

1954

Bulletin of the University of Nebraska: Annual Catalog of the College of Medicine, 1954-1955

University of Nebraska College of Medicine

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1954



RESERVE

1955

bulletin of the

UNIVERSITY
of
NEBRASKA



college of medicine,
omaha

college of medicine
1954-55
course offerings

**THE UNIVERSITY OF NEBRASKA
COLLEGE OF MEDICINE**

Calendar for 1954-55

Summer 1954 (Seniors Only)

July 6, Tuesday	Registration and Summer Quarter Begins
August 11, Wednesday	Second Half Summer Work Begins
September 6, Monday	Labor Day Holiday
September 15, Wednesday	Summer Quarter Ends (Seniors assigned on Dispensary during summer will begin June 21 and continue through September 21. Vacations will be staggered.)

Fall Quarter

September 17, Friday	Registration and Physical Examinations — Freshmen and Junior Transfers
September 18, Saturday	Aptitude and Intelligence Tests—Freshmen
September 20, Monday	Registration—Juniors and Orientation—Freshmen
September 21, Tuesday	Registration—Sophomores and Seniors, Orientation—Juniors.
September 22, Wednesday	Fall Quarter Begins
November 8, Monday	Second Half Fall Quarter Work Begins
November 24-29 8 a.m. Wednesday through Sunday	Thanksgiving Vacation
December 18, Saturday	Fall Quarter Ends
December 20-Jan. 2, 1955	Christmas Vacation

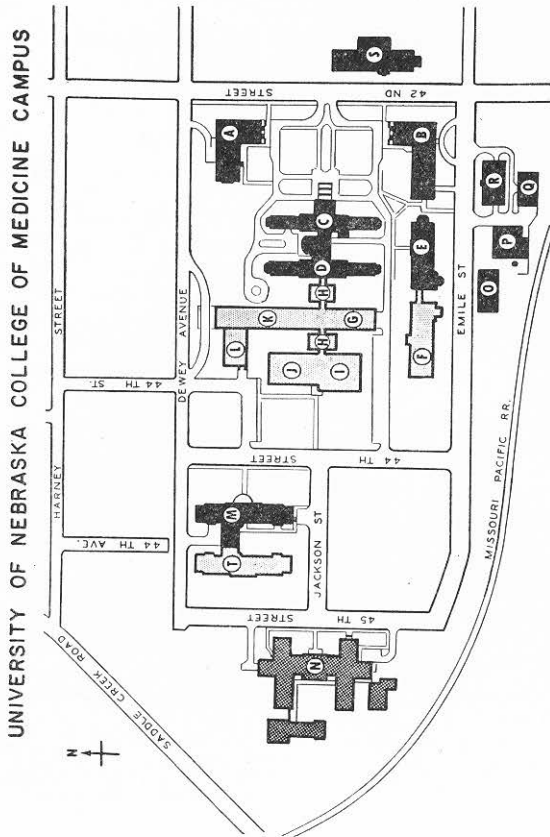
Winter Quarter

January 3, Monday	Winter Quarter Begins
February 14, Monday	Second Half Winter Quarter Work Begins
March 23, Wednesday	Winter Quarter Ends
March 24-27, Thursday through Sunday	Spring Vacation

Spring Quarter

March 28, Monday	Spring Quarter Begins
April 30, Saturday	Premedic Day
May 4, Wednesday	Second Half Spring Quarter Senior Work Begins
May 30, Monday	Memorial Day Holiday
June 11, Saturday	Last Day Senior Work
June 13-17, Monday through Friday	Senior Theses Reviews
June 18, Saturday	COMMENCEMENT—Spring Quarter Ends

Note: Registration for Winter and Spring Quarters will be held during free hours during first week of the quarter. Late fee will be charged students not registered at times designated.



EXISTING, 1954

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

TO BE CONSTRUCTED

- F. Nurses' Home
- G. 150-Bed Hospital
- H. Class Rooms
- I. Library and Student Activities
- J. Medical Center Auditorium
- K. University Clinic, Laboratories, Research
- L. Admissions and Emergency
- T. Children's Memorial Hospital Unit II

ADMINISTRATION

The Board of Regents

	<i>Term Expires</i>
Robert W. Devoe, Lincoln, President.....	January 1955
James Leroy Welsh, Omaha.....	January 1955
J. G. Elliott, Scottsbluff.....	January 1957
Earle G. Johnson, M.D., Grand Island.....	January 1957
Charles Y. Thompson, West Point.....	January 1959
B. N. Greenberg, M.D., York.....	January 1959
John Kent Selleck, Lincoln, Corporation Secretary	

The University

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

Emeriti Faculty

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

* Deceased March 8, 1954.

Active Faculty

- Payson Stone Adams, B.Sc. in Med., M.D., Professor of Urology. —
 John Andrew Aita, Ph.D., M.D., Associate Professor of Neurology and Psychiatry. —
 Leland Clayton Albertson, A.B., M.D., Instructor in Internal Medicine. —
 George Thomas Alliband, B.Sc., M.D., Assistant Professor of Ophthalmology. —
 Maine C. Andersen, M. D., Assistant Professor of Internal Medicine. —
 Harley Eric Anderson, B.Sc. in Med., M.D., Associate Professor of Obstetrics and Gynecology. —
 Lawrence Lloyd Anderson, A.M., M.D., Associate in Surgery. X
 William Dodge Angle, B.Sc., M.D., Instructor in Internal Medicine. —
 Stanley Monrad Bach, A.B., M.D., Associate in Orthopedic Surgery and Instructor in Anatomy. —
 Clarence Fredrick Bantin, B.Sc., M.D., Associate in Pediatrics. —
 Elmer William Bantin, B.Sc., M.D., Assistant Professor of Pediatrics. —
 Anthony Joseph Barak, B.Sc., M.Sc., Ph.D., Instructor in Biochemistry. —
 John L. Barmore, M.D., Associate in Surgery. —
 Meyer Beber, B.Sc., Ph.D., M.D., Assistant Professor of Internal Medicine and Biochemistry. X
 Kathryn Tobin Bellis, B.A., M.Sc.S.W., Associate in Neurology and Psychiatry. —
 James Winfred Benjamin, B.A., M.A., Ph.D., Associate Professor of Anatomy, Assistant Dean of the College of Medicine. —
 Arthur Lawrence Bennett, A.B., Ph.D., M.D., Professor of Physiology and Pharmacology. —
 Gordon Newall Best, B.Sc., M.D., Assistant Professor of Internal Medicine. —
 Rolland Russell Best, B.Sc., M.D., Professor of Surgery and Assistant Professor of Anatomy. X
 James Dewey Bisgard, A.B., M.D., Professor of Surgery. X
 John Grierson Brazier, A.B., M.D., Assistant Professor of Internal Medicine —
 John Francis Bresnahan, B.Sc., M.D., Instructor in Physical Diagnosis. —
 I. William Brill, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry. —
 Herman Henry Brinkman, M.D., Clinical Assistant in Surgery. —
 Edward Robert Brousseau, B.A., M.D., Instructor in Neurology and Psychiatry. X
 James Matthews Brown, M.D., Professor of Military Science and Tactics. —
 Kenneth Murle Browne, M.Sc., M.D., Associate in Neurological Surgery and Adjunct Instructor in Physiology and Pharmacology. X
 John Hobart Brush, A.B., M.D., Instructor in Surgery. —
 Donald John Bucholz, A.B., M.A., M.D., Associate in Internal Medicine. —
 Thelma Leota Bullard, B.Sc. in O.T., Instructor in Neurology and Psychiatry. —
 Dwight Willard Burney, Jr., A.B., M.D., Instructor in Orthopedic Surgery, Assistant in Anatomy. —
 Olin James Cameron, M.S., M.D., Associate Professor of Dermatology (*Chairman of Department.*) —
 Louis Scott Campbell, B.Sc., M.D., Assistant Professor of Orthopedic Surgery. —
 Oscar Carp, B.Sc., M.D., Associate in Otorhinolaryngology. —
 Waldron Alvin Cassidy, A.B., M.D., Associate Professor of Otorhinolaryngology and Consultant in Bronchoscopy. —
 Arthur O. Chapman, A.B., M.A., Ph.D., Assistant Professor of Anatomy. —
 George Leonard Clark, B.Sc., M.D., Assistant Professor of Pediatrics. —
 Augustus David Cloyd, A.B., M.D., Associate in Internal Medicine. —
 Robert Morris Cochran, B.Sc., M.D., Associate in Surgery and Instructor in Anatomy. —
 John Daniel Coe, M.D., Clinical Assistant in Surgery and Assistant in Anatomy. —
 Francis C. Coleman, M.D., Clinical Assistant Professor of Pathology and Bacteriology. —
 Robert Marshall Collins, B.Sc. in Med., M.D., Assistant Professor of Obstetrics and Gynecology. —
 Walter Thomas Cotton, B.Sc. in Med., M.D., Associate in Obstetrics and Gynecology. —
 Michael Crofoot, A.B., M.D., Associate in Pediatrics. —
 Edmund Jesse Dailey, D.D.S., Assistant Professor of Dental Surgery. —
 Edwin Davis, A.B., M.D., Professor of Urology. —
 Edwin Davis, Jr., B.A., M.D., Clinical Assistant in Urology. —
 Herbert Haywood Davis, A.B., M.D., Professor of Surgery. (*Chairman of Department.*) X
 James Allan Davis, B.Sc., M.D., Instructor in Otorhinolaryngology. —
 John Calvin Davis, Jr., A.B., M.D., Professor of Otorhinolaryngology. (*Chairman of Department.*) —

* Deceased November 9, 1953.

** On leave of absence.

- William John Dickerson, A.B., M.D., Instructor in Internal Medicine.
 Robert Hugh Dickinson, A.B., M.D., Assistant Professor of Neurology and Psychiatry.
 Frank Lowell Dunn, B.Sc., A.M., M.D., Professor of Internal Medicine and Associate Professor of Clinical Physiology.
 Frank Lewis Eagle, B.Sc., M.D., Instructor in Ophthalmology.
 Alfred George Ellick, A.B., J.D., Assistant Professor of Medical Jurisprudence.
 Robert James Ellington, B.Sc., M.A., Ph.D., Assistant Professor of Medical Psychology.
 H. Chandler Elliott, B.A., M.A., Ph.D., Associate Professor of Anatomy.
 Herman Charles Ellsworth, B.A., M.D., Instructor in Radiology.
 John Clayton Filkins, B.Sc., M.D., Instructor in Ophthalmology.
 David Pressley Findley, M.D., Associate Professor of Obstetrics and Gynecology.
 Alister Ian Finlayson, M.A., M.D., Associate Professor of Neurological Surgery.
 Don Casot Fitzgerald, M.A., Ph.D., Assistant Professor of Medical Psychology.
 Max Fleishman, M.D., Instructor in Internal Medicine.
 Miles E. Foster, A.B., B.Sc., M.D., Assistant Professor of Pathology and Bacteriology.
 Muriel Naomi Frank, A.B., M.D., Instructor in Anesthesiology.
 Albert Edward Freed, B.Sc., M.D., Instructor in Internal Medicine.
 Fred J. Fricke, B.Sc., M.Sc. in Phys. Med. and Rehabilitation, M.D., Instructor in Physical Medicine and Rehabilitation.
 Raymond John Friel, B.Sc., M.D., Assistant in Anatomy.
 Samuel Isaiah Fuenning, B.Sc., M.Sc., M.D., Clinical Assistant in Internal Medicine.
 Charles C. Gass, B.Sc., M.D., Clinical Assistant in Radiology.
 John Leo Gedgoud, B.Sc., M.D., Associate Professor of Pediatrics.
 Horace Kerr Giffen, A.B., M.D., Assistant Professor of Pathology and Bacteriology.
 Harold Gifford, Jr., B.Sc. in Med., M.D., Associate Professor of Ophthalmology.
 Ray O'Herin Gillies, Jr., B.Sc., M.D., Instructor in Otorhinolaryngology.
 Julius Charles Goldner, B.Sc., M.D., Instructor in Neurology and Psychiatry.
 William Ernest Graham, A.B., M.D., Instructor in Internal Medicine.
 Harris Breiner Graves, A.B., M.D., Clinical Assistant in Internal Medicine.
 Richard Walter Gray, M.D., Instructor in Neurology and Psychiatry.
 Arthur Morton Greene, M.Sc., M.D., Assistant Professor of Medicine.
 Robert Leslie Grissom, M.D., Associate Professor of Internal Medicine.
 Millard Filmore Gunderson, Ph.D., Professor of Medical Microbiology. (*Chairman of Department.*)
 Walter Mark Gysin, M.D., Assistant Professor of Neurology and Psychiatry.
 William Rudolph Hamsa, B.Sc., M.D., Professor of Orthopedic Surgery. (*Chairman of Department.*)
 Ernest Wilberforce Hancock, A.B., M.D., Instructor in Pediatrics.
 Charles Robert Hankins, A.B., M.D., Assistant Professor of Internal Medicine.
 Lyman Howard Heine, A.B., M.D., Assistant Professor of Otorhinolaryngology.
 Harland Thomas Hermann, B.Sc., M.D., Instructor in Neurology and Psychiatry.
 Bernice M. Heitzner, B.A., M.A., Assistant Professor of Library Science.
 Hiram Hilton, M.D., Clinical Coordinator.
 Donald Vincent Hirst, A.B., M.D., Instructor in Obstetrics and Gynecology.
 Edward Augustus Holyoke, Ph.D., M.D., Professor of Anatomy.
 Leo Thomas Hood, B.Sc., M.D., Instructor in Orthopedic Surgery.
 Wayne McKinley Hull, M.Sc., M.D., Associate in Internal Medicine.
 Fred Ludwig Humoller, B.Sc., Ph.D., Associate Research Professor of Chemical Physiology and Pharmacology.
 Herbert Haynes Humphreys, A.B., M.A., Ph.D., Assistant Professor of Neurology and Psychiatry.
 Howard Beeman Hunt, A.M., M.D., Professor of Radiology and Physical Medicine. (*Chairman of Department.*)
 Charles Gregory Ingham, M.D., Clinical Assistant in Neurology and Psychiatry.
 Donald Robert Jackson, A.B., M.D., Instructor in Internal Medicine.
 Herbert Paul Jacobi, B.Sc., M.Sc., Ph.D., Assistant Professor of Biochemistry. (*Acting*)
 Herbert Paul Jacobi, B.Sc., M.Sc., Ph.D., Associate Professor of Biochemistry. (*Chairman of Department.*)
 Herman Mandel Jahr, B.Sc., M.D., Professor of Pediatrics. (*Chairman of Department.*)
 George Nick Johnson, Jr., M.D., Instructor in Surgery.
 Herman Frank Johnson, M.D., Professor of Orthopedic Surgery.
 Marshall R. Jones, A.B., M.A., Ph.D., Assistant Professor of Medical Psychology.
 Robert Eric Joranson, B.Sc., M.D., Associate in Internal Medicine.
 John Hewitt Judd, B.Sc., M.D., Professor of Ophthalmology. (*Chairman of Department.*)
 Henry Kammandel, B.Sc., M.D., Associate in Urology.
 J. Jay Keegan, A.M., M.D., Professor of Neurological Surgery.

~~John Charles Kennedy, M.A., M.D., Assistant Professor of Surgery and Instructor in Anatomy.~~

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

~~Frank Joseph Klabenes, B.Sc. in Med., M.D., Assistant Professor of Otorhinolaryngology.~~

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

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

~~James Robert Kovarik, M.D., Instructor in Obstetrics and Gynecology.~~

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

~~Benton Kutler, A.B., D.D.S., Instructor in Preventive Medicine.~~

~~Sol Kutler, D.D.S., Instructor in Preventive Medicine.~~

~~Edward Langdon, B.Sc., M.D., Instructor in Internal Medicine.~~

~~John Francis Latenser, M.D., Clinical Assistant in Surgery.~~

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

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

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

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

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

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

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

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

~~Robert Ellsworth Lovgren, B.Sc., M.D., Associate in Otorhinolaryngology.~~

~~Ralph Herbert Luikart, M.D., Associate Professor of Obstetrics and Gynecology.~~

~~George Jefferson Lytton, B.Sc., M.D., Instructor in Neurology and Psychiatry.~~

~~James Sylvester McAvin, Ph.G., M.D., Associate in Radiology and Physical Medicine.~~

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

~~Harry Webber McFadden, A.M., M.D., Assistant Professor of Pathology and Medical Microbiology.~~

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

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

~~Archibald Ross McIntyre, Ph.D., M.D., Professor of Physiology and Pharmacology. (Chairman of Department.)~~

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

~~George Boone McMurtrey, M.D., Clinical Assistant in Surgery.~~

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

~~Reginald Anslow MacHaffie, B.Sc., M.A., M.D., Clinical Assistant in Internal Medicine.~~

~~Ernest Lynn MacQuiddy, A.M., M.D., Professor of Internal Medicine.~~

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

~~Edward Marvin Malashock, A.B., M.D., Clinical Assistant in Urology.~~

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

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

~~Daniel Martin Miller, B.Sc., M.D., Instructor in Surgery.~~

~~Norman Gustav Miller, B.Sc., M.Sc., Ph.D., Instructor in Medical Microbiology.~~

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

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

~~Ralph Cory Moore, B.Sc., M.D., Associate Professor of Radiology and Physical Medicine.~~

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

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

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

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

~~Reuben Allyn Moser, A.B., M.D., Associate Professor of Internal Medicine, Director of Medical Clinic at the Dispensary, and Assistant Superintendent of University Hospital.~~

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

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

~~Nathan Muskin, A.B., M.D., Clinical Assistant in Internal Medicine.~~

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

~~Friedrich Wilhelm Niehaus, B.Sc., M.D., Professor of Medicine.~~

~~Donald Charles Nilsson, A.B., M.D., Instructor in Pediatrics.~~

* On military leave.

- ~~John Frederick Nilsson, M.D., Instructor in Surgery and Anatomy.~~
~~Byron Bay Oberst, B.A., M.D., Instructor in Pediatrics.~~
~~Leland J. Olson, A.B., M.D., Instructor in Obstetrics and Gynecology.~~
~~Earl Stanley Pederson, A.B., M.A., Ph.D., M.D., Assistant Professor of Radiology and Anatomy.~~
~~Paul David Pederson, M.P.H., M.D., Instructor in Preventive Medicine.~~
~~Maurice Lewis Pepper, B.Sc., M.D., Assistant Professor of Internal Medicine and Associate in Cardiology.~~
~~George Francois Pinne, M.D., Instructor in Dermatology and Syphilology.~~
~~Louis Thomas Placek, B.Sc., M.D., Instructor in Otorhinolaryngology.~~
~~Stanley Ernest Potter, M.D., Associate in Surgery and Instructor in Anatomy.~~
~~Eugene Francis Powell, A.B., Ph.D., Premedical Adviser, Assistant Professor of Zoology and Anatomy.~~
~~Peyton Thomas Pratt, A.B., M.D., Associate in Internal Medicine.~~
~~Robert Houston Rasgorshak, M.D., Assistant Professor of Ophthalmology.~~
~~John Arthur Rasmusen, M.D., Instructor in Surgery and Assistant in Anatomy.~~
~~John Philbrook Redgwick, B.Sc., M.D., Assistant Professor of Obstetrics and Gynecology.~~
~~Barney Benjamin Rees, A.B., M.A., M.D., Clinical Assistant in Surgery.~~
~~Oliver Francis Reihart, D.V.M., Instructor in Comparative Pathology.~~
~~Rose M. Reynolds, A.B., Instructor in Anatomical Illustration.~~
~~Floyd O. Ring, B.Sc., M.D., Instructor in Neurology and Psychiatry.~~
~~Jerome Ritter, M.D., Clinical Coordinator.~~
~~George Edwin Robertson, B.Sc. in Med., M.D., Associate Professor of Pediatrics.~~
~~Earl Alvin Rogers, B.A., M.D., Associate Professor of Preventive Medicine.~~
~~Charles Morton Root, M.D., Associate in Internal Medicine.~~
~~Jerman Walter Rose, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry.~~
~~William Leonard Rumbolz, A.B., M.D., Associate in Obstetrics and Gynecology.~~
~~Earl Cuddington Sage, B.Sc., M.D., Professor of Obstetrics and Gynecology.~~
~~Julius Samuels, B.Sc., M.Sc., M.Sc. Soc. Work, Associate in Neurology and Psychiatry.~~
~~Gilbert Lee Sandritter, M.D., Associate in Neurology and Psychiatry.~~
~~John Rudolph Schenken, B.Sc., M.D., Professor of Pathology and Bacteriology.~~
~~Rudolph Frederick Sievers, Ph.D., M.D., Instructor in Physiology and Pharmacology.~~
~~Eugene Earl Simmons, B.Sc., M.D., Professor of Internal Medicine.~~
~~Milton Simmons, B.Sc. in Med., M.D., Instructor in Pathology.~~
~~Dorothy Irene Smith, A.B., M.D., Instructor in Pediatrics.~~
~~Richard Dale Smith, A.B., M.D., Instructor in Orthopedic Surgery.~~
~~*Alvin Somberg, M.D., Instructor in Internal Medicine.~~
~~Clarence Thompson Spier, A.B., LL.B., Assistant Professor of Medical Jurisprudence.~~
~~Robert Johnston Stein, B.Sc., M.D., Instructor in Neurology and Psychiatry.~~
~~Abraham A. Steinberg, B.Sc., M.D., Associate in Ophthalmology.~~
~~John F. Steinman, A.B., M.D., Instructor in Neurology and Psychiatry, and Pediatrics.~~
~~LaVerne Craig Strough, B.Sc., M.D., Assistant Professor of Neurology and Psychiatry.~~
~~Samuel August Swenson, Jr., A.B., B.Sc., M.D., Associate in Surgery.~~
~~*Jerry X. Tamisiea, M.D., Instructor in Pathology.~~
~~Willis Heacock Taylor, B.Sc., M.D., Clinical Assistant in Obstetrics and Gynecology.~~
~~Earl S. Taulbee, A.B., Ph.D., Clinical Assistant in Neurology and Psychiatry.~~
~~Frederick Franklin Teal, A.B., M.D., Assistant Professor of Orthopedic Surgery.~~
~~Robert Charles Therien, B.Sc. in Med., M.D., Instructor in Anesthesiology.~~
~~John Martin Thomas, A.B., M.D., Associate Professor of Pediatrics.~~
~~Chester Quay Thompson, B.Sc. in Med., M.D., Associate Professor of Medicine.~~
~~Dorothy Helen Thompson, B.Sc. in Med., M.D., Assistant Professor of Anesthesiology.~~
~~Lynn Wirt Thompson, B.Sc., M.D., Instructor in Anesthesiology.~~
~~Warren Thompson, B.Sc., M.D., Professor of Internal Medicine.~~
~~James Perry Tollman, B.Sc. in Med., M.D., Professor of Pathology. (Chairman of Department), Director of the School of Medical Technologists, Dean of the College of Medicine and Superintendent of University Hospital.~~
~~Charles Archibald Tompkins, B.Sc. in Med., M.D., Associate in Pediatrics.~~
~~Stanley Marshall Truhlsen, A.B., M.D., Instructor in Ophthalmology.~~
~~Robert D. Vickery, A.B., M.D., Clinical Assistant in Ophthalmology.~~
~~Donald Clay Vroman, B.Sc. in Med., M.D., Associate in Obstetrics and Gynecology.~~
~~John R. Walsh, M.D., Associate in Internal Medicine.~~
~~Carl Arthur Walvoord, M.D., Clinical Assistant in Internal Medicine.~~
~~Chester Hill Waters, Jr., A.B., M.D., Assistant Professor of Orthopedic Surgery.~~

* On military leave.

- Robert Spencer Wigton, M.A., M.D., Associate Professor of Neurology and Psychiatry.
 Violet Myrtle Wilder, A.B., M.A., Ph.D., Assistant Professor of Biochemistry.
 Carlyle Everett Wilson, A.B., B.Sc., M.D., Clinical Assistant in Surgery and Assistant in Anatomy.
 Donald Jasper Wilson, A.B., B.Sc., M.D., Assistant Professor of Dermatology and Syphilology.
 Joseph Lorenzo Wilson, M.D., Instructor in Neurology and Psychiatry.
 Cecil Legriel Wittson, B.Sc., M.D., Professor of Neurology and Psychiatry. (*Chairman of Department.*)
 Willis Dean Wright, B.Sc., M.D., Associate in Internal Medicine.
 Raymond Joseph Wyrens, A.B., M.D., Associate in Internal Medicine.
 J. Lewis Yager, A.B., Ph.D., Associate in Neurology and Psychiatry.
 George Alexander Young, Jr., M.D., Associate in Neurology and Psychiatry.
 Frank Marshall Zahller, M.D., Clinical Assistant in Pediatrics.

Administration

- Irma Maurine Kyle, R.N., B.Sc., S.M., Director of the School of Nursing and Professor of Nursing.
 Reuben Allyn Moser, A.B., M.D., Assistant Superintendent of University Hospital and Associate Professor of Medicine.
 Helen Erikson, R.N., Superintendent of Dispensary.
 Josephine Chamberlin, R.N., Superintendent of Dispensary, Emeritus.
 Evelyn Schellak, A.B., M.S. in Soc. Adm., Director of Medical Social Service.
 Ruth ErDena Pohle, B.A., Supervisor in Hospital Laboratory.
 Violet May Pospichal, Assistant Registrar.
 Florence M. Classen, Secretary to the Dean.
 Doris Spragg, A.B., M.A., Director of Dietetics.
 Duane Johnson, B.Sc. in M. Hosp. Adm., Hospital Administrator.
 Herschel Nuss, Assistant Finance Director.
 James Oschner, B.Sc. in Bus. Ad., Assistant Purchasing Agent.
 Ralph Simon, B.Sc. in M.E., Assistant Superintendent of Buildings and Grounds.
 Thomas Coleman, B.Sc., Assistant Director of Public Relations, University of Nebraska.

DEPARTMENT CHAIRMEN

DEPARTMENT OF ANATOMY

J. S. Latta, Chairman

DEPARTMENT OF BIOCHEMISTRY

H. P. Jacobi, Chairman

DEPARTMENT OF DERMATOLOGY AND SYPHILOLOGY

O. J. Cameron, Chairman

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

L. S. McGoogan, Chairman

DEPARTMENT OF OPHTHALMOLOGY

J. H. Judd, Chairman

DEPARTMENT OF OTORHINOLARYNGOLOGY

J. C. Davis, Chairman

DEPARTMENT OF PEDIATRICS

H. M. Jahr, Chairman

DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

A. R. McIntyre, Chairman

DEPARTMENT OF INTERNAL MEDICINE

W. B. Moody, Chairman

DEPARTMENT OF MEDICAL JURISPRUDENCE

DEPARTMENT OF MEDICAL MICROBIOLOGY

M. F. Gunderson, Chairman

DEPARTMENT OF NEUROLOGY AND PSYCHIATRY

C. L. Wittson, Chairman

DEPARTMENT OF ORTHOPEDIC SURGERY

W. R. Hamsa, Chairman

DEPARTMENT OF PREVENTIVE MEDICINE

DEPARTMENT OF PATHOLOGY

J. P. Tollman, Chairman

DEPARTMENT OF RADIOLOGY AND PHYSICAL MEDICINE

H. B. Hunt, Chairman

DEPARTMENT OF SURGERY

H. H. Davis, Chairman

DEPARTMENT OF UROLOGY

Leroy W. Lee, Chairman

COMMITTEES OF THE FACULTY

Admissions and Scholastic Standing

Drs. Pederson, *Chairman*, Dickinson, Fitzgerald, Giffen, Hamsa, Latta, McFadden

Budget and Policy

Drs. H. H. Davis, *Chairman*, H. Anderson, Dunn, Graham, Gunderson, Hunt, Latta, McFadden, McIntyre, Moody

Buildings and Grounds

Drs. Dunn, *Chairman*, Barmore, Hunt, McWhorter, Potter, Wittson, Mr. D. Johnson

Clinical Clerk Co-ordinators

Drs. Moody, *Chairman*, Hamsa, Therien

Curriculum Committee

Drs. Bennett, *Chairman*, H. H. Davis, Gedgoud, Holyoke, McIntyre, Pratt

Dispensary

Drs. Pepper, *Chairman*, Eagle, Kammandel, Kulesh, Rumbolz, Swenson

Examinations

Drs. Beber, *Chairman*, Adams, Aita, Campbell, Crofoot, Freed, Morrison, D. C. Nilsson, Olson

Executive Committee of the Faculty

Drs. H. H. Davis, J. C. Davis, Dunn, Gunderson, Hamsa, Hunt, Jahr, Judd, Miss Kyle, Drs. Latta, Lee, McGoogan, McIntyre, Moody, Jacobi, Pederson, Pratt, Wittson, Tollman, Steenburg

Library

Drs. Latta, *Chairman*, Hankins, Moon, Wetherell, Mrs. Hetzner, Miss Alspach

Preceptorship

Drs. MacQuiddy, *Chairman*, Best, McCarthy, Moon, Niehaus, W. Thompson, Fay Smith

Public Relations

Drs. Lee, *Chairman*, R. R. Best, Brush, Dunn, Potter, Redgwick, Schenken, Simons, Wittson

Refresher

Drs. Graham, *Chairman*, C. F. Bantin, Bucholz, Gedgoud, Rasmussen

Resident Advisory

Drs. Bisgard, *Chairman*, Greene, Schenken

Special Functions

Drs. Kulesh, *Chairman*, Chapman, Cotton, D. Smith, Wilder, Miss Reynolds, Miss Pospichal, Miss Williams

Student Assistance

Drs. Holyoke, *Chairman*, Bach, Elliott, Gunderson

University Hospital

Drs. Hunt, *Chairman*, H. E. Anderson, Jahr, Lehnhoff, McLaughlin, McWhorter, Moser, Miss Kyle, Mr. D. Johnson

Interns*

1954-1955

William Henry Bunstock, B.Sc. in Med., M.D.	John LeRoy Lang, B.Sc., M.D. Thomas Lucas, B.Sc., M.D.
Donald Wilterdink Cherry, B.A., M.D.	John Wesley Porter, B.Sc., M.D.
William John Chleborad, A.B., M.D.	Robert Smith, B.A., M.D.
Leslie Irl Grace, Jr., B.A., B.Sc. in Med., M.D.	Wesley Franklin Springer, A.B., M.D. Ronald Edgar Waggener, B.Sc., M.D.
Frank Kamm, B.Sc., M.D.	

Residents*

1954-1955

ANESTHESIOLOGY

Keay Hachiya, B.A., M.D.

INTERNAL MEDICINE

Charles Albert Hamilton, B.Sc., M.Sc., M.D.	Robert Alexander Mitchell, B.Sc., M.Sc., M.D.
Gordon Frederick Johnson, B.A., M.D.	Robert Carl Rosenlof, B.Sc. in Med., M.D.
Dace Bolyan Mitchell, B.Sc. in Med., M.D.	

OBSTETRICS AND GYNECOLOGY

Edwin Heman Barnes, III, M.D.	Ramona Jean Middleton, M.D.
John O. McCarthy, B.Sc. in Med., M.D.	Colin Burwell Schack, B.A., M.D.

OPHTHALMOLOGY

Phillip Paul Ellis, M.D.	Waldean Chester McIntire, M.D.
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ORTHOPEDIC SURGERY

Warren J. Roberts, M.D.

* Subject to approval by the Board of Regents.

PATHOLOGY

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

PSYCHIATRY

Ilse C. Beck, M.D. Robert Dale Jones, M.D.
 Robert Sullivan Behrns, B.A., M.D. Robert Benton Muffly, B.A., M.D.
 Theodore G. Denton, B.Sc., M.D. Manuel Augusto Torres, M.D.
 Adolph Vincenz Guggenbuhl, M.D. Tahir Bulent Tunakan, M.D.
 Orville Henry Johnson, B.Sc., M.Sc.,
 M.D.

RADIOLOGY

Abraham Alpert, M.D. George Robert Pullman, M.D.
 Shaun Gunderson, B.Sc. in Med., M.D.

SURGERY

John Lear Beattie, B.Sc. in Med., M.D. Harold Daniel Jourdan, B.A., M.D.
 Thomas Edward Bilon, M.D. Kenneth Francis Kimball, M.D.
 Lawrence Taylor DeBusk, B.Sc. in Med.,
 M.D. Robert Dudley Olney, A.B., M.D.
 Richard Henry Jesse, B.Sc. in Med.,
 M.D. Donald Trojan Stroy, B.A., M.D.

CLINICAL ASSOCIATES IN GENERAL PRACTICE

James Gillan Allen, B.Sc. in Med., M.D. and Isaiah Lukens, A.B., B.Sc., M.D., Tekamah
 Carl Gideoir Amick, B.Sc., M.D., Loup City
 Allen Byford Anderson, M.D., Pawnee City
 Arthur Wesley Anderson, M.D., Lexington
 Chauncey Leroy Anderson, M.D., Stromsburg
 Carl Cecil Barr, B.Sc., M.D., and Robert Earl Barr, M.D., Tilden
 Walter Benthack, M.D., Wayne
 Herbert Alva Blackstone, B.Sc., M.D., Bridgeport
 Rolland Roy Brady, M.D., and William D. Lear, B.Sc., M.D., Ainsworth
 Charles Maxwell Coe, B.Sc., M.D., Wakefield
 Roy Spencer Cramm, B.Sc. in Med., M.D., Burwell
 Benhard Farner, M.D., and George Salter, M.D., Norfolk
 John Edgar Farner, M.D., and Wilbur Edward Johnson, A.B., B.Sc., M.D., Valentine
 W. Max Gentry, A.B., M.D., Gering
 Benjamin Hayes Grimm, B.Sc., M.D., Sidney
 George Alfred Haslam, A.B., B.Sc., M.D., Fremont
 Clifford Dale Howard, B.Sc., M.D., and Rudolph Frederick Sievers, Ph.D., M.D., Blair
 Marvin Anthon Johnson, M.D., Plainview
 A. A. Larsen, B.Sc., M.D., South Sioux City
 Earl Francis Leininger, B.Sc., M.D., McCook
 John Lewis McFee, B.Sc., M.D., Ogallala
 Julian E. Meyer, M.D., and Everett C. Brillhart, B.Sc., M.D., Columbus
 Donal Hobart Morgan, B.Sc., M.D., McCook
 H. Dey Myers, B.Sc., M.D., Schuyler
 Harold Jay Panzer, A.B., M.A., M.D., Bassett
 Theodore August Peterson, M.D., and Walter M. Reiner, M.D., Holdrege
 Dan Atchison Nye, M.D., Kearney
 Bert W. Pyle, M.D., Gothenburg
 Paul Milton Scott, B.Sc. in Med., M.D., Auburn
 Willard George Seng, M.D., Oshkosh
 Alfred Harold Shamberg, M.D., Kimball
 Fay Smith, B.Sc., M.D., Imperial
 Donald Benjamin Steenburg, B.Sc., M.D., Aurora
 Carl Herman Louis Stehl, M.D., Scribner
 H. S. Tennant, B.Sc., M.D., Stanton

BRYAN MEMORIAL HOSPITAL**Adjunct Physicians and Surgeons**

Paul Martin Bancroft, B.Sc., M.Sc., M.D.—Pediatrics.
 Wilbur W. Bartels, M.D.—Orthopedic Surgery.
 John Hodgson Barthell, M.D.—Dermatology and Syphilology.
 John A. Brown, B.Sc., M.D.—General Practice.
 Louis T. Davies, A.B., B.Sc. in Med., M.A., M.D.—Surgery.
 Maurice D. Frazer, B.Sc., M.D.—Radiology.
 Richard Earl Garlinghouse, A.B., M.D.—Obstetrics and Gynecology.
 Robert S. Grant, M.D.—Pediatrics.
 Hiram David Hilton, B.A., M.D.—Surgery.
 Paul J. Maxwell, M.D.—Internal Medicine.
 Kenneth T. McGinnis, B.Sc., M.D.—Obstetrics and Gynecology.
 Howard Eugene Mitchell, M.D.—Orthopedic Surgery.
 Herschel B. Morton, B.Sc., M.D.—Surgery.
 Laverne F. Pfeifer, B.A., M.D.—Urology.
 E. Burkett Reed, B.Sc., M.D.—Internal Medicine.
 Sidney O. Reese, B.Sc., M.D.—Surgery.
 Lee Stover, A.B., M.D.—Internal Medicine.
 Bowen E. Taylor, A.B., M.D.—Internal Medicine.
 Harry Allen Taylor, A.B., B.Sc. in Med., M.D.—General Practice.
 James E. M. Thomson, A.B., M.D.—Orthopedic Surgery.
 Frederick S. Webster, A.B., M.D.—Surgery.
 W. Wallace Webster, D.D.S.—Oral Surgery.
 Maynard A. Wood, B.Sc., M.D.—Ophthalmology.
 Robert Armstrong Youngman, M.D.—Internal Medicine.

LINCOLN GENERAL HOSPITAL**Adjunct Physicians and Surgeons**

Marion Porter Broisma, A.B., B.Sc., M.D.—Internal Medicine.
 *Orange Van Calhoun, B.Sc., M.D.—Internal Medicine.
 LeGrande Dwight Cherry, B.Sc., M.D.—Surgery.
 George W. Covey, B.Sc., M.D.—Internal Medicine.
 Clarence Kilgore Elliott, A.B., M.D.—Internal Medicine.
 Robert O. Garlinghouse, A.B., M.D.—Surgery.
 Louis James Gogela, B.Sc. in Med., M.A., M.D.—Neurology and Psychiatry.
 Harry Evans Harvey, B.Sc., M.D.—Obstetrics and Gynecology.
 Robert Antoine Hillyer, B.A., M.D.—Surgery.
 Harold Smith Morgan, M.D.—Obstetrics and Gynecology.
 Horace Varnum Munger, A.B., M.D.—Urology.
 Orvis A. Neely, B.Sc., M.D.—Radiology.
 Paul L. Peterson, M.D.—Otolaryngology.
 Donald Frederick Purvis, M.D.—Internal Medicine.
 Jerome Ritter, A.B., M.D.—Internal Medicine.
 Floyd Leslie Rogers, B.Sc., M.D.—Internal Medicine.
 Kenneth Dwight Rose, M.A., M.D.—General Practice.
 George Ewing Stafford, B.Sc., A.B., M.D.—Pediatrics.
 Robert Johnston Stein, B.Sc., M.D.—Neurology and Psychiatry.
 Frank A. Stewart, B.Sc., M.D.—Orthopedic Surgery.
 Frank Paschal Stone, A.B., M.D.—Orthopedic Surgery.
 Frank Harold Tanner, B.Sc., M.D.—Pathology.
 **Roy H. Witham, A.B., M.D.—Surgery.
 Horace Halsey Whitlock, B.Sc., M.D.—General Practice.

* Deceased November 2, 1953.

** Deceased April 7, 1954.

COLLEGE OF MEDICINE

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

Standing.—Nebraska legislatures, since 1913, have appropriated more than three million dollars which the Board of Regents has devoted to the construction and equipment of buildings on the University of Nebraska College of Medicine campus at Omaha. In the 1953 Session of the Nebraska Legislature a bill was passed to raise \$6,000,000 within the next five years to build an addition to the University of Nebraska Hospital and to increase other teaching facilities on the College of Medicine campus. The campus provides for the instruction of students in the preclinical sciences, and in the University Hospital and Dispensary, for clinical teaching and experience. A strong faculty has met the demands of the expanding requirements of medical education, and, through affiliated hospitals, adequate clinical facilities have been provided.

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

The course of study in medicine covers four years of 36 to 48 weeks each. The first two years in medicine include those laboratory sciences which form the basis for the clinical studies of the last two years. The clinical application of laboratory subjects is emphasized and introductory clinical subjects are given in the second year. The last two years are spent largely in the study of disease in clinics of the hospital and outpatient department. The objective method is followed in laboratories and clinical instruction. In all courses students are encouraged to do a large amount of individual work and are arranged in small groups to meet both laboratory and clinical instructors.

APPLICATIONS FOR ADMISSION



Printed application forms are available at the College of Medicine, University of Nebraska, 42nd Street and Dewey Avenue, Omaha 5, Nebraska. Students applying for the Class of 1955 must have their applications completed by December 1, 1954.

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

Not more than three students from states other than Nebraska and not more than two students from foreign countries will be accepted to

the freshman class. It is the policy of the Committee on Admissions and Scholastic Standing to require that foreign students spend at least one year, and preferably two, studying in an undergraduate college in this country before applying for admission to the College of Medicine. This policy has been established in order both that the applicant may become familiar with the language, customs, and methods of teaching in the United States, and that the Committee may obtain a better evaluation of his qualifications and preparation for medicine.

APPLICATION PROCEDURE



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

1. A completed application form sent from the College of Medicine.
2. A small recent, unmounted photograph, preferably 2 x 2 inches.
3. An official transcript sent directly from the high school attended, showing the grades and credits earned.
4. An official transcript sent directly from each college or university attended.
5. Two character appraisals from professors of premedical sciences, preferably chemistry, zoology or physics.
6. The result of the Medical College Admission Test. The 1955 class will take the test by the fall of 1954. Information concerning this test may be obtained from the premedical adviser of the Arts and Science College or from the Education Testing Service, P. O. Box 592, Princeton, New Jersey. Students should communicate directly with that office for specific details.

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

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

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

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

SPECIFIC EDUCATIONAL REQUIREMENTS



High School.—Fifteen secondary school units are required for admission and must include three units in English, two units in one foreign language

(ancient or modern), two units in mathematics (one each of algebra and geometry or an equivalent), and one in science (biology, botany, chemistry, physics or zoology). One unit each of English, foreign language and mathematics may be certified in the ninth grade.

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

	<i>Semester Hours</i>
Chemistry (4 hours of which must be organic)	15
Biology	8
Physics	8
English	6
Electives	53
Total	90

CHEMISTRY: Fifteen semester hours which must include complete course in general inorganic chemistry, and organic chemistry.

BIOLOGY: Eight semester hours, of which at least four semester hours represent laboratory work. The requirements may be satisfied by a course of eight semester hours of credit in zoology. These requirements can be satisfied at the University of Nebraska by completing courses: Zoology 1, 2, 112, 141 or 151; or by Biology 1, 2 and Zoology 112 or 141 or 151. They may also be met by four credit hours in zoology and four credit hours in botany, but not by botany alone.

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

ENGLISH COMPOSITION AND LITERATURE: Six semester hours. Students should develop the ability to speak and write good English and those found deficient in the use of written or spoken English will not be permitted to enter upon or continue the medical course.

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

	<i>Hours</i>
A. 1. Classics.....	6-18
2. Modern Languages.....	6-18
Language requirement for graduation:	

	GROUP REQUIREMENT (or)	COMBINED GROUP and ENTRANCE REQUIREMENT
HIGH SCHOOL LANGUAGE		
1 semester or none	16 hours in one language	18 hours in one language
2 semesters	11 hours in same language	12 hours in same language
3 semesters	11 hours in same language	11 hours in same language
4 semesters	6 hours in same language	6 hours in same language

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

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

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

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

REGISTRATION AND ADMISSION TO CLASSES



When an applicant receives notice that he has been accepted for entrance to the College of Medicine, he is required to send a deposit of \$25.00. This is applied as part payment of the tuition fee for the first semester or is forfeited if the applicant fails to register in the class for which he was accepted. Applicants who are eligible for the provision of Public Law 346 should present their certificates of eligibility in lieu of the \$25.00 entrance deposit.

Registration is accomplished on the day indicated in the official 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 granted credit without proper registration. No student may add any subject to his schedule or drop from it any subject for which he has been regularly registered without written permission from the dean.

Advanced Standing.—Application for admission to the second or third year medical classes will be considered only from students attending medical schools approved by the Council on Medical Education and Hospitals of the American Medical Association and provided a vacancy exists. An applicant for admission to advanced standing must follow the regular application procedure (see p. 13) and must furnish evidence that he has satisfactorily completed courses equivalent in kind and amount to those taken by the class to which admission is sought, and must present also a letter of honorable dismissal. The University of Nebraska College of Medicine reserves the right in every case to give examinations in any or all subjects in which credit is requested.

No student coming from another school will be allowed any privileges in this school which would have been denied him in the school which he leaves.

No student will be admitted to advanced standing in any class while he has a delinquency in any subject. No student may become a candidate

for graduation unless he has spent the last two years in residence at this college.

In accordance with the recommendation of the Association of American Medical Colleges, the College of Medicine does not grant any time credit toward the Doctor of Medicine degree to holders of a bachelor's degree; this means that the total time spent by each student taking his medical degree must include as a minimum four years of registration in a medical college, the last two years of which must be in residence in the University of Nebraska College of Medicine.

The granting of transfer credit is at the discretion of the Committee on Admissions and Scholastic Standing. Admission to any class does not necessarily carry with it credit in all work previously done by the class since the Committee on Admissions and Scholastic Standing has the right to demand satisfactory evidence of the completion of previous work in that subject equal to that required of the students of this College, and in case the work is not equal to such requirement the deficiency stands against the student as an "incomplete" until removed.

Class Standing and Examination.—The standing of a student in any course is determined by the instructor in charge of the subject through examinations, personal contact, and observation of work. The passing grade for subjects of the first and second medical years is 4. However, a student who fails to make a yearly average of 5 must pass an oral examination in all of the subjects of the year just completed before being permitted to register for the following year. A student is allowed to take only one recapitulation examination. The passing grade for the third and fourth years is 5.

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

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

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

Student discipline will be handled by the Dean of the College of Medicine. A student who by quality of work or conduct indicates an unfitness to enter the medical profession may be required at any time to withdraw from the medical college. Recommendations for suspensions, dismissals, or other suitable action as the case warrants, will be made to the Faculty of the College of Medicine, the Chancellor, and the Board of Regents. The Dean may appoint a committee of the Faculty to advise him on such matters.

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

The Dean of the College of Medicine is the adviser of all students in the College of Medicine. A leave of absence for a short time may be granted by the dean. This is merely a justification for absence and not an excuse from any work. If a student in good and honorable standing finds it necessary to withdraw from the University before the close of a quarter, the dean grants him permission to do so. If he is in good standing and is not a minor he is given honorable dismissal from the University at his own request; if a minor, at the request of his parents or guardian.

REQUIREMENTS FOR GRADUATION



The degree of Doctor of Medicine is granted only under the following conditions:

1. The candidate must be at least 21 years of age.
2. He must possess a good moral reputation.
3. He must have complied with all the requirements of admission.
4. He must have pursued the study of medicine for at least four years and must have passed all required courses and examinations of the College of Medicine, University of Nebraska. The last two years work must have been taken at this institution.
5. He must have written an acceptable paper on an examination posed by the Examinations Committee at the end of the senior year.
6. He must have written and presented an acceptable, typed senior thesis.
7. He must have discharged all indebtedness to the University of Nebraska.

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

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

1. Completing the group requirements of the College of Arts and Sciences (see page 18 of the College of Arts and Sciences catalog.)
2. Completing two minors or one major.
3. Using the subjects of the first year of the medical course as a major.

Both of these degrees are conferred by the College of Arts and Sciences. Candidates for baccalaureate degrees in institutions other than the University of Nebraska may arrange with their colleges to accept transcripts of the work of the first two years in medicine to apply to such degrees, or otherwise satisfy the requirements of those institutions.

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

GRADUATE WORK

Graduate Committee: Professors McIntyre, *Chairman*, Bisgard, Gunderson, Hunt, Latta, Jacobi.

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

1. Students with Bachelor of Science or Bachelor of Arts degrees from recognized colleges or universities who attain an average grade of 7 in a qualifying examination in the basic medical sciences.
2. Students with a baccalaureate degree and the degree of Doctor of Medicine with an acceptable record.
3. Students with a Master's degree from an acceptable college and presenting the equivalent of two semesters credit in the basic medical sciences.
4. Students from the College of Medicine who have bachelor's degrees, who have completed the first two years of the regular curriculum in the College of Medicine or its equivalent, and who have attained an average grade of 7 in their courses or passed a qualifying examination in the basic medical sciences with a grade of at least 7.

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

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

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

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

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

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

Graduate students may be required to obtain proficiency in their field of concentration by participation in the instruction of medical students for at least one quarter in a regularly required course in the College of Medicine. A student who fails to earn an average grade of at least 7 may not continue his program of study without special permission of the Committee on Graduate Studies. The final oral examination for all advanced degrees will involve a defense of the thesis and will determine the candidate's knowledge of the fundamentals in the field of medical science, and their integration with the special fields of study.

FEES AND EXPENSES ☐☐☐

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

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

FEE REFUNDS ☐☐☐

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

CHANGES IN SCHEDULE ☐☐☐

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

ADVANCED STANDING EXAMINATION ☐☐☐

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

MISCELLANEOUS FEES ☐☐☐

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

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

CAP AND GOWN RENTAL ☐☐☐

(Current Rates)

Bachelors Gown and Cap.....	\$2.75	Doctors Gown.....	3.50
Masters Gown.....	3.25	Doctors Hood.....	3.50
Masters Hood.....	3.25	Caps only.....	1.00

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

MISCELLANEOUS INFORMATION OHO

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

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

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

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

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

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

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

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

STUDENT HEALTH SERVICE OHO

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

LABORATORY FACILITIES OHO

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, located on the fourth floor of the South Laboratory Building, is amply equipped with modern scientific apparatus. It also has special research laboratories equipped with calorimeter, thermostats, automatic burettes, electric stoves, etc. A balance room and rooms for combustion, calorimetric, and Kjeldahl work are among the excellent facilities of this department.

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

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

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

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

Museum.—The pathological museum of the College of Medicine contains about 5,000 specimens. Nearly every variety of pathological lesion is represented and the constant addition of fresh material from the autopsies performed continually adds to its interest. In addition to the gross specimens are thousands of microscopic sections and a large collection of wax reproductions of various lesions. The museum is an important and necessary adjunct to the teaching of pathology and of clinical medicine.

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

FELLOWSHIPS, GRADUATE ASSISTANTSHIPS AND SCHOLARSHIPS



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

Graduate Assistantships are available to students of exceptional ability to give them opportunity to do research in the medical sciences and fulfill

the requirements for a Master of Science or Doctor of Philosophy degree.

Jetur 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. These scholarships are awarded on the basis of recommendation by the student assistance committee.

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

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

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

LOANS



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

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

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

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

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

the University of Nebraska College of Medicine and to assist worthy students with loans.

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

AWARD



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

STUDENT AND ALUMNI ORGANIZATIONS



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

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

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

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

Elections are made from the students who have completed 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.

MEDICAL CURRICULUM



Departmental Hours.—The course of study outlined is constructed in accordance with the recommendations of the Council on Medical Education and Hospitals of the American Medical Association and of the Association of American Medical Colleges. The University Hospital and Dispensary on the Medical College campus furnish ideal opportunities for bedside clinical instruction in close relation to the scientific departments of the college.

CLINICAL FACILITIES



University Hospital.—The University Hospital forms the largest unit of the group of buildings constituting the College of Medicine. It is the center around which all the activities of the various departments are grouped, making possible a close correlation between clinical and laboratory teaching. The hospital, modern in every respect, contains floor space for 219 beds, and provides for the care of a wide variety of cases.

Patients are received from the several counties of Nebraska and are

admitted on the application of a legally qualified practitioner of medicine and chairman of the county board.

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

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

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

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

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

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

SCHOOL OF NURSING



The College of Medicine maintains a School of Nursing affording three years' instruction with unexcelled facilities. The immediate administration of the School of Nursing is provided through the Director and the faculty. Instruction in the various subjects outlined in the nursing

curriculum is given by members of the faculty of the School of Nursing and the College of Medicine. Students are admitted to the School of Nursing as candidates for the diploma of Graduate Nurse and as candidates for the degree of Bachelor of Science in Nursing. Conkling Hall, the residence of the School of Nursing, is located on the medical college campus. Requests for bulletins and application blanks should be made to the Director, School of Nursing.

LIBRARY FACILITIES



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

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

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

SUMMARY OF DEPARTMENTAL HOURS



	Clock Hours	Total Clock Hours
ANATOMY		768
310 Gross Anatomy	360	
311 Embryology-Histology	288	
312 Neuro-Anatomy	120	
BIOCHEMISTRY		276
310 Medical Biochemistry	264	
330 Clinical Biochemistry	12	
DERMATOLOGY		36
330 Fundamentals	12	
331 Diagnostic Clinic	12	
341 Dispensary	12	

	Clock Hours	Total Clock Hours
INTERNAL MEDICINE		508
320 History Taking and Physical Diagnosis.....	108	
330 Principles of the Practice of Medicine.....	108	
335 Clinical Clerk	176	
340 Hospital Clinic	18	
342 Dispensary	98	
MEDICAL JURISPRUDENCE		24
330 Medical Jurisprudence	24	
MEDICAL MICROBIOLOGY		252
320 Medical Bacteriology and Clinical Parasitology.....	252	
NEUROLOGY AND PSYCHIATRY		298
310 Normal Personality Development	24	
320 Basic Psychiatry	36	
330 Psychosomatic Medicine	12	
331 Neurology	24	
335 Clinical Clerk	138	
340 Hospital Clinic	18	
342 Dispensary	46	
OBSTETRICS AND GYNECOLOGY		310
320 Physiology of Pregnancy	16	
330 Physiology and Pathology of Pregnancy.....	36	
332 Gynecology	36	
335 Clinical Clerk	132	
340 Hospital Clinic	18	
342 Dispensary	72	
OPHTHALMOLOGY		70
330 Medical Ophthalmology	18	
Ward Clinic	4	
340 Dispensary	48	
ORTHOPEDIC SURGERY		82
330 Fractures, Dislocations and Sprains.....	12	
331 Diseases of Bones and Joints.....	18	
Ward Clinic	16	
340 Dispensary	18	
341 Fractures, Dislocations and Sprains.....	18	
OTORHINOLARYNGOLOGY		32
330 Diseases of ear, nose, throat and larynx.....	12	
Ward Clinic	8	
340 Dispensary	12	
PATHOLOGY		486
321 General Pathology	270	
330 Clinical Pathology	120	
332 Clinico-Pathological Conference	24	
333 Clinical Pathology Conference	36	
340 Clinico-Pathological Conference	18	
341 Clinical Pathology Conference	18	
PEDIATRICS		226
320 Growth and Development	16	
330 General Pediatrics Including Infant Nutrition and Communicable Diseases	36	
335 Clinical Clerk	88	
340 Hospital Clinic	18	
341 Dispensary	68	
PHYSIOLOGY AND PHARMACOLOGY		468
320 Physiology and Pharmacology General Course.....	216	
321 Physiology and Pharmacology Laboratory Course.....	252	
PREVENTIVE MEDICINE		52
320 Principles of Preventive Medicine.....	12	
321 Principles of Preventive Medicine.....	16	
322 Principles of Preventive Medicine.....	24	
RADIOLOGY AND PHYSICAL MEDICINE		96
Radiological Anatomy	6	
320 Principles of Radiology	12	
330 Principles of Physical Therapeutics.....	12	
331 Tumor Conference	18	

SUMMARY OF DEPARTMENTAL HOURS

332 Diagnostic Radiologic Conference	18	
341 Tumor Conference and Clinic	18	
342 Diagnostic Radiologic Conference	12	
SENIOR HOSPITAL CLERKSHIP		540
SENIOR OUTCALL SERVICE		90
SENIOR PRECEPTORSHIP		360
SURGERY		426
330 Fundamentals of Surgery	108	
335 Clinical Clerk	264	
340 Hospital Clinic	18	
342 Dispensary	36	
UROLOGY		32
Ward Clinics	8	
330 Fundamentals of Urology	12	
341 Dispensary	12	
		5,432
Freshman Year	1062	
Sophomore Year	1230	
Junior Year	1554	
Senior Year	1586	

Courses of Instruction

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

Anatomy

Professors Latta, *Chairman*, Holyoke; Associate Professors Benjamin, Elliott; Assistant Professors R. Best, Chapman, Pederson; Instructors Bach, Kennedy, Nilsson, Potter, Reynolds; Assistants Burney, Cochran, Coe, Friel, Rasmussen, Wilson.

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

Anatomy.—

310. Gross Anatomy (Total 360 hrs I, II)

The course covers dissection of the entire body. This work is carried out in groups of four, each group being assigned a separate room. From time to time table demonstrations and quizzes are required. Through this table teaching the student's proficiency is increased and calibration of individual progress is made possible. (240 hrs or 10 qtr hrs credit for graduate work.)

311. Embryology-Histology (Total 288 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 120 hrs III)

Lecture and laboratory

The gross and microscopic anatomy of the nervous system including sense organs. Study is made of the human brain by means of gross dissection; gross and microscopic sections; gross and microscopic study of the eye, and other sense organs by specially prepared demonstrations. Text and lectures aim to integrate the details of lab study into functional systems applicable to later physiological and clinical studies. (80 hrs or 7 qtr hrs credit for graduate work.)

350. General and Special Methods in Histological Technique (3-8 qtr hrs) Mr. Latta,

Mr. Elliott, Dr. Holyoke

Prereq Anat 310-314

Principles and practice in general methods of preparation of tissue for histological study; special training given in the field of the student's particular interest.

351. Special Neurohistological and Experimental Neurological Techniques (3-8 qtr hrs)

Mr. Elliott, Mr. Latta

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 Histochemistry (3-8 qtr hrs) Mr. Latta

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) Mr. Latta (was Anat.

352)

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) Mr. Latta, Dr. Holyoke, Dr. Pederson
Prereq Anat 350 (was Anat 353A)
 Special advanced studies of various features of reproduction and development as illustrated in the departmental and embryological collection.
355. **Experimental Embryology** (4-9 qtr hrs) Dr. Holyoke, Mr. Latta (was Anatomy 353B)
Prereq Anat 350
 Advanced study and training in the methods employed in analysis of the factors and potentials operative in mammalian development processes.
356. **Advanced Human and Comparative Neuroanatomy and Neurohistology** (4-9 qtr hrs) Mr. Elliott (was Anat 354)
Prereq Anat 350
 Advanced detailed study of the structural organization of the central and peripheral nervous system of a man and/or various laboratory animals.
357. **Morphological Endocrinology** (4-9 qtr hrs) Dr. Pederson, Mr. Latta, Dr. Holyoke
Prereq Anat 350
 Advanced study of histological features of the various endocrine glands and morphological effects of endocrine substances on various target organs.
358. **Biology of Radiation** (4-9 qtr hrs) Mr. Latta, Dr. Pederson
Prereq Anat 350
 Morphological alterations induced in the living organism by radioactive substances.
359. **Thesis Research** (cr arranged) Staff
 Independent investigation of some problem chosen by consultation between student and the staff.
360. **Seminar** (1 cr per qtr) Staff
 By permission
 Presentation of problems and accomplishments of investigations conducted by the graduate students and members of the department with critical discussion.

Biochemistry

Associate Professors Jacobi, *Chairman*, Beber, Wilder; Instructor Barak.

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

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

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

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

330. Clinical Biochemistry (12 hrs III) Dr. Beber

This course deals with various problems of biochemical nature and of special clinical significance.

Biological Chemistry, Electives.—**350. Metabolism and Nutrition in Health and Disease** (3-8 qtr hrs) Jacobi, Staff

Prereq Biochem 310

An advanced study in metabolism, including theories of basal metabolism, energy changes in the body, interconversions and the specific dynamic action of food stuffs, methods used in respiratory metabolism and the relationships between overnutrition and undernutrition to diseases of the blood, kidney, and febrile condition and endocrine disorders.

351. Vitamins and Hormones (3-8 qtr hrs) Jacobi, Staff

Prereq Biochem 310

History of vitamin discovery, their physiology and pathology, and their relationship to enzymes, hormones and minerals; followed by a detailed study of the various vitamins in which the following are considered: chemical constitution, isolation, synthesis, properties, occurrence, effects of avitaminosis, hypo-vitaminosis and hypervitaminosis and their clinical significance.

352. Enzymes (3-8 qtr hrs) Staff

Prereq 310

This course deals with the chemical nature of enzymes, the methods for their isolation, the kinetics of enzyme reactions, and the biological properties of enzymes; followed by a discussion of the chemistry of individual enzymes, method of preparation, and physiological action, together with the clinical significance of individual enzymes.

353. Seminar (cr arr) Staff**354. Research** (cr arr) Staff

Dermatology and Syphilology

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

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

Dermatology.—**330. Fundamentals** (1 hr weekly, total 12 hrs II)

General classification of skin diseases, with lectures and quizzes on anatomy, histology, physiology, pathology, general symptomatology, etiology, diagnosis and treatment.

331. Diagnostic Clinic (1 hr weekly, total 12 hrs III) Dr. Cameron

A more advanced course in dermatology consisting largely of patient and colored slide demonstrations with particular reference to differential diagnosis and treatment.

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

Two weekly 2-hour clinics are held at the University Dispensary

Fourth-year students are assigned to these clinics for practical experience in the diagnosis of skin diseases and the treatment of syphilis.

Internal Medicine

Professors Moody, *Chairman*, Dunn, MacQuiddy, Sr., Niehaus, Simmons, W. Thompson; Associate Professors Grissom, Kirk, Lehnhoff, McCarthy, Moser, C. Thompson; Assistant Professors Andersen, Beber, G. Best, Brazer, Greene, Hankins, Long, Margolin, Pepper; Associates Bucholz, Hull, Joranson, Lewis, Morris, Pratt, Root, Walsh, Wright, Wyrens; Instructors Albertson, Angle, Bresnahan, Dickerson, Fleishman, Freed, Graham, Jackson, Langdon, Lemire, Loomis, McGee, MacQuiddy, Jr., Nickum; Clinical Assistants Fuenning, Graves, MacHaffie, Millett, Muskin, Walvord.

Internal Medicine.—**320. History Taking and Physical Diagnosis** (3 hrs weekly, total 108 hrs I, II, III)

Instruction in the art of history taking including the various methods of eliciting significant physical complaints and emotional reactions of the patient; explanation and demonstration of the complete physical examination with emphases on in-

spection, palpation, percussion and auscultation. Special methods of examination are taught by members of other specialty departments. Course taught at the University and Veterans Administration Hospital using patients to demonstrate normal and abnormal physical findings.

330. Principles of the Practice of Internal Medicine (3 hrs weekly, total 108 hrs I, II, III)

A series of special lectures and discussions of selected topics of internal medicine, supplementary to the text to acquaint the students with the fundamental problems encountered in medical practice. Once a week a presentation of patients to illustrate features of diagnosis, differential diagnosis and treatment.

335. Clinical Clerk (total 176 hrs I, II, III)

Small groups of students assigned to the University Hospital and to the Veterans Administration Hospital for a period of 4 weeks each. Students are assigned patients and required to take a complete history, make a physical examination and perform designated laboratory tests. Students are required to have sufficient knowledge about the patients, so that case presentations may be made by the students at staff ward rounds or at stated clinics.

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

Presentation of patients from the University Hospital in Medical Grand Rounds. Patients are selected on the basis of special diagnostic problems and important aspects of treatment.

342. Dispensary (20 hrs weekly, total 98 hrs SS, I, II, III)

Regular assignment to dispensary clinic; students given responsibility in diagnosis and treatment of ambulant patients of the type seen in the office.

Internal Medicine Electives.—

350. The Physiology of Symptoms (4 cr) Dr. Moody

An advanced course in applied physiology with special reference to the fundamental basis for symptoms and physical findings encountered in clinical medicine.

351. Problems in Metabolism and Endocrinology

The study of metabolic and endocrine disorders with special reference to the biochemical and physiological background of their genesis and clinical management.

a. **Diabetes Mellitus** (3 cr)

b. **Advanced Endocrinology** (3 cr) Dr. Dunn

c. **Metabolism and Nutrition** (3 cr) Dr. Lehnhoff

352. Advanced Gastroenterology and Biliary Diseases (3 cr) Dr. McCarthy

An advanced clinical course in digestive disorders.

353. Advanced Studies of the Cardiovascular-renal System

a. **Cardiologic Diagnosis and Electrocardiography** (4 cr) Dr. C. Thompson

An advanced study of physical radiologic and electrocardiographic findings in heart disease.

b. **The Management of Heart Disease** (3 cr) Dr. Niehaus

Including the treatment of various cardiac emergencies and the employment of digitalis, its derivatives and allied preparations.

c. **Hypertension, Nephritis and Peripheral Vascular Diseases** (3 cr) Dr. Lehnhoff

An inclusive study of disease of the vascular system, excluding diseases of the heart, but including those concerned with blood coagulation and the clinical employment of anti-coagulant therapy.

354. Infectious Diseases, Rheumatism, Chemotherapy, and Antibiotics (3 cr) Dr. Simmons

An advanced study of diseases of microbial origin as to etiology, resultant structure changes and treatment thereof.

355. Seminar in Advanced Allergy and Hematology

a. **Allergy** (1 cr) Dr. MacQuiddy

An advanced review of sensitization and the diseases arising therefrom.

b. **Hematology** (1 cr) Dr. Pratt

Clinical and lab observations in various anemic states with special reference to advances in therapeutic measures.

356. Research (cr arr)

Medical Jurisprudence

Assistant Professors Spier, Ellick.

The course in medical jurisprudence has for its purpose the presentation of medico-legal relationships in order that the student may be familiar with that increasingly pertinent phase of professional life and practice. This course is a comprehensive survey of the medico-legal field and a detailed analysis and study of that science which

applies the principles and practice of medicine to the elucidation and settlement of legal questions which arise in everyday professional practice as well as in courts of law.

330. Medical Jurisprudence (2 hrs weekly, total 24 hrs III)

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

Medical Microbiology

Professor Gunderson, *Chairman*, Assistant Professor McFadden; Instructor N. Miller.

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

Medical Microbiology.—

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

Lect and lab course on the cultural characteristics, pathogenic properties, immunological responses, etc., of bacteria, fungi, viruses and Rickettsia in general, with special reference to those of importance in disease. The course also provides a consideration of Clinical Parasitology and deals with Protozoa, Helminths and Arthropods of medical importance.

Medical Microbiology, Electives.—

350. Physiology of Bacteria (8 cr) Dr. Gunderson

Prereq Medical Microbiology 320

Nutritive requirements of bacteria, growth, metabolism, enzymes, dormancy and death. Determinative bacteriology.

351. Public Health Bacteriology

The facilities of the diagnostic lab with its turnover of at least 5,000 diagnostic tests per annum are available for this course.

a. **Study of Diagnostic Technics** (8 cr) Dr. McFadden, Dr. Gunderson

Prereq Medical Microbiology 350

Hospital lab diagnosis.

b. **Immunology** (4 cr) Dr. Tollman, Dr. Gunderson

Prereq Medical Microbiology 350

Laws of hemolysis, antigen-antibody relationships, blood grouping, anaphylaxis.

352. Molds, Yeast, and Actinomycetes (4 cr) Dr. Gunderson

Prereq Medical Microbiology 350

A study of fungi of medical importance; their morphological and immunological characteristics. With emphasis on the recognition and diagnosis of those producing mycotic infections in man.

353. Filterable Viruses (4 cr) Dr. Gunderson

Prereq Medical Microbiology 350

Character, nature and transmission of viruses. Important human virus diseases.

354. Applied Bacteriology (4 cr) Dr. Gunderson

Prereq Medical Microbiology 350

Bacteriology of sanitation. Food bacteriology.

355. Medical Parasitology and Tropical Diseases (4 cr) Dr. Gunderson

a. **Diseases Due to Animal Parasites**

Prereq Medical Microbiology 350

Life cycles. Vectors.

b. **Diseases of Animals Transmissible to Man**

Prereq Medical Microbiology 350

Plague, Tularemia, Undulant Fever, Typhus, Spotted Fever, etc.

359. Seminar (1 cr) Staff

By permission.

360. Research (cr arr) Staff

Neurology and Psychiatry

Professor Wittson, *Chairman*; Associate Professors Aita, Wigton; Assistant Professors Brill, Dickinson, Ellingson, Fitzgerald, Gysin, Humphreys, Jones, Klopfer, Rose, Strough; Associates Beilis, Samuels, Sandritter, Yager, Young; Instructors Brousseau, Bullard, Goldner, Hermann, Houfek, Lytton, Ring, Stein, Wilson; Clinical Assistants Ingham, Taulbee.

Training in neurology and psychiatry is planned under its two separate divisions of psychiatry and neurology. The courses of instruction are arranged to give the student, from the freshman year on, progressive, systematic training in the anatomical, physiological, psychological fundamentals of neurology and psychiatry. The departments of anatomy, physiology and pathology cooperate in giving the first- and second-year students special instruction in the anatomy, histology, physiology and pathology of the nervous system. Lectures in the freshman year emphasize the importance of personality development in its relation to both normal and abnormal body functioning. The sophomore year is devoted to the study of basic psychiatry with particular reference to psycho-pathology. The first quarter of the junior year is devoted to a correlative study of general medicine and psychiatry stressing the psychosomatic approach. Clinical neurology lectures and demonstrations are given in the second and third quarters of the junior year. This includes discussion of the common neurological illness and the various techniques and instruments used for neurological examination and treatment. Through the junior and senior years the students work with actual clinical patients under supervision. Facilities used in this period are the University Hospital and Dispensaries, the Nebraska Psychiatric Institute and the Veterans Administration neurological service.

Neurology and Psychiatry.—

- 310. Normal Personality Development** (1 hr weekly, total 24 hrs II, III)
Lectures with emphasis on stimulating student participation. The course describes the chronological development of the individual from the standpoint of the process of his personality formation. This material will be related to physical development and to medicine in general.
- 320. Basic Psychiatry** (1 hr weekly, total 36 hrs I, II, III)
Lectures and demonstrations using available clinical material at the Psychiatric Institute. This course describes the mental illnesses from the clinical standpoint. It is to be related to the first year course. It will include the historical background of psychiatry, methods of interviewing and history-taking, and general mental examination. The course is oriented toward preparing the student for his junior year clerkship in psychiatry and for understanding mental illness from the standpoint of a general practitioner.
- 330. Psychosomatic Medicine** (1 hr weekly, total 12 hrs I)
Lecture, clinical demonstrations if appropriate cases available, recorded case presentations. This course will stress the interaction of emotional and physiological processes. It will integrate the two preceding courses in psychiatry. It will stress the totality of the human organism—mind and body.
- 331. Neurology** (1 hr weekly, total 24 hrs II, III)
Lectures primarily, and demonstrations. This course will present the basis of clinical neurology. The neurological illnesses will be discussed from the descriptive viewpoint and related to the anatomical, pathological and physiological factors involved. The material will be correlated with medicine generally and particularly with psychiatry. Diagnosis and treatment will be stressed.
- 335. Clinical Clerk** (23 hrs weekly, total 138 hrs I, II, III)
Each group of the junior class will spend one period of six weeks at the Psychiatric Institute. Each student will have assigned to him one or more of the inpatients. He will do a complete work-up on the patient including history and physical and mental examination. Further, he will continue to see the patient in interviews during the whole of his clerkship. His work will be supervised in detail. Seminars and lectures will be included as well as demonstrations of interviewing technique, treatment, etc.
- 340. Neuropsychiatric Demonstrations** (1 hr weekly, total 18 hrs SS, I, II, III)
Material for this course will be selected cases on which neurological or psychiatric consultations have been requested by the other hospital services. The case will be briefly presented to the class for consultation by the intern or resident who has requested consultation. He will describe the case and give his reasons for request. The patient will be interviewed briefly by the staff neuropsychiatrist who will then lead the class discussion. The area considered will be the emotional and physiological interactions, diagnosis, treatment, prognosis, and pre-

paration of patient for psychiatric consultation or treatment. It is expected that the student will learn what happens to cases which he as a general practitioner might refer for psychiatric consultation, what limits there are to psychiatric treatment and what possibilities for various Neuropsychiatric treatments are available.

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

Obstetrics and Gynecology

Professors McGoogan, *Chairman*, Sage; Associate Professors H. Anderson, Findley, Luikart, Moon; Assistant Professors Collins, Redgwick; Associates Cotton, Rumbolz, Vroman; Instructors Hirst, Kovarik, Morgan, Olson; Clinical Assistant Taylor.

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

Obstetrics and Gynecology.—

- 320. Physiology of Pregnancy** (1 hr weekly, total 16 hrs I, II)
Anatomy and physiology of the female genital organs in their relation to normal pregnancy, labor, and the puerperium. Physiology and care of the newborn child.
- 330. Physiology and Pathology of Pregnancy** (1 hr weekly, total 36 hrs I, II, III)
Abnormalities and complications of pregnancy, labor, puerperium, and the newborn child.
- 332. Gynecology** (1 hr weekly, total 36 hrs I, II and III)
Surgical conditions affecting pregnancy and the postpartum period. Lacerations, infections, relaxations, malposition, and tumors affecting the female genital organs.
- 335. Clinical Clerk** (23 hrs weekly, total 132 hrs I, II, III)
A third-year student is assigned to each obstetric and gynecologic case entering the University Hospital and is required to follow the progress of labor and operative procedures, assist at delivery, and maintain a complete record until discharge from the hospital. As a correlation of maneuvers observed on actual cases in the delivery rooms, 2 hrs weekly are used in practice on the manikin.
- 340. Hospital Clinic** (1 hr weekly, total 18 hrs SS, I, II, III)
This course covers pathological conditions arising from or related to pregnancy and to gynecologic problems.
- 342. Dispensary** (18 hrs weekly, total 72 hrs SS, I, II, III)
Fourth-year students are assigned to the dispensary prenatal clinic and the gynecology clinic, where they assist in prenatal care and gynecologic examination and treatment.

Obstetrics and Gynecology, Electives.—

- 350. Advanced Obstetrics and Gynecology** (6 cr) Staff
Seminars, conferences, lectures and demonstrations designed to familiarize the student with the applications of basic science to the field of obstetrics and gynecology. The student will be required to evaluate the clinical condition of the patient, write records of his findings and recommendations, and outline a program of treatment to be carried out under supervision.
- 351. Gynecological Pathology** (3 cr) Staff
An advanced course in gross and microscopic pathology in the field of obstetrics and gynecology, including the physiological variations encountered in the reproductive cycle. A written discussion of all clinical, surgical, and autopsy specimens in the field of obstetrics and gynecology is required.

352. **Anatomy** (4 cr) Dr. Latta, Dr. Holyoke, Staff
Special dissection and study to cover the basic science aspects of anatomy and embryology as applied to obstetrics and gynecology. This work will be special dissections, reading, and histologic study of the generative tract.
353. **Gynecological Radiology** (1-5 cr) Dr. Hunt, Staff
Readings, demonstrations, clinics and seminars designed to show the application of radiographic and radio-therapeutic principles and procedures to obstetrics and gynecology. Conducted in conjunction with the department of radiology, this course gives experience in radiographic techniques, the interpretation of films, and the use of X-ray and radium. Independent reports will be required.
354. **Advanced Course in Gynecological Surgery** (4 cr) Staff
Personal conferences, discussions, and demonstration of the principles and technique of gynecological surgery. The nature of the material covered will depend upon the student's aptitude and experience.
355. **Special Problems and Thesis** (cr arr) Staff
The student will select or be assigned special research problems in the basic science fields as applied to obstetrics and gynecology, including lab studies, literature analysis, and clinical evaluation of problems.

Ophthalmology

Professor Judd, *Chairman*; Associate Professors Gifford, Morrison; Assistant Professors Alliband, Rasgorshok; Associate Steinburg; Instructors Truhlsen, Eagle, Filkins; Clinical Assistant Vickery.

Ophthalmology.—

330. **Medical Ophthalmology** (1 hr weekly, total 18 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.
Ward Clinic (1 hr weekly, total 4 hrs I, II, III)
Selected cases of eye pathology are shown to small groups of students illustrating the major types of disease that are encountered in medical practice.
340. **Dispensary** (12 hrs weekly, total 48 hrs SS, I, II, III)
Students are regularly assigned to the dispensary clinic for practical experience in the diagnosis and treatment of eye conditions. This course includes a drill in the principal uses of the ophthalmoscope and other instruments employed in the diagnosis of diseases of the eye.

Orthopedic Surgery

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

Orthopedic Surgery.—

330. **Fractures, Dislocations and Sprains** (1 hr weekly, total 12 hrs I)
Lectures and clinics on anatomy, pathology and treatment of fractures, dislocations and sprains.
331. **Diseases of Bones and Joints** (1 hr weekly, total 18 hrs II)
Lecture clinics on disease of bones and joints, synovial membranes and bursae. Congenital, acquired, and disease-producing deformities. Prevention of deformities and dystrophies with principles of treatment. Illustrated by photographs, slides, etc.
Ward Clinic (4 hrs weekly, total 16 hrs I, II, III)
340. **Dispensary** (3-5 hrs weekly, total 18 hrs SS, I, II, III)
Two weekly 2-hour clinics are held at the dispensary, to which fourth-year students are assigned for practical work in the diagnosis and treatment of orthopedic cases.
341. **Fractures, Dislocations and Sprains** (1 hr weekly, total 18 hrs SS, I, II, III)
Lectures, quizzes, and demonstration course on fractures, dislocations and sprains. X-ray diagnosis with application of splints and casts.

Orthopedic Surgery, Electives.—

350. **Research** (1-7 cr) Staff
Work for specially qualified students in special fields of investigation.
351. **Seminar** (1-6 cr) Staff
Literature reviews and reports of progress of research in special fields of investigation.

Otorhinolaryngology

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

Otorhinolaryngology.—

One lecture is given on the anatomy of the ear and temporal bone and demonstration of the tympanic membrane in the freshman year in Anatomy.

Two lectures on the examination of the ear, nose, pharynx and larynx; and two 2-hour demonstrations on the use of instruments commonly used in ORL examinations is given in conjunction with the sophomore course in Physical Diagnosis.

330. Disease of Ear, Nose, Throat and Larynx (1 hr weekly, total 12 hrs I)

Lectures covering the anatomy, physiology, common diseases, abnormalities, tumors, diagnosis and treatment in the ORL field.

Ward Clinics (Groups of ten students, 2 hrs weekly, total 8 hrs)

Four periods of two hours each are given each group of students which includes ward rounds whenever feasible and definitive instruction in carrying out complete ORL examinations.

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

Clinics are held once weekly at the University Dispensary. Senior students are assigned patients for examination, diagnosis and treatment under supervision. Conferences are frequently held during these hours.

Pathology

Professors Tollman, *Chairman*, Schenken; Assistant Professors Foster, Giffen, Kulesh, McFadden, McWhorter; Clinical Assistant Professor Coleman; Instructors Reihart, Simons; Graduate Assistants.

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

Pathology.—

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

Lecture and laboratory course on the study of general disease processes. It comprises a study of the general principles of pathology and of disease processes in detail, in classroom and laboratory.

330. Clinical Pathology (2 hrs lecture, 3 hrs laboratory weekly, total 120 hrs I, II)

Particular attention is given to application and interpretation of laboratory procedures, and especially the choice of tests useful in making a diagnosis and in following the course of disease processes.

332. Clinico-Pathologic Conference (1 hr weekly, total 24 hrs II, III)

Selected cases are presented jointly by a Clinical Department and the Department of Pathology for discussion of the differential diagnosis, management, and correlation of the clinical findings with the pathology. One conference of each four is devoted to Oncology Clinic which is conducted by Staff interested in Oncology problems and directed through the Department of Radiology.

333. Clinical Pathology Conference (1 hr weekly, total 36 hrs I, II, III)

Selected cases are discussed from the standpoint of correlation of clinical observations with radiological and pathological findings. Whenever possible these cases parallel the lectures given in clinical departments.

340. Clinico-Pathologic Conference (Total 18 hrs I, II, III)

Continuation of course 332.

341. Clinical Pathology Conference (Total 18 hrs I, II, III)

Continuation of course 333.

Pathology, Electives.—

356. Autopsy Pathology (8 cr) Drs. Schenken, Eggers

Prereq Path 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) Dr. Eggers, Staff
Prereq Path 356
- b. **Studies of Bone Tumors** (3 cr)
Prereq Path and Bact 357a
- c. **Studies of Tumors of the Nervous System** (3 cr)
Prereq Path and Bact 357a
358. **Etiology of Tumors** (1 cr) Dr. Eggers
Prereq Path 356
This will be a general study of the subject of tumor etiology with special emphasis on the phases represented by the investigative work carried on by the student. In large part this will be carried on by study of the periodical literature.
359. **Seminar** (1 cr) Staff
By permission
360. **Research** (cr arr) Staff

Pediatrics

Professor Jahr, *Chairman*; Associate Professors Gedgoud, Robertson, Thomas; Assistant Professors E. Bantin, Clark, Morrow; Associates C. Bantin, Crofoot, Klok, Tompkins; Instructors Hancock, Nilsson, Oberst, D. Smith, Steinman; Clinical Assistant Zahller.

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, II, III)
In this course are covered the various diseases of childhood, including the diseases by systems, deviations in growth and development, nutritional diseases, and communicable diseases.
335. **Clinical Clerk** (22 hrs weekly, total 88 hrs I, II, III)
Students are assigned cases on the pediatric ward of the University 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 on the ward assigned to other students. Each student is held responsible for presentation of his cases at any time he may be called upon by the instructor during ward walks. One ward walk a week is devoted to discussion of behavior problems in childhood.
340. **Hospital Clinics** (1 hr weekly, total 18 hrs SS, I, II, III)
Clinics in all aspects of pediatrics are included in this course, utilizing material on the wards of the University Hospital and Childrens Memorial Hospital as well as other institutions affiliated with the College of Medicine. An effort is made to cover the entire field of pediatrics as seen in the various institutions.
341. **Dispensary** (17 hrs weekly, total 68 hrs SS, I, II, III)
Clinics are held at the dispensary to which fourth-year students are assigned for practical work in the diagnosis and treatment of ambulant cases. All children enter the dispensary through the pediatric clinics. Special clinics utilizing postnatal cases, and rheumatic heart cases are held each week.

Pediatrics, Electives.—

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

Physiology and Pharmacology

Professors McIntyre, *Chairman*, Bennett; Associate Professor Dunn; Associate Research Professor Humoller; Associate Browne; Instructors Sievers, Wetherell.

The general course in physiology and pharmacology stresses the fundamental principles underlying living processes in health and disease. Courses 320 and 321 provide a basis in the fundamentals of physiology and pharmacology for medical students and for advanced study in this field. Special instruction is provided in advanced physiology and pharmacology for students seeking higher degrees.

Physiology and Pharmacology.—**320. Physiology and Pharmacology General Course** (lectures, demonstrations, and conferences, total 216 hrs I, II, III)

This course consists of the normal and pathological physiology of muscle, the peripheral and central nervous systems, heart circulation, digestion, metabolism, special senses, autonomic system, the sleep mechanism, the control of body temperature and water and salt balance. The normal and pathological physiology of the kidney, the endocrine system and the effects upon body mechanisms of drugs, hormones and vitamins and the techniques of medication used in the administration of these agents.

321. Physiology and Pharmacology Laboratory Course (Total 252 hrs I, II, III)

Practical course in conjunction with Physiology and Pharmacology 320.

Courses 320 and 321 are applicable for graduate credit 8 qtr hrs per quarter.

Physiology and Pharmacology, Electives.—**350. Technique in Experimental Physiology and Pharmacology** (1-9 cr) Dr. McIntyre and Staff

Prereq Physiology and Pharmacology 320-321

This course consists of instruction in surgical procedures on mammalia, reptilia, and amphibia and the preparation of organs and tissues *in situ* and *ex situ* for experimental study; instruction in the construction, manipulation and operation of apparatus.

351. Special Physiology and Pharmacology1. **Advanced Physiology and Pharmacology** (1-9 cr) Bisgard

Prereq Physiology and Pharmacology 350

In Vivo aseptic preparations; instruction in the fundamental techniques of aseptic surgery for the preparation of animals for study, and their postoperative care.

2. **Advanced Physiology and Pharmacology** (1-9 cr) McIntyre

Prereq Physiology and Pharmacology 350

In Vivo preparations. The preparation of tissues for *in vitro* metabolism studies, perfusion of organs, isolated heart preparations, isolated smooth and striated muscles, myography, electromyography, cardiography, oncometry, and plethysmographic studies.

3. **Electro-Physiology** (1-9 cr) Bennett

Prereq Physiology and Pharmacology 350

Preparation of nerve for action-potential studies and other phenomena associated with nerve-activity; the electrostatic volt meter, the cathode ray oscilloscope, direct-current amplification; the modification of nerve-activity by chemical and physical agents.

352. Advanced Pharmacology1. **Toxicology** (1-9 cr) Wetherell

Prereq Physiology and Pharmacology 350

The recognition of poisons in the body. The quantitative determination of toxic substances in necropsy materials and excreta: Polarographic quantitative determination of metallic ions present in tissues. Qualitative and quantitative tests for alkaloids by polarographic and other methods.

2. **Bioassay** (1-9 cr) McIntyre, Mahler

Prereq Physiology and Pharmacology 350

The assay of drugs and hormones and so-called vitamins by biometric methods, including standardization of drugs and biologically active substances.

353. Vitamin and Endocrine Studies1. **The "Deficient State"** (1-9 cr) Staff

Prereq Physiology and Pharmacology 350

Animal experiments on diets deficient in accessory food factors; avitaminosis; physico-chemical properties of accessory food factors; isolation and purification of accessory food factors.

2. **The Endocrine System** (1-9 cr) McIntyre

Prereq Physiology and Pharmacology 350

Studies in hypo- and hyper-normal hormonal activity; techniques for extirpation of glands of internal secretion.

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

Prereq Physiology and Pharmacology 350

Electrocardiography, electrostethoscopy, metabolic rates. Study of neuro-muscular lesions by physiological methods; application of endocrinology to obstetrics and gynecology and medicine; special use of drugs and their diagnostic and therapeutic use in clinical problems.

- 355. Special Application of Physiology and Pharmacology to Industrial Medicine and Surgery** (1-9 cr) Bennett, Humoller, McIntyre, Sievers
Prereq Physiology and Pharmacology 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) McIntyre, Humoller and Staff
This course places special emphasis on the physiology and biochemistry of the anatomical units of the neuro-muscular system, and the effects of drugs, poisons, and physical agents upon their functions and enzyme systems.
- 357. Seminar** (1 or 2 qtr hrs credit per quarter)
- 358. Research in Physiology and Pharmacology** (cr. arr.)

Preventive Medicine

Assistant Professor Rogers; Instructors B. Kutler, P. Pedersen.

Instruction in preventive medicine is given to second and fourth year students. These courses aim to give the students an understanding of the principles of disease prevention and health maintenance. Practical experience in the application of these principles is provided in the student health service, the dispensary, and in the family assignments. Special emphasis is placed on the growing responsibility of the physician in maintaining the health of his patients and the health of the public at large.

Preventive Medicine.—

- 320. Principles of Preventive Medicine** (1 hr weekly; total 12 hrs I)
An introduction to the field of preventive medicine, the organization and operation of local, state and national departments of health, and biostatistics.
- 321. Principles of Preventive Medicine** (1 hr weekly for 8 weeks; 2 hrs weekly for 4 weeks, total 16 hrs II)
Stresses health education, school health programs, maternal health programs, mental health programs, dental health programs, community health services and medical service plans.
- 322. Principles of Preventive Medicine** (2 hrs weekly; total 24 hrs III)
Includes tropical disease control, industrial medicine, environmental sanitation and administrative control of communicable diseases with special emphasis on tuberculosis and venereal disease.

Radiology and Physical Medicine

Professor Hunt, *Chairman*; Associate Professor Moore; Assistant Professor Pederson; Associate McAvin; Instructor Ellsworth; Clinical Assistants Gass, Tuma.

The principles of Radiology are presented during the third quarter of the second year. Correlation of radiologic interpretation with clinical manifestations is presented in the third year by means of a weekly conference participated in by clinical clerks, house officers and medical staff.

Application of X-ray, radium and radioisotopes to the treatment of cancer and allied diseases is presented in the third year through lectures and conferences and in the fourth year through tumor conferences and group assignments to the tumor clinics. The tumor conference conducted under the Cancer Education Program is required of all third-year and fourth-year students and is participated in by house officers and staff members from all departments.

Principles of physical medicine are presented by lectures during the third year and by demonstrations to small groups during the fourth year.

Radiological Anatomy (Total 6 hrs)

Taught as a part of Gross Anatomy.

- 320. Principles of Radiology** (1 hr weekly, total 12 hrs III)
- 330. Principles of Radiology** (1 hr weekly, total 12 hrs I) Dr. Moore & Dr. Hunt
Continuation of Radiology 320, diagnostic and therapeutic radiology.
- 331. Tumor Conference and Clinic** (1 hr weekly, total 24 hrs II and III) Dr. Hunt
Clinical presentation of selected cases presented jointly by Radiology, Pathology, Medicine, Surgery, Gynecology and other clinical specialties.
- 332. Diagnostic Radiologic Conference** (1 hr weekly, total 12 hrs III) Dr. Moore
Is taught by the case method correlating clinical and radiologic findings.
- 333. Principles of Physical Medicine** (1 hr weekly, total 12 hrs III) Dr. Fricke
- 341. Tumor Conference and Clinic** (4 hrs monthly, total 18 hrs I, II, III)
Continuation of course 331. Required of all senior students. Assignment in groups for case study in tumor clinic.

342. **Diagnostic Radiologic Conference** (1 hr weekly, total 12 hrs SS, I, II, III)
Continuation of course 332.

Radiology and Physical Medicine Electives.—

350. **Advanced Diagnostic Radiology** (4 to 8 cr) Dr. Hunt, Dr. Moore
Prereq Radiol. 320, 330, 340
Responsible analyses of the status of the various tissues, organs, regions and systems of the body through correlation of radiographic and fluoroscopic observations with anatomy, physiology and pathology.
352. **Advanced Therapeutic Radiology** (4 to 8 cr) Dr. Hunt, Dr. Pederson
Prereq Radiol. 320, 330, 340
Systematic consideration and responsible application of roentgen rays, radium and radioisotopes in the treatment of benign and malignant diseases involving the various organs and regions of the body.
353. **Seminar** (1 cr each semester) Staff
354. **Radiological Dosimetry** (3 to 8 cr) Dr. Moore, Dr. Pederson, Mr. Tuma
Prereq Radiol. 320, and consent of department.
Analysis of factors controlling the intensity, quality, distribution, absorption and effects of radiation in phantoms, barriers and tissues.
355. **Radiobiology** (3 to 8 cr) Dr. Latta, Dr. Hunt, Dr. Pederson
Prereq Anat. 314, 315, Radiol. 320, 354 (may be concurrent)
Assigned laboratory projects and reading for analysis of basic biologic effects of radiation on cells, tissues and organisms.
356. **Medical Instrumentation and Biophysics** (3 to 8 cr) Dr. McIntyre, Dr. Hunt
Prereq Physiol. 320, 321, Radiol. 320, 354
Assigned laboratory projects, practice and correlated reading referable to special applications of physics in medical instrumentation and biophysical analyses.
357. **Thesis** (cr arr) Staff

Senior Hospital Clerkship

Coordinators Latenser, Immanuel Hospital, Omaha; Rees, Clarkson Hospital, Omaha; Kennedy, Methodist Hospital, Omaha; Hilton, Bryan Memorial Hospital, Lincoln; Ritter, Lincoln General Hospital, Lincoln.

340. **Senior Hospital Clerkship** (18 weeks, total 540 hrs SS, I, II, III)
Senior clerkships are assigned to each senior student for a period of 18 weeks. Students serve at the Bishop Clarkson Memorial Hospital, Immanuel Deaconess Hospital, Nebraska Methodist Hospital, the University of Nebraska Hospital in Omaha and the Bryan Memorial Hospital and Lincoln General Hospital in Lincoln under the direction of members of the faculty of the College of Medicine who are also members of the attending staff of the respective hospitals. Students are assigned to general medicine, surgery, obstetrics and gynecology. The medical and surgical specialties are included in general medicine and surgery.

Senior Outcall Service

340. **Senior Outcall Service** (6 weeks, total 90 hrs SS, I, II, III)
Senior students are assigned to answer Dispensary calls requiring visits to homes when patients are unable to attend the Dispensary. Daily supervision of students is made and home visits are made by attending staff on all difficult or serious cases.

Surgery

Professors H. H. Davis, *Chairman*, R. Best, J. Bisgard, Keegan, McLaughlin; Associate Professor Finlayson; Assistant Professors Dailey, D. Thompson; Associates L. Anderson, Barmore, Browne, Cochran, Swenson, Murray; Instructors Brush, Frank, G. Johnson, D. Miller, Rasmussen, Therien, L. Thompson; Clinical Assistant Brinkman, J. Coe, Latenser, McMurtrey, Rees, C. Wilson.

The courses in surgery are planned to give the student a thorough understanding of the principles of surgical pathology, surgical diagnosis, surgical indications and treatment, and do not attempt, in the undergraduate courses, instruction in major surgical operative technic. Included in Surgery is a subdivision of Neurosurgery and a subdivision of thoracic and cardiac surgery. Minor surgical technic is taught in the clinical clerk service and dispensary, including numerous practical exercises in surgical asepsis. It is intended that the intern service prepare the student to perform

such operations as would come to the practitioner as emergencies or in the course of general work. Preparation for the practice of general surgery requires additional postgraduate work as a resident or assistant in surgery.

Surgery.—

330. Fundamentals of Surgery (3 hrs weekly, total 108 hrs I, II, III)

A series of special lectures, quizzes and clinical demonstrations on important subjects of surgery supplementary to the text, and presentation of selected cases once a week to illustrate lectures and textbook assignments.

335. Clinical Clerk (17-23 hrs weekly, total 264 hrs I, II, III)

Students are assigned to University Hospital cases for complete history, physical and laboratory examinations with requirement of differential diagnoses, progress notes, clinical-pathological correlation, and final summary. Presentation at staff rounds and clinics and practical experience in anesthesiology and surgical asepsis at operations. Total hours include clerkship in orthopedic surgery and urology.

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

Presentation of selected cases to illustrate surgical diagnosis, operative indications, and postoperative care.

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

Regular assignment to dispensary and outcall where students are given practical experience in the diagnosis of ambulant, home and hospital patients, with practical experience in anesthesia.

Urology

Professors Lee, *Chairman*, Adams, E. Davis; Associate Kammandel; Clinical Assistant Malashock.

Ward Clinics (1 hr weekly, total 8 hrs I, II, III)

Students are given ward clinics using patients at the University Hospital to illustrate major disease entities encountered in the medical practice.

330. Fundamentals of Urology (1 hr weekly, total 12 hrs II)

Lect and clinics on diseases of the urogenital system.

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

One clinic is held each week to which students are assigned for practical experience in the diagnosis and treatment of urogenital diseases.

Senior Preceptorship Program

An extramural teaching program consisting of having each senior student serve a period of twelve weeks with an experienced practitioner of medicine has been established. It affords the student an opportunity to learn much of the art and science of medical practice. Preceptors have been selected by a Preceptorship Committee of the Faculty of the College, and are outstanding leaders in medical practice in the rural communities of Nebraska.

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

TRAINING COURSE FOR X-RAY TECHNICIANS

HOWARD B. HUNT, M.A., M.D.

Professor of Radiology and Physical Medicine

RALPH C. MOORE, M.D.

Associate Professor of Radiology and Physical Medicine

E. STANLEY PEDERSON, Ph.D., M.D.

Assistant Professor of Radiology and Physical Medicine

ROBERT SCHNEDLER, R.T.

Chief Radiological Technician

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

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

Facilities for Instruction.—Ample opportunity for experience in making roentgenograms of patients is provided. During a period of 12 months about 10,000 radiographic examinations are made in the Department of Radiology for the University Hospital and Dispensary of the University of Nebraska College of Medicine. All types and positions of X-ray examinations are used in the department. The radiographic work is supervised by the radiologists and chief radiological technician. Facilities are provided for deep X-ray therapy and radium therapy with adequate protection of all workers against exposure to radiation. About 3,000 X-ray treatments and 100 radium treatments are given in the department during a year. The radioisotope laboratory conducts about 500 procedures annually. The library of the College of Medicine is maintained in the hospital.

Requirements for Admission.—An applicant for admission to the course in X-ray technique may be between 18 and 35 years of age and must be a graduate from an accredited high school. Transcripts of high school credits which show subjects studied and grades earned must be submitted. It is recommended that the preparatory work include English, Latin, physics, zoology, typing, shorthand, and secretarial work, although applicants are considered who do not present credits in all these subjects. At least one year of collegiate study including English, physics, biology, zoology, typing, shorthand, and secretarial work is recommended. In the case of those students who have completed 90 semester hours of college work, including English 6 hours, Physics 8 hours, and Biology 8 hours, the University of Nebraska College of Medicine, will grant the degree of

Bachelor of Science in Radiological Technology upon completion of the prescribed course and the additional year of approved preceptor training. Applicants must be in good health with no disabilities. The application should be accompanied by a transcript of high school and college credits, a photograph, and the names of two people from whom references can be obtained. Admission is allowed in January, July and September, and only six students can be accepted annually. Applications should be sent to the Chairman of the Department of Radiology, University of Nebraska College of Medicine, 42nd and Dewey Avenue, Omaha 5, Nebraska. Application forms will be provided upon request.

Fees and Expenses.—A tuition fee of \$90.00 for a resident student and \$140.00 for a non-resident is charged at the time of enrollment. This fee covers tuition, registration, student health and diploma fees. Students must maintain themselves and provide their own uniforms. The cost of textbooks is about \$15. Board may be obtained for \$10 a week in the vicinity of the hospital and rooms for \$5 to \$10 a week. A student may elect to spend the required second year in training at the University of Nebraska Hospital for which no tuition is charged.

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

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

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

The following courses are required of students in X-ray technique. The courses in Anatomy and Medical Science are provided through the course of the School of Nursing by the College of Medicine.

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

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

(3) **PRINCIPLES OF RADIOLOGY.**—The general principles of radiation, technique, contrast media and various diagnostic procedures are present-

ed together with the basic principles of X-ray and radium therapy. Professional ethics. Lectures. 1 cr. hr.

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

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

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

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

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

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

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

Opportunities.—There is an increasing demand for qualified technicians. These opportunities are primarily in the departments of radiology in hospitals and in the offices of doctors specializing in X-ray and radium work. There is no opportunity for independent operation of a laboratory by the technician since the use of X-ray in the diagnosis and treatment of diseases is legally the practice of medicine and in the interest of public welfare and safety must be carried out under the supervision of a registered physician.

TRAINING COURSE FOR MEDICAL TECHNOLOGISTS

Department of Pathology and Bacteriology

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

Dean, College of Medicine, and Director

MORTON HOWARD KULESH, A.B., M.D.

Assistant Director and Assistant Professor of Pathology and Bacteriology

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

Making these laboratory tests and interpreting their results have become so important and complicated that this is now a special field of medicine in itself. The volume of laboratory work has led to the training of medical technologists for the assistance of the physicians in this and other specialties, and in the general practice of medicine.

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

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

Facilities for Instruction.—The course is given in the University Hospital, and facilities of the University of Nebraska College of Medicine are available for instruction.

The University Hospital is organized primarily for teaching and is under the control of the Board of Regents, through the administration of the College of Medicine. It has a capacity of 212 beds, and patients are accepted from all over the state. All types of diseases are treated. Approximately 4,000 patients are admitted each year.

The laboratory of the University Dispensary is also used for instruction. Approximately 22,000 visits are made each year by patients of the University Dispensary. The treatment of patients in the hospital and dispensary is directed by the faculty of the College of Medicine. The laboratory work that is done includes all routine procedures, and many specialized tests that are required for unusual diseases.

The Library of the College of Medicine is maintained in the hospital. These books and periodicals are available for study, and for keeping in touch with current work in the field of laboratory diagnosis.

REQUIREMENTS FOR ADMISSION

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

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

BIOLOGY.—Twelve semester hours, of which are required at least 4 semester hours of zoology, and 3 semester hours of bacteriology if offered at the college where preliminary work is taken. If bacteriology is not available other branches of biology may be substituted.

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

PHYSICS.—A lecture and laboratory course in physics is recommended, preferably with at least 8 semester hours including 2 hours of laboratory.

ENGLISH.—Six semester hours in English.

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

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

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

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

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

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

or board are available near the campus. Allowance should be made for the purchase of books.

Plan of Instruction.—The course of training is 12 months in length. *No part of the course is offered separately.* Lectures covering background material are taken with the students of the College of Medicine. Other lectures are designed especially for the needs of the medical technologists. Conferences are held at frequent intervals for consideration of technics, their relation to disease processes, and possible sources of error. Oral and written examinations are given at intervals. Demonstrations are used to introduce new subject matter, to emphasize important points, and to familiarize the student with unusual problems.

The hours credit are arranged as follows:

Introduction to Medical Science.....	1	Biochemistry Laboratory	3
Bacteriology	4	Hematology	3
Bacteriology Laboratory	3	Hematology Laboratory	3
Parasitology	1	Histologic Technic	3
Serology	3	Blood Bank Technic	2
Biochemistry	3	Special determinations	3
Method in Chemistry	3		

The following formally arranged lecture courses are given:

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

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

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

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

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

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

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

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

CHEMISTRY—three months. This service includes examination of blood and other body materials for chemical constituents. Such tests usually are quantitative. The student learns the use of proper equipment and

the application of careful technics to the performance of a wide variety of tests. Approximately 20,000 tests in the chemistry section are performed annually, allowing thorough training in this field.

HEMATOLOGY—three months. The various tests for enumeration and detection of abnormality of the formed elements of the blood, and the tests for alterations in the coagulation mechanism of the blood are done. Approximately 35,000 such tests are performed in the hospital laboratory yearly.

BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY—three months. The identification of microorganisms, particularly pathogenic, by morphologic and cultural characteristics is undertaken in bacteriology. Serology involves primarily immunologic procedures in laboratory tests. Parasitology includes the study of technics for isolation and identification of small animal forms capable of causing disease in man. Adequate demonstration material is maintained in the laboratory. This section of training is under the direction and supervision of the bacteriology staff of the College of Medicine. Over 20,000 procedures are done yearly in this field.

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

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

MISCELLANEOUS—one month. On this service, the student performs routine examinations of urine, gastric contents, and other body fluids. In addition, the performance of basal metabolic rate determinations and of electrocardiographs is accomplished. Approximately 9,000 such tests are made yearly.

Graduating Class of 1954

Internship Appointments

Alderman, Allen J.	Chadron
USAF, Fitzsimons Army Hospital, Denver, Colorado	
Anderson, Philip Daniel, A.B. 1948, M.S. 1950, Univ. of Nebr.	Omaha
Buffalo General Hospital, Buffalo, New York	
Beber, Charles Robert, A.B. 1952, Harvard University, M.Sc. 1954, Univ. of Nebr.	Omaha
Mount Sinai Hospital, New York, New York	
Bezman, Alyce Lucille, A.B. 1951, Univ. of Omaha	Omaha
Cincinnati General Hospital, Cincinnati, Ohio	
Brewer, Edward Allan	Ogallala
St. Joseph's Hospital, Phoenix, Arizona	
Bunstock, William Henry	McCook
University of Nebraska Hospital, Omaha, Nebraska	
Chase, Robert Campbell	Broken Bow
Charles T. Miller Hospital, St. Paul, Minnesota	
Cherry, Donald Wilterdink, A.B. 1950, Univ. of Nebr.	Lincoln
University of Nebraska Hospital, Omaha, Nebraska	
Chleborad, William John, A.B. 1950, Doane Coll.	Alliance
University of Nebraska Hospital, Omaha, Nebraska	
Christensen, Ruth Ellen, A.B. 1950, Univ. of Nebr.	Lincoln
Touro Infirmary, New Orleans, Louisiana	
Cleaver, Edgar Milton, A.B. 1952, Univ. of Nebr.	Venango
Colorado General Hospital, Denver, Colorado	
Conner, Elwin Kerr, B.Sc. 1950, York Coll.	Omaha
South Shore Hospital, Chicago, Illinois	
Crilly, Donn H., A.B. 1950, Doane Coll.	Superior
Kansas City General Hospital No. 1, Kansas City, Missouri	
Dahlheim, Harold Dean, A.B. 1950, Univ. of Nebr.	North Bend
Nebraska Methodist Hospital, Omaha, Nebraska	
Davis, David Rodney, B.Sc. 1949, Univ. of Nebr.	Aurora
Immanuel Hospital, Omaha, Nebraska	
Dean, Earl Joy, B.Sc. 1951, Univ. of Nebr.	Lincoln
Nebraska Methodist Hospital, Omaha, Nebraska	
DeBelly, Carl George	McGrew
Ancker Hospital, St. Paul, Minnesota	
Deubler, Keith Frederick	Elk Creek
Madigan Army Hospital, Tacoma, Washington	
Dinsdale, Howard Arthur, A.B. 1951, Univ. of Nebr.	Palmer
Charles T. Miller Hospital, St. Paul, Minnesota	
Dinsmore, James William, B.Sc. 1952, Univ. of Nebr.	Omaha
Bishop Clarkson Memorial Hospital, Omaha, Nebraska	
Dyer, Jasper Lee	Nebraska City
Nebraska Methodist Hospital, Omaha, Nebraska	
Fencl, Howard Lyle	Linwood
Bishop Clarkson Memorial Hospital, Omaha, Nebraska	
Foft, John William, B.Sc. in Med. 1951, Univ. of Nebr.	Plainview
Minneapolis General Hospital, Minneapolis, Minnesota	
Gentry, John Franklin, A.B. 1949, Univ. of Denver	Gering
Denver General Hospital, Denver, Colorado	
Giddings, Frank Chandler, A.B. 1949, NSTC, Chadron	Rushville
Charles T. Miller Hospital, St. Paul, Minnesota	
Grace, Leslie Irl, Jr., A.B. 1949, Univ. of So. Dak., B.Sc. in Med. 1952, Univ. of So. Dak.	Woonsocket, So. Dak.
University of Nebraska Hospital, Omaha, Nebraska	
Harris, Max Eugene, A.B. 1950, Univ. of Nebr.	Alliance
San Bernardino County Hospital, San Bernardino, California	
Hasegawa, Carl Masamitsu, A.B. 1950, Univ. of Nebr.	Puunene, Maui, Hawaii
City of Detroit Receiving Hospital, Detroit, Michigan	
Haskin, Clifford James, Jr., A.B. 1949, Hastings College	Hastings
U. S. Naval Hospital, Great Lakes, Illinois	
Hazelrigg, James Edward, B.Sc. in Med. 1952, Univ. of Nebr.	Hastings
Pierce County Hospital, Tacoma, Washington	
Hegert, Thomas Frederick, A.B. 1950, B.Sc. in Med. 1952, Univ. of So. Dak.	Hartington
Orange Memorial Hospital, Orlando, Florida	

Heins, Robert Louis, A.B. 1949, Univ. of Nebr.....	Wauneta
Kansas City General Hospital, No. 1, Kansas City, Missouri	
Hyde, Lawrence Layton.....	Comstock
St. Luke's Hospital, Denver, Colorado	
Jeffrey, James Stanley, A.B. 1950, Univ. of Nebr.....	Gretna
St. Joseph's Hospital, Milwaukee, Wisconsin	
Johnson, Oscar Guy, Jr., A.B. 1950, Carleton College.....	Omaha
Nebraska Methodist Hospital, Omaha, Nebraska	
Johnson, Thomas Errol.....	Omaha
Charles T. Miller Hospital, St. Paul, Minnesota	
Jones, Phillip Henry.....	Gothenburg
Pierce County Hospital, Tacoma, Washington	
Kamm, Frank, B.Sc. 1950, York College.....	Platte Center
University of Nebraska Hospital, Omaha, Nebraska	
Kantor, Edward Arthur, A.B. 1950, Univ. of Nebr.....	Venice, Calif.
Veterans Administration Hospital, Los Angeles, California	
Karrer, Max Crawford, B.Sc. 1952, Univ. of Nebr.....	Chadds Ford, Pa.
The Delaware Hospital, Wilmington, Delaware	
Kelly, Roy Jackson.....	Omaha
USAF, Madigan Army Hospital, Tacoma, Washington	
Kiolbasa, Edward Benedict, A.B. 1952, Univ. of Nebr.....	Grand Island
Charles T. Miller Hospital, St. Paul, Minnesota	
Knosp, Alton A., A.B. 1951, Nebr. Wesleyan Univ.....	Omaha
Nebraska Methodist Hospital, Omaha, Nebraska	
Krause, Arnold Norman, B.Sc. 1950, Univ. of Nebr.....	Omaha
Bryan Memorial Hospital, Lincoln, Nebraska	
Lang, John LeRoy, A.B. 1948, Univ. of Nebr.....	Omaha
University of Nebraska Hospital, Omaha, Nebraska	
LaPorte, Donald Joseph, B.Sc. 1950, Creighton Univ.....	Omaha
Queen of Angels Hospital, Los Angeles, California	
Larson, Ernest John, Jr., B.Sc. in Med. 1954, Univ. of Nebr.....	Jamestown, No. Dak.
State of Wisconsin General Hospital, Madison, Wisconsin	
Lee, Donald Edward.....	Omaha
Providence Hospital, Portland, Oregon	
Leonard, Kenneth Ordell, A.B. 1951, Doane College.....	Bassett
U. S. Naval Hospital, Bremerton, Washington	
Lewis, George Everie, Jr., A.B. 1949, Univ. of Nebr.....	Lincoln
St. Elizabeth Hospital, Lincoln, Nebraska	
Long, James Spencer.....	Franklin
Bishop Clarkson Memorial Hospital, Omaha, Nebraska	
Lucas, Thomas, B.Sc. 1950, Univ. of Nebr.....	Ainsworth
University of Nebraska Hospital, Omaha, Nebraska	
Lukens, Isaiah Kimberly, A.B. 1950, Univ. of Nebr.....	Tekamah
St. Josephs Hospital, Phoenix, Arizona	
Magid, Bernard, A.B. 1951, Univ. of Nebr.....	Omaha
Indianapolis General Hospital, Indianapolis, Indiana	
Maixner, Reynold Robert, A.B. 1950, Univ. of Nebr.....	Dwight
Hurley Hospital, Flint, Michigan	
Malott, Ralph Justin, Jr., B.Sc. 1948, Univ. of Nebr.....	Omaha
St. Josephs Hospital, Denver, Colorado	
McDonald, Richard Thomas, A.B. 1952, Univ. of Nebr.....	Wood River
San Bernardino County Hospital, San Bernardino, California	
Miller, James Robert Scott, A.B. 1949, Univ. of Omaha.....	Omaha
University of Pennsylvania Hospitals, Philadelphia, Pennsylvania	
Maxwell, John Bishop, A.B. 1951, Univ. of Nebr.....	Peru
Moody, Edson Bridges.....	Omaha
Presbyterian Hospital, Chicago, Illinois	
Moskovitch, Mayer, A.B. 1951, Univ. of Nebr.....	Omaha
University Hospitals, Columbus, Ohio	
Nachman, Elias.....	Omaha
Mount Sinai Hospital, Milwaukee, Wisconsin	
Newell, Charles Harold, Jr.....	Omaha
Nebraska Methodist Hospital, Omaha, Nebraska	
Newkirk, George Lee, A.B. 1949, Stanford Univ.....	Omaha
Highland Alameda County Hospital, Oakland, California	
Ochsner, Tom Stanley, A.B. 1950, Univ. of Nebr.....	York

Penner, Clyde Eugene, A.B. 1950, Univ. of Nebr.	Trenton
Nebraska Methodist Hospital, Omaha, Nebraska	
Peterson, Byron Eugene	Inavale
Bishop Clarkson Memorial Hospital, Omaha, Nebraska	
Porter, John Wesley, B.Sc., 1947, U. S. Naval Academy	Nebraska City
University of Nebraska Hospital, Omaha, Nebraska	
Potts, Leslie Carroll	Oxford
Immanuel Hospital, Omaha, Nebraska	
Powell, Thomas Theodore, B.Sc. 1951, Univ. of Nebr.	Lincoln
Bryan Memorial Hospital, Lincoln, Nebraska	
Resinger, Harold Eugene, A.B. 1950, B.Sc. in Med. 1951, Univ. of North Dakota	Worthington, Pa.
Nebraska Methodist Hospital, Omaha, Nebraska	
Richardson, Stewart Frank, B.Sc. in Med. 1951, Univ. of Nebr.	Lincoln
Immanuel Hospital, Omaha, Nebraska	
Richter, Paul Hartwell, B.Sc. 1949, Jamestown College; B.Sc. in Med. 1952, Univ. of No. Dak.	Parkers Prairie, Minn.
Minneapolis General Hospital, Minneapolis, Minnesota	
Samler, Jacob David, B.Sc. in Med. 1952, Univ. of Nebr.	Haigler
Indianapolis General Hospital, Indianapolis, Indiana	
Saults, Charles Joseph, B.Sc. 1950, Univ. of Nebr.	Gordon
St. Josephs Hospital, Phoenix, Arizona	
Scheuneman, Allen Fred, A.B. 1950, Univ. of Nebr.	Ceresco
Immanuel Hospital, Omaha, Nebraska	
Shopp, Bryce George, A.B. 1950, Univ. of Nebr.	Imperial
Lincoln General Hospital, Lincoln, Nebraska	
Shyken, Herman, B.Sc. in Med. 1952, Univ. of Nebr.	Omaha
Jewish Hospital, St. Louis, Misosuri	
Slichter, Gene T., A.B. 1950, Univ. of Omaha	Omaha
Sacred Heart Hospital, Spokane, Washington	
Smith, Kayo, A.B. 1950, Univ. of Nebr.	Bayard
Highland Alameda County Hospital, Oakland, California	
Speckhals, Robert Charles	Nebraska City
Ancker Hospital, St. Paul, Minnesota	
Springer, Wesley Franklin	Omaha
University of Nebraska Hospital, Omaha, Nebraska	
Standage, Harlow Don, A.B. 1950, Univ. of Nebr.	Phillips
USAF, Madigan Army Hospital, Tacoma, Washington	
Swanson, Clarence Hilding, Jr., B.Sc. 1950, Univ. of Nebr.	Columbus, Mont.
Ancker Hospital, St. Paul, Minnesota	
Swenson, John Andrew, B.Sc. 1950, Jamestown Coll.; B.Sc. in Med. 1952, Univ. of No. Dak.	Jamestown, No. Dak.
St. Lukes Hospital, Fargo, North Dakota	
Troester, Otto Saeger, A.B. 1949, Univ. of Nebr.	Hampton
The University of Oklahoma Hospital, Oklahoma City, Oklahoma	
Wagener, Ronald Edgar, B.Sc. 1949, M.Sc. 1952, Univ. of Nebr.	Cheyenne, Wyo.
University of Nebraska Hospital, Omaha, Nebraska	
Walker, Hiram Robert	Orleans
Immanuel Hospital, Omaha, Nebraska	
Ward, Vernon Graves, A.B. 1948, Nebraska Wesleyan Univ.	Palisade
University Hospitals, Madison, Wisconsin	
Watson, Victor Robert, A.B. 1950, B.Sc. in Med. 1952, Univ. of So. Dak.	Huron, So. Dak.
Kansas City General Hospital No. 1, Kansas City, Missouri	
Weish, Jack Daryl, A.B. 1951, Univ. of Nebr.	Sidney
The University of Oklahoma Hospitals, Oklahoma City, Oklahoma	
Young, Gerald Devereaux, B.Sc. 1950, Univ. of Nebr.	Lexington
Presbyterian Hospital, Denver, Colorado	

THE UNIVERSITY OF NEBRASKA

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School of Journalism

Leading to the degrees of Bachelor of Arts, Bachelor of Science in Agriculture, Bachelor of Science in Business Administration in the appropriate colleges, and to a certificate in journalism.

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Leading to the degrees of Bachelor of Science in Law and Bachelor of Laws.

College of Medicine

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

School of Nursing

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

College of Pharmacy

Leading to the degree of Bachelor of Science in Pharmacy.

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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.

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