor in Anesthesiology, Department of Surgery.
Charles Gregory Ingham, M.D., Associate in Neurology and Psychiatry.
Donald Robert Jackson, A.B., M.D., Associate in Internal Medicine.
Herbert Paul Jacobi, B.S., M.S., Ph.D., Professor of Biochemistry (Chairman of Department).
Lawrence Royce James, B.S., M.D., Associate Professor of Radiology.
Stanislaus H. Jaros, B.S., M.D., Assistant Professor of Internal Medicine.
Richard E. Jensen, Lecturer in Physical Medicine and Rehabilitation.
William Curtis Jensen, M.D., Instructor in Internal Medicine.
Roger S. Jernstrom, B.A., B.S., M.S., M.D., Assistant Professor of Obstetrics and Gynecology.
Paul Whitney Jewett, M.D., Assistant Instructor in Internal Medicine.
George Nick Johnson, M.D., Assistant Professor of Surgery.
Gordon Frederick Johnson, B.A., M.D., Assistant Professor of Radiology.
Joel Theodore Johnson, B.S., M.D., Assistant Instructor in Surgery.
Marilyn Weber Johnson, B.S., M.P.H., Assistant Professor of Preventive Medicine and Public Health.
Palmer Luther Johnson, B.S., M.D., Instructor in Obstetrics and Gynecology.
Robert J. Johnson, B.A., M.S., Research Instructor in Obstetrics and Gynecology.
Jimmy Ellis Jones, B.A., M.D., Assistant Instructor in Surgery.
John R. Jones, M.D., Professor of Anesthesiology in Surgery and Head of Section of Anesthesiology.
Robert Dale Jones, M.D., Associate in Neurology and Psychiatry.
Robert Eric Joranson, B.S., M.D., Associate in Internal Medicine.
Barney Kadis, A.B., Ph.D., Research Assistant Professor of Obstetrics and Gynecology and Assistant Professor of Biochemistry.
Janet Ruth Kahle, B.S., M.S., Instructor in Medical Microbiology.
Henry Kammandel, B.S., M.D., Associate Professor of Urology.
Frederick William Karrer, B.S., M.D., Instructor in Surgery.
John Charles Kennedy, B.S., M.A., M.D., Associate Professor of Surgery.
Emmet M. Kenney, B.S., M.D., Instructor in Neurology and Psychiatry.
Frank Klabenes, B.S., M.D., Associate Professor of Otorhinolaryngology (Chairman of Department).
William Philip Kieltsch, M.D., Associate Professor of Surgery.
George J. Klock, A.B., B.S., M.D., Associate Professor of Pediatrics.
James LeRoy Knoll, M.D., Assistant Professor of Internal Medicine.
Elisabeth F. Koenig, B.A., B.S., Assistant Professor of Library Science.
Marjorie Ann Koneschne, Assistant Instructor in Anesthesiology, Surgery Department.

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

Andrew Jackson Krapohl, A.B., M.D., Instructor in Obstetrics and Gynecology.

Anne J. Krush, B.A., Instructor in Internal Medicine.

Morton Howard Kulesh, B.A., M.D., Associate Professor of Pathology.

Richard A. Kurit, B.S., M.A., Ph.D., Associate Professor of Medical Sociology, Neurology and Psychiatry.

Beaton Kuller, A.B., D.D.S., Instructor in Surgery and Assistant Professor of Preventive Medicine and Public Health.

John Peter Lambooy, B.A., M.S., M.A., Ph.D., Professor of Chemical Pharmacology, Department of Physiology and Pharmacology, Professor of Biochemistry, and Section Head—Biochemical Pharmacology, Eppley Institute.


Edward Langdon, B.S., M.D., Associate Professor of Internal Medicine.

Arthur Lee Larsen, A.B., M.D., Assistant Professor of Pathology.

Richard A. Larson, B.S., M.D., Assistant Instructor in Surgery.

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

Gerald Hugh Latrop, B.S., Assistant Instructor in EEG Technology, Department of Neurology and Psychiatry.

Chariton Rex Latta, B.S., M.D., Instructor in Ophthalmology.

Marcia J. Lawton, A.B., M.A., Ph.D., Instructor in Neurology and Psychiatry.

Leonard R. Lee, B.S., M.D., Instructor in Internal Medicine.

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

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L. C. Strough, Acting Chairman

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
W. H. Pearse, Chairman

DEPARTMENT OF ORTHOPHthalmology
Harold Gifford, Jr., Chairman

DEPARTMENT OF ORTHOPHARYNGOLOGY
F. J. Klabenes, Chairman

DEPARTMENT OF ORTHOPEDIC SURGERY
C. H. Waters, Chairman

DEPARTMENT OF PATHOLOGY
C. A. McWhorter, Chairman

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

DEPARTMENT OF PREVENTIVE MEDICINE AND PUBLIC HEALTH
John Calvin Davis, III, Acting Chairman

DEPARTMENT OF RADIOLOGY
Howard B. Hunt, Chairman

DEPARTMENT OF REHABILITATION AND PHYSICAL MEDICINE
D. M. Fyost, Chairman

DEPARTMENT OF SURGERY
M. M. Musselman, Chairman

DEPARTMENT OF UROLOGY
Leroy W. Lee, Chairman

COMMITTEES OF THE FACULTY

ADMISSION AND SCHOLASTIC STANDING
Drs. Brush, Cohen, Loomis, Miller, Morris, Muffly, Tollman, Henn (ex officio)

BUDGET
Drs. Gifford, Holyoke, McFadden, Pearse, Strough, Wittson

CURRICULUM
Drs. Hodgson, Holyoke, Hunt, McIntyre, Paustian, Pearse

FACULTY PROMOTIONS
Drs. Holyoke, Jacobi, Musselman, Strough, Wittson

HONORS PROGRAM
Drs. Bennett, Grissom, McWhorter, Pearse

LIBRARY
Drs. Affleck, Bach, Barentson, Latta, McIntyre, Osborn, Pinne, Scott, Mrs. Hetzner
(ex officio)

MEMORIAL RESEARCH LABORATORY
Drs. Harman, Jones, Sellers, Thomas (ex officio)

PARKING
Drs. Coe, Kenney, Lee, McFadden, Schain, Tobin, Mr. Koch, Mr. Schriplema

PRECEPTORSHIP
Drs. Bressman, Garlinghouse, McMurtrey, Niehaus, Rosenlof, Sievers, Smith, Pearse (ex officio)

RESEARCH ALLOCATION AND SPACE
Drs. Bennett, Lemon, Musselman

SCHOLARSHIPS AND AWARDS
Drs. Bennett, Carver, Henn, Messer, Paustian, Wilder

SENIOR EXAMINATIONS
Drs. Eaton, Grissom, Hodgson, McIntyre, Mooring, Pearse, Henn (ex officio)
SENIOR THESIS
Drs. Crofoot, Davis, Ellingson, Fitch, Gessert, Goldsmith, Magid, Meader, Olnhausen, Rath, Rigby, Tremaine, Ware, Mrs. Hetzner (ex officio)

SPECIAL FUNCTIONS
Drs. Affleck, McMurtrey, Ogborn, Mrs. Barentson, Mrs. Benschoter, Mrs. Johnson, Miss Reynolds, Mrs. Olney (ex officio), Mr. Boughn (ex officio)

STUDENT ASSISTANCE
Drs. Benjamin, Foley, Henn, Holyoke, Messer, Smith, Mr. Rockenbach (ex officio)

RESIDENTS—1966–67

ANESTHESIOLOGY
Freeman, Donald, M.D.
Gordon, John L., M.D.
Newland, Myrna, M.D.
Sorensen, Vale, M.D.

INTERNAL MEDICINE
Bancroft, William H., M.D.
Bidari, Z. C., M.D.
Chilcoat, Donald, M.D.
Lower, Dennis, M.D.
Scholz, Jack V., M.D.
Settles, Robert H., M.D.
Sorrell, Michael F., M.D.
Waltemath, Donald E., M.D.
Zacharia, Laurence A., M.D.

OBSTETRICS AND GYNECOLOGY
Beavers, Dennis D., M.D.
Cadwallader, James, M.D.
Green, Richard K., M.D.
Nickel, James E., M.D.
O'Rourke, John G., M.D.
Ward, Roger E., M.D.

OPHTHALMOLOGY
Ashley, John D., M.D.
Feidler, Herbert, M.D.
Hand, Harold E., M.D.
Jorgensen, Roger L., M.D.

PATHOLOGY
Jones, Jerry, M.D.
Kutsch, David L., M.D.
Newland, James R., M.D.
Roffman, Blaine, M.D.
Shapiro, Robert, M.D.

PEDIATRICS
Ho, Chen Kung, M.D. (to August 31, 1966)
Hussain, Sayeed Bin, M.D.
Iriarte, Luis, M.D. (to October 31, 1966)
Ventosa, Jose J., M.D.

RADIOLOGY
Robbins, John C., M.D.
Russell, Harry W., M.D.

SURGERY
Delavan, James W., M.D.
Dillow, Byron M., M.D.
Godfrey, Roberta, M.D.
Kloster, Gilbert J., M.D.
Lynch, Robert D., M.D.
McManus, William, M.D.
Miller, Gerald C., M.D.
Olson, Richard, M.D.
Panzer, James F., M.D.
Stephenson, David V., M.D.
Thompson, Chester Q., M.D.
Wallace, Thomas H., M.D.

UNIVERSITY OF NEBRASKA HOSPITAL INTERNS 1966–67

Babbitt, David C., M.D.
Buell, James C., M.D.
Fritz, William L., M.D.
Haven, Guy T., M.D.
Henderson, Joseph S., M.D.
Hofschire, Philip J., M.D.
Jones, Lloyd C., M.D.
Juel, Richard D., M.D.
Kuper, Richard D., M.D.

CLINICAL ASSOCIATES IN GENERAL PRACTICE

Chauncey Leroy Anderson, B.S., M.D., Stromsburg
Robert C. Anderson, B.S., M.D., Ainsworth
Charles Ferg Ashby, A.B., B.S., M.D., Geneva
Arden H. Bonebrake, A.B., M.D., Nebraska City
Everett G. Brillhart, B.S., M.D., Columbus
Ralph Lowell Cassel, A.B., M.D., Fairbury
Charles Maxwell Coe, B.S., M.D., Wakefield
Thomas William Deakin, M.D., Valentine
William Alton Doering, A.B., M.D., Franklin

* Pending approval of The Board of Regents.
Louis John Ekeler, M.D., David City
John Edgar Farner, B.S., M.D., Valentine
John Charles Finegan, M.D., Lexington
Ivan Merwyn French, A.B., M.D., Wahoo
Harold Ellis Gentry, B.S., M.D., Gering
Richard D. Gentry, A.B., M.S., M.D., Falls City
William J. Gentry, B.S., M.D., Gering
Leslie Irl Grace, B.S., M.D., Blair
Robert Louis Heins, B.S., M.D., Falls City
Clifford Dale Howard, B.S., M.D., Blair
Gordon O. Johnson, M.D., Fairbury
Wilbur Edward Johnson, A.B., B.S., M.D., Valentine
Kenneth Jack Kenney, M.D., Fairbury
John Thomas Keown, Jr., B.S., M.D., Pender
Glen Donald Knopf, B.S., M.D., Elmwood
Theodore Henry Koefoot, Jr., B.S., M.D., Broken Bow
Richard Bruce Koefoot, A.B., M.D., Broken Bow
Reinhold Henry Kohtz, B.S., M.D., Bloomfield
Herbert Dietrich Kuper, M.D., Columbus
Theodore John Lemke, M.D., Columbus
William Bradford Long, M.D., Lexington
Dean Allen McGee, B.S., M.D., Lexington
Paul Raymond Martin, M.D., Ord
Roger Dale Mason, M.D., McCook
Clyde Avery Medlar, B.S., M.D., Columbus
Otls William Miller, B.S., M.D., Ord
Warren Robert Miller, A.B., M.D., Columbus
Donal Harlan Morgan, B.S., M.D., McCook
Charles George Muffly, B.S., M.D., Pender
H. Dey Myers, B.S., M.D., Schuyler
Delwyn Joseph Nagengast, B.S., M.D., Bloomfield
Lyle Herman Nelson, B.A., M.D., Crete
William Charles Niehaus, M.D., David City
Paul E. Olsson, B.S., M.D., Lexington
Bert W. Pyle, M.D., Gothenburg
Robert Eugene Quick, B.S., M.D., Crete
James Edgar Ramsay, B.A., M.S., M.D., Atkinson
Walter M. Reiner, M.D., Holdrege
Lawrence Rudolph, M.D., David City
George Salter, B.S., M.D., Norfolk
Myron Earle Samuelson, A.B., M.D., Wymore
Charles Joseph Sauls, B.S., M.D., Mullin
John Charles Schultz, M.D., Tecumseh
Paul Milton Scott, B.S., M.D., Auburn
Floyd Harvey Shiffermillar, B.S., M.D., Ainsworth
Bryce George Shopp, B.A., M.D., Imperial
Rudolph Frederick Sievers, B.S., Ph.D., M.D., Blair
Rodney Allen Sitorius, B.S., M.D., Cozad
Alfred Paul Steppenbeck, B.S., M.D., Humboldt
Edmund Arthur Steenburgh, B.S., M.D., Aurora
Hubert Clare Stewart, A.B., M.D., Pawnee City
Conrad James Thomas, B.A., M.D., Franklin
Richard Lee Tollefsen, M.D., Wausa
Stephen Edward Wallace, M.D., Wahoo
Frank W. Wanek, B.S., M.D., Gordon
Robert W. Waters, B.S., M.D., O'Neill
Robert C. Weldon, B.S., M.D., Nebraska City
Rex Woodrow Wilson, A.B., M.S., M.D., O'Neill
Elwood Edward Yaw, B.S., M.D., Imperial
Wayne L. Zlomke, B.A., M.D., Ord
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.—The present value of the land, buildings, and equipment of the College of Medicine approximates $18,000,000. A strong faculty is meeting the demands of the expanding requirements of medical education. Excellent clinical facilities are provided through the University Hospital and clinics as well as other affiliated hospitals.

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 patients in the wards and outpatient department of the hospital. The objective method is followed in laboratories and clinical instruction. In all courses students are encouraged to do a large amount of individual work, meeting in small groups with laboratory and clinical instructors.

APPLICATIONS FOR ADMISSION

Printed application forms are available at the Registrar's Office, College of Medicine, University of Nebraska, 42nd Street and Dewey Avenue, Omaha, Nebraska 68105. Students applying for any given class must have their applications completed by November 1st of the year preceding intended entrance.

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. Consideration is given also to appraisals of character, personal interviews, scores on the Medical College Admission Test 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 for 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
APPLICATION PROCEDURE

Policy has been established in order that the applicant may become familiar with the language, customs, and methods of teaching in the United States, and so that the Committee can 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. The blank forms are available from the Assistant Registrar of the College of Medicine;
2. Two recent unmounted photographs, 2 x 2 inches head size;
3. An official transcript sent directly from each college or university attended;
4. Two character appraisals from professors of premedical sciences, preferably chemistry, zoology or physics; or official report of Pre-Med Committee;
5. The result of the Medical College Admission Test. Applicants will take the test by the fall of the year preceding intended entrance. Information concerning this test may be obtained from the pre-medical adviser of the College of Arts and Sciences; from the Psychological Corporation, 304 East 45th Street, New York, New York, 10017; or the Assistant Registrar of the College of Medicine. Students should communicate directly with The Psychological Corporation for specific details.

A personal interview with members of the Committee on Admissions and Scholastic Standing is required of all accepted students. Interview sessions will be held at the campus of the University of Nebraska in Lincoln in November or December. Interviews will be given at the College of Medicine on stated dates. Inquiries should be made of the pre-medical advisers at Lincoln or of the Assistant Registrar of the College of Medicine regarding 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 will not be 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.

Advanced Standing.—Application for admission to the second or third year medical classes will be considered only from students attending medical schools approved by the Council on Medical Education and Hospitals of the American Medical Association and only if a vacancy exists. An applicant for admission to advanced standing must follow the regular application procedure 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. He must also present a letter of honorable dismissal from the dean of the medical school last attended. 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.

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.

HONORS PROGRAM

Students of exceptional ability may be chosen in the spring of each year by the Honors Committee from recommendations submitted by the several departments with the approval of the Dean. These freshman, sophomore, and junior students will be offered the opportunity to select a faculty adviser and pursue a special course of study in the succeeding year.

Honors students are relieved of regular classroom assignments on their request in order to pursue selected subject areas in depth and acquire a broad and comprehensive knowledge of medical science through an individual curriculum.

GENERAL CONSIDERATIONS IN PLANNING A MEDICAL EDUCATION

The educational program leading to the degree of Doctor of Medicine begins before the student enters medical school. The content and quality of his professional training are vital. It is essential that the student and his advisers have a clear understanding of the objectives which are sought.

The course of study in the College of Medicine is designed to produce an unspecialized physician, soundly grounded in modern science, who, after a variable period of postgraduate education and training, is competent to enter his chosen field of medicine. In broad scope, medical education has three end products. The first, in terms of numbers, is the practicing physician. In addition, the medical investigator and the medical teacher are products of the same educational process. All three are essential to the growth and application of knowledge in the field of medicine. Two of these, the practicing physician and the medical teacher, must be capable both of practicing an art and of applying the natural sciences to medicine. Furthermore, relatively few medical investigators will do research without some responsibility in the teaching or practice of medi-
cine. The Doctor of Medicine, whether he embodies one or all three of these products, deals with people as individuals and as a society. The art of applying scientific methods in the preservation of health and in the treatment of the ill requires that the physician not only be well trained in these methods but also well aware of their limitations.

The growing complexity of our society makes it increasingly necessary that the physician be well founded in the humanities which put him in touch with his society, not only to recognize health needs and to be informed of available facilities, but also to gain an understanding and compassion which are basic to the art of healing. The rapid development of medicine as an applied science, requiring quantitative precision and analytical reasoning in diagnostic and therapeutic procedures, is also placing an increasing premium upon excellence of preparation in these areas. The minimum educational requirements of the past are no longer adequate.

While it should be recognized that there is almost no knowledge or experience which cannot be of value to one preparing for the practice of medicine, it is very clear that the optimum use of one's time in such preparation can be realized only when wise choices are made on the basis of relative value. With time at a premium, the fact that there are directions of emphasis which are definitely more helpful than others is reason enough for listing recommendations for admission to the College of Medicine. This is only a beginning, however, and many choices of electives must be made in high school and college to complete a good preparation for the study of medicine. Recommendations here are intended not to exclude any field of major interest but rather to point to areas in which the limited available time can be spent most advantageously. Not only is the area of study to be considered but also the academic level. When more than one course in the same subject is offered, the student is strongly advised to choose the more substantial rather than the more elementary course. Occasionally, a choice for a given course is wisely made on the basis of the excellent quality of instruction and the depth of scholarship involved irrespective of the area of study.

The following specific educational recommendations have been chosen in recognition of the fact that medicine is progressively becoming more of a quantitative science and less of an empirical art; to follow adequately and to use these current developments the student must be facile with quantitative and analytical methods. However, the physician still must minister to the needs of the whole patient, and he must be prepared to assume an important role in his society. Thus it is imperative that the student acquire a sufficiently broad experience to meet these demands.

SPECIFIC EDUCATIONAL RECOMMENDATIONS

High School.—This should be a strong college preparatory course. It is recommended that the student complete two years of study in a foreign language, four years of English, and as much mathematics and science as possible.

College or University.—A minimum of 90 semester hours (three years of college work) in an accredited college is normally required. In exceptional circumstances, 60 semester hours may be accepted. To provide an opportunity for scholarship in depth, the completion of a college major is strongly recommended. The completion of a bachelor's degree is desirable. In most instances, preparation for medical school can best be achieved by including the following courses:
CHEMISTRY

The recommendation is for two semesters of general or inorganic chemistry, (analytical chemistry may serve as part of this requirement) and a two-semester, complete course in organic chemistry.

BIOLOGY

Unless biology is chosen as the college major, additional electives in this field which may significantly duplicate courses given in medical school are less advantageous to the student than other electives.

PHYSICS

This should include a complete course in physics. The student should register for the course which is commensurate with his mathematical background if more than one is available.

ENGLISH

This must include at least one year of composition.

MATHEMATICS

This should include material through introductory calculus. Familiarity with statistics and with the principles of computers is desirable. If advanced mathematics has been completed through four years in high school, this college recommendation may be modified.

FOREIGN LANGUAGE

Although no college foreign language is required, this is considered a valuable elective. Also, it should be understood that this is required by the College of Arts and Sciences of the University of Nebraska, as well as by most other colleges, for the bachelor's degree. It is also required for the degree of Doctor of Philosophy and should be anticipated by any student who is considering graduate work.

ELECTIVES

The student is urged to select courses from the general field of the humanities and behavioral sciences and not to limit his training to the above scientific subjects.

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 specifically offered in the medical college cannot be used in satisfying admission requirements.

A student applying to the College of Medicine should have a grade average of at least B in all the required science courses. The grade of B is based upon the grading system of the University of Nebraska. The equivalent in other grading systems will be determined by the Assistant Registrar, College of Medicine, 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.

REGISTRATION AND ADMISSION TO CLASSES

When an applicant receives notice that he has been accepted for entrance to the College of Medicine, he is required to send a deposit of $25. This is applied as part payment of the tuition fee for the first semester or is forfeited if the applicant fails to register in the class for which he was accepted.

Students eligible for Veterans Administration benefits must submit on day of registration a Certificate of Education and Training (VA 22-5496 and VA 22-5499) approved for a program with the objective of Doctor of Medicine degree, indicating the University of Nebraska College of Medicine as place of training.

Registration is accomplished on the day indicated in the official calendar. 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 considered as a reregistration. No work done in the College of Medicine may be credited 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.

**Class Standing and Promotion.**—The standing of a student in any course is determined by the instructors in charge of the subject, by examinations, by personal observation and by other methods of evaluation. Grades given are A, B, C, D, and F. A grade of C is passing. A grade of D is unacceptable in any course.

Any course which, for good reason, has not been completed, but in which progress has been satisfactory, may be reported as “incomplete.” A student may not register for either the sophomore or the junior year with an existing incomplete still on his record. A senior student must remove any incomplete, acquired during the third year, by the middle of the senior year.

**Failure.**—Failure is recorded if a grade below C is received.

A student in the first or second year of medical studies who fails only one course, if other course grades are satisfactory, may repeat that course in a summer school session provided the course for which he plans to register is approved by the department in which failure occurred.

Any student who fails more than one subject in any academic year may petition the Admissions and Scholastic Standing Committee to be permitted to repeat the entire year or to repeat only those courses in which failure occurred.

Any student who is reported to be failing in half or more of the course hours of the academic year in which he or she is registered may be asked to withdraw, if in the judgment of the course instructors and of the Scholastic Standing Committee continuation would appear to be ill advised. Student discipline will remain unchanged.

A student who has failed twice here or elsewhere in the same subject is not eligible for registration in that subject at this college.

**Comprehensive Examinations.**—Students who are completing the sophomore year will be required to take National Board Part I Examinations. Eligibility to enter the third year will be determined on the basis of the student’s average grades in the first and second years, and his performance on National Board Part I Examinations.

Part of the evaluation of students completing the fourth or senior year is a comprehensive examination. Part of the senior comprehensives usually include National Board Part II Examinations.

**Student Discipline.**—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 for 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 during 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 executive faculty may select not more than five students from the top 10 per cent of the graduating class and recommend them for the degree of Doctor of Medicine with Distinction.

The executive faculty may also select not more than two students from the top 10 per cent of the graduating class who have shown outstanding scholarship or who have made an outstanding contribution to medical science and recommend them for the degree of Doctor of Medicine with High Distinction.

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;
2. Completing two minors or one major;
3. Using the subjects of the first year of the medical course as a major, all of which must be completed satisfactorily.

Both of these degrees are conferred by the College of Arts and Sciences at a Commencement on the Lincoln campus.

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.

Courses Leading to the Degree of Bachelor of Science in Medicine.—Only students presenting premedical college credits of high standard and
who have satisfactorily completed all courses of 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 annual fee of $650. Nonresident students will be charged a single annual fee of $1300. Adjustments may be made in the case of students carrying less than the full student load. One-half of the tuition is due at registration, the balance on January 30.

The annual 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 the 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. A refund schedule is available at the Finance Office.

**Miscellaneous Fees.**—Candidates for a degree to be awarded at public exercises shall be present at such exercises, except as herein provided. A candidate must make application and show just cause in order to obtain the necessary faculty recommendation to receive a degree in absentia. Candidates to whom diplomas or certificates are awarded in absentia shall pay a special fee of $10. The following fees are not included in the schedule listed above:

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Late registration</td>
<td>$3.00*</td>
</tr>
<tr>
<td>Transcript—one copy furnished free</td>
<td>1.00</td>
</tr>
<tr>
<td>Each additional original</td>
<td>5.00</td>
</tr>
<tr>
<td>Degree in absentia</td>
<td>10.00</td>
</tr>
<tr>
<td>Special examination, each course</td>
<td>5.00</td>
</tr>
<tr>
<td>Photostatic copy of diploma, 2 copies</td>
<td>1.00</td>
</tr>
<tr>
<td>Cap and gown rental fee—amount fluctuates</td>
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**Expenses.**—Board can be obtained in the vicinity of the College campus at a cost of approximately $20 to $25 a week and comfortable rooms for about $40 a month. Students rooming together can obtain comfortable rooming quarters at slightly less than this amount. One hundred twenty-five to one hundred fifty dollars a year should be allowed for books and instruments. The average expense of the student for a school year, including board and room, books, instruments (exclusive of microscope and other special equipment) and all fees is between $2200 and $2500.

**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

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* Fees are subject to change.
**This charge is made to all students paying during the first week following the date the tuition installment falls due. An additional charge of $1.00 is made for each additional week after the first week of late registration.
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 amounts 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.

**Housing.**—Although the College of Medicine has no on-campus housing for medical students, the Assistant Registrar's Office maintains listings of rooms, apartments, duplexes, and houses reported available.

**Nonresident Students.**—According to Nebraska law, any student whose residence is not Nebraska is required to pay the nonresident fee.

A student's right to classification as a resident for purposes of registration in a state educational institution must be determined under the provisions of Nebraska Revised Statutes of 1943, Sec. 85-502 (R. S. Supp., 1965).

Any student who has been classified as a nonresident student who believes he can qualify as a resident may secure from the University Comptroller a residency application form and, when it is properly filled out, file such form with the Comptroller for review and ruling. The form must be filed in the Office of the Comptroller before the end of the ninth week of the term for which the tuition fee was charged.

The exact wording of the state law on residency is given on the application form.

**Microscopes.**—Students are required to provide suitable microscopes for their own use. Inquiries regarding specifications for microscopes as recommended by the faculty should be addressed to the Assistant Registrar, College of Medicine.

**SCHOOL OF NURSING**

The School of Nursing, which is a part of the College of Medicine, affords four years of professional education. The immediate administration of the School of Nursing is provided through the director and the faculty. The program of instruction is given by the faculties of the University of Nebraska which include the College of Arts and Sciences, the College of Medicine, and the School of Nursing. Students are admitted as candidates for the degree of Bachelor of Science in Nursing. The School of Nursing Building on the College of Medicine campus provides residence and educational facilities for the student nurses. Requests for bulletins and application blanks should be made to the Director, School of Nursing.

**GRADUATE WORK**

Graduate course work in the field of the Medical Sciences is offered in eleven departments: Anatomy, Biochemistry, Internal Medicine, Microbiology, Neurology and Psychiatry, Obstetrics and Gynecology, Orthopedic Surgery, Pathology, Pediatrics, Physiology and Pharmacology, and Radiology. Four of these departments (Anatomy, Biochemistry, Microbiology, Physiology and Pharmacology) offer independent majors leading to the master's degree or to the Ph.D. degree. Three additional departments (Neurology and Psychiatry, Pathology, and Radiology) offer independent majors leading to the master's degree only. The eleven departments also cooperate in offering an interdepartmental area program which permits the student to pursue a course of study for the master's
or the Ph.D. degree with concentration in the medical sciences rather than in a specific department.

The requirements for admission to an independent department are as follows: An applicant for admission for work leading to an advanced degree with specialization in a department of the pre-clinical medical sciences (Anatomy, Biochemistry, Microbiology, Pathology, Physiology and Pharmacology, and Radiology) must comply with the rules governing admission to the Graduate College, and also with any specialized rules governing admission for study in the department in which he expects to major. In general the applicant will, therefore, need to present a Bachelor of Science or a Bachelor of Arts degree from a recognized college or university including undergraduate preparation constituting an acceptable major in the department in which he expects to carry his work.

Admission for graduate work leading to the Master of Science or Doctor of Philosophy degrees under the interdepartmental area program may be granted to students from any of the following categories:

1. Students with Bachelor of Science or Bachelor of Arts degrees from recognized colleges or universities who have received satisfactory grades in the regular medical courses in Micro-anatomy, Biochemistry, Introductory Physiology, and Microbiology or who attain an acceptable grade in a qualifying examination in 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 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 acceptable grades in their courses or passed a qualifying examination in basic medical sciences.

For admission for work in the Department of Neurology and Psychiatry, leading to the degree of Master in Psychiatric Nursing, a student must have completed an approved professional program in nursing with a bachelor's degree from a recognized college or university. As a prerequisite to admission for work leading to the degree of Master in Psychiatric Occupational Therapy, a student must have been graduated from an accredited school of occupational therapy and hold a bachelor's degree from a school or college of recognized standing. For either degree program acceptable evidence will also need to be submitted on the student's personal qualifications for psychiatric nursing or for psychiatric occupational therapy, respectively.

A student registering for graduate work in the medical sciences must comply with the general requirements of the Graduate College and with any special rules established by the graduate committee of his major department, or if the major is in medical sciences, by the interdepartmental area committee. Certain special rules which are applicable to all students in the medical sciences regardless of the major are set forth in the paragraphs which follow. Other rules which pertain to the work in specific departments or in the interdepartmental area are indicated under the headings designating the respective departments.

Graduate students who are admitted with deficiencies in the medical sciences may, by permission of the appropriate graduate or area com-
mittee 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 the passing of qualifying examinations, make application to the appropriate graduate or area committee for graduate credit in certain medical courses successfully completed. The graduate or area 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.

Graduate students may be required to attain proficiency in their field of concentration by participating 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 B may not continue his program of study without the special permission of the appropriate graduate or area committee.

A student who wishes to become a candidate for an advanced degree with concentration in the medical sciences must select work in the departments which have been approved to offer graduate work. He may elect to do his thesis research in any one of the eleven cooperating departments. The distribution of graduate work shall be such that not more than two-thirds of the total program, including thesis research, shall be in the major field of study, with a remainder in at least one other department for candidates for the master's degree, and two other departments for candidates for the degree of Doctor of Philosophy.

Candidates who select one of the preclinical departments for their thesis research may come from any of the four categories (for admission) listed on page 29. They may select other departments for additional work.

Candidates who select one of the clinical departments for their thesis research must have qualified for admission through Category 2, page 29. They must select preclinical departments for additional work. Such students may be required to serve as residents for one year before being admitted to the Graduate College. While fulfilling their minor (preclinical) requirements, these candidates must be assigned to the minor department or departments during at least one-third of the total hour requirement for the degree sought.

Candidates electing to work in the interdepartmental area will do their work under the supervision of the area committee: Professors Gibbs, Chairman, Grissom, Holyoke, Hunt, Jacobi, McPadden, McIntyre, McWhorter, Musselman, Pearse, and Strough; Associate Professor Waters.

GRADUATE FEES

All students who are legal residents of Nebraska and who carry a full schedule (12 or more hours) in any quarter will pay a fee of $111.33 per quarter. Nonresident students will be charged a fee of $286.67 each quarter. The single fee includes—in addition to course charges—registration, library, diploma, and Student Health fees. For additional miscellaneous fees, consult the Bulletin of the Graduate College.

A resident student who originally registers for less than 12 quarter hours will be charged one-twelfth of $111.33 for each quarter hour registered up to and—if courses are added later—including the twelfth quarter hour. 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 one-twelfth of $286.67 for each quarter hour registered up to and—if courses are added later—including the twelfth quarter hour as well as the $2.50 change-of-registration fee for each change of registration.

For thesis publication and binding fees, consult the Librarian of the College of Medicine before starting thesis.

Teaching and ResearchAssistantships.—A graduate student holding an appointment as a teaching or research assistant during a quarter or summer session is required to pay resident tuition and fees. If the stipend received by an assistant for an academic year (three quarters) is equal to at least the maximum fee for all four quarters ($1,147.00), he will pay only the required special 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 $24.67 for a registration of 12 or more hours during a quarter. If an assistant is registered for less than 12 hours during a quarter, he pays only one-twelfth of $24.67 for each hour registered up to and—if courses are added later—including the twelfth quarter hour.

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 Regents Tuition Fellowships are required to pay only the required special fee of $24.67 for each quarter.

GRADUATE REGISTRATION

Registration will be accomplished during the early part of each quarter in consultation with the chairman of the different departments in which the graduate work will be carried on.

UNIVERSITY STAFF EXEMPTION

Members of the academic-administrative staff employed full time may be permitted to register for not more than 6 credit hours per quarter in not more than two courses, for which the charge is $1 plus a $5 matriculation fee. All such registrations must carry the signed approval of the chairman of the department and the dean or director of the college, school, or division in which the staff member is employed during the period for which he is registered.

Academic-administrative staff members of the University employed by the Nebraska Psychiatric Institute are eligible for this staff exemption.

CONTINUING EDUCATION

Continuing education is offered to practicing physicians, nurses, and ancillary medical groups. Approximately twenty courses, provided as a cooperative project by the College of Medicine and the University Extension Division, are given each year.

Well-known authorities from throughout the country and from our own faculty take part in these courses, each of which is announced by mail to those interested at least one month prior to the course date.

Further information can be obtained by writing to the Director, Office of Continuing Education, College of Medicine, 42nd Street and Dewey Avenue, Omaha 68105.
FELLOWSHIPS AND GRADUATE ASSISTANTSHIPS

Fellowships are available to students who qualify for graduate study and research in the medical sciences. There are also part-time medical student fellowships from several sources including federal agencies, industry, and national as well as local health associations. These are designed to provide summer or part-time employment which includes research experience. Application for full fellowships should be made to the chairman of the department in which the student wishes to work. Application for summer fellowships should be made to the Chairman of the Committee on Scholarships and Awards. Graduate assistantships are available to students of exceptional ability to give them opportunity to do research in the medical sciences and fulfill the requirements for a Master of Science or Doctor of Philosophy degree.

The C. W. M. Poynter Foundation Fellowship.—A fellowship under the sponsorship of the Poynter Foundation provides a stipend of $2,000 for a period of ten months, during which time the recipient will be expected to devote his entire time to research in the Department of Anatomy. Appointment is made by the chairman of the Department. 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.

SCHOLARSHIPS

Alpha Kappa Kappa Alumni Association Scholarship.—An annual grant of $200 is awarded to a scholastically worthy and deserving student who is recommended by the Dean and approved by the Loan Committee of the Nebraska Medical Education Fund.

The George E. Lewis, Sr., Fund.—Through the generosity of Dr. George E. Lewis, Jr., funds for one or more scholarships for freshman or sophomore students are made available as a memorial to his father. These scholarships are awarded by a committee composed of the Dean and four appointees. Application should be made to the Dean.

The University of Nebraska Upperclass Regents Scholarships.—A limited number of scholarships are made available annually by the Board of Regents to be awarded to sophomore, junior, and senior medical students on the basis of high scholarship. Application should be directed to the Dean.

Donald Walters Miller Scholarship.—Upon recommendation of the Dean, a medical or graduate student may compete for one of three or four $1000 scholarships made available annually by Mrs. Donald Walters Miller of Lincoln. These are awarded to students throughout the University on the basis of scholastic ability, educational and professional objectives, character, temperament, and financial need. A special University committee makes the award each spring.

Nu Sigma Nu Alumni Association Scholarship.—An annual grant of $100 is awarded to a deserving student who is recommended by the Dean and approved by the Loan Committee of the Nebraska Medical Education Fund.

The following scholarships and fellowships are awarded on the basis of recommendation to the Dean by the Medical College Committee on Scholarships and Awards:

Jetur Riggs Conkling and Jennie Hanscom Conkling Foundation.—The
will of the late Clementine C. Conkling provides for the creation of a trust to be known as the “Jetur Riggs Conkling and Jennie Hanscom Conkling Foundation,” the income of which 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.

**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 on the basis of scholastic attainment, character and promise.

**Faculty Woman’s Club Scholarship.**—An award of $150 is made annually to the most worthy woman medical student finishing the first year.

**Avalon Foundation Scholarships.**—The Avalon Foundation grant to the College, made in August 1961, permits the granting of part or full tuition scholarships to scholastically worthy students in need. These scholarships will be granted in collaboration with the Student Assistance Committee.

**Pfizer Laboratories Medical Scholarship.**—For several years a scholarship has been made available annually to a particularly deserving student.

**Dr. Ernest Tibbetts Manning Memorial.**—The award is to be given to an undergraduate who has declared the intention to specialize in the field of public health, pathology, or preventive medicine, who has completed the freshman and sophomore years with a proper degree of excellence, who shows promise of future success, and is in need of financial assistance.

**University of Nebraska College of Medicine Alumni Association Scholarships.**—The Alumni Association of the College of Medicine makes available three tuition scholarships to be awarded to outstanding members of each entering class.

**Dr. H. Winnett Orr Memorial Fund.**—The income accruing to this fund is used in support of scholarships designed to aid in the payment of tuition for a freshman medical student. The recipients of the scholarship must have completed their premedic courses at the University of Nebraska and shown outstanding scholastic ability. They must show promise of success in their chosen field and be in need of financial assistance.

**LOANS**

There are a number of funds available to the University of Nebraska College of Medicine from which money can be lent to deserving students who are in need of financial assistance. Generally they are reserved for students who have established themselves as able and worthy during the completion of at least the first year in medical school.

Applications for loans from any of these funds should be made to the Student Assistance Committee on forms which are available in the Registrar’s office.

Ordinarily the Student Assistance Committee will accept applications during a period ending about one month before the dates on which payment of tuition is required. The exact dates will be posted at the College well in advance. Students who foresee the need of financial assistance should have submitted applications by these dates. Except under extreme and unusual emergencies, applications which fail to meet the deadline will be held for review until the next posted date.

**Health Professions Student Loan Program.**—Funds are provided on a
matching basis by the University of Nebraska and the federal government. The program allows a student to borrow a maximum of $2,000 per academic year. Awards are made on the basis of financial need. Students do not begin repayment of their loans until three years after they cease to be full time students. Application should be made to the University of Nebraska Scholarships and Financial Aids Office, 205 Administration Building, Lincoln. The filing deadline is March 1 prior to the academic year in which the loan is desired.

The College of Medicine Alumni Association Student Loan and Scholarship Fund.—On July 15, 1958, a fund was established by the University of Nebraska College of Medicine Alumni Association and placed in the custody of the University of Nebraska Foundation to provide loans or scholarships to students registered or accepted for admission in the College of Medicine. Applications for loans on this fund are received by the Student Assistance Committee.

Students enrolled in the College of Medicine may also receive loans through the Nebraska Medical Foundation and the Nebraska Medical Education Fund, Inc. The Student Assistance Committee can supply information on either of these sources.

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. Loans from this fund are available to students of the College of Medicine and the School of Nursing.

The Faculty Woman’s Club of the University of Nebraska College of Medicine Student Loan Fund.—This fund was established in 1956. Money is assigned to it from operation of the students exchange shop. The fund is administered by the University of Nebraska Foundation under conditions which apply to loans from other funds.

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.

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 gave $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.

Robert H. Storz Student Loan Fund.—This fund was established by Storz Brewing Company in 1952 with a sum of $1,500 to be paid to the University of Nebraska annually. The fund was established to provide loans to students in the College of Medicine who are in need of assistance.

Dr. Carl P. Wagner Memorial Medical Student Loan Fund.—The sum of $500 was given 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.

**Dr. and Mrs. J. D. Thomas Medical Student Loan Fund.**—This fund is available for loans to students who are in good standing and who are native born Nebraskans. Application blanks are obtained from the Registrar and must be signed by the Dean of the College of Medicine, the Chancellor of the University and the President of the Nebraska State Medical Association.

**Scottish Rite Loan Fund.**—A fund has been established with the University of Nebraska Foundation from which needy medical students may borrow up to $600 per academic year. Application should be made through the Student Assistance Committee.

**Nebraska Medical Education Fund, Inc.**—A group of local physicians and alumni of the University of Nebraska College of Medicine has established a fund to assist medical students, nursing students, interns, and residents. Students in need of assistance may borrow up to $1,500 per academic year from this fund. Application should be made to the Student Assistance Committee at the College of Medicine.

**The American Medical Association Education and Research Foundation (AMA-ERF)** program permits qualified students to borrow a maximum of $1,500 per year at essentially prime interest. The Foundation acts as guarantor for borrowers from this source. Applications are available in the Registrar’s Office.

**The Nebraska State Medical Association** has invested funds in a loan program. This program is known as the Nebraska Medical Foundation. This, like the above, is a loan guarantee program which makes loans which may total not more than $1,500 during a twelve month period. Applications are available in the Registrar’s office. Completed forms must be approved by the Dean or his designee.

**AWARD**

**University of Nebraska College of Medicine Alumni Association Award.**—An award of $50 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 can 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. Activities include sponsorship of class reunions, luncheons, dinners and the traditional senior reception following Commencement each year. A monthly news bulletin is sent to members. 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 nonsecret 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 "Pre-Med Day" and a series of convocations held regularly throughout the school year. Membership closely approaches one hundred per cent of the student body.

**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 is the central and largest unit of the group of buildings comprising the College of Medicine. This location makes possible close correlation of basic science, library, outpatient and hospital patient teaching.

The hospital proper contains 172 beds and thirty-eight bassinets, with an additional ninety-one psychiatric beds at the Nebraska Psychiatric Institute. Additional teaching beds are provided at the affiliated hospitals (see below). Medical and surgical patients are admitted from all outstate counties on referral from physicians, while obstetric, gynecologic, pediatric and psychiatric patients are accepted from Omaha and Douglas County as well as outstate.

The main College and Hospital entrance faces 44th Street. College administrative offices are on level three above the main lobby. Hospital administrative offices are on level three on the 42nd Street side of the building complex.

The control of the University Hospital is vested in the Board of Regents of the University and exercised through the Dean of the College of Medicine.

**OUTPATIENT FACILITIES**

Separate outpatient clinics are located in the newer area of the University Hospital building for dermatology, ophthalmology, otorhinolaryngology, obstetrics and gynecology, pediatrics, internal medicine, surgery, urology,
orthopedic surgery, and neurology. Psychiatry clinics are conducted at the Nebraska Psychiatric Institute. The wide diversity of disease processes and preventive care provide many teaching opportunities for students under supervision of the clinical staff.

**AFFILIATED HOSPITALS**

Bishop Clarkson, Children’s Medical Center, Immanuel, Methodist, Douglas County, and Veterans Administration hospitals in Omaha, and Bryan Memorial and Lincoln General Hospitals in Lincoln, provide over 2000 additional beds available for student education. Members of the College of Medicine Faculty are on the staff of all these hospitals.

**POSTGRADUATE PROGRAMS**

Graduates of the College of Medicine are afforded a wide selection of internships in the University and affiliated hospitals as well as in other states. Eighteen internships mixed—rotating, and general practice—as well as thirty-four first year residency positions, are available at the University Hospital and Nebraska Psychiatric Institute.

**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 is located in South Building and occupies levels two and three which have been completely renovated recently into modern air-conditioned laboratories and offices. Level two is devoted exclusively to a student laboratory and supporting facilities for medical biochemistry. The student laboratory can accommodate over 100 students and is subdivided into five independent sections, an arrangement which avoids the turmoil of the large laboratory and allows for small-group teaching and a research-oriented laboratory curriculum.

Level three houses offices, research laboratories, and supporting facilities for faculty. Each faculty member occupies an office-laboratory suite. Additional research laboratories for graduate and special students are available, together with laboratories for studies with radioisotopes and other special instrumentation. Supporting facilities include a cold room, walk-in incubator, darkrooms, shop, glass-washing facility, storage areas, and library-conference room. The department possesses all of the modern tools for biochemical research and pursues an active research program.

Animal research quarters for the department are located in the penthouse of South Building and in the nearby Memorial Research Laboratory building.

**Medical Microbiology.**—This department occupies the first and second floors of the North Laboratory Building and shares student laboratory space with the Department of Pathology. There are excellent facilities for support of the teaching exercises and for support of the active research and graduate programs carried out by the faculty of the department. The Diagnostic Microbiology Laboratory in the University of Ne-
braska Hospital and Clinics provides material useful in the class teaching exercises. An extensive collection of colored lantern slides, specimens, and charts is available.

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 8,500 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.

Physiology and Pharmacology.—Experimental physiology and pharmacology occupies the fourth, fifth, and sixth floors of the South Laboratory Building. Laboratory exercises of the medical students are carried out on part of the fourth floor, and research work for graduate students in the remainder of the space. The main laboratories accommodate forty-four students in each section, with separate tables and lockers for each group of students. In a separate mammalian laboratory students work in groups of five.

There are special rooms for specialized research instruments, including space provided for an ultracentrifuge and for spectrophotometric work. The laboratory is fully equipped with electronic equipment for research and electrophysiology, including electromyography, electrocardiology and electroencephalography. There is advanced equipment for research in endocrinology such as refrigerated centrifuges, counter current, and gas chromatography apparatus. Cold rooms are provided. In addition there is a well-equipped workshop for the construction and repair of a wide variety of apparatus.

Museum.—The pathological museum of the College of Medicine contains about 3,500 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.—Classes are held in the North Laboratory Building utilizing the same student laboratory facilities on the second floor as those assigned to Medical Microbiology and General Pathology. A comprehensive hematology loan set is issued to each pair of students for their study throughout the course. Adequate additional collections of hematology slides, photomicrographs, and laboratory equipment are also provided. The clinical laboratory facilities of the University Hospital are available as a source of teaching material and demonstration.

LIBRARY FACILITIES

The college library is located in the Hospital building within easy access of the various laboratories and stands as a vital common interest to the laboratory and clinical branches of medical instruction. The reading room, seating eighty, furnishes a congenial place for students, faculty, and staff to work. Half of the 1,500 current journals received are shelved in this room. The book stacks are directly below on two levels and contain 150,000 bound volumes, theses, and monographs. 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 basic sciences in English and foreign
SUMMARY OF DEPARTMENTAL HOURS

SUMMARY OF DEPARTMENTAL HOURS

languages as well. Here the student has access to one of the most complete medical libraries in the Midwest. It offers abundant opportunities for research and additional reading and study. First year and third 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 half million volumes at their disposal. Through close cooperation with other medical libraries it is possible for the Librarian to secure inter-library loan material from other libraries, including the Center for Research Libraries in Chicago and the National Library of Medicine in Bethesda, Maryland.

SUMMARY OF DEPARTMENTAL HOURS

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<th>Department</th>
<th>Clock Hours</th>
<th>Total Clock Hours</th>
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<td><strong>ANATOMY</strong></td>
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<td>310 Gross Anatomy</td>
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<td>624</td>
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<td>311 Embryology-Histology</td>
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<td>312 Neuro-Anatomy</td>
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<td><strong>CORRELATION COURSES</strong></td>
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<td>320 Introduction to Clinical Medicine</td>
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<td><strong>DERMATOLOGY</strong></td>
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<td>320 History Taking, Physical Diagnosis, Correlation</td>
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<td>330 Principles of Internal Medicine</td>
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<td>310 Normal Personality Development</td>
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<td>320 Basic Psychiatry</td>
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<td>320 Reproductive Biology</td>
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### Ophthalmology

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### Orthopedic Surgery

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<tbody>
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<td>330 Diseases of Bones and Joints</td>
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<tr>
<td>332 Fractures, Dislocations and Sprains</td>
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### Otorhinolaryngology

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<td>330 Diseases of Ear, Nose, Throat and Larynx</td>
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<td>340 Dispensary</td>
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### Pathology

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<td>332 Clinical Pathology Conference</td>
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### Pediatrics

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### Physical Medicine and Rehabilitation

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### Physiology and Pharmacology

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<td>310 General Introductory Course</td>
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<tr>
<td>311 Laboratory Course</td>
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<tr>
<td>322 Lectures and Demonstrations</td>
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### Preventive Medicine

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<td>310 Accident Problems and Field Emergency Care</td>
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<tr>
<td>320 Principles of Preventive Medicine</td>
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<td>330 Clerkship in Preventive Medicine</td>
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### Radiology

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### Surgery

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<tr>
<td>330 Fundamentals of Surgery</td>
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<tr>
<td>332 Neuro-Surgery</td>
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<td>337 Anesthesiology</td>
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### Urology

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<tr>
<td>Ward Clinics (included in Surgery Clerkship)</td>
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### Freshman Year

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### Sophomore Year

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### Junior Year

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### Senior Year

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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 Holyoke, Chairman, Benjamin, Elliott; Associate Professor Meader; Assistant Professors Bach, Eisen, Gardner, Pederson, Reynolds, Rigby; Associate Cochran; Instructor Shervey; Assistant Rees; Demonstrator Rath; Emeriti Latta, Willard.

In this department instruction is given in gross, microscopic, and developmental anatomy including gross and microscopic anatomy of the nervous system. 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 to six, 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 hrs 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 laboratory study into functional systems applicable to later physiological and clinical studies. (6 qtr hrs credit for graduate work.)

350. General and Special Methods in Histological Technique (3-8 qtr hrs) Benjamin, Holyoke, Latta, Meader
Prereq Anat 311
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) Benjamin, Latta
Prereq Anat 350
Advanced special technical methods of demonstrating the histological structure of nervous tissue and of the experimental approaches to neurological problems.

352. Techniques of Histochecmistry (3-8 qtr hrs) Jacobi, Latta, Meader
Prereq Anat 350
Development of methods for demonstrating various chemical features in tissues of the body.
353. Morphological and Experimental Hematology (4-9 qtr hrs) Holyoke, Latta, Rigby
Prereq Anat 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) Benjamin, Latta, Meader, Pederson
Prereq Anat 350
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) Holyoke, Latta
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) Benjamin, Elliott
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) Latta, Meader, Pederson
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) Holyoke, Latta, Pederson
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.

361. Advanced Gross Anatomy (3-10 qtr hrs) Bach, Holyoke
Prereq Anat 310, 311, 312
Studies of general and special gross dissection of the human body.

362. Techniques of Electron Microscopy (5 qtr hrs) Latta, Meader
Prereq Anat 311
Instruction in the general theory, and practice in the operation of the electron microscope, including special methods involved in the fixation, embedding, sectioning and mounting of specimens.

363. Selected Problems in Electron Microscopy (5-10 qtr hrs) Holyoke, Latta, Meader
Prereq Anat 362
Special problems will be selected involving the ultrastructure of organelles within cells, of plasma membranes, interrelationships between cells or the characteristics of intercellular substances as revealed by the electron microscope.

Biochemistry

Professors Jacobi, Chairman, Carver, Harman, Lambooy; Associate Professors Beber, H. Davis, Goldsmith, W. Ryan, Wilder; Assistant Professors Barak, Copenhagen, A. Dunn, Faulkner, Hofert, Kadis; Instructor Eskelson; Emeritus Morgulis.

The courses in Biochemistry 310 and 340 aim to acquaint students with the basic facts of the science, particularly as these relate to an understanding of disease states. Moreover, biochemical aberrations in disease states are introduced to aid in the understanding of normal reactions and mechanisms.

The instruction offered in these courses is supplemented with more advanced and specialized courses (350-371, inclusive) for students who are candidates for the M.S. or Ph.D. degree; and for other students, such as hospital residents, desiring advanced training in medical biochemistry independently of the requirements for a degree.

310. Medical Biochemistry (Total 264 hrs II, III) (14 qtr hrs credit for graduate work except for those completing a graduate major in biochemistry.) Jacobi and Staff
The descriptive and dynamic aspects of biochemistry with special reference to the human are presented. Physio-chemical principles are reviewed and applied
to understanding normal physiological processes and their derangements in disease. 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 further 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.

331. Bio-Medical Measurements (Internal Medicine 331, Physiology and Pharmacology 331) (May carry graduate or up to 5 qtr hrs or 3 sem hrs for students who are candidates for the M.S. degree with a major in a physical science or in engineering) Bennett, Dunn, Grissom, Jacobi, McIntyre, and Staff

By permission: Lectures and lecture conference and demonstrations: The course aims to utilize the training of the student in physics, mathematics, and electronics for a direct approach to cellular physiology and chemistry for the purpose of study of methods of measurement with emphasis upon electronic techniques.


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. Subjects as acid-base balance, water and electrolytic 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.

350. Biochemistry of Disease (3-9 qtr hrs) Beber, Harmon, Jacobi

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) Lambooy, 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) Barak, Copenhaver

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) Lambooy, 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) Jacobi, Kadis, Ryan

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) C. R. Angle, Jacobi

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) Carver, 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) 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) Carver, Ryan
*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. Physical Biochemistry (3-9 qtr hrs) Davis
*Prereq Biochem 310 and Chem 217 or equivalent*

Purely physical phenomena will be reviewed and applied to the interpretation of biological systems. In particular, the course will emphasize the view that colloidal phenomena are concerned in the functioning of all living systems. Colloidal aspects of proteins, lipids, carbohydrates, blood, bone, muscle, nerve, etc., will be scrutinized.

361. Lipids (3-9 qtr hrs) Davis, Goldsmith
*Prereq Biochem 310*

Studies of chemical and physical properties of lipids; methods for isolation and analysis; physiology and metabolism; role of lipids in biological structure; and clinical applications involving lipid metabolism are presented.

362. Endocrinology of the Sex Hormones (Obstetrics and Gynecology 355) (3-5 qtr hrs) Wilder
*Prereq Biochem 310 or equivalent*

Designed to acquaint the student with the chemistry and metabolism of the estrogens, androgens, progestational substances and gonadotropins. As needed, essential information on adrenal hormones will be included.

363. Topics in Advanced Organic Chemistry Kadis
A. Chemical Bonding and Molecular Structure (3 qtr hr cr)
B. Organic Reaction Mechanisms (3 qtr hr cr)
C. Qualitative Organic Analysis (3 qtr hr cr)

364. Neurochemistry (Neurology and Psychiatry 358) (3-9 qtr hr cr) Carver

A basic course in particular aspects of the chemistry of the central nervous system. The material will cover survey lectures of the anatomy of the brain, followed by discussions of subcellular units, metabolic compartments, the regional distribution of chemical components, regional nutrition and metabolism, axonal flow and neurosecretion, biogenic amines, chemistry and function of neural units, and the biochemistry of convulsive disorders.

365. Biochemistry of the Gastrointestinal Tract (5 qtr hrs) Goldsmith
*Prereq Biochem 310 or equivalent*

Biochemical aspects of gastrointestinal function are considered in detail. Topics to be reviewed include gastrointestinal enzymes and digestion, mechanisms of absorption of nutrients and drugs, processes of secretion, formation and composition of gastrointestinal gases, chemistry of mucin and bile, gastrointestinal hormones, and nondigestive functions of the gastrointestinal tract. Emphasis is placed on human gastrointestinal function and on studies in animals that relate to humans.

366. Biochemistry of Nucleic Acids (5 qtr hrs) Faulkner
*Prereq Biochem 310 or special permission of instructor*

This course will consist of a study of nucleic acid replication and the role of nucleic acids in protein biosynthesis. Some chemical and physical properties of nucleic acids as well as experimental techniques for study of nucleic acid biochemistry will be discussed.

367. Biochemistry of Nucleic Acids (5 qtr hrs) Faulkner
*Prereq Biochem 310 or special permission of instructor*

This course will consist of a study of nucleic acid replication and the role of nucleic acids in protein biosynthesis. Some chemical and physical properties of nucleic acids as well as experimental techniques for study of nucleic acid biochemistry will be discussed.

369. Advanced Topics in Biochemistry (1-15 qtr hr cr) Staff
Advanced study or research in biochemistry other than thesis.

370. Seminar (cr arr) Staff

371. Research (cr arr) Staff
Correlation Courses

310. First Year Correlation Course (36 hrs I, II, III)
Clinical patients and problems are presented by clinical staff members to illustrate the application of basic science course content to medical problems and practice.

320. Introduction to Clinical Medicine (12 hrs III)
An introduction to clinical medicine for sophomores is held weekly, jointly with the Department of Surgery. A member of each department is present and they jointly discuss such subjects as Ageing and Involution, Diseases of Medical Progress, Shock, Fever and Reaction to Injury and Stress.

330. Medical Surgical Conference (8 hrs)
A combined medical-surgical conference is held once each month, at which staff members of both departments discuss patients and their diagnosis and care. This conference is directed to both undergraduate and postgraduate students and is attended by junior students, senior students and the faculties of the Departments of Surgery and Medicine. Physicians in practice are cordially invited to attend.

340. Genetics (Total 12 hrs III) Eisen, Staff
A course continuing basic knowledge and clinical applications in the fields of cytogenetics and genetic counselling.

Dermatology and Syphilology
Associate Professor Pinne; Instructors Bell, Rustad; Clinical Instructor Barthell; Senior Consultant Wilson.

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.

350. Fundamentals (1 hr weekly, total 12 hrs I) Cameron, Pinne
Lectures on the skin and its diseases; syphilis.

36. Dispensary (2 hrs weekly, for 8 wks, total 16 hrs SS, I, II, III)
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


It is the aim of instruction in Internal Medicine to establish a broad understanding of patients with disease and to develop a scholarly approach to the study of medical problems. Intensive study by each student of relatively fewer patients is emphasized rather than superficial observation of many patients. The student studies health as well as disease. Small group conferences (four to six students) are utilized, with each member of the group participating. Time is allowed in each weekly program for reading, research and other independent pursuits for the purpose of establishing habits for self-development which will persist for life.
320. History-Taking and Physical Diagnosis (1 hr lecture demonstration, 2 hrs practical, weekly. Total 108 hrs I, II, III)
Instruction in history-taking and the performance of the complete physical examination. Special methods of examination are taught by members of other departments. Students are assigned in groups of six to each instructor.

General Exercises. (Total hours—see Correlation Courses)
An introduction to Clinical Medicine for sophomores is held weekly, jointly with the Department of Surgery. A member of each department is present and jointly discusses such subjects as aging and involution, diseases of medical progress, shock, fever, reaction to injury and stress.

330. Junior Medicine (Total 360 hrs I, II, III, IV)
The lectures are designed to acquaint the students with fundamental problems encountered in medical practice and to supplement bedside learning. Students are assigned to the Omaha Veterans Administration Hospital and the Immanuel Hospital for a period of five weeks, where they take histories, do physical examinations, and perform designated laboratory tests. For an additional five weeks shared longitudinally with the Preventive Medicine and Physical Medicine Departments, the students have small-group instruction in hematology, radioisotopes, tuberculosis, rheumatology, cardiology and allergy.

340. Senior Medicine (Total 400 hrs I, II, III, IV, V)
Experience in general and specialty medicine is obtained in 10 weeks shared with the Department of Dermatology and Syphilology. The cooperating hospitals are the Douglas County Hospital, the University of Nebraska Hospital, and the Omaha Veterans Administration Hospital.
A lecture-clinic course is given one hour weekly throughout the year.

Internal Medicine Electives—
341. (I, II, III, IV, V)
A dispensary service in medicine general and specialty clinics. This may be combined with radiology, thesis research or dermatology. 5 or 10 weeks.

342. (I, II, III, IV, V)
A full-time, 5, 10, or 15 week, in-patient clerkship in any of the cooperating hospitals: Bishop Clarkson Memorial, Bryan Memorial, Douglas County, Immanuel, Lincoln General, Methodist, or the University of Nebraska. Special arrangements can be made for clerkships at university hospitals in other states.

343. (I, II, III, IV, V)
Subspecialty electives. Limit of two students per subspecialty elective at any one time, 5, 10, or 15 weeks.
   a. Cardiovascular Disease
   b. Diabetes and Metabolism
   c. Gastroenterology
   d. Hematology
   e. Medical Electronics
   f. Oncology
   g. Infectious Diseases

349. Research (cr arr SS, I, II, III)
350. The Physiology of Symptoms (1 qtr hr cr per qtr—total 3) Grissom
351. Problems in Metabolism and Endocrinology Grissom, Henn, Paustian
   a. Diabetes Mellitus (1 qtr hr cr per qtr—total 3)
   b. Advanced Endocrinology (1 qtr hr cr per qtr—total 3)
   c. Metabolism and Nutrition (1 qtr hr cr per qtr—total 3)
   d. Rheumatology (1 qtr hr cr per qtr—total 3)

352. Advanced Gastroenterology and Biliary Diseases (1 qtr hr cr per qtr—total 13)
   Magnuson, Paustian, Westmore

353. Advanced Studies of the Cardiovascular Renal System Angle, Carr Dunn, Grissom, Hubbard, Loomis, Pepper
   a. Cardiologic Diagnosis and Electrocardiography (4 qtr hr cr per qtr—total 12)
   b. The Management of Heart Disease (3 qtr hr cr per qtr—total 9)
   c. Hypertension and Nephritis (3 qtr hr cr per qtr—total 9)
   d. Peripheral Vascular Diseases (1 qtr hr cr per qtr—total 3)

354. Infectious Diseases, Chemotherapy and Antibiotics (3 qtr hr cr per qtr—total 9)
   Davis, Grissom

355. Advanced Allergy (1 qtr hr cr per qtr—total 4) Grissom
Selected physicians and laymen present pertinent facts and considerations relating to the economics, the organization, the types of practice and the obligations of physicians to patients, to their community and to their fellow physicians.

Medical Ethics

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.

Medical Bibliography

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 Jurisprudence

The course in Medical Jurisprudence aims to acquaint students with the basic principles of microbiology, particularly as these relate to infection and disease. The instruction offered in this course is supplemented with more advanced and specialized courses (320 to 399 inclusive), for students who are candidates for the M.S. or Ph.D. degree and for other students such as honors students, residents in specialty training, and others desiring advanced work in medical microbiology independently of the requirements for a degree. For more details concerning the program in graduate education, please see the Bulletin of the Graduate College of the University of Nebraska.
350. Physiology of Microorganisms (4 qtr hr cr) von Riesen
Lect 2 lab 4. Prereq MM 320 and one semester organic chemistry (or biochemistry)
A consideration of the chemical composition, structure, growth, and nutrition of microorganisms; the influence of physical and chemical agents; and variation, adaptation, and mutation.

352. Metabolism of Microorganisms (4 qtr hrs cr) von Riesen
Lect 2 lab 4. Prereq MM 350 and a course in biochemistry or by special permission
A study of enzymes; the metabolism of carbohydrates, proteins, and other substances; and virulence as a physiologic problem.

354. Principles of Immunology (6 qtr hrs cr) Tremaine
Lect 3 lab 6. Prereq MM 320
Detailed study of the nature of antigens, antibodies, and their interactions. Laboratory work includes preparation of antisera, quantitative immuno-chemical methods, principles of serological tests, and study of in vivo allergic reactions.

356. Medical Bacteriology (8 qtr hrs cr) Miller, Tremaine, White
Lect 2 lab 4. Prereq MM 320
A detailed study of the morphologic, cultural, antigenic and pathogenic characteristics of disease-producing bacteria including techniques of isolation and identification. This course is to be given over a period of two consecutive quarters.

358. Systematic Microbiology (3 qtr hrs cr) Tremaine, White
Lect 3. Prereq MM 320
Study of the systematic relationships of microorganisms. Classification methods, nomenclature and relationships among bacteria, yeasts, molds, viruses, rickettsias, and protozoa are explored. Three discussions per week.

360. Medical Mycology (4 qtr hr cr) Miller
Lect 2 lab 4. Prereq MM 320
A study of the actinomycetes and fungi with particular emphasis on those capable of producing infection.

362. Viruses and Rickettsia (3 qtr hr cr) Reihart, White
Lect 2 lab 4. Prereq MM 320
A detailed study of the morphologic, physiochemical, cultural, and pathogenic characteristics of human and animal viruses and rickettsias with emphasis on methodology and host-parasite relationships. This course is to be given over a period of two consecutive quarters.

364. Medical Parasitology and Tropical Medicine (4 qtr hr cr) McFadden, Smith
Lect 2 lab 4. Prereq MM 320
A detailed study of protozoan and helminthic agents of disease including consideration of morphology, biology, life cycles, and host-parasite relationships.

370. Diagnostic Microbiology (3-9 qtr hr cr) McFadden and Staff
By arrangement. Prereq MM 320
Specific techniques for isolation, identification and sensitivity testing of microorganisms from clinical material available in the diagnostic laboratories of the University of Nebraska Hospital and Clinics. Practical approach with conference and laboratory.
A. Bacteriology
B. Serology
C. Virology

372. Microbiology of Foods and Water (4 qtr hr cr) Miller, von Riesen
Lect 2 lab 4. Prereq MM 320
A study of the microorganisms found in and on natural, fermented, and prepared foods, and in water and sewage; spoilage microorganisms; preservation of foods; standard methods for the analysis of foods and water; and the role of foods and water in the transmission of disease agents.

374. Diseases of Animals Transmissible to Man (3 qtr hr cr) McFadden, Miller
Lect 3. Prereq MM 320
A study of the epidemiological factors necessary for the transmission of various microbial diseases of animals to man including a discussion of the infecting agents, their vectors if any, their reservoirs and their interrelationships.

376. Pathogenesis of Infectious Diseases (3 qtr hr cr) McFadden
Lect 3. Prereq MM 320
Every pathogenic organism has its own unique, biological, and biochemical qualities which make possible invasion, multiplication, infection, and disease within the host. This course is concerned with these host-parasite relationships.
380. Antiseptics, Disinfectants, and Chemotherapeutic Agents (4 qtr hr cr) McFadden, von Riesen
   Lect 2 lab 4. Prereq MM 320 and MM 350 or by special permission
   Theoretical and practical aspects of the influence of physical and chemical agents on microorganisms.

382. Advanced Topics in Microbiology (cr arr) Staff
   Prereq MM 320
   Advanced study (research other than thesis) in one of the several disciplines of medical microbiology such as bacteriology, immunology, mycology, virology, parasitology, tissue culture, electron microscopy, etc.

398. Seminar (1 qtr hr cr per qtr) Staff
   By permission

399 (362). Thesis Research (cr arr) Staff

**Neurology and Psychiatry**

Professors Strough, Acting Chairman, Carver, M. Eaton, Ellingson, Friedlander, Osborn, Roth, Wighton, Wittson; Associate Professors Affleck, Aita, Cohen, Dunson, Dutch, Elen, Haworth, Helper, Kurtz, Starr, Tunakan, J. Williams; Research Associate Professor R. Schain; Assistant Professors Bartholow, Benschoter, Copenhaver, Garetz, Goldner, Meile, Menolascino, Moyer, Muffly, Rose, Scofield, A. Smith, Strider, M. Williams, Wolfensberger, Wurtz, Yager; Assistant Research Professor McIntire; Associates Gray, Ingham, R. Jones, Young; Research Associate Relhart; Instructors Beitenman, Blois, Butz, Cunningham, L. Eaton, Henderson, Hornby, D. Hubbard, Kenney, Lawton, McBeath, Michael, R. Miller, Okura, Osborne, M. Peterson, Phelps, Preston, Richardson, Sjogren, Slanger, Sonderegger, Timmons, H. Waters, Whitten, Wisman, Zimmerman; Assistant Instructors DeVries, Goodloe, Haese, Hepburn, Lathrop, S. Melcher, Nottebohm, S. Smith, Updegraff, J. Wilson, L. Wilson, Wurster; Coordinating Consultant Murphy; Demonstrator Schaefer; Emeritus Gysin.

Courses are planned to give the student, commencing 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 demonstrations in basic psychiatry which include descriptive and dynamic psychopathology and techniques of examination; and in neurology in which neurological illnesses, their relationship to the anatomical, pathological, and physiological factors are introduced. In the junior and senior years stress is placed on supervised experience with psychiatric and neurological patients, on inpatients, day patient and outpatient bases. Formal lectures are kept to a minimum, except for the clinical neurology lectures in the junior year. Instruction in psychiatry is correlated with the teaching in other departments.

**Neurology and Psychiatry.**

310. Introduction to the Behavioral Sciences and Personality Development (1 hr weekly. Total 24 hrs II, III) Affleck, Starr
   This course consists essentially of two sections. The first section constitutes an introduction to the behavioral sciences. This sequence surveys basic concepts in the behavioral sciences, methods of studying behavior, and the general adaptation of the organism to environment and culture. The second section concerns the emotional and social growth of the individual, with emphasis on the formative years of childhood. Reference is made to abnormal development, psychiatric syndromes, and the psychological aspects of medical practice.

320. Basic Psychiatry (1 hr weekly, total 36 hrs I, II, III) M. Eaton, Peterson
   During this course lectures and demonstrations of clinical material are held at the Nebraska Psychiatric Institute. The historical background of psychiatry, methods of interviewing, history-taking and general mental examination are presented. Descriptive aspects of clinical syndromes are presented. The course is preparatory to the junior clerkship in psychiatry and gives the student a basic understanding of mental illness from the standpoint of a general practitioner.

321. Neurology (1 hr weekly, total 12 hrs III) Aita, Dutch, McBeath
   The neurological illnesses are discussed and demonstrated from the descriptive viewpoint and related to anatomical, pathological, physiological and psychiatric factors. The material is correlated with medicine generally and particularly with psychiatry. Diagnosis and treatment are emphasized.
330. Neurology (1 hr weekly, total 12 hrs II) Alta, Dutch, McBeath
Continuation of course 321.

335. Clinical Clerkship (32 hrs weekly, total 290 hrs I, II, III)
The junior class is divided into groups, each of which is assigned full time for
ten weeks at the Nebraska Psychiatric Institute, except for 6 hours of lectures
in other departments and 3 hours in conjunction with the Department of Pre-
ventive Medicine. Students are assigned to instructors on a tutorial basis and
under this detailed supervision are assigned patients on the adult inpatient
service, adult outpatient service and children’s services of the Nebraska Psy-
chiatric Institute and on the Neurology Service at the Veterans Administration
Hospital. Seminars and lectures are included as well as demonstrations of in-
terviewing technique and treatment. Lectures and demonstrations of common
psychiatric and neurologic disorders are presented.

341. Advanced Psychiatry (1 hr weekly, total 12 hrs II)
A 12-hour lecture and demonstration program of more advanced concepts and
approaches to the management of psychiatric illness incorporating recent de-
velopments in the field.

343. Applications of Neurology and Psychiatry in Medical Practice (SS, I, II, III)
Individual supervision in the diagnosis and treatment of psychiatric and neuro-
logic illnesses, or in the study of current and emerging developments of bio-
chemical, psychopharmacological, genetic, neurophysiological, and psychophys-
ological aspects of these problems. By special arrangement.

344. Research in Neurology and Psychiatry (SS, I, II, III)
Laboratory or clinical research under direction in selected areas of psychiatry,
neurology and/or behavioral sciences. By special arrangement.

Courses oriented toward graduate students in nursing, occupational therapy and
psychiatry.—

305. Activity Therapy Analysis (3 qtr hr cr) Dundon
Prereq Open only to qualified students in the fields related to psychiatry and
upon approval of instructor
A psychodynamic approach to the analysis of activities used in psychiatric
occupational therapy. The analysis of activities as they relate to creativeness,
sociability, expression of hostility, compulsiveness, work tolerance and work
readiness.

306. Business and Administration Problems for the Occupational Therapist (1 qtr hr
cr) Dundon
Prereq Open only to qualified students in the fields related to psychiatry and
upon approval of the instructor
A general study of the business and administrative aspects of an occupational
therapy department, including budgeting, bookkeeping, and other matters per-
taining to the handling of hospital funds. Also presented are principles of organi-
zational plans, policies, reports, and records utilized in the hospital setting.

350. Psychiatric Concepts (3 qtr hr cr) Tunakan
Prereq Open only to qualified graduate students in an approved master’s pro-
gram and upon approval of instructor
The historical development of concepts and attitudes of present-day psychiatric
philosophy, treatment and diagnostic classifications is presented. The care and
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351. Seminar in Psychiatric Nursing (3 qtr hr cr each I, II, III—total 9) Hook
Prereq Open only to qualified graduate students in nursing in an approved
master’s program
Intensive study will be made of the role of the psychiatric nurse as a nursing
team member and an interdisciplinary team participant in any hospital or other
appropriate community organization. Psychological and sociological assessment
will be made of the dynamics of human behavior in various kinds of inter-
personal relationships with patients and co-workers.

352. Field Instruction in Psychiatric Nursing (12 qtr hrs cr total) Hook
Prereq Open only to qualified graduate students in nursing in an approved
master’s program
Directed observations and participation in selected community services which
demonstrate representative practices in psychiatric care. Opportunities are pro-
vided for the student to assess her abilities as a psychiatric nurse and to select
an appropriate area in the intensive study of a field project.
353. Research Methods (2 qtr hr cr) Hook

Prereq Open only to qualified graduate students in an approved master's program.

Introduction to scientific methodology and thinking oriented specifically toward the needs of students in nursing and occupational therapy with regard to research and evaluative methods.

354. Interdisciplinary Communication in Psychiatry (2 qtr hr cr each II, III—total 4) Stough

Prereq Graduate standing in fields related to psychiatry and upon approval of instructor.

Lectures from the fields of psychiatry, clinical psychology, psychiatric social work, psychiatric nursing and other related fields will discuss their respective major contributions as related to formulation and application of psychiatric theory. Seminars relate to the current subject of discussion.

355. Basic Psychodynamics (2 qtr hr cr—total 4) Starr

Prereq Graduate standing in the fields related to psychiatry and upon approval of the instructor.

A general review of psychodynamic theory, including the internal emotional dynamics as well as interpersonal dynamics, is outlined by lectures in the first quarter. Psychoanalytic theory is referred to with respect to its psychoanalytic and psychostructural concepts. During the second quarter, a variety of clinical patients are demonstrated by the interview process in order to apply the psychodynamic theory through the practice of dynamics and psychotherapy.

356. Problems in Psychiatric Nursing (1-5 qtr hr cr) Staff

Prereq Open only to graduate students in nursing in an approved master's program and upon approval of the instructor.

Individual investigation other than thesis or field study of some special problem elected or assigned.

357. Advanced Technics of Psychiatric Occupational Therapy (1-3 qtr hr cr) Dundon

Prereq Open only to graduate students in occupational therapy in an approved master's program.

A study of technics and therapeutic trends in psychiatric treatment as related to development of new tools and technics of the occupational therapist in the psychiatric treatment program.

359. Seminar in Psychiatric Activity Therapy (2 qtr hr cr per qtr—max 8) Dundon

Prereq Open only to graduate students in occupational therapy in an approved master's program.

An intensive study of the role of therapists in an interdisciplinary psychiatric setting. Psychological and sociological assessment of the dynamics of human behavior in various interpersonal relationships in which therapeutic activity is used as the modus operandi. Current theories of therapeutic activity are considered.

360. Field Instruction in Psychiatric Occupational Therapy (4 qtr hr cr II, III, IV—total 12) Dundon

Prereq Neuro and Psych 305 and 350. Graduate standing and permission.

Directed observation and participation in the occupational therapy clinics or other psychiatric agencies and facilities which demonstrate representative practices in psychiatric treatment. Opportunities are provided for students to demonstrate their understanding and abilities as psychiatric occupational therapists in the selected areas of their choice.

Electives.

354. Statistical Methods (2 qtr hr cr) Helper

Prereq One semester of college mathematics or its high school equivalent.

Descriptive and inferential uses of statistics in the mental health field. Selected parametric and nonparametric techniques will be included.

301. Foundations of Human Behavior (4 qtr hr cr) Hook

Prereq Graduation from an approved school of nursing, including 6 sem hrs in psychology or educational psychology.

Study of fundamental biological and social drives as the motivating forces of human behavior; ways by which they are modified throughout a lifetime; and some of the psychological theories which contribute to an understanding of the dynamics of human relationships.
302. Developmental Psychology (2 qtr hr cr per q—total 4; no credit unless second quarter is successfully completed) Haworth

Prereq 6 sem hrs in psychology or educational psychology, open only to qualified students in the fields related to psychiatry and upon approval of the instructor
A background of knowledge of normal development from birth to old age as a sound basis for understanding deviant behaviors. Strong emphasis on early infantile experiences. Consideration of cultural influences, emotional, social and intellectual facts throughout childhood; adolescent behavior and development; various aspects of adjustment in young adulthood; maturity and old age.

303. Behavior Problems of Children (2 qtr hr cr per q—total 4; no credit unless second quarter is successfully completed) Starr

Prereq 6 sem hrs in psychology or educational psychology. Open only to qualified students in the fields related to psychiatry and upon approval of the instructor
First quarter includes a series of lectures covering the normal development of the child emotionally, physically, socially and intellectually. Deviations in this development resulting in interpersonal, behavioral, emotional and psychosomatic disturbances in childhood are outlined. During the second quarter, there are practical clinical demonstrations of interviewing an emotionally disturbed child as well as his parents. Technique of psychotherapy with children and their parents are emphasized and highlighted in order to introduce the concept of family psychotherapy.

304. Group Dynamics (2 qtr hr cr) Garetz

Prereq Open only to qualified students in the fields related to psychiatry and upon approval of the instructor
Introduction to group dynamics; emphasis upon settings in which work with groups is practiced; relationship of Group Dynamics to administration supervision and teaching.

Obstetrics and Gynecology

Professors Pearse, Chairman, McGoogan; Associate Professors Cotton, Richard Garlinghouse, Olson, Redgwick, Rumbolz; Research Associate Professor W. Ryan; Assistant Professors Collins, Dunlop, Gorthey, Jernstrom, Magid, McGinnis, Messer, Roffman, Schack, Joseph Scott, Soule, W. Taylor; Research Assistant Professor Kadis; Associates Boelter, Harold Harvey, Kovarik; Instructors Ballew, Bohi, Cruise, Elston, George, Hansen, Hirst, P. Johnson, Krapohl, K. Lewis, Orr, Rueve, Schmidt, Sundell, Yost; Research Instructor R. Johnson; Assistant Instructors Fischer, McCarthy, Warden; Senior Consultants H. Anderson, Luikart, Morgan; Emeriti Harley Harvey, Moon, Stearns.

The objectives of this department are the integration of reproductive physiology, biochemistry, and anatomy with the normal and abnormal problems of obstetrics and female reproductive tract. Lectures and small group seminars carry this integration through the last three years of medical school. Obstetric cases are assigned under direction to the third year medical class, and extensive practical experience is provided the fourth year class through assignment to the outpatient prenatal and gynecology clinics and to affiliated hospitals.

Undergraduate students are encouraged to participate in research projects, and those with particular interests are given direction and support. A wide variety of advanced courses is available, and fourth year students are urged to select a program to meet their future needs.

Obstetrics and Gynecology—

320. Introduction to Obstetrics and Gynecology (1 hr weekly, total 16 hrs I, II)
Anatomy, physiology, and biochemistry of the reproductive tract, and their relation to normal obstetrics and gynecology.

330. Obstetrics and Gynecology (1 hr weekly, total 25 hrs I, II)
Abnormalities and complications of pregnancy, labor, and the puerperium. Theory, diagnosis and management of gynecologic disease.

335. Junior Clinical Clerkship (Total 145 hrs I, II, III, IV)
Third-year students are assigned to the University Hospital obstetric and gynecologic service. 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 obstetrics and gynecologic conferences, ward rounds and seminars.
340. Obstetrics and Gynecology (1 hr weekly, total 12 hrs II) Continuation of Course 330.

341. Senior Clinical Clerkship (Total 180 hrs I, II, III, IV, V) Fourth-year students are assigned to a hospital obstetrics and gynecologic service for more advanced and practical experience. They follow the progress of patients in labor and assist at or perform deliveries. They follow the workup and management of gynecologic patients and assist at operative procedures. They are assigned to the outpatient obstetric and gynecologic clinics. They attend weekly obstetric and gynecologic conferences, ward rounds and gynecologic pathology conferences.

350. Advanced Obstetrics and Gynecology (8 qtr hr cr per q.-max 24) Staff Conferences, demonstrations, and clinical assignments designed to familiarize the student with all phases of obstetrics and gynecology. The application of anatomy, physiology, biochemistry, pathology and microbiology will be stressed. Diagnosis and management of obstetric and gynecologic conditions will be emphasized.

351. Gynecological Pathology (3 qtr hr cr per q.-max 9) McWhorter, Staff An advanced course in gross and microscopic pathology in the field of obstetrics and gynecology. The student is required to attend two weekly conferences in gynecologic pathology. Clinical work consists in preparation, review, and description of all specimens submitted in this area.

352. Pelvic Anatomy (4 qtr hr cr) Holyoke Special dissection and study to cover the basic science aspects of anatomy and embryology as applied to obstetrics and gynecology. This work will consist of special dissection, reading, and histologic study of the generative tract.

353. Gynecologic Radiology (1-5 qtr hr cr) Hunt, Staff Readings, demonstrations, clinics and seminars designed to show the application of radiographic and radio-therapeutic principles and procedures of obstetrics and gynecology. Conducted in conjunction with the Department of Radiology, this course gives experience in radiographic technic, the interpretation of films, and the use of x-ray and radium. Independent reports will be required.

354. Advanced Course in Gynecological Surgery (4 qtr hr cr per q.-max 8) Staff Conferences and demonstrations of principles and technic of gynecological surgery. The student will perform surgical procedures under the supervision of the supervisory staff. Special techniques are included.

355. Endocrinology of the Sex Hormones (Biochemistry 362) (3-5 qtr hr cr) Kadis, Wilder Prereq Med Biochem 310 or its equivalent A lecture course designed to acquaint the student with the chemistry and metabolism of the estrogens, androgens, prostestational substances, and gonadotropins. Essential information on adrenal hormones will be included as needed.

356. Gynecologic Endocrinology (3-5 qtr hr cr) Kadis, Pearse Prereq Biochem 353 and Obstetrics and Gynecology 355 A course in applied endocrinology with emphasis on the diagnosis and management of a variety of gynecologic disorders. The lecture series will be accompanied by assignment of the student to the clinical service.

357. Obstetrical Hematology (3 qtr hr cr) Pearse, Messer A course in applied hematology with emphasis on problems which occur in pregnancy. The lecture series will be accompanied by laboratory work and by clinical work in the clinic and hospital.

358. Research in Obstetrics and Gynecology other than Thesis (cr arr) Staff

359. Obstetrics and Gynecologic Seminar (1 qtr hr cr per q.-max 8) Staff

360. Thesis (cr arr) Staff

Ophthalmology

Professor Gifford, Chairman, Associate Professors Alliband, Morrison; Clinical Associate Professor Wood; Assistant Professors Eagle, Filkins, Rasgorshek, Truhlsen, Vickery; Instructors Faier, Hahn, Latta, Meisner, Pemberton; Emeritus Judd.

Ophthalmology.—

320. Medical Ophthalmology (1 hr weekly, total 16 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.

340. Dispensary (Total 60 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

Associate Professor C. Waters, Chairman; Professor Hamasa, Sr., Associate Professor Teal; Assistant Professors Bach, Burney, Hood, Richard Smith; Clinical Assistant Professors Mitchell, Stone; Instructors Dinsmore, Hamasa, Jr., Minard, Scott-Miller, Weingarten; Clinical Instructor Horn, F. Webster; Emeritus H. Johnson.

Orthopedic surgery deals with the diseases, deformities, and injuries of the structures composing the musculo-skeletal system.

Orthopedic Surgery—

330. Diseases of Bones and Joints (1 hr weekly, total 12 hrs I)
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.

332. Fractures, Dislocations and Sprains (1 hr weekly, total 12 hrs SS, I, II, III, IV)
Lectures, quizzes, and demonstration course on fractures, dislocations, and sprains. X-ray diagnosis with application of splints and casts.

343. Orthopedic Clinical Clerkship (Elective, 5 wks)
Clinical experience with members of the Orthopedic Staff at the University Hospital and affiliated hospitals. May be substituted for Surgery 341 or 343 by arrangement.

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

Associate Professors Klabenes, Chairman, Carp, Lovgren; Clinical Assistant Professor P. Peterson; Associates Allan Davis, Gillies; Instructor W. Carter; Senior Consultants Cassidy, John Calvin Davis, Jr.

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 are given in conjunction with the sophomore course in Physical Diagnosis.

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

340. Dispensary (3 hrs weekly, total 9 hrs SS, I, II, III, IV, V)
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.

Elective—

A senior student spends 5 weeks with a member of the Otorhinolaryngology Staff. The student sees patients with the doctor in his office, taking histories and doing preliminary examinations. He accompanies him on all hospital rounds and assists at all surgical procedures.
Pathology

It is the aim of this department to acquaint the student with the etiology, the pathologic physiology, and the morphologic changes produced by disease processes in the human body.

Pathology.—

321. General Pathology (Total 246 hrs I, II, III)
This course emphasizes the etiology and morphologic alterations produced by disease processes. It comprises the general principles of the reaction of the body to injury and of specific disease processes in detail by organ systems in both lecture and laboratory exercise. This course is closely integrated with the course in Medical Microbiology 320 so that at the time the student studies microbiologic aspects of microorganisms, the alterations produced in the tissues and organs of the body by the same organisms are covered.

322. Clinical Pathology (2 hrs lecture, 3 hrs laboratory weekly, total 60 hrs III)
The lecture and laboratory course emphasizes selection and performance of laboratory tests used by the physician. The student becomes proficient with many such tests and acquires a working knowledge of the remainder. Special emphasis is placed upon the selection of tests and the interpretation of the results of such tests, correlating these results with the clinical findings.

331. Clinical Pathology (Total 72 hrs I, II)
Continuation of course 322.

332. Clinical Pathology Conference (1 hr weekly, total 24 hrs. II, III)
Selected cases are presented 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.

333. Correlative Clinical Pathology (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. Clinical Pathology Conference (Total 36 hrs I, II, III)
Continuation of Course 332.

341. Forensic Medicine (Total 12 hrs II)
A discussion of the aspects of forensic medicine.

356. Autopsy Pathology (8 cr)
Prereq Path 320
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)
Prereq Path 356
b. Studies of Bone Tumors (3 cr)
Prereq Path 357a
c. Studies of Tumors of the Nervous System (3 cr)
Prereq Path 357a

358. Etiology of Tumors (1 cr)
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)
By permission

360. Research (cr arr)
The aim of this department is to develop in the student an understanding of human growth and development, as well as the diseases characteristic of infancy, childhood and adolescence. This is done through the lectures and demonstrations, small group bedside conferences and discussions, clinical clerkship at the University Hospital and the Children's Memorial Hospital and the outpatient service at the University Hospital. Special orientation and training in rehabilitation is given at the new Rehabilitation Center.

Undergraduate students are encouraged to participate in research on a wide variety of projects, and students who show particular interest in a given problem are afforded guidance and support in their scientific investigations.

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 36 hrs I, I I, 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 Clerkship (33 hrs weekly, total 160 hrs I, II, III, IV)
Students are assigned at the Children's Memorial Hospital 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 in the hospital 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. In addition, each student attends a Grand Round presentation of cases weekly at both the Children's Memorial Hospital and at the University of Nebraska Hospital. A weekly Clinical Pathological Conference is also presented.

342. Senior Clerkship (36 hrs weekly, total 180 hrs S S, I, II, III, IV, V)
Seniors on the pediatric service are assigned to clinic, special clinics, pediatric ward, and nursery throughout their service. This means that each student will have hospital patients, newborns, and clinic patients at the same time. Patients admitted from the clinic will be followed by the same student to the ward until dismissal. He will be responsible for the history and physical and laboratory work, as well as a therapeutic plan and progress. Special clinics to which the student will be assigned are Metabolic, Cardiac, Allergy, Newborn, Neurology and Cystic Fibrosis. Each student will have a rotating assignment in the emergency room during evenings and week ends. Each student will have the responsibility for case presentations at Grand Rounds and other teaching conferences.

350. Pediatric Gastroenterology (3 qtr hrs per qtr, total 9 qtr hrs) 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) 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.
353. Developmental Behavior Pattern of the Newborn (3 qtr hrs per qtr, total 6 qtr hrs) Gibbs
Prereq M.D. degree or B.S. in Nursing or undergraduate major in psychology
A study of activities of the normal infant as related to environmental factors.

354. Pediatric Cardiology (3 qtr hr cr per qtr—total 9 qtr hrs) Mooring
Prereq Ped 341 and 342
Acquisition of experience in examination of the heart of the infant and child, including physical examination and study of fluoroscopy, electrocardiography, angiography and cardiac catheterization. Experience in the diagnosis and treatment of cardiac diseases in pediatrics. Management of problems of cardiovascular physiology during and following open heart surgery.

355. Advanced General Pediatrics (SS, I, II, III, 6-12 qtr hrs)
Prereq Pediatrics 341, 342
Students study special patients presenting diagnostic and therapeutic problems of unusual interest. These studies summarize all pertinent literature and include laboratory procedures not routinely available.

358. Pediatric Research Seminar (2 qtr hrs per qtr, total 6 qtr hrs) Gibbs
Selected topics of current research or contemplated research with presentation of appropriate patients.

359. Research in Pediatrics (cr arr) Gibbs
Prereq Ped 358 completed or in progress

Physical Medicine and Rehabilitation
Assistant Professor Frost, Chairman; Professor Hunt; Associates Aita, Bach, Frick, Malashock, Morris, Swenson, Thomas; Lecturers Breed, Donovan, Dunevitz, Hobbs, R. Jensen, A. Johnson, Pliska, Ruth Smith, Vogt; Demonstrators Bohnenkamp, Burton.

The principles and techniques of Physical Medicine and Rehabilitation are presented at assigned times to the student body. A one-hour lecture on Philosophies and Principles of Physical Medicine and Rehabilitation is given in the sophomore year. The junior and senior students are divided into groups of nine students each. The junior students receive 20 hours of lectures and clinical demonstration, and the senior students receive 20 hours of clinical experience at assigned times over a five-week period at the Nebraska University and Douglas County Rehabilitation Center.

330. Principles of Physical Medicine and Rehabilitation (Total 20 hrs I, II, III) Frost and Staff
Covers the aspect of their individual fields of work or specialty concerned in the total approach to evaluation and treatment of disabled persons. This course presents the principles and philosophy of physical medicine and rehabilitation and includes student orientation in the multiple technical fields necessary to effect the rehabilitation process of disabled patients. The course is presented in lecture, demonstration, and conference forms.

340. Senior Clinical Clerkship
In this course, senior students gain experience in examination and management of disabled patients to determine rehabilitation potentials and goals of the patients. These students participate in the reevaluation of the patients with the staff in weekly conferences.

Physiology and Pharmacology
Professor McIntyre, Chairman, Bennett, Assistant Chairman, Lamboom; Associate Professors F. Dunn, Ware; Associate Research Professor Humoller; Assistant Professors Gessert, Stratbucker; Instructors Benson, Browne, Sievers, Toot; Assistant Instructors Gatz, Wong; Demonstrator Mahler.

The courses in Physiology and Pharmacology 310-327, inclusively, stress the fundamental principles underlying living processes in health and disease and provide a comprehensive basis for medical practice. Courses 350-357, 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 mechanisms 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 gland, gonads, thyroid, parathyroid, islet tissue, and adrenals are outlined.

311. Physiology and Pharmacology Laboratory Course (total 84 hrs, III) In this course students perform experiments designed to illustrate basic physiological technics and apparatus and are directed towards illustrating salient principles as concurrently developed in the lecture course. Several demonstrations are conducted using more advanced technics to illustrate principles of electrophysiology and the mammalian preparations. Other teaching aids, such as film and discussion groups, are employed.

322. Physiology and Pharmacology Lectures and Demonstrations (Total 72 hrs I) The concepts presented in Courses 310 and 311 are developed to include the pharmacology of the anesthetics and the drugs acting on the nervous system. The neuromuscular apparatus and the mechanisms relating to posture are considered. The depressant drugs, including hypnotics, antipyretics, analgesics and tranquilizers, are discussed in detail. The cardiovascular, respiratory, and renal systems are discussed in detail together with the pharmacological agents effective in these systems.

323. Physiology and Pharmacology Laboratory (total 84 hrs, I) The elements of anesthesia 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 84 hrs II) A. The G. I. system is studied from the standpoint of normal and disturbed function. The pharmacology of drugs, hormones, and agents used in therapy is discussed.

325. Physiology and Pharmacology Laboratory (Total 84 hrs II) The laboratory exercises include experiments and demonstrations of the therapeutically agents discussed in course 324. Experiments and demonstrations illustrate basic principles of visual optics, properties of the retina, visual reflexes, central mechanisms of visual perception, and the action of drugs on the eye. Peripheral and central auditory and vestibular mechanisms of the ear are studied. This course supplements course 324 A, B, and C.

326. Physiology and Pharmacology of the Endocrine System (Total 24 hrs III) The endocrine system is further examined and the importance of the hormones in normal and abnormal conditions discussed. The use of endocrines in replacement therapy is examined and drugs and other agents used in endocrine disorders are considered.

327. Physiology and Pharmacology of the Endocrine System, Laboratory (Total 24 hrs III) This course consists of demonstrations and experiments concerning the normal actions of hormones, drugs, and other agents used in replacement therapy and other endocrine disorders.

331. Bio-Medical Measurements (Biochemistry 331, Internal Medicine 331, Neurology and Psychiatry 331) (May carry graduate credits up to 5 qtr hrs or 3 sem hrs for students who are candidates for the M.S. degree with a major in a physical science or in Engineering) Bennett, Dunn, Grissom, Jacob, McIntyre, and Staffs

350. Technic in Experimental Physiology and Pharmacology (1-9 qtr hrs cr) Bennett, McIntyre, and Staff

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.

Special Physiology and Pharmacology.—

351-A. Advanced Physiology and Pharmacology (1-9 qtr hrs cr) Ware
Prereq Physiol and Pharmacol 350
In situ aseptic preparations; instruction in the fundamental technics of aseptic surgery for the preparation of animals for study, and their postoperative care.

351-B. Advanced Physiology and Pharmacology (1-9 qtr hrs cr) McIntyre
Prereq Physiol and Pharmacol 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.

351-D. Electro-Physiology (1-9 qtr hrs cr) Bennett, Stratbucker, Ware
Prereq Physiol and Pharmacol 350
The application of electrical stimulation and recording technics to the study of excitation processes and membrane potential changes associated with the resting and active states in nerve, muscle, heart, central nervous system and secretory epithelium.

351-E. Biomedical Instrumentation (1-9 qtr hrs cr) Stratbucker
Prereq Physiol and Pharmacol 350
An introduction to electronic circuits, vacuum tube and transistor amplification. Methods of detecting, recording and measuring biological signals. Application of analog and digital computers to research in physiology. Instrumentation as a system. A student may not receive credit for Physiology and Pharmacology 351-E if he already has credit for Electrical Engineering 200, and vice versa.

Advanced Pharmacology.—

352-A. Advanced Pharmacology-Toxicology (1-9 qtr hrs cr) Gessert, Hendrickson, Humoller, Stratbucker
Prereq Physiol and Pharmacol 350
The recognition of poisons in the body. The quantitative determination of toxic substances in necropsy materials and excretia; polarigraphic quantitative determination of metallic ions present in tissues. Qualitative and quantitative tests for alkaloids by polarigraphic and other methods.

352-B. Advanced Pharmacology-Bioassay (1-9 qtr hrs cr) Humoller, McIntyre
Prereq Physiol and Pharmacol 350
The assay of drugs and hormones and so-called vitamins by biometric methods, including standardization of drugs and biologically active substances.

353-A. Vitamin and Endocrine Studies—The "Deficient State" (1-9 qtr hrs cr) Staff
Prereq Physiol and Pharmacol 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.

353-B. Vitamin and Endocrine Studies—The Endocrine System (1-9 qtr hrs cr) Hendrickson, McIntyre
Prereq Physiol and Pharmacol 350
Studies in hypo- and hyper-normal hormonal activity; technics for extirpation of glands of internal secretion.

354. Application of Physiology and Pharmacology to Clinical Problems (1-9 qtr hrs cr) Bennett, McIntyre, Stratbucker, Ware
Prereq Physiol and Pharmacol 350
Electrocardiography, electrostethoscopy, metabolic rates, pulmonary function tests. 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 Applications of Physiology and Pharmacology to Industrial Medicine and Surgery (1-9 cr) Bennett, McIntyre, Sievers, Ware
Prereq Physiol and Pharmacol 350
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) Humoller, McIntyre, 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 cr per qtr) Staff
358. Research in Physiology and Pharmacology (cr arr) Staff

**Preventive Medicine**

Assistant professor J. Calvin Davis, Acting Chairman; Professor Potthoff; Associate Professors Fuenning, Rogers; Assistant Professors M. Johnson, Kutler, Stafford, Storier, J. Thompson; Instructor Manthey; Lecturers Crabill, DuBois, McArdle.

These courses aim to give the students basic orientation and preparation related to physicians' increasingly important responsibilities in preventing disease, promoting efficiency, acting as health counselors and serving as community leaders in health matters. The field work of the junior year is carried on through cooperative agreement with the Omaha-Douglas County Health Department.

310. The Accident Problem and Field Emergency Care (2 hrs weekly, total 16 hrs, III)
This course is offered cooperatively with the Department of Surgery. Includes study of the epidemiology of accidents and methods of immediate care under field conditions.

320. Principles of Preventive Medicine (2 hrs weekly, I: 1 hr weekly for eight wks II, total 22 hrs)
Fundamentals of epidemiology as applied to the infectious diseases.

321. Principles of Preventive Medicine (2 hrs weekly, total 50 hrs III)
Introduction to statistical analysis; community health, occupational and environmental health; economics of health care.

330. Clerkship in Preventive Medicine (Total 35 hrs, I, II, III)
Epidemiology of chronic disease. Field trips to facilities and agencies of public health importance; topic and case studies embodying aspects of disease prevention, use of community resources and comprehensive care; medical socio-economics.

**Radiology**

Professors Hunt, Chairman, Moore; Associate Professors James, Ogborn, Pederson, R. Waggener; Clinical Associate Professor Frazer; Assistant Professors Bolamperi, Bunting, A. Dunn, Gordon Johnson, Saichek, Schlichtemier, N. Scott; Clinical Assistant Professor Neely; Instructors Adkins, Blotcky, Mohluddin, Mulry, Mundy, Schauerte, Watson; Clinical Instructor Bradley; Assistant Instructors Dworak, Haggstrom, Swanberg; Lecturer McMillan; Senior Consultant McAvlin.

The curriculum in Radiology aims to relate the physical and biological principles of radiation effects to the basic sciences and to the diagnosis, prevention, and treatment of disease.

The principles of radiology presented during the third quarter of the second year relate to radiation physics, radiobiology, principles of radiographic techniques and the interpretation of roentgenograms.

During the third year radiologic interpretation is continued by lectures and diagnostic conferences, and the principles of radiotherapy are presented. Sectional teaching to groups of four to eight students is conducted through film reading sessions, group conferences, and tumor clinics.

**Radiological Anatomy**

Taught as part of Gross Anatomy

320. Principles of Radiology (1 hr weekly, total 12 hrs III) Staff
330. Principles of Radiology (total 12 hrs) Staff
331. Clinical Radiology (total 20 hrs) Staff
Assignment of a group of four to eight students who, during five weeks, observe and participate in radiographic interpretation and ward rounds on radiotherapy service.

342. General Radiology Clerkship for Seniors (5 wks, SS, I, II, III)
Assignments correlating specific clinical problems as radiologic diagnosis or therapeutic management. Attendance at seminars, conferences, and tumor clinics. University Hospital and affiliated hospitals.
342. Diagnostic Radiology Clerkship (3 to 5 wks, SS, I, II, III)
Observation and case assignments in radiographic technic and interpretation of roentgenograms. Attendance at seminars and interdepartmental conferences. University Hospital and affiliated hospitals.

350. Advanced Diagnostic Radiology (4 to 8 cr) Hunt, Moore, Pederson
Prereq Radiol 320, 330, 331
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.

354. Advanced Therapeutic Radiology (4 to 8 cr) Hunt, Waggener
Prereq Radiol 220, 330, 331
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 per sem) Staff
Elective for seniors by arrangement.

355. Radiological Dosimetry (3 to 8 cr) Hunt, Waggener
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.

357. Thesis (cr arr) Staff

Surgery

Professors Musselman, Chairman, Bisgard, Finlayson, Hodgson, John Jones, McLaughlin; Associate Professors Barmore, Browne, Kennedy, Kleitsch, Potter, Sellers, Swenson, D. Waggener; Associate Research Professor H. Davis; Assistant Professors Black, Brauer, Brush, Coe, John B. Davis, Fleber, Frank, G. N. Johnson, McMurtrey, D. M. Miller, Nels, Pester, Rasmussen, H. Rath, Rees, Therien, D. Thompson, C. Wilson; Clinical Assistant Professors Cherry, Davies, Robert Garlinghouse, Gogela, Hilton, W. W. Webster; Associates L. Anderson, Cochran, Latenser, L. Thompson; Clinical Associate Cole; Instructors Brett, Bruce, J. Carter, Gillespie, Hachiya, Hamilton, Hanisch, Karrer, Kimball, Kutler, Landry, Melcher, Mota, Porter, Sasse, L. Schultz, Singer, John W. Smith, L. D. Smith, Stroy, Watland, Westfall; Clinical Instructors Ehrlich, Hillyer, LeWorthy, Moessner, Wiedman; Assistant Instructors Koneschine, Stephenson, Wallace; Clinical Assistant Brinkman; Senior Consultants Keegan, Morton, Reese; Emeriti Best, Davis, Irons, Shearer, Waters.

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 junior year 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 operative technic. Minor operative 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 training as a resident in surgery. Surgery includes a section of General Surgery, a section of Neurosurgery, a section of Thoracic and Cardiac Surgery, a section of Plastic, Maxillo-facial and Dental Surgery, and a section of Anesthesiology.

Surgery.—

330. Fundamentals of Surgery for Juniors (34 hrs, Periods 2, 3, 4, 5)
A presentation of the principles of surgery by lectures and demonstrations.

332. Neurosurgery Fundamentals (10 hrs, Period 5)
Lectures in principles of surgery of the neurological system.

335. Clinical Clerkship for Juniors (Each 10 wk period, total 320 hrs)
Students have their own patients whom they examine, observe and for whom they help care during the course of an illness. The clerkship is designed to develop skills and confidence in interviewing and examining patients. The application and evaluation of diagnostic procedures, the consideration of differential diagnosis, and the consequences of clinical decisions are emphasized in
rounds, conferences, and seminars with instructors. The students participate in operations learning, operating room technics, observing the principles of operations, and correlating the gross pathologic findings with the clinical findings. Total hours include conferences in orthopedics and urology.

337. Fundamentals of Anesthesia (12 hrs, Periods 4, 5)
Lectures and demonstrations in the fundamentals of anesthesia.

Clerkships for Seniors (Each 5 wk period, total 200 hrs)
Senior students are assigned to the Department of Surgery for ten week periods. Five weeks are spent in a hospital or anesthesia clerkship and five weeks in a dispensary clerkship. The hospital clerkship provides an opportunity to develop and apply technics of clinical science. The student plays a close role with staff and patients. Rounds, seminars, and conferences contribute to a balanced program. Continuing self education is fostered. The clerkship in anesthesia introduces the fundamentals of anesthesia and permits application of basic technics under direct supervision. In the dispensary clerkship the student participates in the care of outpatients representing all areas of surgery. Diagnostic procedures, limited operations under local anesthesia, and outpatient therapeutic procedures are included in the program which permits the student to observe the course of patients who are not hospitalized.

341. Clinical Hospital Clerkship for Seniors (Each 5 wks, all periods, total 200 hrs)
343. Dispensary Clerkship for Seniors (Each 5 wks, all periods, total 200 hrs)
348. Anesthesia Clerkship for Seniors (Each 5 wks, all periods, total 200 hrs)

During the senior year 20 weeks are devoted to elective opportunities. These are learning experiences in which the student has a preceptorial or tutorial relationship with a member of the faculty. In the elective clinical clerkship the student participates continuously with his mentor in all facets of his clinical practice. The following elective options are offered:

341. Surgery Clerkship
342. Neurosurgery Clerkship
343. Thoracic Surgery Clerkship
344. Pediatric Surgery Clerkship
348. Anesthesia Clerkship
349. Research in Surgery (5-15 wks)
A supervised experience in laboratory and clinical research.

Associated Departments
343. Otorhinolaryngology Clerkship
343. Orthopedic Clinical Clerkship
343. Ophthalmology Clinical Clerkship
343. Urology Clinical Clerkship

Surgery, General Exercises.—
Introduction to Clinical Medicine (Total 12 hrs, Period 3)
This course for sophomores is held weekly, jointly with the Department of Internal Medicine. A member of each department is present, and together they discuss such subjects as aging and involution, diseases of medical progress, shock, fever, reaction to injury and stress.

Surgery Grand Rounds (Every Saturday 10:00-11:30 am.)
Physicians in practice are cordially invited to attend.

Surgery Seminar (Wednesday, 5:00 p.m., August through June, Room 3-112) Presentation and discussion of subjects and articles related to surgery. Staff, residents, interns, and senior students.

Urology

Professor Leroy Lee, Chairman; Associate Professors N. Davis, Kammandel, Malshe; Assistant Professor Mardis; Clinical Assistant Professor Munger; Clinical Instructor Gilbert; Emeritus Owens.

The fundamental principles of this surgical specialty are taught in close coordination with the general surgical teaching program. The educational experience is geared to the type of knowledge which is of value to the general physician. Proficiency in a general knowledge of urology is accomplished by coordinated study, including lectures, clinical clerkship, dispensary and operative clinics. Emphasis at
Senior Preceptorship Program

Aside from the undergraduate teaching, the members of this department provide instruction to interns, surgical residents and nurses. They also provide specialized urological care to patients in the University Hospital and Douglas County Hospital. They conduct investigative research in various subjects of urological interest.

330. Fundamentals of Urology (1 hr weekly, total 12 hrs I)
   Lectures on diseases of the urogenital system
   Ward Clinics (2 hrs weekly when on Surgery Clerkship)
   Students are given bedside ward clinics using patients at the University Hospital to illustrate major disease entities encountered in medical practice.

341. Dispensary (3 hrs weekly, total 15 hrs I, II, III, IV, V)
   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

Each senior student is required to spend five weeks with an experienced practitioner of his choice. This period affords the student an opportunity to learn much of the art and science of medical practice in the rural community. The preceptors are selected by the Preceptorship Committee of the faculty of the College, and are leaders in general practice in Nebraska. They are regularly appointed members of the College of Medicine faculty, subject to the same regulations and responsibilities as all faculty members.

The student chooses a preceptor whom he closely follows in all medical activities including hospital work, office practice, and home calls. Students are allowed to participate in the various aspects of medical practice insofar as the preceptor feels they are capable of handling the work. Medical ethics and economics and the relationship of the physician to his community are made known to the student during his preceptorship.
The Training Course for Medical Technologists at the University of Nebraska College of Medicine is designed to teach qualified students the theory and technics of laboratory procedure. The increasing use of clinical laboratory determinations in the diagnosis and care of the patient has led to great opportunities for employment and advancement in the profession of medical technology. Positions are available to the medical technologist in hospital laboratories, in physicians' offices, in clinics, in research, in teaching and industry. The medical technologist is an integral part of the medical team that strives for more rapid, complete, and accurate diagnosis and treatment of the patient.

For proper understanding of clinical laboratory procedures, it is essential that an adequate background of scientific information be obtained before entering our program.

Organization.—The course for medical technologists has been established by 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 qualified to provide adequate training in laboratory technic. Graduates of the Training Course for Medical Technologists are expected to take the examination for certification by the Registry of Medical Technologists, maintained jointly by the American Society of Clinical Pathologists and the American Society of Medical Technologists.

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. In addition, the facilities of affiliated hospitals may be used for training in medical technology.

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 159 beds, and patients are accepted from all over the state. All types of diseases are treated under the direction of the faculty of the College of Medicine. More than 5,000 patients are admitted each year and over 56,000 visits are made annually to the University Clinic on an outpatient basis. The total number of laboratory tests performed on all patients exceeds 225,000. The laboratory work that is done includes all routine procedures and many specialized tests.

The library of the College of Medicine is maintained in the hospital. These books and periodicals are available for study and for awareness of current work in the field of laboratory medicine.

Requirements for Admission

High School.—Sixteen high school units are required for admission. They must include 3 units in English, 2 units in one foreign language (ancient or modern), 2 units in mathematics (1 each of algebra and
geometry or an equivalent) and 1 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 requirements have been established in accordance with the Registry of Medical Technologists:

**BIOLOGIC SCIENCE**—Sixteen semester hours. This must include one full academic year (two semesters) of general biology and/or zoology, including lecture and laboratory. A minimum of 3 semester hours of bacteriology is required if offered at the college where preliminary work is taken. If bacteriology is not available, other branches of biologic science may be substituted with permission from the Director.

**CHEMISTRY**—Sixteen semester hours including lecture and laboratory. This must include at least two semesters of general inorganic chemistry, lecture and laboratory, which may also include qualitative analysis. At least 4 semester hours of organic chemistry, including laboratory, must be completed. A course in quantitative analysis is highly recommended.

**NOTE:** For students taking their preliminary college work at the University of Nebraska in Lincoln who are enrolled in Chemistry 3 and 6, the total number of required hours of chemistry will be 14 instead of 16 as listed above and must include organic chemistry.

**MATHEMATICS**—A minimum of 1 semester of college mathematics is required.

**ENGLISH**—A minimum of 6 semester hours of English is required.

**PHYSICS**—A lecture and laboratory course in physics is recommended.

**ELECTIVES**—Sufficient hours to total 90 semester hours of college credit. Emphasis is placed upon obtaining as broad a general educational background as possible in addition to the required courses listed above.

To insure successful completion of the year of clinical training, the student should present a minimum grade average of high C. Grades below D from institutions other than the University of Nebraska are not acceptable for transfer.

Since the student has entered the Training Course for Medical Technologists with specific course requirements completed and a minimum of 90 semester hours of college work, he is granted the degree of Bachelor of Science in Medical Technology when he has successfully completed the Training Course. The degree is granted by the University of Nebraska, College of Medicine. However, the student retains the option of receiving his degree from the institution at which he completed his preliminary work if he prefers.

**Loan Funds and Scholarships**—Loan funds and limited scholarships are available. The W. K. Kellogg Foundation has loan funds administered through the University of Nebraska College of Medicine for students in this program. The Freida M. Oltmann loan fund for Student Medical Technologists has funds for students beyond the second year at the University of Nebraska in Lincoln or in the training course in Omaha. This fund is administered by the Nebraska Society of Medical Technologists. Further information regarding loans and scholarships can be obtained from the Teaching Supervisor of the Training Course for Medical Technologists.

**Starting Date**—Students begin training during the summer months. Groups are accepted in June, July, August.
Applications.—Forms for applications can be obtained from the Teaching Supervisor. Transcripts of both high school and college work, accompanied by a small recent photograph or snapshot must be submitted with the completed forms. An accompanying letter must list courses in progress.

Applicants must submit a transcript to the Registry of Medical Technologists, Muncie, Indiana, for evaluation of credits. A copy of the evaluation will be sent to the University of Nebraska by the Registry at the applicant’s request. The fee for evaluation is $1.00 which must be included with the transcript.

Enrollment in the Training Course is limited. Applications for the year in which the student expects to begin training must be received before February 15 of that year. Acceptances will be offered about March 1st.

Fees and Expenses.—A tuition fee of $150 a year for a resident student and $280 a year for a nonresident student is charged at the time of enrollment. This fee covers tuition, registration, student health, and diploma fees. Allowance should be made for the purchase of books. Other than for uniform laundry, students are responsible for their own maintenance. Limited dormitory facilities are available on the campus. Adequate housing can be found near the campus.

PLAN OF INSTRUCTION

The course of training is 12 months in length. Lectures covering background material are taken with the students of the College of Medicine. Other lectures are designed especially for the needs of 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.

Courses and credit hours are arranged as follows:

LECTURES:

- **INTRODUCTION TO PATHOLOGY AND HISTOLOGIC TECHNIC.**—This course covers a general survey of disease processes and their relation to laboratory determinations, including the basic principles of preparing tissue and other materials for microscopic examination.

- **MEDICAL MICROBIOLOGY.**—This course is a comprehensive study of the medical aspects of bacteriology, mycology, parasitology, virology, and immunology.

- **BIOCHEMISTRY.**—This course is a study of the chemical reactions occurring within the human body. Particular attention is given to the use of laboratory tests for obtaining information about normal and abnormal chemical functions in the body.

- **HEMATOLOGY AND BLOOD BANK.**—This course covers the general principles of blood examination for alterations in the cellular elements, including a discussion of the abnormal conditions which are indicated by the laboratory results. Procedures designed to aid in the diagnosis of coagulation disorders are discussed. The theory of blood groups and transfusion is presented.

- **ROUTINE PROCEDURES.**—The general aspects of urinalysis, gastric analysis, basal metabolic rates, and electrocardiography are discussed.
SEMINARS.—Weekly seminars are held for the discussion of pertinent problems regarding the laboratory. Periodic reviews of recent literature are conducted ........................................ 3 credits

CLINICAL SERVICES:

In addition to the formal lecture material, the student is assigned to various services for practical laboratory experience. There are fourteen (14) service periods during the twelve month training program, and the division of time is indicated below:

CHEMISTRY.—This service includes examination of blood and other body materials for chemical constituents. Such tests are usually quantitative. The student learns the proper use of equipment and careful technics in the performance of a wide variety of tests .......... 4 credits

HEMATOLOGY.—Various tests for enumeration and detection of abnormality of the formed elements of the blood and tests for alteration of the coagulation mechanism of the blood are performed in this department .......................................................... 3 credits

BACTERIOLOGY, MYCOLOGY AND PARASITOLOGY.—The identification of micro-organisms, particularly pathogenic, by morphologic and cultural characteristics is undertaken in bacteriology. 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 Department of Microbiology of the College of Medicine .................................................................. 3 credits

SEEROLOGY.—This course involves the measurement of immunologic processes by laboratory tests ........................................ 1 credit

BLOOD BANK TECHNIC.—Procedures for the handling and storage of blood, as well as preparation of blood for transfusion, are taught during this service. Methods for detection of incompatibility between bloods are emphasized ................................................... 1 credit

HISTOLOGIC TECHNIC.—The student learns methods of preparing tissues for microscopic examination, including fixation, sectioning, and staining .............................................................. 1 credit

MISCELLANEOUS.—The student performs routine examinations of urine, gastric contents, and other body fluids. In addition, the performance of basal metabolic rate determinations is accomplished ...... 1 credit

ADDITIONAL COURSES AVAILABLE:

The Department of Pathology also offers separate courses in histologic technic and cytotechnology. For further information on these programs, contact C. A. McWhorter, M.D., Chairman, Department of Pathology.
TRAINING COURSES FOR RADIOLOGIC TECHNOLOGISTS

HOWARD B. HUNT, M.A., M.D.
Professor of Radiology and Chairman of Department

RICHARD A. BOLAMPERTI, B.A., M.D.
Assistant Professor of Radiology

JAMES P. SCHLICHTEMIER, B.S., M.D.
Assistant Professor of Radiology

JOHN G. McMILLAN, B.S., M.A.
Consultant in Radiation Physics

MICHAELA ANN ARTS, R.T.
Chief Technologist

CAROL DWORAK, B.S., R.T.
Radioisotope Technologist

JOHANNA M. MORRELL, R.N.
Radiotherapy Nurse

Organization.—Two programs for training of radiologic technologists have been established by the Board of Regents in connection with the Department of Radiology, College of Medicine. The certification program, open to qualified men and women graduates of high school, prepares the candidate as a general radiologic technologist, and by special courses as a radioisotopic technologist or radiotherapy technologist. The B.S. in radiologic technology program, open to qualified collegiate students, provides additional didactic training and requires further competence in radioisotopic or other special technology. Each program extends over a two year period. The courses have been approved by the Council on Medical Education and by the American Registry of Radiologic Technologists. Graduates of both programs are eligible for examination by the American Registry of Radiologic Technologists, which grants eligibility to the title of Registered Technologist upon successful completion of the examination.

Facilities for Instruction.—Basic science instruction is provided by the Departments of Anatomy, Physiology, and Radiology at the College of Medicine. Instruction and experience in radiologic technology are provided in the Department of Radiology of the University of Nebraska Hospital. Facilities are provided for experience in all usual and most special radiographic procedures through supervision by the radiologists and the senior radiologic technologists. Facilities are provided for experience in radiotherapy and radioisotopic procedures. All students and staff members are routinely monitored and carefully protected against exposure to radiation. The libraries of the College of Medicine and of the Department of Radiology are available for reference. Students are eligible to attend seminars, conferences, and convocations held on the College of Medicine campus.

Requirements for Admission.—An applicant for admission to the course in radiologic technology must be in good health with no disability and be a graduate of an accredited high school. Preference is shown to those applicants with a balanced program including English, chemistry, physics, biology, typing, and secretarial work, although applicants will be considered who do not present credits in all such subjects. One year
of collegiate study including English, physics, zoology, chemistry, typing, and secretarial work is recommended.

Candidates for the B.S. program are required to have completed 90 semester hours of college courses including 8 hours of chemistry, 8 hours of physics, an additional 4 hours in physics or chemistry, 6 hours of English, and 8 hours of biology prior to enrollment at the College of Medicine. Collegiate courses in psychology and education are recommended since the degree graduates are in demand as teachers of radiologic technology in hospitals and medical schools.

The completed application should be accompanied by a transcript of all high school and college credits, a photograph, and the names and addresses of two people from whom references can be obtained. Admission is allowed in June. 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 & Dewey Avenue, Omaha, Nebraska 68105. Application forms will be provided on request.

Fees and Expenses.—The tuition fee is $150 for a resident of the State of Nebraska and $250 for a nonresident. A $25 deposit is required at the time of acceptance, returnable to the applicant only under extenuating circumstances. Tuition fee covers registration, student health, and diploma fees as well as tuition. Students maintain themselves and provide their own uniforms. Cost of textbooks is about $30. Board is available in the vicinity of the hospital and rooms are open to women students in Conkling Hall for a nominal fee. In the second year no tuition is charged and a stipend is available for the six students with superior scholastic records. Loan funds are available to students in training as technologists through the generosity of the W. K. Kellogg Foundation. Information concerning loans can be secured from the Director.

General Information.—All students are accepted on a probationary basis during the first three months of training. Students are in class or on duty in the Department of Radiology a total of 40 hours per week. Night call is taken on rotation during the second year. A vacation of two weeks is allowed either during the summer or at other arranged times. A general physical examination and immunization against diphtheria, typhoid fever, and smallpox are provided by the Student Health Service.

Curriculum.—The course of training for students in radiologic technology consists of lectures, demonstrations, and supervised experience. When not in class the student works with the staff technologists in the conduct of various types of radiologic procedures. Gradually increasing responsibilities are assigned to students as their competence increases. During the two years in training the student participates personally in all activities by scheduled rotation through all divisions in the Department of Radiology.

The following courses are required of candidates for the B.S. in Radiologic Technology:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>College credits</td>
<td>90</td>
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<tr>
<td>Anatomy</td>
<td>3</td>
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<tr>
<td>Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Radiology</td>
<td>2</td>
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<tr>
<td>Office Procedures</td>
<td>1</td>
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<tr>
<td>Physics</td>
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<tr>
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<tr>
<td>Radioisotopic Technology</td>
<td>12</td>
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<td>Total</td>
<td>130</td>
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Courses required of candidates for certificates in radiologic technology and in radioisotopic technology are indicated below. Qualified special students enrolled in radioisotopic technology at the Omaha Veterans Hospital receive university credit for specified courses but no certificate is granted to such special students by the University of Nebraska College of Medicine. Credits are expressed in semester hours.

1. **ANATOMY.**—Lectures, class recitations, demonstrations, and laboratory work dealing with the structure of the human body. Preserved specimens and fresh animal specimens are used for study. 3 cr. hrs.

2. **PHYSIOLOGY.**—Lectures, demonstrations, and laboratory dealing with the functions of the human body. Required of B.S. candidates. 3 cr. hrs.

3. **PRINCIPLES OF RADIOLOGY.**—The general principles of radiation, technic, contrast media, and various diagnostic procedures are presented together with the basic principles of X-ray and radium therapy. Lectures include professional ethics. 2 cr. hr.

4. **OFFICE PRACTICE.**—Supervised experience covering filing, cross indexing of diagnoses according to the Standard Nomenclature of Disease, vocabulary training, and transcription of radiological reports. 1 cr. hr.

5. **a. BASIC RADIATION PHYSICS.**—Production, characteristics, and control of radiation as applicable to radiographic technic and radiotherapy. 2 cr. hrs.

   **b. RADIOISOTOPIC PHYSICS.**—Theory of atomic and nuclear structure, concepts of matter, natural and artificial radioactivity. (Required of candidates for certification in radioisotope technology and for B.S. in radiologic technology.) 1 cr. hr.

   **c. HEALTH PHYSICS.**—Lectures, laboratory, and supervised training in monitoring and personnel safety measures, application of federal and other regulations, and radioisotope accountability. (Required of candidates for certification in radioisotope technology and for B.S. in radiologic technology.) 1 cr. hr.

6. **a. ELEMENTARY RADIOGRAPHIC TECHNOLOGY.**—Demonstration of anatomical positioning and adaptation of radiographic exposure to the more common radiographic examinations. 6 cr. hrs.

   **b. INTERMEDIATE RADIOGRAPHIC TECHNOLOGY.**—Supervised application of above principles by the student in the conduct of routine radiographic procedures. 6 cr. hrs.

7. **a. RADIOtherAPEUTIC TECHNOLOGY.**—Demonstration of types of diseases to which radiotherapy is applicable and of their treatment by X-ray, telecobalt, radium, and other radioactive agents. 3 cr. hrs.

   **b. ADVANCED RADIOtherAPEUTIC TECHNOLOGY.**—Extended experience in radiotherapeutic technology, seminars in clinical radiation dosimetry and radiobiology, participation in tumor follow-up and registry. (Open to graduate technologists and graduate nurses who on completion qualify for national examination and certification as Radiotherapeutic Technologist.) 30 cr. hrs.

8. **a. BASIC RADIOISOTOPIC TECHNOLOGY.**—Supervised experience in instrumentation and laboratory procedures. 4 cr. hrs.

   **b. INTERMEDIATE RADIOISOTOPIC TECHNOLOGY.**—Lectures and supervised experience in special laboratory determinations. (Required of all
candidates for certification in radioisotope technology and for B.S. in radiologic technology.) 4 cr. hrs.

**c. ADVANCED RADIOISOTOPIC TECHNOLOGY.**—Theory and application of advanced radioisotopic technics in hospital and research laboratory procedures. (Required only of candidates for certification in radioisotope technology and B.S. in radiologic technology.) 4 cr. hrs.

**d. NEUTRON ACTIVATION ANALYSIS.**—Lectures and supervised laboratories utilizing the Triga nuclear reactor, radiochemistry laboratory, and multichannel analyzer for microanalysis of trace elements at the Omaha Veterans Hospital. (Elective by candidates for B.S. degree or for certification in radioisotopic technology.) 2 cr. hrs.

**Opportunities.**—There is an increasing demand for qualified technologists primarily in the departments of radiology in hospitals and in the offices of doctors specializing in radiology. Radioisotopic technologists find opportunities both in clinical laboratories and in research laboratories. There is no opportunity for independent operation of a radiologic laboratory by the technologist since the use of radiation in the diagnosis and treatment of disease is legally the practice of medicine and in the interest of public welfare must be carried out under the supervision of a licensed physician.
COLLEGES, SCHOOLS, AND DIVISIONS
OF
THE UNIVERSITY OF NEBRASKA

Junior Division
Supervises the orientation, advising, and registration of freshmen.

College of Agriculture and Home Economics
Leading to the degree of Bachelor of Science in Agriculture.
In addition to the resident teaching division, the College of Agriculture is comprised of the Agricultural Experiment Station with headquarters on the Lincoln campus and at outlying stations at North Platte, Scottsbluff, Alliance, Crawford, Mead, and Concord; the Agricultural Extension Service with headquarters in Lincoln, and county or district extension offices at 83 locations in the state; and the University of Nebraska High School of Agriculture at Curtis.

School of Home Economics
Leading to the degree of Bachelor of Science in Home Economics.

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 Music, Bachelor of Fine Arts, 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 Business Administration, Bachelor of Arts in Education—in the appropriate colleges—and to a Professional Certificate in Journalism.

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

College of Dentistry
Leading to the degree of Doctor of Dental Surgery.

College of Engineering and Architecture
Leading to the degrees of Bachelor of Science in Agricultural 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.
Supervises Nebraska Engineering Experiment Station, Lincoln.

School of Architecture
Leading to the degrees of Bachelor of Architecture, Bachelor of Science in Construction Science.

Graduate College

Graduate School of Social Work
Leading to the degree of Master of Social Work.

College of Law
Leading to the degree of Juris Doctor.

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 Radiological Technology, certificate in Medical Technology, and certificate in Radiologic Technic.

School of Nursing
Leading to the degree of Bachelor of Science 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 University High School, Lincoln.

University Extension Division
Summer Sessions
Separate bulletins or information concerning any college, school, or division can be obtained free of charge by addressing the Registrar, University of Nebraska, Lincoln, Nebraska 68508