WASHINGTON UNIVERSITY

George R. Throop, Ph.D., LL.D., Bridge Chancellor

Walter E. McCourt, A.M., Assistant Chancellor

The College of Liberal Arts
Frank H. Webster, Ph.B., Acting Dean

The School of Engineering
Alexander S. Langsdorf, M.M.E., Dean

The School of Architecture
Alexander S. Langsdorf, M.M.E., Dean

The School of Business and Public Administration
William H. Steed, Ph.D., Dean

The Henry Shaw School of Botany
George T. Moore, Ph.D., Director

The School of Graduate Studies
Richard F. Jones, Ph.D., Acting Dean

The School of Law
Joseph A. McClain, Jr., A.B., LL.B., J.S.D., LL.D., Dean

The School of Medicine
Philip A. Shaffer, Ph.D., Dean

The School of Dentistry
Benno E. Lischere, D.M.D., Dean

The School of Nursing
Louise Knapp, B.S., A.M., Director

The School of Fine Arts
Kenneth E. Hudson, B.F.A., Director

The University College
William G. Bowling, A.M., Dean

The Summer School
Frank L. Wright, A.M., Ed.D., Director

Mary Institute, a preparatory school for girls, located at Ladue and Warson Roads, is also conducted under the charter of the University.

Note: Those desiring information concerning any of the divisions listed above should write to the Dean or Director concerned.
Block Plan of Washington University
Medical Group and School of Dentistry
### CALENDAR

#### 1942

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CALENDAR

1941-42

Registration for Second Half-Year, Monday, February 2, 1942.
Third Trimester begins Monday, March 23, 1942.
Commencement, Tuesday, June 9, 1942.

1942-43

NOTICE: Change of Academic Calendar.

While this bulletin was in press it was decided to accelerate the undergraduate medical curriculum by continuing instruction for all classes during a full summer quarter beginning in 1942. By the four-quarter plan thus established for the duration of the National Emergency, the minimum period required for graduation will be reduced for the next entering class to three calendar years, with corresponding acceleration for classes now enrolled.

Adoption of this plan will make necessary modifications of the announcements and time schedules printed in this bulletin. It is the intention of the Faculty to avoid any lowering of standards and to maintain the full content of courses as well as the level of accomplishment now required for graduation. There will however be numerous changes directed toward greater emphasis on topics especially related to conditions of the time.

The schedules for the first and second classes will be greatly modified from those printed in this bulletin. The schedules for the third and fourth classes will be modified only in minor ways, except that each will apply to all four quarters of the calendar year.

Subject to possible change the following dates have been set for the year 1942-43.

Registration for second, third and fourth classes, Saturday, June 13, 1942.
Summer quarter for these classes begins on Monday, June 15.
Registration for first class, Saturday, July 11, 1942.
Summer quarter begins Monday, July 13.
Commencement for Class of 1943, Thursday, May 27, 1943.

TUITION FEES

Tuition and other fees will be unchanged by adoption of the four-quarter program; that is, one-third of the normal tuition fee or $166.67 will be charged for each quarter, payable on or before the first day of each quarter.
THE CORPORATION

President
MALVERN BRYAN CLOPTON

First Vice-President
HARRY BROOKINGS WALLACE

Second Vice-President
ALFRED LEE SHAPLEIGH

Directors
ALFRED LEE SHAPLEIGH
HARRY BROOKINGS WALLACE
WILLIAM HENRY DANFORTH
DANIEL KAYSER CATLIN
DANIEL NOYES KIRBY
MALVERN BRYAN CLOPTON
EDWARD MALLINCKRODT, JR.
EUGENE DUTTON NIMS

ERNEST WILLIAM STIX
WILSON LINN HEMINGWAY
LEMUEL RAY CARTER
JOHN BALTHASAR STRAUCH
EDGAR MONSANTO QUEENY
HOWARD ISAAC YOUNG
CLIFFORD WILLARD GAYLORD
JOHN STARK LEHMANN

ETHAN ALLEN HITCHCOCK SHEPLEY

Treasurer, and Secretary to the Corporation
JOSEPH HENRY ZUMBALEN

Office in Robert S. Brookings Hall, Skinker and Lindell Boulevards
OFFICERS OF GOVERNMENT AND INSTRUCTION

GEORGE REEVES THROOP . . . Bridge Chancellor of the University
A.B., DePauw University, 1901; A.M., 1903; Ph.D., Cornell University, 1905;
LL.D., DePauw University, 1929; LL.D., University of Missouri, 1930.

WALTER EDWARD MCCOURT . . Assistant Chancellor of the University
A.B., Cornell University, 1904; A.M., 1905.

PHILIP ANDERSON SHAFFER . . . Dean
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,
University of Rochester, 1933.

FRANKLIN EDWARD WALTON . . . Assistant Dean
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

WILLIAM BAHLMANN PARKER . . . Registrar
A.B., University of Missouri, 1921.

PROFESSORS

JOSEPH ERLANGER . . . Professor of Physiology
Physiologist, Barnes and St. Louis Children's Hospitals.
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899;
LL.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936;
Sc.D., University of Wisconsin, 1938; Sc.D., University of Michigan, 1937.

PHILIP ANDERSON SHAFFER . . Professor of Biological Chemistry
Chemist, Barnes and St. Louis Children's Hospitals.
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,
University of Rochester, 1939.

ROBERT JAMES TERRY . . Professor Emeritus of Anatomy
Anthropologist Emeritus, Barnes Hospital.
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.

LEO LOEB . . . . . Professor Emeritus of Pathology and Research Professor of Pathology
M.D., University of Zurich, 1896.

EVARTS AMBROSE GRAHAM . . Bixby Professor of Surgery
Surgeon in Chief, Barnes and St. Louis Children's Hospitals; Surgeon, St.
Louis Maternity Hospital; Surgeon in Chief to Outpatients, University Clinics;
Consulting Surgeon, Homer G. Phillips Hospital.
A.B., Princeton University, 1904; M.D. Rush Medical College, 1907; M.S.,
Yale University, 1928; LL.D. Central College, 1936; Sc.D., University of
Cincinnati, 1927; Sc.D., Princeton University 1929; Sc.D., Western Reserve
University, 1931; Sc.D. (hon.), University of Chicago, 1941.

OTTO HENRY SCHWARZ Professor of Clinical Obstetrics and Gynecology
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospi-
tals; Consulting Gynecologist, St. Louis Children's Hospital; Obstetrician and
Gynecologist to Outpatients, University Clinics; Consultant in Obstetrics and
Gynecology, Homer G. Phillips Hospital.
M.D., Washington University, 1913.

SHERWOOD MOORE . . . . . . Professor of Radiology
Roentgenologist, Barnes and St. Louis Maternity Hospitals; Radiologist, St.
Louis Children's Hospital.
M.D., Washington University, 1905.

LEE WALLACE DEAN . . Professor Emeritus of Otolaryngology
Otolaryngologist in Chief Emeritus, Barnes Hospital; Consulting Otolaryngolo-
gist, St. Louis Children's and St. Louis Maternity Hospitals; Consulting Oto-
aryngologist, Homer G. Phillips Hospital.
B.S., University of Iowa, 1894; M.S., 1896; M.D., 1896.

1 Arranged in groups in order of appointment, as of December, 1941.
EDMUND VINCENT COWDRY . . . . . . . Professor of Anatomy
Anthropologist, Barnes and St. Louis Children's Hospitals.
B.A., University of Toronto, 1908; Ph.D., University of Chicago, 1912.

JACQUES JACOB BRONFENBRENNER . . Professor of Bacteriology and Immunology and of Public Health
Bacteriologist, St. Louis Children's Hospital.
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.

GEORGE HOLMAN BISHOP . . . . . Professor of Biophysics
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.

CARL F. CORI . . . . . . Professor of Pharmacology
M.D., University of Prague, 1920.

LAWRENCE TYLER POST . . Professor of Clinical Ophthalmology and Head of the Department
Ophthalmologist in Chief, Barnes Hospital; Ophthalmologist, St. Louis Children's and St. Louis Maternity Hospitals; Ophthalmologist in Chief to Outpatients, University Clinics; Consulting Ophthalmologist, St. Louis City and Homer G. Phillips Hospitals.
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.

ALEXIS FRANK HARTMANN . Professor of Pediatrics and Head of the Department
Physician in Chief, St. Louis Children's Hospital; Pediatrician in Chief, St. Louis Maternity Hospital; Pediatrician in Chief to Outpatients, University Clinics; Consultant in Pediatrics, St. Louis City and Homer G. Phillips Hospitals.
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.

JEAN VALJEAN COOKE . . . . . Professor of Pediatrics
Associate Physician, St. Louis Children's Hospital; Associate Pediatrician, St. Louis Maternity Hospital; Physician and Section Chief (Pediatrics), University Clinics.
A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.

CARLYLE FERDINAND JACOBSEN . . Professor of Medical Psychology
Psychologist, Barnes and St. Louis Children's Hospitals; Consultant in Psychology, University Clinics; Consultant in Medical Psychology, Malcolm A. Bliss Psychiatric Institute.
A.B., University of Minnesota, 1924; Ph.D., 1928.

DAVID MCKENZIE EIOCH . . Professor of Neurology and Head of the Department of Neuropsychiatry
Neurologist in Chief, Barnes Hospital; Neurologist, St. Louis Children's and St. Louis Maternity Hospitals; Neurologist in Chief, University Clinics; Visiting Physician in Neuropsychiatry (Section Head), St. Louis City Hospital; Consulting Physician and Section Director (Neuropsychiatry), Homer G. Phillips Hospital; Consulting Physician (Neurology), Malcolm A. Bliss Psychiatric Institute.
A.B., Butler College, 1920; M.D., Johns Hopkins University, 1924.

ROBERT ALLAN MOORE . Edward Mallinckrodt Professor of Pathology
Pathologist, Barnes and St. Louis Children's Hospitals; Pathologist, St. Louis Maternity Hospitals.
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.

WILLARD MYRON ALLEN . . Professor of Obstetrics and Gynecology
Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Consultant in Obstetrics and Gynecology, St. Louis City Hospital; Consultant in Obstetrics and Gynecology, Homer G. Phillips Hospital.
B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932; Sc.D. (hon.), Hobart College, 1940.

THEODORE EDWIN WALSH . . . . Professor of Otolaryngology
Otolaryngologist in Chief, Barnes Hospital; Otolaryngologist, St. Louis Children's and St. Louis Maternity Hospitals; Otolaryngologist in Chief to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital; Visiting Otolaryngologist, Homer G. Phillips Hospital.
ARTHUR LEWELYN HUGHES . . . . . Consulting Physicist B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; B.Sc., 1912.

JOHN VINCENT LAWRENCE . . . Director of University Clinics and Assistant Professor of Medicine Assistant Physician, Barnes Hospital; Physician and Section Chief (Health and Diagnostic), University Clinics. B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.

HARRY STURGEON CROSSEN . Professor Emeritus of Clinical Obstetrics and Gynecology Consultant in Obstetrics and Gynecology, Barnes and St. Louis Maternity Hospitals; Consultant in Gynecology, St. Louis Children's Hospital. M.D., Washington University, 1892.

HUGO EHRENFEST . . Professor Emeritus of Clinical Obstetrics and Gynecology Associate Obstetrician and Gynecologist, Barnes Hospital; Consultant in Obstetrics and Gynecology, St. Louis Maternity Hospital. M.D., University of Vienna, 1894.

MARTIN FEBNEY ENGMAN Professor Emeritus of Clinical Dermatology Dermatologist, Barnes, St. Louis Children's and St. Louis Maternity Hospitals. M.D., University of New York, 1891.

BORDEN SMITH VEEDER . . . Professor of Clinical Pediatrics Consulting Pediatrician, St. Louis Maternity Hospital; Consulting Physician, St. Louis Children's Hospital. M.D., University of Pennsylvania, 1907.

SIDNEY ISAAC SCHWAB . . . Professor of Clinical Neurology Neurologist, Barnes and St. Louis Maternity Hospitals; Consulting Neurologist, St. Louis Children's Hospital; Consultant in Neurology, University Clinics; Visiting Physician, Malcolm A. Ellis Psychiatric Institute. M.D., Harvard University, 1896.

ERNEST SACHS . . . Professor of Clinical Neurological Surgery Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital. A.B., Harvard University, 1896; M.D., Johns Hopkins University, 1904.

MAJOR GABRIEL SEELIG . . . Professor of Clinical Surgery Assistant Surgeon, Barnes Hospital. A.B., Harvard University, 1886; M.D., Columbia University, 1909.

WILLIAM EWING SHAHAN . . Professor of Clinical Ophthalmology Associate Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics. A.B., Harvard University, 1901; M.D., 1904; A.M., 1912.

FREDERICK JOSEPH TAUSSE . . Professor of Clinical Obstetrics and Gynecology Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals. A.B., Harvard University, 1893; M.D., St. Louis Medical College, 1898.

VILRAY PAPIN BLAIR . . . Professor Emeritus of Clinical Surgery Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital. A.M., Christian Brothers College, 1890; M.D., Washington University, 1892.

MALVERN BRYAN CLOPTON . . . Professor of Clinical Surgery Associate Surgeon, Barnes and St. Louis Maternity Hospitals; Consulting Surgeon, St. Louis Children's Hospital. M.D., University of Virginia, 1897.

ALBERT ERNEST TAUSSE . . Professor Emeritus of Clinical Medicine Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital. A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894.
THE SCHOOL OF MEDICINE

Meyer Wiener . . . . . . Professor of Clinical Ophthalmology
Associate Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics. M.D., Missouri Medical College, 1896.

John Albert Key . . . . Professor of Clinical Orthopedic Surgery
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Consulting Surgeon, St. Louis Maternity Hospital; Surgeon and Section Chief (Orthopedic), University Clinics; Visiting Surgeon and Section Head (Orthopedic), St. Louis City Hospital; Consulting Surgeon (Orthopedic), Homer G. Phillips Hospital. M.D., Johns Hopkins University, 1918.

Grandison Delaney Royston . Professor of Clinical Obstetrics and Gynecology
Associate Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals; Associate Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics. M.D., Washington University, 1907.

Arthur Walter Proetz . . . . . Professor of Clinical Otolaryngology
Assistant Otolaryngologist, Barnes and St. Louis Maternity Hospitals; Associate Otolaryngologist, St. Louis Children's Hospital; Otolaryngologist to Outpatients, University Clinics; Consulting Otolaryngologist, St. Louis City Hospital. A.B., Washington University, 1910; M.D., 1912.

Dalton Keats Rose . . Professor of Clinical Genitourinary Surgery
Associate Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon, St. Louis Maternity Hospital; Urologist in Chief, University Clinics; Consulting Surgeon (Urology), Homer G. Phillips Hospital. M.D., Washington University, 1915.

Thomas Kenneth Brown . . . . Professor of Clinical Obstetrics and Gynecology
Assistant Obstetrician and Gynecologist, Barnes Hospital; Associate Gynecologist, St. Louis Children's Hospital; Obstetrician and Gynecologist to Outpatients, University Clinics; Visiting Obstetrician and Gynecologist (Section Head), St. Louis City Hospital; Chief of Staff and Consulting Obstetrician and Gynecologist (Section Director), Homer G. Phillips Hospital. B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University, 1924.

Harry Webster Lyman . . . . Professor of Clinical Otolaryngology
Associate Otolaryngologist, St. Louis Children's Hospital; Assistant Otolaryngologist, St. Louis Maternity Hospitals; Otolaryngologist to Outpatients, University Clinics. M.D., St. Louis College of Physicians and Surgeons, 1895.

Harry Louis Alexander . . . . Professor of Clinical Medicine and Acting Head of the Department of Medicine
Acting Physician in Chief, Barnes and St. Louis Maternity Hospitals; Physician in Chief, University Clinics; Consulting Physician, St. Louis City Hospital; Consulting Physician, Homer G. Phillips Hospital. A.B., Williams College, 1910; M.D., Columbia University, 1914.

Willard Bartlett . . . . Professor Emeritus of Clinical Surgery
A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims College of Medicine, 1898.

James Percy Baumberger1 . . . . Visiting Professor of Cytology
B.S., University of California, 1914; M.S., Harvard University, 1916; D.Sc., 1918.

Anton Julius Carlson2 . . . . Visiting Professor of Physiology
B.S., Augustana College, 1898; A.M., 1899; LL.D., 1923; Ph.D., Stanford University, 1902.

Virgil Loeb . . . . . . . . . Lecture in Stomatology
Consulting Stomatologist, St. Louis Children's Hospital; Stomatologist, St. Louis Maternity Hospital. A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.

1 January 1 to December 20, 1941.
2 November 7 to December 6, 1941.
ASSOCIATE PROFESSORS

WARREN PHILo ELMER . . . Associate Professor of Clinical Medicine
Assistant Physician, Barnes Hospital.
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.

HARVEY LESTER WHITE . . . Associate Professor of Physiology
B.S., Washington University, 1918; M.D., 1920.

WILLIAM FREDERIC HARDY . . . Associate Professor of Clinical Ophthalmology
Assistant Ophthalmologist, Barnes Hospital; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.
M.D., Washington University, 1901.

GLOVER H. COPHER . . . Associate Professor of Clinical Surgery
Assistant Surgeon, Barnes Hospitals; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals.
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

WILLIAM HARWOOD OLMSTED . Associate Professor of Clinical Medicine
Assistant Physician, Barnes Hospital; Consulting Physician, St. Louis City Hospital.
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.

MILDRED TROTTER . . . Associate Professor of Anatomy
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.

ARTHUR SCOTT GILSON, JR . . . Associate Professor of Physiology
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.

LOUIS A. JULIANELLE . . . Associate Professor of Applied Bacteriology and Immunology in Ophthalmology
Associate Bacteriologist, St. Louis Children's Hospital.
B.A., Yale University, 1917; M.S., 1919; Ph.D., University of Pennsylvania, 1922.

DREW WILLIAM LUTEN . . . Associate Professor of Clinical Medicine
Assistant Physician, Barnes Hospital; Physician to Outpatients, University Clinics.
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.

JOSEPH WILLIAM LARIMORE . Associate Professor of Clinical Medicine
Assistant Roentgenologist, Barnes Hospital; Assistant Radiologist, St. Louis Children's Hospital.
A.B., DePauw University, 1908; M.D., Washington University, 1913.

GORDON H. SCOTT . . . Associate Professor of Histology
A.B., Southwestern College, 1922; A.M., University of Minnesota, 1925; Ph.D., 1926.

THEODORE C. HEMPELMANN . Associate Professor of Clinical Pediatrics
Consulting Physician, St. Louis Children's Hospital; Consulting Pediatrician, St. Louis Maternity Hospital.
M.D., Washington University, 1908.

JAMES LEE O'LEARY . . . Associate Professor of Neuroanatomy
B.S., University of Chicago, 1921; Ph.D., 1928; M.D., 1931.

FREDERICK ENO WOODRUFF . . . Associate Professor of Clinical Ophthalmology
Consulting Ophthalmologist, St. Louis Children's Hospital; Assistant Ophthalmologist, Barnes Hospital; Ophthalmologist to Outpatients, University Clinics.
M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.

ROBERT ELMAN . . . Associate Professor of Clinical Surgery
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon and Section Chief (General Surgery), University Clinics; Visiting Surgeon, St. Louis City Hospital; Visiting Surgeon (Section Director), Homer G. Phillips Hospital.
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.

1 On leave of absence for military duty.
THE SCHOOL OF MEDICINE

PETER HEINBECKER . . . Associate Professor of Clinical Surgery
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (General Surgery), St. Louis City Hospital.
B.A., McGill University, 1918; M.D., 1921.

JAMES BARRETT BROWN . . . Associate Professor of Clinical Surgery
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (Plastic), St. Louis City Hospital; Consulting Surgeon (Plastic), Homer G. Phillips Hospital.
M.D., Washington University, 1926.

HUGH MCCULLOCH . . . Associate Professor of Clinical Pediatrics
Associate Pediatrician, St. Louis Maternity Hospital; Associate Physician, St. Louis Children's Hospital.
A.B., University of Arkansas, 1908; M.D., Johns Hopkins University, 1912.

JAMES BARRETT BROWN . . . Associate Professor of Clinical Surgery
Assistant Surgeon, Barnes Hospital; Associate Surgeon, St. Louis Children's and St. Louis Maternity Hospitals; Surgeon to Outpatients, University Clinics; Visiting Surgeon and Section Head (Plastic), St. Louis City Hospital; Consulting Surgeon (Plastic), Homer G. Phillips Hospital.
M.D., Washington University, 1926.

HELEN TREDWAY GRAHAM . . . Associate Professor of Pharmacology
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.

MARTIN HAYWARD POST . . . Associate Professor of Clinical Ophthalmology
Assistant Ophthalmologist, Barnes and St. Louis Maternity Hospitals; Consulting Ophthalmologist, St. Louis Children's Hospital; Ophthalmologist to Outpatients, University Clinics.
A.B., Amherst College, 1905; M.D., Johns Hopkins University, 1912.

NATHAN ANTHONY WOMACK . . . Associate Professor of Clinical Surgery
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1 Resigned December 31, 1941.
2 Deceased July 28, 1941.
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1 On leave of absence for military duty.
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WILLIAM Cramer . . . . Research Associate in Cytology  

SEVERO OCHOA . Research Associate and Instructor in Pharmacology  
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INSTRUCTORS

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M.D., Missouri Medical College, 1899.

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A.B., Washington University, 1931; M.D., 1935.

CARL AUGUST WATTENBERG . . . Assistant in Clinical Genitourinary Surgery
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
A.B., University of Kansas, 1934; M.D., 1937.

BENJAMIN HYNES CHARLES . . . . . Assistant in Clinical Medicine
Assistant Physician, Barnes Hospital; Assistant Physician to Outpatients,
University Clinics.
M.B., Ch.B., University of Edinburgh, 1934.

TRUMAN GUTHRED DRAKE, JR. . . . Assistant in Clinical Medicine
Assistant Physician, Barnes Hospital; Visiting Physician, St. Louis City Hos-
pital.
A.B., Washington University, 1929; M.D., 1933.

JEAN FISCHER BENNET† . . . Assistant in Applied Chemistry in Medicine
A.B., Washington University, 1934; M.S., 1935.

STANLEY MILTON LEYDIG . . . . . Assistant in Clinical Orthopedic Surgery
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Sur-
geon to Outpatients (Orthopedic), University Clinics; Visiting Surgeon (Ortho-
pedic), Homer G. Phillips Hospital.
A.B., State University of Montana, 1930; M.D., Washington University, 1934.

HERMAN HUTTO . . . Assistant in Clinical Obstetrics and Gynecology
Assistant Obstetrician and Gynecologist, Barnes Hospital; Assistant Obstetri-
cian and Gynecologist to Outpatients, University Clinics.
A.B., University of Alabama, 1932; M.D., Washington University, 1935.

MARY LUCY MILLER . . . . . . . Research Assistant in Pathology
A.B., Syracuse University, 1927; M.A., Columbia University, 1929; Ph.D., 1934.

JAMES WILLIAM BAGBY . . . . . . Assistant in Clinical Dermatology
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting
Physician (Dermatology), Homer G. Phillips Hospital.
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.

MORRIS DAVID MARCUS . . . . . Assistant in Clinical Dermatology
Assistant Physician to Outpatients (Dermatology), University Clinics; Visiting
Physician (Dermatology), Homer G. Phillips Hospital.
M.D., Washington University, 1934.

CARL JACOB ALTHAUS . . . . . . . Assistant in Clinical Genitourinary Surgery
Voluntary Assistant In Genitourinary Surgery, Barnes Hospital; Assistant
Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., St. Louis University, 1917.

HARRY CUTLER . . . . . . . Assistant in Clinical Genitourinary Surgery
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant
Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., St. Louis University, 1936.

HAROLD HENRY FELLER . Assistant in Clinical Genitourinary Surgery
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant
Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., Washington University, 1926.

JULES H. KOPP . . . . . . . Assistant in Clinical Genitourinary Surgery
Voluntary Assistant in Genitourinary Surgery, Barnes Hospital; Assistant
Surgeon to Outpatients (Genitourinary), University Clinics; Visiting Surgeon
(Genitourinary), St. Louis City Hospital.
M.D., University of Arkansas, 1931.

† Resigned September 30, 1941.
Burchard Simpson Prubb ... Assistant in Clinical Surgery
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.
B.S., Washington University, 1929; M.D., 1929.

Frank McDowell ... Assistant in Clinical Surgery
Assistant Surgeon, Barnes and St. Louis Children's Hospitals; Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Plastic), Homer G. Phillips Hospital.
A.B., Dury College, 1932; M.D., Washington University, 1936.

Carl J. Heffetz ... Assistant in Clinical Surgery
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon, Homer G. Phillips Hospital.
B.S., Washington University, 1928; M.D., 1929.

Bruce Carson Martin ... Assistant in Clinical Surgery
Assistant Surgeon, Barnes Hospital; Visiting Surgeon, Homer G. Phillips Hospital.
M.D., Washington University, 1935.

Loren Francis Blaney ... Assistant in Clinical Medicine
A.B., Washington University, 1934; M.D., 1938.

Elma Knost Doubly ... Assistant in Immunology in Medicine
A.B., University of Kansas, 1932.

Malcolm M. Cook ... Assistant in Clinical Medicine and Research
Assistant in Pediatrics
Assistant Physician, Barnes Hospital; Theron Callin Fellow, St. Louis Children's Hospital.
B.S., Emory University, 1930; M.D., 1933.

William Grant Cooper, Jr. ... Assistant in Surgery
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., Harvard University, 1933; M.D., Yale University, 1937.

Andy Hall, Jr. ... Assistant in Clinical Genitourinary Surgery
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
M.D., Washington University, 1926.

George Kalmanson ... Assistant in Bacteriology and Immunology
B.S., College of the City of New York, 1934; M.S., University of Illinois, 1938; Ph.D., Washington University, 1939.

Alfred McKee Large ... Assistant in Surgery
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
A.B., University of Toronto, 1933; M.D., 1936.

John Robert Lionberger, Jr. ... Assistant in Radiology
Resident Radiologist, Barnes Hospital.
A.B., Washington University, 1934; M.D., 1938.

Virginia Minnich ... Assistant in Hematology in Medicine
B.S., Ohio State University, 1927; M.S., Iowa State College, 1933.

James F. Nolan ... Assistant in Obstetrics and Gynecology
Resident Obstetrician and Gynecologist, St. Louis Maternity Hospital.
A.B., University of Missouri, 1935; M.D., Washington University, 1938.

Edward Humphrey Reinhard ... Assistant in Medicine
Visiting Physician, Homer G. Phillips Hospital.
A.B., Washington University, 1935; M.D., 1939.

Harold K. Roberts ... Assistant in Medicine
Assistant Physician to Outpatients, University Clinics.
A.B., Ohio State University, 1935; M.D., 1939.

William Frederick Rose ... Assistant in Surgery
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
M.D., Washington University, 1938.

David C. Rothman ... Assistant in Clinical Obstetrics and Gynecology
Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
JOHN HARRISON WEDIG . . . . . Assistant in Clinical Medicine
Physician to Outpatients, University Clinics.
M.D., Washington University, 1938.

WILLARD TERRILL BARNHART . . Assistant in Clinical Genitourinary
Surgery
Assistant Surgeon to Outpatients (Genitourinary), University Clinics.
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University,
1933.

CLAYTON BROCK . . . . . Assistant in Clinical Surgery
A.B., Lawrence College, 1922; B.M., Northwestern University, 1936; M.D.,
1937.

ANTHONY KARL BUSCH . . . . . Assistant in Clinical Psychiatry
M.D., St. Louis University, 1937.

ADOLPH HENRY CONRAD, JR. . . Assistant in Clinical Dermatology
Assistant Physician to Outpatients (Dermatology), University Clinics.
A.B., Washington University, 1934; M.D., 1938.

PHILIP SHANNON MOUNTJOY . . Assistant in Clinical Otolaryngology
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Visiting
Otolaryngologist, Homer G. Phillips Hospital.
A.B., Washington University, 1933; M.D., 1937.

ALFRED FLEISHMAN Assistant in Clinical Medicine
Visiting Physician, St. Louis City Hospital.
B.S., Washington University, 1935; M.D., 1935.

STANLEY FORREST HAMPTON . . Assistant in Clinical Medicine
Assistant Physician, Barnes Hospital.
A.B., Washington and Lee University, 1930; M.D., Washington University,
1934.

VIRGIL OTTO FISH . . . . . Assistant in Clinical Surgery
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Proctology),
Homer G. Phillips Hospital.
M.D., Washington University, 1930.

GERHARD ELIAS GRUENFELD Assistant in Clinical Surgery
Assistant Surgeon to Outpatients, University Clinics.
M.D., Friedrich-Wilhelms University, 1923.

GORDON SCHOEPFLE . . . . . Assistant in Physiology
A.B., De Pauw University, 1937; Ph.D., Princeton University, 1940.

WILLIAM KINDRED WILSON . . Assistant in Clinical Surgery
Assistant Surgeon to Outpatients, University Clinics; Visiting Surgeon (Proctology),
Homer G. Phillips Hospital.
A.B., University of Alabama, 1932; M.D., Washington University, 1935.

WILLIAM T. MOORE1 . . . . . Assistant in Pathology
Voluntary Assistant Pathologist, Barnes Hospital.
M.D., University of Virginia, 1938.

PAUL TUPPER HARTMAN . . . Assistant in Clinical Psychiatry
A.B., Washington University, 1934; M.D., 1938.

HAROLD E. FREEDMAN . . . . . Assistant in Clinical Medicine
Visiting Physician, St. Louis City Hospital.
Ph.B., Yale University, 1929; M.D., Washington University, 1933.

THEODOR ENGELMANN KIRCHER, JR. . . Assistant in Clinical Medicine
Assistant Physician, Barnes Hospital.
A.B., Yale University, 1933; M.D., Washington University, 1937.

BART NEWTON WHITE . . . . . Assistant in Medicine
Physician to Outpatients, University Clinics.
B.S., Duke University, 1935; M.D., Vanderbilt University, 1939.

HUBERT LEE ALLEN . . . . . Assistant in Obstetrics and Gynecology
Assistant Obstetrician and Gynecologist to Outpatients, University Clinics.
A.B., University of Kansas, 1932; M.D., Tulane University, 1938.

1 July 1 to December 31, 1941.
VILRAY PAPIN BLAIR, JR.  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1939.

HAROLD METCALFE CLARKE  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., University of Rochester, 1939.

RUSSELL J. CRIDER  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1940.

CHARLES LEONARD ECKERT  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1939.

HAROLD METCALFE CLARKE  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., University of Rochester, 1939.

RUSSELL J. CRIDER  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1940.

CHARLES LEONARD ECKERT  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
M.D., Washington University, 1939.

JANE ARAX ERGANIAN  . . . . . . Assistant in Pathology  
Voluntary Assistant Pathologist, Barnes Hospital; Intern in Pathology, St.  
Louis Children's Hospital.  
A.B., Washington University, 1937; M.D., 1941.

CARL GOETSCHE  . . . . . . Assistant in Obstetrics and Gynecology  
Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hos- 
pitals.  
B.S., University of Chicago, 1933; M.D., University of Rochester, 1937.

IRVING J. GOODOF  . . . . . . Assistant in Pathology  
Assistant Resident Pathologist, Barnes Hospital; Voluntary Assistant Path- 
ologist, St. Louis Children's Hospital.  
A.B., Harvard University, 1936; M.D., Boston University, 1940.

GLEN HENRY HARRISON  . . . . . . Assistant in Ophthalmology  
Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.  
Ph. B., Carroll College, 1932; M.D., Marquette University, 1939.

WILLIAM KENNEY  . . . . . . Assistant in Pathology  
Voluntary Assistant Pathologist, Barnes Hospital.  
A.B., Harvard University, 1937; M.D., Yale University, 1941.

EDGAR HAYDEN KEYS, JR.  . . . . . . Assistant in Obstetrics and Gynecology  
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Matern- 
ity Hospitals.  
A.B., Harvard University, 1935; M.D., Washington University, 1939.

EDWARD HARRY LYMAN  . . . . . . Assistant in Clinical Otolaryngology  
Assistant Otolaryngologist, Barnes and St. Louis Children's Hospitals; Assis- 
tant Otolaryngologist to Outpatients, University Clinics.  
B.S., Washington University, 1937; M.D., 1937.

SAMUEL PRESTON MARTIN*  . . . . . . Assistant in Pathology  
Voluntary Assistant Pathologist, Barnes Hospital.  
M.D., Washington University, 1941.

JOHN EDWARD MIRSKIEK  . . . . . . Assistant in Clinical Psychiatry  
A.B., Washington University, 1933; B.S., 1937; M.D., 1937.

LLOYD CHAUNCEY MILLER  . . . . . . Assistant in Clinical Medicine  
M.D., Washington University, 1925.

CHARLES WILLIAM MILLS, JR.*  . . . . . . Assistant in Obstetrics and Gynecology  
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Matern- 
ity Hospitals.  
M.D., University of Pennsylvania, 1938.

JOHN JAMES MODLIN  . . . . . . Assistant in Surgery  
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.  
B.S., University of Nebraska, 1934; M.D., 1938.

RALPH POLLOCK, JR.  . . . . . . Assistant in Medicine  
Assistant Resident Physician, Barnes Hospital.  
A.B., University of California at Los Angeles, 1936; M.D., Stanford University,  
1940.

1 July 1 to December 31, 1941.  
2 Resigned August 31, 1941 for military service.
JOHN ROSS  Assistant in Medicine
Assistant Resident Physician, Barnes Hospital.
B.S., Georgetown University, 1936; M.D., Johns Hopkins University, 1940.

GEORGE E. ROULHAC1  Assistant in Surgery
Assistant Resident Surgeon, Barnes and St. Louis Children's Hospitals.
M.D., Vanderbilt University, 1939.

ALFRED SEYMOUR SCHWARTZ  Assistant in Clinical Pediatrics
Assistant Pediatrician, St. Louis Children's Hospital.
M.D., Johns Hopkins University, 1936.

RICHARD GORDON SCOBEE  Assistant in Ophthalmology
Assistant Resident Ophthalmologist, Barnes and St. Louis Children's Hospitals.
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.

WILLIAM CHARLES STAHL  Assistant in Pathology
Voluntary Assistant in Pathology, Barnes Hospital.
B.S., Virginia Polytechnic Institute, 1931; M.S., Ohio State University, 1932; M.D., Washington University, 1941.

LEO J. WADD  Assistant in Medicine
Resident Physician, Barnes Hospital.
A.B., Washington University, 1933; M.D., 1938.

SYDNEY THURMAN WRIGHT  Assistant in Medicine
Assistant Resident Physician, Barnes Hospital.
A.B., Fresno State College, 1935; B.S., Washington University, 1940; M.D., 1946.

RALPH BENSON WOOLF  Assistant in Obstetrics and Gynecology
Assistant Resident Obstetrician and Gynecologist, Barnes and St. Louis Maternity Hospitals.
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.

HUGH WILLIAM GAROL  Assistant in Neurology
M.D., McGill University, 1938.

FRANCIS EDMUND HUNTER  Assistant in Pharmacology
B.S., Mount Union College, 1935; Ph.D., University of Rochester, 1941.

MELVIN B. KIRSTEN  Assistant in Clinical Medicine
Physician to Outpatients, University Clinics; Visiting Physician, Homer G. Phillips Hospital.
B.S., Indiana University, 1930; M.D., 1933.

THOMAS WILSON WESSON  Assistant in Ophthalmology
Assistant Ophthalmologist, Barnes Hospital.
M.D., Duke University, 1935.

MARIANNE KUTTNER  Assistant in Clinical Pediatrics
Assistant Physician to Outpatients (Pediatrics), University Clinics.
M.D., Johann Wolfgang Goethe University (Frankfurt on Main), 1931.

EDITH C. ROBINSON  Assistant in Clinical Pediatrics
Assistant Physician to Outpatients (Pediatrics), University Clinics.
M.D., Johns Hopkins University, 1932.

MARGARET KELLER2  Assistant in Clinical Surgery
Visiting Surgeon, St. Louis City Hospital.
M.D., Washington University, 1936.

SHIH-DOH WU3  Visiting Assistant in Pathology
M.D., Peiping Union Medical College, 1934.

MICHAEL MEYER KARL  Assistant in Medicine
M.D., University of Louisville, 1938.

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1 Resigned July 31, 1941 for military service.
2 Effective September 1, 1941.
3 September 15, 1941 to February 1, 1942.
FELLOWS AND RESEARCH ASSISTANTS

SAMUEL J. HAYWARD Research Assistant in Obstetrics and Gynecology
M.D., University of Vienna, 1936.

LEOPOLD HOFSTATTER Research Fellow in Neuropsychiatry
B.S., Washington University, 1936; M.S., 1939.

SIDNEY COLOWICK Research Assistant in Pharmacology
B.S., Washington University, 1936; M.S., 1939.

ALFRED D. BUCHMUELLER Research Fellow in Social Service in Neuropsychiatry
A.B., Elmhurst College, 1931.

THOMAS HANNAHAN BURFORD Fellow in Chest Surgery
A.B., University of Missouri, 1931; B.S., 1936; M.D., Yale University, 1936.

HELEN E. GARDNER Research Fellow in Applied Chemistry in Pediatrics
A.B., Grinnell College, 1936.

EDMUND ANTON SMOLIK Fellow in Neurological Surgery
A.B., John Carroll University, 1932; M.D., Western Reserve University, 1936; M.S., University of Louisville, 1940.

ROBERT EUGENE STOWELL Research Fellow in Cytology
A.B., Stanford University, 1936.

ELLENMAE VIERGIVER Research Assistant in Obstetrics and Gynecology
A.B., University of Rochester, 1936.

HERMAN THEODOR BLUMENTHAL Research Assistant in Pathology
A.B., Rutgers University, 1934; M.S., University of Pennsylvania, 1936; Ph.D., Washington University, 1938.

JACQUES BRINEAU Research Fellow in Surgery
A.B., University of Montreal, 1932; M.D., 1938.

HERMON AGUILAR Fellow and Research Assistant in Surgery
Voluntary Assistant (Thoracic Surgery), Barnes Hospital
M.D., University of Buenos Aires, 1929.

ELLA PFEIFFENBERGER Research Fellow in Applied Chemistry in Pediatrics
A.B., Wellesley College, 1936; M.S., Washington University, 1940.

D. FRITZ LIEBEN Research Fellow in Applied Biological Chemistry in Surgery
Ph.D., University of Vienna, 1914.

ROBERT G. LOEFFEL Research Assistant in Pharmacology
B.S.M.E., Washington University, 1929.

SAUL ALLEN MACKLER Fellow in Chest Surgery
B.S., Columbia University, 1933; M.D., University of Chicago, 1937.

FLORENCE MARY HEYS Research Assistant in Pediatrics
A.B., Washington University, 1924; M.S., 1926; Ph.D., 1930.

PAUL E. NIELSON Research Assistant in Anatomy
A.B., University of Utah, 1936; A.M., 1938; Ph.D., University of Wisconsin, 1941.

LAWRENCE MILTON SHEPTS Fellow in Chest Surgery
A.B., University of Oklahoma, 1930; M.D., Rush Medical College, 1934.

ALBERT INGRAM LANSING Research Fellow in Anatomy
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.

MARIO BESSO PIANETTO Pan-American Union Visiting Fellow in Chest Surgery
M.D., Litoral University (Argentina), 1937.

LOUISE Q. JACOBY Secretary to the Dean
A.B., Washington University, 1927.

1 Effective September 16, 1941. 2 Effective September 18, 1941.
THE SCHOOL OF MEDICINE

OFFICERS AND COMMITTEES OF THE FACULTY
OF THE SCHOOL OF MEDICINE

EXECUTIVE FACULTY

GEORGE REEVES THROOP, Bridge Chancellor

PHILIP A. SHAFFER, Dean

EXECUTIVE FACULTY

GEORGE BEEVES THROOP, Bridge Chancellor

PHILIP A. SHAFFER, Dean

JOSEPH ERLANGER
 EVARTS A. GRAHAM
 SHERWOOD MOORE
 EDMUND V. COWDRY
 JACQUES J. BRONFENBRENNER
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 LAWRENCE T. POST

JOHN V. LAWRENCE
 ALEXIS F. HARTMANN
 DAVID MCK. RIOCH
 ROBERT A. MOORE
 WILLARD M. ALLEN
 THEODORE E. WALSH
 HARRY L. ALEXANDER

GENERAL FACULTY

The General Faculty is composed of all the officers of administration
and instruction above and including the rank of Assistant Professor.

HUGH MCCULLOCH, Secretary of General Faculty

STANDING COMMITTEES

MEDICAL EDUCATION

Dr. Erlanger (Chairman), Drs. Alexander, Cowdry, R. Moore, Sachs,
Mr. Parker.

LIBRARY

Dr. Cori (Chairman), Drs. Allen, Elman, C. Moore, R. Moore.

JOINT MEDICAL BOARD

Dr. Bradley (Chairman), Drs. Alexander, W. Allen, Graham, Hart-
mann, Lawrence, R. Moore, S. Moore, Post, Rioc, Walsh, Miss Claiborne,
Mrs. Keith, Miss Knapp.

THE EDWARD MALLINCKRODT INSTITUTE OF RADIOLOGY

Dr. S. Moore (Chairman), Drs. Erlanger, Graham, Hughes.

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

Dr. Shaffer (Chairman), Drs. Graham, Lawrence, Post, Walsh.

ADMISSIONS AND SCHOLARSHIPS

Dr. Shaffer (Chairman), Drs. Jacobsen, Walton, Mr. Parker.

PROMOTIONS

Dr. R. Moore (Chairman), Drs. Cowdry, Hartmann, Rioc, Walton,
Mr. Parker (Secretary).

DEPARTMENT OF SOCIAL SERVICE

Dr. Alexander (Chairman), Drs. Allen, Bradley, Cooke, Copher, Law-
rence, MacBryde, Mrs. Holland, Miss Taylor, Mrs. Rice, Mr. Van Schoiack,
Mrs. Keith, Miss Claiborne.

1 The Dean is ex officio a member of all standing committees.
2 The Joint Medical Board represents a fusion of and replaces the
separate Faculty Committees on the Barnes Hospital, the Children's Hos-
pital, the Maternity Hospital and the Clinics.
ST. LOUIS CITY HOSPITALS
Dr. Hartmann (Chairman), Drs. Alexander, Allen, Graham, Post, Roich, Walsh.

GRADUATE INSTRUCTION
Dr. Graham (Chairman), Drs. Allen, Hartmann, S. Moore, Post, Walsh, Womack.

STUDENT HEALTH
Dr. Lawrence (Chairman), Drs. Bronfenbrenner, Ewerhardt, Jean, Walton, Warson, Dean Lischer (School of Dentistry).

BUSINESS OFFICERS OF THE UNIVERSITY

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Comptroller and Business Manager
FRANCES AGNES CLESSE, B.C.S.
Bursar
FRANZ ALFRED BERGER, B.S., M.E.
Supervising Engineer
JOHN HENRY ERNEST, M.S.B.A.
Resident Auditor
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Assistant Bursar
ANNA R. FOOTE
Cashier
DONALD MORRISON
Superintendent, Buildings and Grounds
FREDERICK GRANT ST. CLAIR, M.S.
Power Plant Engineer
JAMES JOHNSTONE RITTERSKAMP, JR., B.S.B.A., LL.B.
Purchasing Agent and Manager, The University Stores
ROBERT J. EMONTS, B.S.B.A.
University Accountant

OTHER OFFICERS OF THE UNIVERSITY

OSCAR CARL ORMAN, B.A. in L.S., LL.B.
Librarian
ELLA B. LAWRENCE
Librarian (School of Medicine)
MAUDE MCFARLAND HENNESSEY
Assistant Librarian (School of Medicine)
HELEN KAISER
Assistant Registrar (School of Medicine)
FRANK HENRY EWHRARDT, M.D.
Director of Physical Education and University Health Service
PHILO STEVENSON, A.B.
School Visitor
STANLEY F. HAMPTON, A.B., M.D.
Campus Physician
ROBERT W. KELLEY, A.B., M.D.
Campus Physician
J. TED JEAN, M.D.
Physician to Medical and Dental Students
E. KENDALL HARRISON, A.B.
Alumni Representative, Head, Appointments and Employment Bureau,
Director, News Bureau

1 On leave of absence.
THE SCHOOL OF MEDICINE

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

The operation of the McMillan Hospital (for Eye, Ear, Nose and Throat) is now limited to its outpatient departments, which function as divisions of the University Clinics. The hospital services in Ophthalmology and Otolaryngology are located in the Barnes and St. Louis Children's Hospitals.

The Oscar Johnson Institute constitutes the research and teaching laboratories of the Departments of Ophthalmology and Otolaryngology. It houses at present also research laboratories used by the departments of Research Pathology, Internal Medicine, Biophysics and Neuropsychiatry.

SOCIAL SERVICE DEPARTMENT OF WASHINGTON UNIVERSITY CLINICS AND ALLIED HOSPITALS

MISS MARY K. TAYLOR Director
MISS ISABEL BERING Administrative Assistant
MISS MURIEL GAYFORD Educational Assistant

OFFICERS OF THE BOARD OF MANAGERS

MRS. ROBERT A. HOLLAND, JR. President
MRS. STANLEY STONER First Vice-President
MRS. EDWARD MALLINCKRODT Second Vice-President
MRS. J. LIONBERGER DAVIS Treasurer
MISS CARLOTA GLASGOW Assistant Treasurer
MRS. STONER CARLING Secretary
MRS. SAMUEL C. MCCLUNEY Assistant Secretary

THE AFFILIATED HOSPITALS

THE BARNES HOSPITAL

ADMINISTRATION

FRANK R. BRADLEY, M.D. Superintendent
E. B. QUARLES, M.D. Assistant Superintendent
CORNELIA S. KNOWLES, R.N. Chief Admitting Officer
HARRY C. DUNHAM Business Manager

Appointment to the staff of the Hospital is indicated under the individual’s name in the staff list of the School.

ST. LOUIS CHILDREN’S HOSPITAL

ADMINISTRATION

ESTELLE D. CLAIBORNE, R.N. Superintendent
LILLY D. HOOKESTR, R.N. Assistant Superintendent
MARY M. REYNOLDS, R.N. Assistant Superintendent
MARJORIE M. MOORE, R.N. Superintendent of Nurses
JUNE McILVIN, R.N. Admitting Officer
RUTH COLLMEYER, R.N. Admitting Officer

Appointment to the staff of the Hospital is indicated under the individual’s name in the staff list of the School.
ST. LOUIS MATERNITY HOSPITAL

MARY J. KEITH . . . . . . . . Superintendant

Appointment to the staff of the Hospital is indicated under the individual’s name in the staff list of the School.

UNIVERSITY CLINICS

Outpatient Departments of the Barnes, the St. Louis Children’s, the St. Louis Maternity and the McMillan Hospitals

BOARD OF MANAGERS

Mr. Walter V. Scholz . . . . . . . . President
Mrs. Eugene McCarthy . . . . . . . . Vice-President
Dr. John V. Lawrence . . . . . . . . Secretary
Mr. Donald G. Gibbins . . . . . . . . Treasurer
Mrs. Horton Watkins
Mr. John Haskell
Mr. William H. Danforth
Miss Mildred McCluney

John V. Lawrence . . . . . . . . . . . . . . . . Director of Clinics
Edna Miller Gibson . . . . . . . . . . . . . . . . Supervisor of Nursing
Flora Robinson Wells . . . . . . . . . . . . . . . Record Librarian
J. S. Crawford . . . . . . . . . . . . . . . . . . . . Optician

The University Clinics is conducted by the medical school under the supervision of a separate Board of Managers. Formerly called the Dispensary, the present name was adopted in 1932 when the outpatient service was reorganized to serve more efficiently as a means of teaching private and group medical practice. It represents as well a medical service to the community, and affords examples to medical students of their social and community obligations. The number of patient visits to all clinic subdivisions during the past year was 133,055.

Appointment to the staff of the Clinics is indicated under the individual’s name in the staff list of the School.

THE ST. LOUIS CITY HOSPITALS

The University nominates to the Hospital Commissioner Visiting Physicians and Surgeons to the City Hospital, the Homer G. Phillips Hospital and the Malcolm A. Bliss Psychiatric Institute. Those holding appointments in the University Staffs of these hospitals are designated in the staff list of the School.
HISTORICAL STATEMENT
THE SCHOOL OF MEDICINE

The first medical schools established west of the Mississippi River were organized as departments of the Roman Catholic St. Louis University and of the Protestant Episcopal Kemper College, in which departments courses of instruction were first offered in 1842 and 1840, respectively. From these origins there arose two independent schools, the St. Louis Medical College popularly known as "Pope's College," and the Missouri Medical College or "McDowell's College," the union of which formed the Medical Department of Washington University. Accounts of the history of these medical schools are to be found in the Centennial Volume of the St. Louis Medical Society and in the Medical Alumni Quarterly of Washington University.

The discontinuance of Kemper College in 1845 led the founder of its medical department, Dr. Joseph Nash McDowell, to establish his faculty by legislative act as a part of the State University of Missouri. In 1855 this relationship was terminated by incorporation of the Missouri Medical College as an independent institution. After interruption by the Civil War it was resumed and in 1866 was again affiliated for a brief period with the State University. In 1899 it became united with the St. Louis Medical College which eight years earlier had become the Medical Department of Washington University.

In 1855 the medical faculty of St. Louis University withdrew from that affiliation and under the leadership of Dr. Charles Alexander Pope incorporated the St. Louis Medical College, which maintained independent status until 1891, when it became the Medical Department of Washington University, retaining its own name however until the union with the Missouri Medical College in 1899.

The Medical Fund Society, an association of members of the St. Louis Medical faculty, had an important part in securing financial support for the erection of buildings and for operation of that school during the period preceding its affiliation with the University and until the reorganization in 1910. The Medical School building at 1806 Locust Street, which housed

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1 A brief historical statement of other departments of the University appears in the bulletin of the College of Liberal Arts.
the laboratories of all departments and the outpatient dispensary until the School moved to its present site on Kingshighway, was erected in 1891 for the St. Louis Medical College by the Medical Fund Society.

With the union of the two medical schools in 1899 under University auspices, the faculty was enlarged, clinical facilities were increased, additional space and equipment were obtained, the curriculum was strengthened and greater opportunity for investigation was provided. The Missouri Medical College building on Jefferson Avenue was remodeled and converted into the Washington University Hospital. About this time (1905) the Maternity Department was opened and the Training School for Nurses was begun. The Polyclinic Hospital, with an addition, became the Washington University Dispensary. The Martha Parsons Children's Hospital was affiliated in 1906.

In 1910 the Corporation of the University, with the cooperation of the Medical Faculty, reorganized the School in all departments and appointed new heads of departments and their assistants in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research. Associated with this staff clinical instructors were chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis. The inspiration for this movement came from Robert Somers Brookings, then President of the Corporation, who contributed his fortune toward the realization of his plans. For four years the reorganized school continued to occupy the laboratory and clinic building erected by the Medical Fund Society on Locust Street, and as the University Hospital the building on Jefferson Avenue formerly used by the Missouri Medical College.

In 1914 the Medical School moved to new buildings facing Forest Park on the corner of Kingshighway Boulevard and Euclid Avenue, to form part of a new medical center which comprised also the Robert A. Barnes Hospital, the St. Louis Children's Hospital and the Out-Patient Dispensary (later called the University Clinics).

The next institution to join the group was the St. Louis Maternity Hospital which moved into the present building in 1927. In 1931 the McMillan Eye, Ear, Nose and Throat Hospital, provided by the bequest of Mrs. Eliza McMillan and the
Oscar Johnson Institute, the gift of several donors, were erected by the University. The Edward Mallinckrodt Radiological Institute, the gift of Mr. Mallinckrodt and his son, was erected in 1931 and has since provided the X-ray services for the whole group.

Prior to the reorganization of the Medical Department the requirement for admission had been a four year high school course. In 1910 the requirements were raised to one year of collegiate study of specific subjects. In 1912 two college years, and in 1925 three years, were required. Four years of collegiate work leading to the bachelor's degree became, in effect, the requirement for admission in 1931.

It is now the opinion of the faculty that greater emphasis is needed on the quality rather than the quantity of college preparation, and that the stated requirements for admission should allow much freedom for the selection of courses and programs of study best suited to the aptitudes and interests of the individual student. In keeping with this policy, it has been decided to abolish the requirement of the bachelor's degree for admission and to refrain from defining in credit units the required preparation in science subjects. As stated elsewhere (p. 45), greater weight will be given to personal qualifications and to the quality of individual accomplishment.

LABORATORIES AND CLASS ROOMS

The laboratories and lecture rooms of departments representing the medical sciences are housed in three medical school buildings, commonly referred to as the North, South and Clinic-Pathology Buildings. The North Building contains the Medical Library, the Administrative Offices, the main Auditorium, the laboratories of experimental Surgery and the departments of Anatomy and Histology.

The South Building houses the laboratories of Physiology, Pharmacology and Biological Chemistry. The Clinic-Pathology Building contains the University Clinics, teaching and research laboratories of the department of Internal Medicine and the departments of Bacteriology and of Pathology. The autopsy rooms, mortuary and amphitheater, serving the group of hospitals, occupy an annex to this building.

The Oscar Johnson Institute comprises six floors of laboratories and class rooms devoted primarily to teaching and research in Ophthalmology and Otolaryngology. The Institute houses also research laboratories now used temporarily by the
departments of Research Pathology, Internal Medicine, Biophysics and Neuropsychiatry.

CLINICAL FACILITIES

The affiliation of the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital, the McMillan Eye, Ear, Nose and Throat Hospital and the Oscar Johnson Institute, with the School of Medicine, and their location together on one plot of ground makes this group of institutions for teaching purposes integral parts of the School of Medicine.

By the terms of the affiliation the Faculty of the School constitutes the professional staffs of these hospitals as well as of the University Clinics, an arrangement that makes for continuity of medical care and instruction in all divisions. The Clinics serve as outpatient departments of the hospitals, and furnish instruction in the care of ambulatory patients.

About 133,000 visits are made yearly to the University Clinics in all departments. The Barnes Hospital has 425 beds, of which about 200 are in wards used for undergraduate teaching, allocated mainly to the departments of Medicine and Surgery. The St. Louis Children's Hospital has 208 beds and the St. Louis Maternity Hospital 100 beds plus 100 bassinets. Patients on the ophthalmological and otolaryngological services are assigned to the various hospitals.

In addition to the laboratories located in the hospitals for the performance of the simpler diagnostic tests by house officers and students, there are various special laboratories in the Medical School buildings for the more elaborate procedures used in diagnosis. The conduct of these laboratories, as well as the care of patients in the Affiliated Hospitals and in the University Clinics is directed by the several clinical departments.

In all departments of the School there are also special laboratories with facilities for study and research which are made use of in connection with clinical work in the hospitals.

The Mallinckrodt Radiological Institute, built adjacent to and connected on each floor with the Barnes Hospital, is owned by the University and is operated as a department of the Medical School. It provides excellent facilities for X-ray examination and therapy which are utilized by all of the affiliated Hospitals and affords exceptional opportunities for both undergraduate and graduate teaching. By a special endow-
The staff of the Radiological Institute is enabled to carry on researches in both clinical and experimental subjects, independently and in collaboration with other departments. The staff includes residencies for the training of graduate physician radiologists.

The patients in certain of the St. Louis City Hospitals are also utilized for both undergraduate and graduate teaching. By arrangement with the Hospital Commissioner, the Medical School nominates the staffs for a unit (one-third) of the City Hospital, a unit (one-half) of the Bliss Psychiatric Institute, and the senior staff (1941-43) of the Homer Phillips Hospital. The facilities of these large and varied hospital services are being increasingly used for teaching and research by organized staffs from all clinical departments of the School. The Isolation Hospital (for contagious diseases) and the City Sanitarium (for mental diseases) are also used for study and teaching in these subjects.

Through arrangement with its staff, students observe patients in the St. Louis Shriners' Hospital for Crippled Children, which adjoins the Medical School.

The number of patients available in these hospitals provides abundant and varied clinical material under favorable conditions for demonstration, examination and study by the students under immediate supervision of the staff.

**LIBRARY**

The Library contains (October 1, 1941) 57,464 bound volumes and receives 514 medical periodicals, selected with reference to the needs of students and investigators. There are 755 complete sets of periodicals.

The Library has acquired by gift and by purchase a number of private collections on medical history and on the various branches of clinical medicine. Among these is the collection of manuscripts, letters and other valuable material of the pioneer American physiologist, William Beaumont. A special room, the Beaumont Room, has been set aside for the exhibition of this priceless collection of documents.

The Library is open weeks days from 8:00 a.m. to 10:00 p.m. During the summer vacation the hours are 9:00 a.m. to 5:00 p.m.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, include the library of Washington University, the Mercantile Library, the
St. Louis Public Library, the library of the St. Louis Medical Society and the library of the Missouri Botanical Garden.

LECTURESHPES

The Mu Chapter of the Phi Beta Pi fraternity has established an annual lectureship in honor of Dr. Leo Loeb, Professor Emeritus of Pathology.

The Alumni of the School have established a Robert J. Terry Lectureship Fund “for the purpose of fostering greater appreciation of the study of human anatomy in relation to the teaching and practice of medicine.”
REQUIREMENTS FOR ADMISSION

The first year class is now limited to eighty-two students. From a much larger number of applicants the Faculty Committee on Admissions tries to select those who appear to be best fitted to take up the study of medicine. The selection is based mainly on two considerations: the personal qualities of the applicant and his, or her, scholastic attainments. In judging a candidate's qualifications, the committee is disposed to give great weight to evidence of personal fitness, ability, and interest; and to be rather less concerned as to the number of credits in required courses than with the quality of the work and with the student's interests as indicated by the courses he has chosen.

The personal qualities regarded as essential are, besides intellectual ability, an awakened interest, initiative and industry, health and character,—without which the accumulation of scholastic credits will not qualify a student for medicine. Evidence regarding personal qualities is secured from the opinions of college teachers and others well acquainted with the applicant, from interest and aptitude tests and from personal interviews.

Medicine is concerned with such a variety of community, social and individual problems as to demand of all entering this profession a cultural as well as a technical education. The college should lay foundations for both. The foundation for the technical part of education for medicine consists primarily of acquaintance with the elementary facts and principles of chemistry, physics and biology. A thorough drill in the principles of science is necessary for a comprehension of the expanding knowledge of the medical sciences upon which the advances of modern medicine are based, and also is the effective way to cultivate the type of mental discipline that is essential in the study and practice of medicine.

Courses in the basic sciences, if confined to the minimum, will occupy about one-fourth of a full four year college schedule. This much of the pre-professional preparation must have a measure of uniformity of content, designed for use in the medical sciences. But the rest of the college work should be chosen with the object of developing the intellectual talents of the individual, rather than as required pre-professional preparation. Only to the extent that he acquires primary interests in a particular field of science, should a student concent-
trate his studies in that direction. In any case, the college work should include courses in language and literature, history, and the social sciences, or other subjects which may afford the foundation for cultural development. Unless that foundation is laid early, there is the danger that later demands of technical and professional training may lead to its neglect.

Another guiding principle should be the recognition that the interest and earnestness with which any study is done measures its lasting value. The spirit of a course is more important than its content, if it stimulates interest, cultivates an inquiring and thoughtful attitude. Development of an inclination to study and the habit of reasoning, whatever the subject matter may be, is more valuable than an obligatory course taken merely to satisfy entrance requirements.

To be eligible for admission to the first year class the following minimum scholastic requirements, interpreted in the spirit of the above statement of principles, must be met:

1. Satisfactory completion of college courses covering the equivalent of not less than three years' work toward the Bachelor's degree in an approved university or college. (About 80 percent of those accepted in recent years were college graduates.)

2. The college work must include:
   a. A knowledge of English such as is required for the Bachelor's degree by approved colleges. The importance of acquiring facility in the accurate and discriminating use of English deserves emphasis.
   b. A knowledge of the principles of inorganic and organic chemistry. (The work in inorganic chemistry must include laboratory work covering the elements of volumetric analysis.)
   c. A knowledge of the principles of physics, afforded by a course including laboratory work of quantitative character.
   d. A knowledge of the principles of general biology afforded by a course or courses with laboratory work.

Applicants are expected to have taken the Medical Aptitude Test of the Association of American Medical Colleges.

The source of much fundamental knowledge of the sciences and of medicine is in languages other than English, especially in German and French. For those who desire to have access to this literature, a reading knowledge of these languages is necessary.
Applications for admission should be filed as early as possible, and in all cases before March 1 of the year during which admission is sought.

Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

If a student does not register on the days designated, his place in the class may be lost unless the Registrar is notified in advance and postponement is allowed.

Application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request his college to send directly to the Registrar complete official transcripts of high school and college credits. To aid in judging the fitness of an applicant, the student's science instructors should be requested by him to send personal letters to the Dean, giving estimates of the student's ability, character and personality.

ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only insofar as there are vacancies in the classes. Applications should be filed early, and under any circumstances before March 1 for admission the following September. Only those students who have unconditional standing in the medical schools from which they seek to be accredited are considered for admission to advanced classes. Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.

Applicants for advanced standing (1) must furnish evidence that the requirements for admission to the first year class have been fulfilled; (2) must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which he seeks admission; (3) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (4) in doubtful
cases may be required to pass an examination in any of the subjects for which credit is sought.

Only rarely are new students accepted for the fourth year class.

In addition to the credentials required for admission, applicants for advanced standing are required to furnish credentials from the medical school in which they have studied, enumerating all medical courses pursued, grades obtained, and stating the dates of their registration as matriculated medical students.

ADMISSION OF GRADUATES IN MEDICINE

Applicants who already hold the M.D. degree are rarely admitted to the School as candidates for that degree, but may be admitted to the School on the following basis. (1) With the consent of heads of the departments concerned graduates may take individual work in one or more departments as special students. (2) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction or material will be determined in each case by the Dean in conference with the head of the department in which the work is done. (3) Special post-graduate courses are offered in several departments concerning which full information will be given upon request. (See p. 89.) (4) Qualified investigators may be accepted as volunteer research assistants upon the written recommendation of the head of the department.

STANDING AND PROMOTION

The following new procedure for action on promotion and graduation has been adopted.

(1) After the completion of a major course each department reports to the dean's office the order-rank of each student in the class for that course, designating in each case "honors," "pass" or "fail." The rank and designation may be based upon attitude and performance as well as upon examination grades.

(2) For each class there is a Promotions Committee which periodically reviews the records of all students in that class and acts in accordance with the following rules.

(a) A student having recorded failures in two major subjects (see list below) will be required to withdraw from the class.
Major Subjects.
First Year: Anatomy, Cytology, Biochemistry, Physiology (1/2).
Second Year: Physiology (1/2), Bacteriology, Pathology, Pharmacology, Medicine, Surgery (1/2).
Third Year: Medicine, Neuropsychiatry, Obstetrics and Gynecology, Surgery, Public Health (1/2).
Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Ophthalmology (1/2), Otolaryngology (1/2).

(b) All students will be promoted to the next class who rank in the upper four-fifths of the class in at least 60% of the scheduled clock hours, provided there are no failures.

(c) All students who rank in the lower one-fifth of the class in more than 40% of the scheduled hours or who are in the lower one-fifth of the class in two major subjects, or who fail one of the third year objective examinations (see below) shall be considered as having a condition for the year’s work.

This condition may be removed by the appropriate committee on promotion upon the basis of: (1) The Student’s record; in evaluating a student’s record, the committee shall consider not only scholarship, but also social, economic and other personal factors. (2) A special comprehensive examination given under the direction of the subcommittee in September. A student who fails this examination shall be required to withdraw from his class.

(d) Students who at the end of any year have recorded only one failure in a major department will be required to remove this failure as directed by the department concerned. When, and if, the failure is removed, the subcommittee will consider the student’s entire record under rules (b) and (c) above. A student who has recorded a second failure in the attempt to remove a first failure will be required to withdraw from his class.

(e) No student shall be promoted to the third year until there is satisfactory credit for all required subjects of the first and second year.

(f) Under exceptional circumstances the promotion committees may suggest to the Dean and to the Committee on Admissions and Scholarships that a student be allowed to repeat certain courses as a special student or to repeat the work of the entire year as a member of the next class.

For the general guidance of the committee on promotion for
the third year, all students are required to take two written comprehensive examinations of the objective type, during the third year. An examination in November will test the student's ability to correlate the preclinical sciences with the clinical sciences. An examination in May will cover the subject matter of the third year. These examinations are held under the direction of the committee on promotion for the third year.

A student who fails either of the above examinations will be considered under rule (c) of section 2 listed above.

The objective examinations do not replace departmental examinations.

A student who, because of poor quality of work or conduct, is judged by the Committee as unqualified to continue the study of medicine, will be required to withdraw from the School.

The registration of a student may be canceled at any time if in the opinion of the faculty his further attendance is deemed undesirable. A pro rata refund of the tuition will be made in such cases.

REQUIREMENTS FOR DEGREES

DOCTOR OF MEDICINE

Candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four annual courses of instruction as matriculated medical students, the last of which has been in this School. They must have passed all required courses, or their equivalent, and have received satisfactory grades in the work of the entire four years. They must have discharged all indebtedness to the School.

At the end of the fourth year students who have fulfilled these requirements will be recommended for the degree of Doctor of Medicine. Candidates must be present when degrees are conferred.

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

Students may become candidates during the medical course for the degree of Bachelor of Science in Medical Science, provided the quality of work done in required courses is satisfactory. Acceptance as candidates for this degree is granted not earlier than after completion of the courses of the first year. Requirements for the degree are the satisfactory conduct of an investigation in one of the medical sciences and the prep-
aration of an acceptable thesis, which must be presented to the head of the department concerned by May 1st of the year the degree is to be awarded. Compliance with the requirements for this degree will not usually be attained before the end of the third or fourth year.

INTERN APPOINTMENTS

An internship in an approved hospital is regarded as necessary in preparation for the practice of medicine. The School does not assume responsibility for securing intern appointments for its graduates; but it does aid both students and hospitals in arranging for satisfactory selections. During the junior and senior years students confer with the Assistant Dean who advises them concerning the character of the services offered by various hospitals and thus aids the student in selecting the hospital of his choice. The Assistant Dean also advises the hospitals concerning the qualifications of students who apply for appointment. Virtually every graduate of the School is placed in a suitable internship.

About half of the members of each class now secure appointments in hospitals of St. Louis, most of them in rotating services.

There are about seventy positions on the house staffs of the hospitals in the Medical Center. This number includes residencies as well as internships, nearly all of which are straight services limited to a single department. Appointments are made on nomination by the heads of the respective departments, and in most cases are available only to those who have completed another internship. A few appointments in medicine, in pathology and in surgery are made to high ranking members of the graduating class.

PRIZES

GEORGE F. GILL PRIZES:
1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has made the highest grade in anatomical work.

2. One prize of fifty dollars is awarded to a member of the graduating class, of high general standing, who has done especially good work in the Department of Pediatrics.

ALPHA OMEGA ALPHA FRATERNITY PRIZE is awarded at the end of the fourth year to the member of that class who has made the highest average for the entire medical course.
The **Alexander Berg Prize** of one hundred dollars is awarded to a student of high general standing who presents the best results in research in bacteriology.

The **Howard A. McCordock Book Prize** is awarded at the end of the second year to a member of that class for general excellence in pathology.

**Fellowships and Scholarships**

The **Jackson Johnson Fund.** Under the will of the late Mr. Jackson Johnson the sum of $250,000 was given to the University, the income to be used "to aid worthy and desirable students in acquiring and completing their medical education." The income of this fund is now being devoted mainly to Honor Scholarships named for the donor.

The purpose of the Jackson Johnson Scholarships is to enable students of exceptional ability and performance, regardless of their financial resources, to enter upon training for careers in medicine and medical sciences. The awards are restricted to those judged to possess definitely superior talents and qualifications, and are made initially only to applicants accepted for the first year class in the School of Medicine. The award may be continued for each of the later years of the course provided the quality of the student's work justifies it.

The amount of the stipend is not fixed, being determined in each case by the need of the individual for financial aid. Award of a Jackson Johnson Scholarship is regarded as a mark of distinction, and carries certain privileges in the School. When made to students not in urgent need of financial aid, the award carries no stipend or only a nominal stipend. For those recipients whose resources are inadequate for tuition and living expenses, the stipends will be set at amounts that will permit maintenance during the academic year without outside employment for support. Holders of these scholarships are not permitted to engage in outside employment, except with the consent of the Dean. The object is to aid in providing favorable circumstances for the development of the student's talents. Employment having educational value in laboratories of the School, with or without compensation, is occasionally available to holders of scholarships as also to other students. During the year 1941-42 there are twenty-seven holders of Jackson Johnson Scholarships in four classes,
the average stipend being $550. The maximum (including stipends of student-assistantships) is $900.

Applications for 1942-43 will close on January 1, 1942. Applications for 1943-44 should be submitted, on blanks provided for the purpose, between October 1, 1942 and January 1, 1943.

Emergency loans in limited amounts are available from the Jackson Johnson Fund for students in the upper three classes of the School, when needed to meet unexpected emergencies during the academic year. The loans are granted by the Chancellor on the recommendation of the Dean.

A FELLOWSHIP IN NEUROLOGICAL SURGERY with a stipend of $1200 per year is awarded on recommendation of the Department of Surgery. Candidates must be graduates in medicine who will have completed an internship.

A MEMORIAL FELLOWSHIP with a stipend of $500 is supported by a gift from an anonymous donor in memory of his brother. It is awarded for one year to a graduate of the School, preferably a woman, for post-graduate study in anaesthesia, radiology, pathology, clinical pathology, immunology, public health or related fields.

The GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of $100.

THE ALUMNI SCHOLARSHIP AWARD of $100 to be applied on the payment of the tuition fee is given for excellence in work during the preceding scholastic year on the recommendation of the Committee on Loans and Scholarships and the President of the Medical Alumni Association.

The DR. JOHN B. SHAPLEIGH SCHOLARSHIP. From a bequest of the late Dr. John B. Shapleigh, supplemented by contributions by the late Mrs. Shapleigh and Miss Margaret Shapleigh, a fund has been established the income of which is used to pay the tuition of students in need of assistance.

The ELIZA MCMILLAN STUDENT AID FUND. From the bequest of the late Mrs. Eliza McMillan, the annual income on $7,000 provides a scholarship for a deserving woman student in the School of Medicine.

The T. GRISWOLD COMSTOCK SCHOLARSHIPS. Through the bequest of the late Mrs. Marilla E. Comstock, the annual income from $12,000 is used for two scholarships for students who otherwise would be unable to obtain a medical education
and who desire and intend to follow the practice of medicine and surgery.

THE JOSEPH H. ROBLEE SCHOLARSHIPS. Provided through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee), the income from the Joseph H. Roblee Scholarship Endowment Fund of $12,000 maintains two scholarships annually. They are awarded by the Chancellor to qualified, worthy and deserving students in any division of the University.

THE ROBERT ALLEN ROBLEE SCHOLARSHIPS. Through the gift of Mrs. Florence A. Roblee (Mrs. Joseph H. Roblee) the income from the Robert Allen Roblee Scholarship Endowment Fund of $15,000 provides one or more scholarships for qualified, worthy, and deserving students.

ANDREW RANKIN FLEMING AND SUSIE FLEMING FUND. Through the bequest of the late Mrs. Susie Fleming, $150.00 from the income of this Fund is available annually for scholarships for worthy and needy students in the School of Medicine.

THE ALINE RIXMAN LOAN FUND. Provided through the gift of Mr. William Rixman the fund is used to alleviate unexpected financial emergencies that arise among medical students during the academic year. The fund is available to any student who in the judgment of the Dean gives promise of becoming a competent physician. It is expected that loans will be repaid within a reasonable time after the student has finished his training. The loans are granted by the Chancellor on the recommendation of the Dean.

THE W. MCKIM MARRIOTT SCHOLARSHIP AWARD, instituted in memory of the late Dr. W. McKim Marriott, Dean and Professor of Pediatrics, by Dr. C. V. Mosby for the C. V. Mosby Co. entitles the holder to an award of $500 which provides tuition for the recipient in the School of Medicine. The scholarship is awarded annually preferably to a deserving young man who shows promise in the field of pediatrics. The award is made by the Chancellor on the recommendation of the Dean and the Professor of Pediatrics.

STUDENT ASSISTANTSHIPS are available in a number of departments in the School. Information concerning these may be obtained from the heads of the departments concerned.

Applications for all fellowships, scholarships and assistantships may be made to the Dean. The awards are made by the Chancellor on the recommendation of the Dean.
REGISTRATION

Registration for the first half year, 1942-43, is scheduled for Monday, September 21, and Tuesday, September 22, 1942; for the second half year, Monday, February 1, 1943. Hours for registration are 9 to 11:30 and 2 to 5 daily.

Previously matriculated students who fail to register on any of the days set aside for that purpose will be charged a fee of $3.00.

FEES AND EXPENSES

The University reserves the right to change the fees herein stated at any time without notice. Whenever a change is made, it will become effective with the next installment due for payment by the student.

All fees and charges are payable in advance at the office of the Treasurer in Robert S. Brookings Hall, or at the office of the Registrar of the School of Medicine. No rebate of the tuition fee will be made for absence, whether such absence occurs at the beginning, middle, or end of the semester, except in cases of prolonged illness, certified to by a physician. In such cases a partial refund may be made, which will not exceed one-half of the unexpired balance of the tuition for the term.

Checks should be made payable to Washington University.

MATRICULATION FEE. A matriculation fee of $5.00 is required of all students upon initial registration.

TUITION FEE. For undergraduate students the tuition fee is $500.00, payable in two equal installments, at the beginning of the first and second semesters.

Students taking less than full work are charged $62.50 for the first one hundred hours or less of work. Students taking more than one hundred hours of work pay $50.00 for each additional hundred hours.

BREAKAGE DEPOSIT. Each student is required to make a deposit annually ($10.00 Juniors and Seniors; $15.00 Freshmen and Sophomores) to cover breakage in the School of Medicine, clinics and hospitals. Any balance of this deposit will be returned at the end of each year. At any time the amount of breakage exceeds the amount of deposit an additional deposit will be called for.

UNIVERSITY HEALTH SERVICE. A fee of $8.00 annually is charged each student for medical health service. This fee covers a complete medical and dental examination of the stu-
dent on admission to the School and the services of a physician available daily for medical consultation throughout the year.

**STUDENT ACTIVITIES.** A fee of $10.20 a year, payable in two installments (one at the beginning of each semester) is charged all undergraduate students in the University for the support of athletics and several other student activities. This fee is under the control of the Board of Student Finances and provides admission to all athletic events and participation in certain other student activities. For students in the Medical School having a Bachelor's degree payment of this fee is optional.

**DIPLOMA FEE.** The diploma fee for the degree of Doctor of Medicine is $5.00 and for the degree of Bachelor of Science in Medical Science is $3.00. These fees are payable before Commencement.

**MICROSCOPES AND DIAGNOSTIC INSTRUMENTS**

Each student entering the Freshman class is required to possess a standard microscope equipped with a substage light. All students are required to provide themselves with stethoscopes, ophthalmoscopes, otoscopes, hemocytometers, percussion hammers, tape measures, flashlights, head mirrors and skin pencils as the need for them arises.

Supplies and books may be purchased at the bookstore located in the Medical School.

**ESTIMATE OF EXPENSES**

An estimate of the average annual expenses of a student in the School of Medicine, excluding the cost of clothes, laundry, microscope, and incidentals, is given below. The amounts will vary considerably, according to the individual.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$500.00</td>
</tr>
<tr>
<td>Breakage Deposit</td>
<td>$10.00 or 15.00</td>
</tr>
<tr>
<td>Matriculation Fee (payable once)</td>
<td>5.00</td>
</tr>
<tr>
<td>Health Service Fee</td>
<td>8.00</td>
</tr>
<tr>
<td>Books and Instruments</td>
<td>$50.00 to 100.00</td>
</tr>
<tr>
<td>Room and Board (from $6.00 to $15.00 a week)</td>
<td>210.00 to 500.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$783.00 to $1,128.00</strong></td>
</tr>
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</table>

**MEN'S DORMITORY OF THE SCHOOL OF MEDICINE**

A dormitory building containing rooms for about fifty students is situated in close proximity to the School. A tennis court is located in the rear of the building. Each occupant
must furnish his own sheets, pillow cases, counterpanes and blankets; otherwise the rooms are furnished.

The rental of a room is $90.00 for the academic year, payable in two installments in advance, at registration for the first and second semesters. Reservations are accepted only for the full academic year. Application for reservation should be made to the Registrar and must be accompanied by a reservation fee of $10.00. This fee will be returned should the room not be assigned. If a room is assigned, the fee will be held by the University as a bond against possible damage to the room or furniture. Subject to such claim it will be refunded at the end of the academic year.

GENERAL PLAN OF INSTRUCTION

Instruction in the School of Medicine is given to candidates for the degree of Doctor of Medicine, to graduate physicians, and to students in the School of Graduate Studies who may or may not be candidates for higher degrees. Courses which are open to students in the University, not candidates for the degree of Doctor of Medicine, are listed in the announcements of the College of Liberal Arts and of the School of Graduate Studies.

The course of study required of candidates for the degree of Doctor of Medicine is designed for students who have already received certain preliminary training. As stated in detail on p. 45, the student on entering the School must have a knowledge of chemistry, physics, biology, and English.

The medical curriculum, covering four years of 33 weeks each can be divided into two distinct periods.

The first period includes the first and second years. During this time the student studies the fundamental sciences of anatomy, biological chemistry, physiology, bacteriology, pathology and pharmacology. For this first period, the interest is concentrated primarily on the scientific basis of medicine, and every effort is made to train the faculty of critical and independent observation. Anatomy and biological chemistry are studied during the first year. In the second half of this year, the study of physiology begins. During the first third of the second year physiology and bacteriology are completed; and during the remainder of the year the courses in pharmacology and pathology are given, and physical diagnosis, medical observation, clinical chemistry and microscopy, and surgical technic are introduced, in preparation for the clinical work of
the second period of training. In preparation for more ade-
quate instruction in Neurophychiatry the study of medical
psychology is begun in the first year and a closer correlation
of neuroanatomy and neurophysiology is made with the cli-
nical problems of psychosomatic medicine.

The second period, extending through the last two years, is
devoted primarily to clinical work. The student receives prac-
tical instruction in the clinics and in the hospital wards of
medicine, surgery, obstetrics and pediatrics and of the medical
and surgical specialties. During his assignment to the wards
of the hospitals the student at first is given practice and in-
struction in history taking, physical examination and elemen-
tary diagnosis and may then spend his entire day in the wards
with duties differing little from those of a junior intern. The
work in the clinics with ambulant patients occupies from six
to eight hours per week for a year or more. Here the students
under supervision act as physicians and as surgical dressers.
During this period courses are given in surgical and gynecolog-
ical pathology. Special emphasis is placed upon diagnosis of
disease and treatment of patients. There are few purely didac-
tic lectures. Instruction is given in clinics and at the bedside.

The scheduled courses, required of all students, occupy from
thirty to forty hours a week during thirty-three weeks in each
school year. As far as possible the schedules are arranged so
as to leave free several half days each week. Those students
who can profitably do so are encouraged to carry during their
free time, and also during the summer, additional work in the
subjects of their greatest interest. During any stage of his
training the student may avail himself of the opportunity to
develop his special interest in any one of the fundamental sci-
ences or clinical subjects for which he has the prerequisites.

Optional courses are offered in all departments and supply
a wide variety of subjects from which to choose. In general
these courses are not assigned places in the schedule, and
rarely is the number of hours specified; it is expected that
such details will be arranged individually through consultation
between the student and the instructor in charge.

With the approval of the head of the department concerned,
a limited number of well qualified students may be allowed to
complete their clinical clerkships during the summer months.
COURSES OF INSTRUCTION

ANATOMY

Professor Cowdry.
Professor Emeritus Terry.
Visiting Professor Baumberger.
Associate Professors Trotter, Scott, O'Leary.
Visiting Associate Professor Ma Wen-chao.
Assistant Professors Charles, Seib.
Research Associates Cramer, Simpson.
Research Associate and Instructor MacCardle.
Instructors Bartlett, Schwartz, Evans, Gardner.
Assistant Lanier.
Research Fellows Stowell, Suntzeff, Lansing.
Research Assistant Nielson.
Student Assistant Smison.

The anatomical sciences are presented in three regular required courses (gross anatomy, histology and neurology). These are supplemented by special lectures and demonstrations by members of other departments. Facilities are provided for special work in embryology, hematology, endocrinology and cytology. The Washington University Anatomical Collection, prepared during many years under the supervision of Dr. Terry, includes 1500 skeletons extensively documented and offers unsurpassed opportunities for research in physical anthropology. Once a week moving picture films loaned to the University by the Wistar Institute and other organizations are presented.

FIRST YEAR

1. GROSS ANATOMY. Each student dissects one-half of the human body and is encouraged to learn as much as possible from the living subject. Extensive use is made of a wide variety of specimens displayed in the Anatomical Museum. X-ray films are regularly examined. There is occasional attendance at autopsies. Dissection 12 hours a week in the first trimester; 9 hours in the second and third. Lectures twice a week throughout the year. 407 hours.

   (Drs. Trotter, Cowdry, Charles, Gardner, Lanier)

2. HISTOLOGY. A laboratory course occupying five mornings a week during the first trimester. Special attention is paid to the study of living tissues and to the correlation of gross and microscopic structure. There are two lectures a week and many informal discussions in the laboratories. 219 hours.

   (Drs. Scott, Cowdry, O'Leary, Evans)

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1 Jan. 1 to Dec. 20, 1941.
2 Feb. 15 to Aug. 1, 1941.
3. NEUROLOGY. A laboratory course in gross and microscopical anatomy of the nervous system occupying six mornings a week during the first half of the second trimester. Three weekly lectures are devoted to subjects not easily presented by work in the laboratory. 100 hours.

(Drs. O’Leary, Scott, Evans, Schwartz)

THIRD YEAR

4. ANATOMICAL DEMONSTRATIONS. This course provides a review of regions and structures at the time when students are entering upon their clinical work. Demonstrations two hours a week during the second trimester. 22 hours.

(Drs. Charles, Bartlett)

ELECTIVE COURSES

5. Topographical Anatomy. Laboratory study of topographical anatomy may be undertaken at any time during the year. Sections, museum preparations, and models are used as material. Hours to be arranged.

6. Dissection. A six-weeks’ course in Anatomy is offered at any time excepting August and September for students and physicians desiring to review the subject. Any of the following parts may be elected for study: head and neck, thorax and upper limb, abdomen and pelvis, lower limb. A fee will be charged for the course.

7. Advanced Work in Gross Anatomy, Histology, Cytology, Embryology, Neurology and Physical Anthropology. A study of the literature on certain selected problems accompanied by individual laboratory work. Hours to be arranged.

8. Research. Properly qualified individuals are encouraged to carry on research in the anatomical sciences. (See Bulletin of The School of Graduate Studies).

BIOLOGICAL CHEMISTRY

PROFESSOR SHAFFER.
ASSISTANT PROFESSORS ETHEL RONZONI BISHOP, URBAN.
INSTRUCTORS FREIBERG, PREISLER.

FIRST YEAR

3. BIOLOGICAL CHEMISTRY. Lectures, recitations, conferences and laboratory work covering those portions of the subject which are of especial importance to the student of medicine. Second semester, lectures and recitations four hours, and laboratory twelve hours a week. Lectures and recitations 81 hours, laboratory 183 hours.

(Drs. Shaffer, Ronzoni Bishop, Urban, Preisler)
4. Advanced Work. Courses of laboratory work and selected reading, under guidance of a member of the staff, will be arranged to suit individual needs.

5. Research. The facilities of the department are available to students qualified to undertake investigation.

6. Journal Club. Conducted jointly by the Departments of Physiology, Pharmacology, and Biological Chemistry. Open to students who have credit in physiology or biological chemistry. Once a week throughout the year.

**PHYSIOLOGY**

**PROFESSOR ERLANGER.**

**VISITING PROFESSOR CARLSON.**

**ASSOCIATE PROFESSORS H. LESTER WHITE, GILSON.**

**ASSISTANT PROFESSORS PEUGNET, EDGAR A. BLAIR.**

**ASSISTANT SCHOEPFLE.**

**FIRST AND SECOND YEARS**

2. Physiology. Lectures covering systematically the field of human physiology with experience in the laboratory, designed primarily to meet the needs of medical students. The laboratory experiments are selected with the double object of supplying a basis for the understanding of the more important physical methods employed in physiology and in clinical medicine and of elucidating certain fundamental physiological principles. As far as practicable the student serves as the subject in these experiments. Open to students who have completed or have begun the study of anatomy and biological chemistry.

(a) Lectures and recitations. Second semester of the first year and first trimester of the second year. 115 hours.

(b) Laboratory. First trimester of the second year. 150 hours. (Drs. Erlanger, White, Gilson, Peugnet, Blair)

**ELECTIVE COURSES**

4. Demonstration Methods. This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in Course 2. It consists mainly of experiments demonstrated in Course 2. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

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1 November 7 to December 6, 1941.

2 On leave of absence for military duty.
5. **Research.** The facilities of the laboratory will be offered to qualified students for the investigation of their own problems or of problems which the department is prepared to suggest.

6. **Journal Club.** The Journal Club, conducted conjointly by the Departments of Biological Chemistry, Pharmacology, and Physiology, discusses papers of physiological interest appearing in the current journals. This course is open to properly prepared students only. Once a week throughout the year.

**BACTERIOLOGY AND IMMUNOLOGY**

*Professor Bronfenbrenner.*
*Assistant Professors Varney, Hershey.*
*Instructors Tsuchiya, Morris, Harford, Sulkin.*
*Assistant Kalmanson.*
*Student Assistant Fargotstein.*

The courses in Bacteriology and Immunology are given during the first and second trimesters of the second year of the medical curriculum, respectively.

Because the bulk of the students entering Medical School have had no elementary training in bacteriology and, as a rule, have no conception of aseptic technique, the first three weeks of the course are given over to a brief consideration of the elements of physiology of bacteria and to instruction in basic methods of pure culture study, utilizing non-pathogenic bacteria for this purpose. Only when their technique is reasonably safe are the students permitted to handle pathogenic bacteria and even then, as a measure of safety, no more than ten students are supervised by each instructor.

Since the time allotted for the teaching of Bacteriology is limited, students are not expected to become proficient in bacteriological or serological techniques. For the few students who may desire to develop technical proficiency, a special course in Diagnostic Technique has been arranged with the cooperation of the Laboratory Staff of the City Health Department.

The research facilities of the Department of Bacteriology are open to those medical students who have had sufficient previous training in bacteriology. Such students may undertake special investigations under the supervision of members of the department.

Through the generosity of the family of Alexander Berg, an annual prize is available in this department to be awarded
in recognition of excellence of such investigations by medical students.

In addition to instruction of medical students, the department offers graduate training to a limited number of students who have previously received their basic training in bacteriology elsewhere.

SECOND YEAR

1. BACTERIOLOGY. Lectures and Laboratory. A brief survey of General Bacteriology with a view of acquainting the students with the role of bacteria in the economy of nature and with methods of pure culture study. Special emphasis is placed on such aspects in the mutual relation between the bacteria and their environment which would bring out those basic characteristics of metabolic requirements and activities of bacteria which on the one hand may serve to identify the individual species and on the other to explain some of the effects of bacterial invasion. After a brief consideration of the mechanisms governing the mutually limiting relation of the resistance of the host and the invasiveness of the parasite, a number of more important communicable diseases, caused by viruses, bacteria, fungi, protozoa and metazoa, are studied individually with respect to epidemiology, means of laboratory diagnosis, specific therapy and prophylaxis, and general measures of control. Fifteen hours a week during the first trimester. 183 hours.

(Drs. Bronfenbrenner, Harford, Hershey, Morris, Sulkin, Tsuchiya, Varney)

2. INFECTION AND IMMUNITY. Consideration of the theories concerning the mechanism of immunologic reactions, both those occurring in vivo as well as those utilized for serologic procedures of diagnosis in vitro. Antigens, specific prophylaxis. Antibodies, their nature, significance in resistance to infection and as indices of past exposure. Serum therapy. Hypersensitiveness. One lecture and three hours of laboratory work each week during the second trimester. 44 hours.

(Drs. Bronfenbrenner, Harford, Hershey, Morris, Sulkin, Tsuchiya, Varney)

ELECTIVE COURSE

3. Research. The facilities of the laboratory are open to those properly qualified for research in Bacteriology and Immunology.

(Dr. Bronfenbrenner and Staff)
PUBLIC HEALTH

PROFESSOR BRONFENBRENNER.
ASSOCIATE PROFESSOR MCGAVRAN.
ASSISTANT PROFESSOR VARNEY.
INSTRUCTOR TSUCHIYA.
LECTURERS BREDECK, WILLETT, PHILLIPS, BOARD, BUXELL.

The course in Public Health is given during the first and second trimesters of the third year of the medical curriculum. The instruction in Public Health is carried on under the auspices of the Department of Bacteriology.

This arrangement has been made possible through the very generous cooperation of the staffs of the City and County Health Departments and of members of the Faculty of Washington University.

The required course in Public Health consists of forty-four lectures. In addition, for those of the students who are interested, an elective course consisting of twenty-two field trips is given during the first and third trimesters of the third year, under the supervision of professional health officers of the City and County. Usually upward of fifty per cent of the class avail themselves of this elective course.

THIRD YEAR

1. PUBLIC HEALTH. Consideration of methods, regulatory and educational procedures leading to prevention of diseases and health hazards and promotion of physical and mental well-being of the community. Heredity and eugenics, prenatal care, infant and child hygiene, school hygiene, mental hygiene, industrial hygiene. Sanitation. Epidemiology and control of communicable and other preventable diseases. Vital statistics. Public Health Administration. Special health problems. 44 lectures.

2. Public Health Field Work. This is corollary to the basic course as given to third year medical students. The course consists of field trips and illustrated lectures covering public health, industrial, administrative, and other establishments whose activities are of interest to physicians and public health workers, and of a health survey. The class meets on Thursday afternoons during the first and third trimesters.

ELECTIVE COURSE

(Dr. Bronfenbrenner, Dr. McGavran and Staff of Extramural Lecturers)

(Dr. McGavran, Dr. Brede, Dr. Varney, Mr. Board, Mr. Buxell)
THE SCHOOL OF MEDICINE 65

PATHOLOGY

EDWARD MALLINCKRODT PROFESSOR ROBERT A. MOORE.
PROFESSOR EMERITUS LOEB.
ASSISTANT PROFESSORS MARGARET G. SMITH, ROBINSON.
INSTRUCTORS WHEELER, HENRY ALLEN, W. O. RUSSELL, HELWIG, EDWARD SMITH, COOPER, HAMPP, BARNFIELD.
LECTURER POTZ.
ASSISTANTS W. G. BROWN, W. MOORE, Erganian, Kenney, Martin.
RESEARCH ASSISTANT MARY LUCY MILLER.
VISITING ASSISTANT WU.

The Department of Pathology occupies the entire third floor of the Clinic Building. The post-mortem rooms and amphitheatre are in a separate unit connecting with the first and second floors of the Clinic Building. There is a well arranged museum on the fourth floor and adequate facilities for experimental studies on the fifth floor.

Members of the department serve as pathologists to the Barnes Hospital, the St. Louis Children’s Hospital, the St. Louis Maternity Hospital, the St. Louis County Hospital and the Barnard Free Skin and Cancer Hospital. Systematic records of over nine thousand cases, including protocols and microscopic slides, are available for study.

Clinico-pathological conferences conducted in collaboration with the departments of Medicine (Thursday at 12 noon), Surgery (Thursday at 4:30 P.M.), and Pediatrics (Thursday at 11 A.M.) are open to interested physicians and students.

Pathology is taught during the second, third, and fourth years. In the second year there is the course in General and Special Pathology, and in the third and fourth years the students attend the Clinical and Pathological Conferences conducted in collaboration with the Clinical Departments. In these Conferences, separate from the ones mentioned in the preceding paragraphs, an attempt is made to cover systematically in a period of two years most of the major diseases. The elective clerkship may be taken during the summer or during the school year. Graduate credit is given for all courses in the Department except number 4, Clinical and Pathological Conference, and number 10, Clerkship in Pathology at Washington University.

Properly qualified medical students will be admitted to any

1 Resigned August 21, 1941.
2 Effective October 1, 1941.
3 On leave of absence from July 15, 1941 to June 30, 1942 for military duty.
4 July 1 to Dec. 31, 1941.
of the courses for credit. Pathology 1 is a prerequisite for all other courses.

SECOND YEAR

1. PATHOLOGY. General and special pathology are covered by lectures, gross and microscopic demonstrations and laboratory work. In general pathology, degenerations, inflammations, infectious diseases and tumors are considered. The diseases of each organ system are studied during the time devoted to special pathology. Small groups are given instruction in post-mortem technique, in gross pathology and in experimental pathology. Twelve hours a week in the second trimester and sixteen hours a week in the third trimester. 308 hours.

(Drs. Moore, M. G. Smith, Helwig, Wheeler, Russell, E. Smith, Allen and Staff)

THIRD AND FOURTH YEARS

4. CLINICAL AND PATHOLOGICAL CONFERENCE. The clinical history and treatment of patients who have died are discussed before the class by the physicians and surgeons of the departments concerned. These conferences afford the students an opportunity to interpret the clinical observations in the light of the post-mortem findings. One and one-half hours a week during the third and fourth years.

(Drs. Moore, Margaret Smith, Helwig, Russell)

ELECTIVE COURSES

5. Major Research. The laboratory offers facilities for research in pathology. Specialists and students with adequate training who desire to extend their knowledge of pathology will be admitted.

(Drs. Moore, Margaret Smith)

6. Journal Club. The current journals concerned with morphological and experimental pathology and oncology are reviewed by the members of the staff. Properly prepared students may attend or participate. Once a week throughout the year.

7. Seminar in Gross Pathology. The autopsies for the affiliated hospitals are performed by the junior members of the staff. On one afternoon a week the entire Department meets, and the cases are evaluated by the senior staff.

(Drs. Moore, Margaret Smith)

8. Seminar in Microscopic Pathology. The microscopic sections from each autopsy are presented by the prosector at a conference held once a week. Pertinent articles from the cur-
rent literature are presented and discussed as they apply to the cases under consideration.

(Drs. Moore, Margaret Smith)

9. Seminar in Theoretical and Experimental Pathology. Topics in General Pathology are selected and assigned to members of the junior staff and to qualified students for review. Once a week. (Dr. Moore)

10. Clerkship in Pathology at Washington University. Not to exceed six students at one time may serve as clerks in the Department of Pathology. The students will assist at autopsies and prepare reports for presentation at a seminar once a week. These students will also attend the regular departmental conferences and journal club. Full time for four, six or eight weeks. All quarters. (Drs. Moore, M. G. Smith, Helwig, Russell, E. Smith and Staff)

11. Minor Research. Those students who during a preceding summer or school year have initiated a research problem in Pathology may continue the work during the elective quarter of the fourth year. Full time for eight weeks. All quarters. (Drs. Moore, Margaret Smith)

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

Professor Carl F. Cori.
Associate Professor Helen Tredway Graham.
Research Associate and Instructor Ochoa.
Research Assistants Loeffel, Colowick.
Student Assistants Sutherland, Shahan.

The course in Pharmacology is designed to acquaint the students with the reactions of the body to drugs in health and disease.

SECOND YEAR

1. Pharmacology. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. Three hours a week during the second trimester and two hours a week during the third trimester. 55 hours.

(b) Laboratory Course. A course arranged to demonstrate the chemical properties and pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental
pharmacology. Eight hours a week during the second trimester. 88 hours.
(a) or (b) may be taken alone by special students. Pre-
requisite, anatomy, biological chemistry and physiology.
(Drs. Cori, Graham)

ELECTIVE COURSES

2. Advanced Work. This is arranged to suit individual
needs. Opportunity is offered for the extensive study of any
special group of drugs desired. In addition students may elect
work in toxicology. Hours and details of the work to be ar-
ranged.

3. Research. The facilities of the laboratory are available
to those who wish to carry on original investigation, on prob-
lems of their own or on those the department is prepared to
suggest.

4. Journal Club. Conducted jointly by the Departments of
Physiology, Biological Chemistry and Pharmacology. A dis-
cussion of papers appearing in the current journals. Open to
students who have credit in physiology or biological chemistry.
Once a week throughout the year.

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE
(The Department of Medicine includes Internal Medicine and Derma-
tology.)

ACTING BUSCH PROFESSOR ALEXANDER.
PROFESSOR EMERITUS ALBERT E. TAUSIG.
ASSOCIATE PROFESSORS ELMER, OLMSTED, LUTEN, LARIMORE.
ASSISTANT PROFESSORS EWERHARDT, BULGER, LAWRENCE, THOMPSON,
KOUNTZ, JENSEN, MACBRYDE, FINDLEY,1 CARL MOORE, KETTELKAMP,
MYERS.

INSTRUCTORS BAUMGARTEN, JEROME E. COOK, SALE, LOUIS H. HEMPEL- 
MANN, FISCHEL, GORHAM, EYERMANN, STRAUSS, GRANT, CADY, ALFRED
GOLDMAN, LIGGETT, DUDEN, BREDECK, DAY, RUSK, STRoud, ATKEN, JEAN,
BROMBERG, GOTTLIEB, BARRETT TAUSIG, KENAMORE, SEIBEL, HAGEMAN,
MASSIE, EDWARDS, KAHN, JOHN R. SMITH, MURPHY, KEITH WILSON,
HOLDEN, SEDDON, KOENIG, ELLIOTT.

ASSISTANTS ABEL, BECKE, GLASSBERG, MEHRten, MILTON SMITH, LEE 
B. HARRISON, CANNADY, SKILLING, CECIL M. CHARLES, MANSBACHER,
BEAM, SCHIEFF, HORNER, BIERBAUM, AGRESS, ARROWSMITH, KELLEY, BEN
CHARLES, DRAKE, BENNETT,2 HARFORD, BLANEY, DOUBLY, MALCOLM COOK,
MINNICH, REINHARD, ROBERTS, WEDIG, STANLEY F. HAMPTON, FLEISH-
MAN, E. WHITE, FREEDMAN, KIRCHER, L. C. MILLER, POLLOCK, ROSS,
WADE, WRIGHT, KIRSTEIN, HENRY ALLEN, KARL.

Instruction in medicine commences with the second tri-
mester of the second year and continues throughout the third

1 Resigned December 31, 1941.
2 Resigned September 30, 1941.
and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and secondly, training in the technical methods of physical diagnosis and clinical microscopy. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. Simultaneously he receives formal instruction in the natural history of disease and in medical therapeutics. In the final year each student acts for one month as clinical clerk in the medical clinics, and for one month in the wards of Barnes Hospital.

SECOND YEAR

1. ELEMENTARY MEDICINE.
   (a) Introductory Clinic. Observation and interpretation of the symptoms and signs of disease, with special reference to pathological anatomy and physiology. Approximately one-sixth of the course is devoted to the discussion of psychobiology. Two hours each week during the second and third trimesters. 44 hours.
      (Drs. MacBryde, Myers, Rioch and Staff)

   (b) Physical Diagnosis. Lectures, demonstrations and practical exercises in the technique of physical diagnosis. Four hours each week during the second trimester. Three hours each week during the third trimester. 77 hours.
      (Drs. Myers, Beam, Cannady, Harrison, Arrowsmith, Freedman, Karl, Drake, Edwards, Reinhard, Skilling and Assistants)

   (c) Clinical Chemistry and Microscopy. Lectures and laboratory course in methods of microscopic and chemical diagnosis. Eight hours each week during the third trimester. 88 hours.
      (Drs. Carl Moore, Allen, Holden, Agress, Miss Bierbaum)

THIRD YEAR

2. (a) SUPERVISED STUDY OF PATIENTS IN WARDS OF HOMER PHILLIPS HOSPITAL. Two to three cases are assigned to a student each week for complete study and a written report. The work is supervised by preceptors, each of whom has responsibility for one-fourth of the group. Twenty hours per week for one trimester. 220 hours.
      (Drs. Gottlieb, Barrett Taussig, Holden, Seddon, John Smith, Reinhard)
(b) MEDICAL CLINICS. Selected cases which have been studied by clinical clerks are presented by students and discussed before the group at Homer G. Phillips Hospital. One hour four days per week for one trimester. 44 hours.

(Drs. Alexander, Myers, Massie, Agress, Bulger, Kirstein, Arrowsmith, Olmsted, Edwards, S. F. Hampton, Bromberg, John Smith, Findley, Hageman, Kenamore, Jensen)

3. MEDICINE. Lectures and demonstrations intended to cover the more immediate important subjects in clinical medicine. Included in this course are lectures and discussions of dietetics and of special problems in therapeutics. Two hours each week during the first and second trimesters. Three hours each week during the third trimester. 77 hours.

(Drs. Alexander, Elliott, Myers, Olmsted, Carl Moore, Hageman, Thompson, Harford, Tsuchiya, Bromberg, Luten, Strauss, Massie, John Smith, Jensen, Kountz, Goldman, Grant, Wilson, Agress, Kenamore, Eyermann, Stroud, Hansel, MacBryde, S. F. Hampton, W. Scott)

4. MEDICAL CLINICS. 33 hours. (See under Fourth Year—Medicine 6).

FOURTH YEAR

5. MEDICINE.
(a) Clinical clerkship in Barnes Hospital. With the exception of the 8:00 o'clock clinics, the entire day is spent in the wards of Barnes Hospital. Both medical and neurological cases are assigned for complete study and report. Ward rounds and frequent informal conferences are held. Special ward rounds are held at Isolation Hospital each week. 152 hours.

(Drs. Alexander, Olmsted, and Staff)

(b) Clinical clerkship in Washington University Clinics. Students act as physicians under the supervision of consultants in the following clinics:

Morning
Medical—Dr. Elliott and Staff
Cardiology—Dr. Strauss and Staff
Chest—Dr. Myers and Staff

Afternoon
Medical—Dr. Edwards and Staff
Gastroenterology—Dr. Kenamore and Staff
Dermatology—Dr. Weiss and Staff
6. **MEDICAL CLINICS.** Cases which have been investigated by students working in the wards are presented before the Third and Fourth Year classes. One hour each week throughout the year. 33 hours.

(Drs. Alexander, Albert Taussig, Carl Moore, Myers, MacBryde, Sale)

7. **THERAPEUTICS.** Conferences are held on selected topics on medical therapeutics. Each subject is presented by two or more instructors. Time is allowed for general discussion. Speakers are chosen from preclinical as well as from clinical departments. One hour each week throughout the year. 33 hours.

(Drs. Alexander, Massie, Elman, Carl Moore, Hageman, Julianelle, J. V. Cooke, Thompson, Harford, Blattner, Bromberg, Goldman, Myers, Luten, John Smith, Wilson, Larimore, MacBryde)

**ELECTIVE COURSES**

8. **Koch Hospital.** Four students—All day for four weeks. Individual training in history, physical examination, and special examinations as they relate to the study of thoracic disease. Assignment of selected cases. Discussion and demonstration of treatment procedures. Attendance at staff conferences and Clinical Pathological conference at Koch Hospital.

(Drs. Kettelkamp, Murphy)

9. **City Hospital No. 1.** Six students—All day for four weeks. An additional clinical clerkship especially valuable because of the incidence of emergency cases and of infectious disease. Assignment of selected cases. Rounds and attendance at Clinical Pathological conference at City Hospital.

(Drs. Findley, Jensen, Edwards)

10. **Metabolism Ward.** Two students—All day for four or eight weeks. Rounds and assignment of selected cases in metabolism ward. Attendance at Diabetic and Endocrine Clinics in Washington University Clinics and at City Hospital. Special training in basal metabolism and in tests applicable to the study of metabolic and endocrine diseases.

(Dr. MacBryde)

11. **Allergy.** Two students—All day for one month. Attendance at Allergy Clinics. Special training in preparation of allergens, skin testing, and other tests relevant to the study of allergic states.

(Drs. Alexander, Eyermann, S. F. Hampton)
12. **Hematology.** Two students—Mornings only for four weeks. Special training in supravital staining and other staining methods, platelet counts, reticulocyte counts, study of coagulation mechanism including prothrombin time, and other tests relative to the study of hematologic conditions.

(Drs. C. Moore, Arrowsmith, Miss Bierbaum)

13. **Wassermann Laboratory.** Two students—Mornings only for four weeks. Experience and training in immunological and bacteriological technic.

(Dr. Hageman, Miss Mehrten, Mrs. Doubly)

14. **Blood Chemistry.** Two students—Mornings only for four weeks. Experience and training in the conduct of special chemical procedures most used in the study of clinical medicine.

(Dr. Bulger)

15. **Gastrointestinal Diseases.** Eleven lectures with x-ray and clinical demonstrations. Time and dates to be arranged.

(Dr. Larimore)

16. **Venereal Clinic.** Five students—Three evenings a week for four or eight weeks.

(Dr. Koenig)

### DERMATOLOGY

**Professor Emeritus Martin F. Engman.**

**Assistant Professor Weiss.**

**Research Associate Mackardle.**

**Instructors A. H. Conrad, Coleman, Lane, Martin F. Engman, Jr.**

**Assistants Eskeles, Bagby, Marcus, A. H. Conrad, Jr.**

**Mycologist Morris Moore.**

### FOURTH YEAR

1. **DERMATOLOGY.** A lecture course on diseases of the skin and on syphilis. This course is a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. 12 hours.

(Dr. Weiss and Staff)

### ELECTIVE COURSES

2. Clinical examination of numerous dermatological cases with opportunity for instruction in their diagnosis, pathology and treatment. Examination of biopsy specimens. Training in the use of various physical agents such as electro-coagulation, X-ray and radium in the treatment of malignant and non-malignant skin affections.

Mondays, Tuesdays, Wednesdays and Fridays—1:30 to 4:30 p. m.—The Barnard Free Skin and Cancer Hospital.

Thursdays—2:00 to 4:00 p. m.—Skin Clinic, Washington University Clinics.

(Dr. Weiss and Staff)
Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. In the first semester a course is given on the structure of the personality, with particular emphasis on the development of attitudes. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy, laying special emphasis upon the integration of organic functions through neural mechanisms and the encephalization and corticalization of personality functions.

In the second year, correlated with medical and surgical instruction in physical examination, elementary instruction is given in the approach to the patient as a person, with a view to understanding his problems in terms of their meaning for him as a person.

Members of the Department of Neuropsychiatry participate in the instruction in Neuropathology in the Department of Pathology during the third trimester.

Clinical clerkships in the University Clinics in the third year bring the individual student directly into relationship with patients showing disorders of personality function, and with the family and community situations of such patients. The student also has the opportunity to work with patients showing more severe personality disorders at the Bliss Institute. Frequent conferences both with staff members and the psychiatric social workers are held for purposes of discussion of procedure and of working formulations.

Instruction in neurology in the third year is given in lectures, demonstrations and clinical clerkships. Emphasis is laid on the diagnosis and treatment of the common neurological syndromes, and on giving the students a basic training in the technique and interpretation of the neurological examination.

In the fourth year weekly clinical demonstrations are held for the whole class at which illustrative cases are presented and diagnosis and therapy are discussed.
FIRST YEAR

1. NEUROPSYCHIATRY.
INTRODUCTION TO MEDICAL PSYCHOLOGY. Lectures, essays and personal discussions concerning the development of human attitudes and emotional reactions affecting the study and practice of medicine. One hour a week for 12 weeks. 12 hours.

INTEGRATIVE NEUROLOGY. A series of lectures, demonstrations and clinics concerning integrated functions of the organisms, given as part of Anatomy 3. The purpose of this series is to correlate laboratory investigations of the nervous system with clinical problems. Approximately 8 hours.
(Drs. Jacobsen, Rioch and Assistants)

SECOND YEAR

2. PSYCHIATRY.
INTRODUCTORY COURSE ON THE PATIENT-PHYSICIAN RELATIONSHIP. (Part of Medicine 1 (a).) Discussions with clinical demonstrations of the relationship between the patient and the physician and the other interpersonal relationships of the patient which have a bearing on his problems. Interview techniques and systematic formulation of the data are considered. 11 hours. (Drs. Rioch, Jacobsen, Warson and Associates)

2. NEUROLOGY.
NEUROLOGICAL EXAMINATION IN PHYSICAL DIAGNOSIS. (Part of Medicine 1 (b).) Lectures, demonstrations and exercises in the neurological examination of the patient. 6 hours.
(Drs. Jones and Rioch in conjunction with Dr. Alexander and Assistants)

THIRD YEAR

3. PSYCHIATRY.
(a) PSYCHOPATHOLOGY; AN INTRODUCTORY COURSE TO SOME OF THE THEORETICAL CONCEPTS OF THE DETERMINANTS OF HUMAN BEHAVIOR. Lectures with illustrative case studies concerning the psychodynamic principles involved in personality disorders and their treatment. In the first trimester emphasis is laid on current theories of the psychodynamics of personality disorders; in the third trimester the application of these principles to the therapy situation is elaborated and illustrated. This course in combination with clinical clerkships is aimed at assisting the orientation of the general medical practitioner to personality problems of patients. One hour a week for the first and third trimesters. 22 hours. (Dr. Warson)
(b) CLINICAL CLERKSHIP. One-ninth of the third year class serve a clinical clerkship of three to four weeks in the University Clinics. The students are assigned patients and participate in the work of the clinics under close personal supervision of the staff members. Interviews with institutionalized patients and conferences on selected cases are provided at the Bliss Institute. 49 hours.

(Drs. Warson, Satterfield, Tureen, Maughs, Fingert, Bell, Miksicek)

3. NEUROLOGY.

(a) CLINICAL NEUROLOGY. Lectures with demonstrations on diseases affecting the nervous system. The semiology of affections of the nervous system is taken up in the first third of the course, after which diseases of the nervous system are considered with emphasis on the biology of the disease and the rationale of therapy. One hour a week, first and second trimesters. 22 hours.

(Drs. Rioch, Jacobsen, Jones, Levy)

(b) CLINICAL CLERKSHIPS. Clinical clerkships on wards of the St. Louis City Hospital. Students participate under supervision in the examination and treatment of patients. Emphasis is laid on the technique and interpretation of history-taking and the neurological physical examination. 30 hours.

(Drs. Levy, Rioch)

FOURTH YEAR

4. PSYCHIATRY.

PSYCHIATRIC CLINIC. An exercise every other week throughout the year, alternating with the Neurological Clinic (Neurology 4 (a)). Illustrative cases at the City Sanitarium, Bliss Institute and the Barnes Hospital wards are presented and discussed. One hour every two weeks throughout the year. 17 hours.

(Drs. Jones, Jacobsen, Schwab, Maughs)

4. NEUROLOGY.

(a) NEUROLOGICAL CLINIC. An exercise every other week throughout the year, alternating with the Psychiatric Clinic (Psychiatry 4). The more important neurological diseases and syndromes are presented and discussed with illustrative cases from the Barnes Hospital and St. Louis City Hospital wards. One hour every two weeks throughout the year. 16 hours.

(Drs. Rioch, Schwab, Jones, Levy)
(b) **WARD ROUNDS.** Twice a week ward rounds are conducted on neuropsychiatric cases in the Barnes Hospital wards with the medical group. One hour a week for one quarter. 8 hours.

(Drs. Schwab, Rioch, Warson)

**ELECTIVE COURSES**

5. *Neurological Clinical Clerkship at the City Hospitals.* Four students mornings or afternoons at City Hospital #1, for four or eight weeks. Students act as externes. Instruction is given in the technique and interpretation of the more specialized procedures of neurological examination and treatment, including air- and electro-encephalography, lumbar puncture, perimetry, etc.

(Drs. Rioch, Jones, Levy, Gitt, Garol)

6. *Psychiatric Clinical Clerkship at the Bliss Institute and City Sanitarium.* Two students, morning or afternoon for four or eight weeks. Types of patients may be selected to meet special interests of individual student.

(Drs. Rioch, Warson, Tureen, Gitt, Miksicek, Busch)

7. *Clinical Clerkship at the University Clinics.* Two students, mornings, for four or eight weeks. The students participate in the work of the neuropsychiatric clinic under the supervision of the staff members.

(Drs. Schwab, Warson, Maughs, Fingert, Tureen)

8. *Research in Neurology, Neuropathology, Psychology and Psychiatry.* Facilities are available for qualified students to undertake original research in the laboratories of the department or in the clinics or wards.

9. *Staff conferences.* Students are invited to attend certain of the psychiatric and neurological staff conferences. These are as follows: a psychiatric staff conference held weekly at the Bliss Institute; neurological staff conferences held weekly, alternating on successive weeks, at the St. Louis City Hospital and the Homer Phillips Hospital; conferences of the neuropsychiatric and neurosurgical staffs held weekly at Barnes Hospital.
THE MARY CULVER DEPARTMENT OF SURGERY

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genitourinary Surgery.)

BIXBY PROFESSOR EVARTS A. GRAHAM.
EMERITUS PROFESSORS VILRAY P. BLAIR, WILLARD BARTLETT.
PROFESSORS SACHS, SELIG, CLOPTON, KEY, DALTON K. ROSE.
ASSOCIATE PROFESSORS COPHER, ELMAN, HEINBECKER, J. BARRETT BROWN, WOMACK, FURLOW.
ASSISTANT PROFESSORS FISHER, STONE, DUFF S. ALLEN, CREGO, THEODORE P. BROOKES, DEAKIN, RAINEY, JOSTES.
INSTRUCTORS SANFORD, WILHELM, HENRY S. BROOKES, JR., PROBSTHEIN, WALTON, BLADES, SCHWARTZ, MCCARROLL, ROBERT BARTLETT, CORDONNIER, BRICKER, JOHN PATTON, KENNETH O. WILSON, HAFFNER, JOHSTAD, HARRISON.
ASSISTANTS KEYES, BYARS, THIEME, HEIDEMAN, LEYDIG, LISCHER, O. P. HAMPTON, ROCHE, WATTENBERG, ALTHAUS, CUTLER, FELLER, KOPF, PRUITT, MCDOWELL, HEIFETZ, MARTIN, COOPER, HALL, LARGE, WILLIAM P. ROSE, BARNEART, BROCK, FISH, GRUENFELD, W. K. WILSON, CLARKE, CRIDER, ECKERT, MODLIN, ROULHAC, VILRAY P. BLAIR, JR., KELLY.
FELLOWS BURFORD, SMOLIK, BRUNEAU, AGUILAR, SHEFTS, MACKLER, PIANETTO.
RESEARCH FELLOW LIEBEN.

The instruction in the Department of Surgery begins with an introduction to surgical principles at the end of the second year. These surgical principles for the most part are derived from fundamental concepts in the preclinical sciences which have been occupying the student since the beginning of his freshman year. Although in this course a few patients are used for the demonstration of lesions which illustrate the principles of surgery, it is really in the junior year that the first actual contact with patients occurs. Each student then is assigned to a clinical clerkship in the hospital wards and in that way is given an opportunity to study the more common and important kinds of surgical diseases. In the junior year five and one-half weeks (one-half trimester) are spent in the clinical clerkship in the Barnes and St. Louis Children's Hospitals which immediately adjoin the Medical School, and the same length of time at City Hospital No. 1 which is about two and one-half miles away. This division of time has been arranged in order that advantage may be taken of the large amount of traumatic material at the City Hospital. The clinical clerks become familiar with other cases than their own through the daily ward conferences. They are offered the opportunity of seeing all operations and they are encouraged to participate as

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1 Deceased July 28, 1941.
2 On leave of absence.
3 Resigned July 31, 1941.
assistants in practically all of the operations performed upon their patients to whom they have acted as clerks. Although each student will have for personal study a few cases representing the various specialties of surgery the principal instruction is concentrated upon general surgery, especially that sort of case which the general practitioner frequently encounters. Special instruction in history writing, in the examination of the patient and in various diagnostic and therapeutic techniques is given to small groups by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes.

During the junior year also a systematic survey of clinical general surgery is given in a conference and recitation course in which the class is divided into two sections in order to provide a more personal contact between the instructor and the students. There is likewise a separate course devoted to a systematic review of fractures and traumatic surgery.

Surgical pathology, formerly given in the junior year, has been changed to a senior year course.

In the senior year the student works in the outpatient department. He also spends a part of his time at the Homer Phillips Hospital. In the ward work during this year particular attention is paid to the study of patients with acute abdominal disease, fractures and other kinds of traumatic surgery. Intensive instruction in malignant disease is given at the tumor clinic which the senior students attend two hours daily for four weeks.

SECOND YEAR

1. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology, chemistry and pathology as applied to surgery. The course includes the demonstration of patients illustrating various points under discussion. Four hours weekly during the third trimester. 44 hours.

(Dr. Heinbecker)

THIRD YEAR

2. SURGICAL RECITATIONS. A weekly discussion during the first and second trimesters on assigned surgical reading. The principles of surgery and many of the more common surgical conditions are considered. Standard textbooks and selected articles from the recent literature are freely consulted. The class is divided into two sections for this course. 22 hours.

(Drs. Elman, Heinbecker)
3. **FRACTURES.** Demonstrations, conferences and lectures on the more common fractures. This systematic presentation of the subject is in addition to the extensive clinical experience in fractures offered in the wards of the City Hospital. One hour weekly during the third trimester. 11 hours.  
(Drs. Key, Copher)

4. **SURGICAL CLINIC.** A weekly clinic throughout three trimesters. See course 7. 33 hours.  
(Dr. Graham)

5. **SURGICAL CONFERENCE.** The utilization of physical examination in the diagnosis and interpretation of some of the more common surgical diseases and their underlying nature, illustrated by patients, are discussed. A weekly exercise during three trimesters. 33 hours.  
(Dr. Sachs)

6. **SURGICAL WARDS.** For one trimester the student serves as an assistant in the surgical wards. Half of the surgical group is at the St. Louis City Hospital for a period of five and one-half weeks while the other half is at the Barnes and St. Louis Children's Hospitals. The groups are then changed so that each student's ward service is for a period of eleven weeks. From 10 to 11 a.m. conferences on selected patients are held. General and special surgical cases are discussed by members of the staff. Following this conference the students spend the remainder of the day in the wards of the hospitals. The students take the case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and do some of the surgical dressings. The students also attend autopsies performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. The student is encouraged to consult the library frequently in the solution of problems concerning his patients. From 3 to 4 p.m. the resident and assistant residents meet the students in an informal conference at which time various questions that have arisen during the day are discussed and various aspects of the care of the patient considered. Particular effort is made to see that the student comes in contact with the more frequent and important surgical lesions and that the cases assigned him are sufficiently diversified to afford him an accurate perspective of surgery. 260 hours.  
(Various members of the staff)
FOURTH YEAR

7. SURGICAL CLINIC. A weekly exercise throughout four quarters. Patients presenting the more usual general surgical conditions are demonstrated and their diagnostic and therapeutic problems are discussed. Students of the third year also attend this clinic. 32 hours. (Dr. Graham)

8. ORTHOPEDICS. Groups of six students are assigned to work in the Orthopedic Outclinic four mornings a week for two weeks. In addition, the entire group of twelve students attends a conference in orthopedic surgery at the Shriners' Hospital for Crippled Children two hours a week for four weeks. 20 hours. (Drs. Key, Crego and Staff)

9. GENITOURINARY OUTCLINIC. Groups of six students attend the Genitourinary Outclinic two hours a day, four days a week, for two weeks. 16 hours. (Dr. Rose and Staff)

10. PROCTOLOGY. Demonstration of various lesions about the rectum and anus are given in the Outpatient Department to groups of six students. 4 hours.

11. NEUROSURGERY OUTCLINIC. Groups of six students attend the Neurosurgical Outclinic where patients with ambulatory neurosurgery conditions are demonstrated. 4 hours. (Dr. Furlow)

12. TUMOR CLINIC. Groups of twelve students attend the Tumor Clinic daily for four weeks from 11 until 1 o'clock. The clinic is so arranged that the students see patients with the more common types of cancer. Methods of diagnosis, the fundamentals underlying treatment and the pathology of the condition are discussed. Particular consideration is given to various types of radiation therapy. 48 hours.

13. WARD WORK. Twelve students are assigned to the Homer Phillips Hospital (the city hospital for negroes) for four weeks. From 9:30 to 10:30 a.m. clinical conferences are held at which time patients are demonstrated to the group by the student to whom the patient was assigned with discussion by the attending surgeon. Students are assigned patients of whom they take histories and make physical examinations as well as the usual laboratory examinations. The students are permitted to assist at some of the operations and do some of the surgical dressings. Particular attention is paid to acute abdominal diseases, traumatic surgery and fractures. 80 hours. (Drs. Elman, Probstein, Robert Bartlett, Gruenfeld)
14. **Surgical Pathology.** Weekly exercises of two hours for three trimesters, at which time the early pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the museum and operating room is studied both in the gross and microscopically. 66 hours.  

(Drs. Womack, Harbison)

**ELECTIVE COURSES**

15. **Neurosurgery.** Eight lectures in the second quarter of the fourth year. The lectures comprise a review of the anatomy and physiology of the nervous system as applied to neurosurgery and a discussion of the principal conditions encountered in this field.  

(Drs. Sachs, Furlow and Staff)

16. **Postoperative Care.** Eight lectures and demonstrations in the fourth quarter of the fourth year. Both the normal and complicated postoperative developments are discussed.  

(Dr. Allen)

17. **Surgical Pathology.** Two students full time for eight weeks, all quarters. The elective will consist of a correlation of the clinical records of hospital patients with the pathological findings. Time will be devoted to current surgical journals as related to surgical pathology as well as a brief review of pathological techniques.  

(Dr. Womack)

18. **Washington University Clinics.** General surgery, eight weeks for four students, mornings or afternoons. The students will serve as clerks to outpatients the time being spent in the study and care of the patients with special attention to minor surgical procedures.

19. **Research in Surgery.** Eight weeks full time. This elective is for those students who have been carrying on surgical research in their spare time the previous year and who wish to devote their entire time toward the completion of their problem.  

(Dr. Graham)

20. **State Cancer Hospital.** Three students to serve as clinical clerks at the State Cancer Hospital, Columbia, Missouri, full time, eight weeks. The duties assigned the student will be the routine duties required of any clinical clerk consisting of both in and outpatient work, particularly related to malignant disease. Application must be made directly to the State Cancer Commission.  

(Dr. Bricker)
21. Anesthesia. One or two students. Eight weeks, full time. Since the surgical operative schedules begin early each morning the hour to report will be 7 o'clock. This will enable the student to inspect and test mechanical equipment prior to its use. The student will be assigned to certain nights on call duty with the supervisor to take emergency cases which arise. The course embraces a special training in the practical administration of anesthetics by approved modern techniques, this instruction taking place daily, except Sundays, during the weekly schedules in which the student participates in the operating room. The theoretical aspects are covered by specific periods of class room instruction followed by examination at stated intervals. The administration of ether, nitrous oxide-oxygen, ethylene, cyclopropane and basal anesthetics is taught and practiced. (Miss Lamb)

22. Urology Clerkship in Barnes Hospital. One student, mornings for eight weeks. (Dr. Rose)

RADIOLOGY

Professor Sherwood Moore.
Consulting Physicist Hughes.
Associate Professor Larimore.
Physicist Thornton.
Assistant Professor Wendell Scott.
Research Associate Kalckar.
Instructors Zink, Arneson.
Assistant Physicist Langsdorf.
Assistants Thomas Russell,1 Lionberger.

Instruction in the applications of radiology in the diagnosis and treatment of disease is given very largely in collaboration with the several clinical departments.

FOURTH YEAR

Tumor Clinic. (See Surgery 12 for description). Two hours a day for four weeks. 48 hours.
Diagnostic Radiology. Eight hours a week for four weeks. 32 hours.

ELECTIVE COURSE

Clerkship in Radiology. Not to exceed two students at one time may act as externes in the Department of Radiology. They will participate in all activities. Full time for four or eight weeks. All quarters.

1 Resigned September 30, 1941.
THE SCHOOL OF MEDICINE

OTOLARYNGOLOGY

PROFESSORS WALSH, PROETZ, HARRY LYMAN.
PROFESSOR EMERITUS DEAN.
ASSOCIATE PROFESSOR HANSEL.
ASSISTANT PROFESSORS ARBUCKLE, ALDEN, KELLEY, HOURN, McMATHON,
COSTEN, WOLFF, CONE, GLICK.
INSTRUCTORS VOTAW, BOEMER, G. HARDY, L. W. DEAN, JR., SMIT,
SENTURIA.
ASSISTANTS HANSON, GAGE, POTTER, SCHERRER, STUTZMAN, WILLIAM
T. K. BRYAN, MOUNTJOY, E. H. LYMAN.

SECOND YEAR

OTOLARYNGOLOGIC AND PHYSICAL DIAGNOSIS. The class is
divided into small groups with individual instructors for a
total of six hours for instruction in the methods of Otolaryn-
gological diagnosis and the use of instruments peculiar to this
field.

(Drs. Walsh, Dean, Jr., Votaw, Hardy, Sm it, Mountjoy)

THIRD YEAR

1. OTOLARYNGOLOGY. Clinical instruction is given to sections
of six for twelve hours a week for two weeks. 24 hours.

(Drs. Walsh, Lyman, Gage, Hardy, Sm it, E. H. Lyman, Boemer)

FOURTH YEAR

ELECTIVE COURSES

3. Clerkship in Otolaryngology. Two students may serve as
externes in the clinics for four or eight weeks. Permission of
the Head of the Department is necessary before registration
for this elective. Full time.

(Dr. Walsh and Staff)

4. Otolaryngologic Pathology. One student may serve as a
volunteer in the laboratory. Eight weeks. Full time.

(Dr. Wolff)
SECOND YEAR
OPHTHALMOSCOPY. Lectures and demonstrations are given as a part of the course in Physical Diagnosis. 6 hours. (See Medicine 1b).
(Drs. Lawrence Post, M. H. Post, Beisbarth)

THIRD YEAR
1. OPHTHALMOLOGY. One lecture a week is given in the third trimester. 11 hours. (Dr. Wiener)

FOURTH YEAR
2. CLINICAL OPHTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eleven hours a week for two weeks. 22 hours.
(Drs. Lawrence Post, M. H. Post, Schwartz, B. Y. Alvis, Beisbarth, Hildreth, Calhoun, E. B. Alvis)

OBSTETRICS AND GYNECOLOGY
PROFESSORS WILLARD M. ALLEN, OTTO H. SCHWARZ, FREDERICK J. TAUSIG, ROYSTON, T. KENNETH BROWN.
EMERITUS PROFESSORS H. CROSSEN, EHRENFEST.
ASSISTANT PROFESSORS McNALLY, O'KEEFE, PADDOCK, KREBS, ROBERT J. CROSSEN, HOBBS, WEGNER.
INSTRUCTORS SCHLOSSSTEIN, DRABKIN, LIESE, DUDLEY R. SMITH, SOULE, ARNESON, ROBLEE, MORRIN.
ASSISTANTS CANEPA, MYRON W. DAVIS, ARZT, SCRIVNER, O'NEILL, STEWART, KLEINE, PATTON, WULFF, MAX, WASSERMAN, GIBSON, BORTNICK, HUTTO, NOLAN, ROTHMAN, HUBERT ALLEN, GOETSCH, KEYS, MILLS, WOLFF.
RESEARCH ASSISTANTS VIERGIVER, HAYWARD.

Students are given practical instruction in obstetrics and gynecology in the St. Louis Maternity Hospital, the Barnes Hospital, the University Clinics, the Homer G. Phillips Hospital and the St. Louis City Hospital. The St. Louis Maternity Hospital provides approximately 900 confinements, the St.

1 On leave of absence until May 15, 1942 for military duty.
2 On leave of absence until January 9, 1942 for military duty.
3 Died September 21, 1941.
4 Resigned August 31, 1941.
Louis City Hospital, 600, the Homer G. Phillips Hospital, 700, and the home delivery service of the University Clinics, 175, annually. On the gynecological divisions there are approximately 400 admissions annually in the Barnes Hospital, 500 in the St. Louis City Hospital and 450 in the Homer G. Phillips Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,000 new patients are seen and 9,000 follow up visits are made annually.

THIRD YEAR

1. LECTURES IN OBSTETRICS AND GYNECOLOGY. Entire class once weekly throughout the year. 33 hours.
   (Drs. Allen, Schwarz, Brown, Wegner, Hobbs)

2. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Two hours a week (in sections of one-third of the class). 22 hours.
   (Dr. Hobbs and Staff)

3. CLINICAL CLERKSHIPS. Students serve on the wards of the St. Louis Maternity Hospital, Barnes Hospital and the St. Louis City Hospital. A group, composed of two-ninths of the class, spends two-ninths of the year in the Department. One-half of the group works at the St. Louis Maternity and Barnes Hospitals, and the other half at the St. Louis City Hospital, the subgroups changing in the middle of the period. The clerkship includes work on both gynecological and obstetrical wards. The clerks become an integral part of the organization and assume specific duties and responsibilities. They assist in the delivery rooms and small groups attend the University Clinics for special instruction in pelvic examination, abdominal palpation and pelvic measurement. Rounds are conducted at 10:10 a.m., four times weekly for the group at the St. Louis Maternity and Barnes Hospitals and at 10:30 a.m., four times weekly for the group at the St. Louis City Hospital. 154 hours.
   (Dr. Allen and Staff)

FOURTH YEAR

4. CLINICS AND LECTURES. Entire class once weekly throughout the year. 33 hours.
   (Dr. Allen and Staff)

5. CLINICAL CLERKSHIPS. One-sixteenth of the class serves as clinical clerks in the University Clinics for a period of two weeks. During this period they spend the day from 9:00 to 12:00 and 1:30 to 4:00. New patients are assigned and after complete history and physical examination has been made each
case is reviewed with the student by a member of the staff. Old patients are also seen frequently and ample opportunity is provided for examination of prenatal patients. Students also attend special clinics which are held concurrently with the regular clinic. 66 hours.

6. OBSTETRICAL SERVICE. A second group of one-sixteenth of the class spends two weeks on obstetrical call. During this period they reside in the hospital, some at the St. Louis Maternity Hospital and others at the St. Louis City Hospital, and attend under supervision a number of women during labor. In some instances they will attend labor conducted in the home.

7. TUMOR CLINIC. Instruction in the diagnosis and treatment of neoplastic disease is given two hours once weekly in the tumor clinic for a period of four weeks. This is conducted jointly with the Department of Radiology and the use of radium and deep X-ray therapy in these conditions is demonstrated. Students have the opportunity of seeing several patients, before, during and after treatment. This is given to the group in surgery. 8 hours.

ELECTIVE COURSES

8. Gynecological Pathology. Two students may serve as assistants in the laboratory of the St. Louis Maternity Hospital and participate in the routine. Four weeks. Full time. All quarters.

9. University Clinics. Three students as clinical clerks, all day for four or eight weeks.

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

PROFESSORS HARTMANN, COOKE, VEEDER.
ASSOCIATE PROFESSORS THEODORE C. HEMPELMANN, McCulloch.
INSTRUCTORS BLEYER, PARK J. WHITE, ZENTAY, KUBITSCHEK, RUPE, PERLEY, LAWRENCE GOLDMAN, ROHLPING, DEUTCH, F. A. JACOBS, STANLEY HARRISON, JAUDON, LONDE, BLATTNER, BARNETT, POWERS.
ASSISTANTS LONSWAY, BAUER, AFF, JONES, WACHTER, SCHWARTZMAN, ROBINSON, KUTTNER.
RESEARCH FELLows GARDNER, PFEIFFENBERGER.
RESEARCH ASSISTANTS HEYS, COOK.
DENTISTS MARTIN, HARRIS.

The instruction during the third year is designed to introduce the subject of pediatrics to the student by a systematic course of lectures emphasizing particularly normal growth and development, infant nutrition and feeding, acute infectious
diseases, and serious disturbances in water and mineral metabolism.

During the fourth year the emphasis is placed on the physical findings of disease and the student is brought into close contact with the patient in the wards of the St. Louis Children's Hospital, and by frequent clinical conferences with the teaching staff.

THIRD YEAR

1. PEDIATRICS. A systematic lecture course in general pediatrics, including occasional clinical demonstrations. Two hours a week for two trimesters and one hour a week for one trimester. 55 hours. (Drs. Hartmann, Cooke)

FOURTH YEAR

2. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 32 hours. (Drs. Hartmann, Cooke, Veeder, McCulloch, Bleyer, Blattner, Jaudon, Barnett)

3. CLINICAL AND PATHOLOGICAL CONFERENCES. Weekly conferences, following clinical conferences. See also Pathology 4.

4. CLINICAL CLERKSHIPS. For essentially the entire day, beginning at 9:00 a.m., one-eighth of the class works as clinical clerks for four weeks. This work consists of the following: (1) daily early morning ward rounds with the house staff; (2) work on assigned cases, which may be interrupted for special demonstrations; (3) daily conferences with members of the teaching staff, during which the more important pediatric subjects are stressed; (4) general staff rounds twice weekly, during which students present selected cases which are then discussed by the staff; (5) work in the Outpatient Department of the University Clinics, including the general pediatric clinic and such special clinics as the well-baby clinic and the luetic clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) ward rounds at the St. Louis City Isolation Hospital, the Homer G. Phillips Hospital, and the convalescent department of the St. Louis Children's Hospital, Ridge Farm; (8) special instruction in technic of nose, throat and ear examinations in infants and children by members of the Department of Otolaryngology; (9) special demonstrations in common nursing procedures, which include the preparation of artificial formulae. (Drs. Hartmann, Cooke, Blattner, Barnett, Jaudon, Zentay, Kubitschek, Harrison, Wachter and Staff)
ELECTIVE COURSES

5. Clerkship at Children's Hospital. Two students, full time, four or eight weeks.

6. Clerkship at City Hospital. Two students, full time, four or eight weeks.

7. Research. Properly qualified students may engage in clinical or laboratory research under the direction of the pediatric staff. Hours by arrangement.

8. Advanced Work. The facilities of the department are available to qualified students who desire to do additional or advanced work in the St. Louis Children's Hospital, St. Louis Isolation Hospital, Child Guidance Clinic, the Pediatric Clinic or in the laboratories of the department. Hours to be arranged.

MILITARY SCIENCE AND TACTICS

EARL H. PERRY, M.D., Lieutenant Colonel, M. C., U. S. A.

Assistant Professor of Military Science and Tactics

A Medical Unit of the Reserve Officers' Training Corps is maintained. An officer of the Medical Corps of the Regular Army is detailed to the School as instructor. Classes are a part of the regular schedule. The work is divided as follows:

(1) Basic Course—first and second years.
(2) Advanced Course—third and fourth years.
(a) Summer Training Camp—six weeks.

Enrollment in both the Basic and Advanced Courses is optional and does not obligate the student to any military duty except to complete the section of the course undertaken. The Summer Camp is part of the Advanced Course. It may be attended after the second or the third year.

Satisfactory completion of the Basic Course is required for enrollment in the Advanced Course. Certain credits may be allowed for work done in R. O. T. C. Units elsewhere.

Students enrolled in the Advanced Course receive "Commutation of Subsistence," at the rate prescribed by law, throughout the full two year period except during the camp period when they are housed, clothed, fed and receive the pay of the lowest grade of the Army.

Upon completion of the course the student will be presented, at graduation, with his choice of a commission as a First Lieutenant, Medical Section, Officers' Reserve Corps, or with a certificate of eligibility for such commission.
MISCELLANEOUS COURSES

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony; expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 11 hours.

(Mr. Crowdus)

ELECTIVE COURSE

Professional Conduct and Medical Economics. An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; “systems” of practice in other countries; health insurance plans. 8 hours.

(Dr. Park J. White)

POST-GRADUATE COURSES

Courses in the following subjects are offered to a limited number of qualified graduates in medicine:

OBSTETRICS AND GYNECOLOGY

A four-weeks’ course in obstetrics and diagnostic gynecology is offered once each year, beginning in May. The course is designed for those doing general practice, and its object is to provide a thorough grounding in the modern practice of obstetrics and gynecology. For those desiring to enter upon the practice of obstetrics and gynecology as a specialty, the course will furnish a sound basis for further work in this field.

OPHTHALMOLOGY

An eight-months’ course in ophthalmology is offered each year beginning in October. The purpose of the course is to provide a good foundation in ophthalmology on which the student can build further, preferably by ophthalmic internships or by study while engaging in practice. Approximately one-fifth of the time is spent in the study of the fundamental sciences as they pertain to ophthalmology.
An eight-months' course in otolaryngology is offered each year beginning in September.

The purpose of the course is to prepare the student for a residency in otolaryngology or for work with a preceptor. The curriculum is not arranged with the thought of making him a finished otolaryngologist. It is prepared so as to build a firm foundation for his development as a clinician. The instruction is not confined to the basic sciences. Those subjects are included in the curriculum which will best prepare him for his work as an interne.

The theory and practice of otolaryngology are studied; operative surgery and bronchoscopy are taught in the dead house and on animals. Particular attention is given to the methods of examination of patients and to diagnosis. The problems of defects and the management of the deaf child are emphasized.

ANATOMY

Dissection. A six-weeks' summer course in anatomy is offered for physicians desiring to review the subject. Any of the following parts may be elected for study: head and neck, thorax and upper limb, abdomen and pelvis, lower limb.

Pamphlets giving further information about these courses may be obtained on application to the Registrar of the School.
### GENERAL SCHEDULES
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

**Schedule of First Year. September 24 - December 22, inclusive**

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<td><strong>Military Science</strong>&lt;br&gt;and Tactics 1</td>
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WASHING rN UNIVERSITY SCHOOL OF MEDICINE
Schedule of First Year. January 4 - February 6, inclusive

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**WASIHNGTON UNIVERSITY SCHOOL OF MEDICINE**

Schedule of Second Year, First Trimester

1942-43

**BULLETIN OF WASHINGTON UNIVERSITY**
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of Second Year. Third Trimester

1942-43
# WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Third Year. First Trimester

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* Clerkships take precedence over clinical and pathological conferences.
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* Clerkships take precedence over clinical and pathological conferences.
## Schedule of Third Year. Third Trimester

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Group B—
Obstetrics and Gynecology 3
Neuropsychiatry
Psychiatry 3b; Neurology 3b
Group C—Medicine 2 |                     |                       | Surgery                          |                   |                     |
| 11 to 12| Group A—Surgery 6
Group B—
Obstetrics and Gynecology 3
Neuropsychiatry
Psychiatry 3b; Neurology 3b
Group C—Medicine 2 |                     |                       | Military Science and Tactics    |                   |                     |
| 12 to 1     | Group A—Surgery 6
Group B—
Obstetrics and Gynecology 3
Neuropsychiatry
Psychiatry 3b; Neurology 3b
Group C—Medicine 2 |                     |                       | Neuropsychiatry Psychiatry 3a (12 to 1:30) |                   |                     |
| 2 to 3      | Group A—Surgery 6
Group B—
Obstetrics and Gynecology 3
Neuropsychiatry
Psychiatry 3b; Neurology 3b
Group C—Medicine 2 |                     |                       | Free                             |                   |                     |
| 3 to 4      | Group A—Surgery 6
Group B—
Obstetrics and Gynecology 3
Neuropsychiatry
Psychiatry 3b; Neurology 3b
Group C—Medicine 2 |                     |                       |                                  |                   |                     |
| 4 to 5      | C. P. C.* Conference Pathology 4 |                     | Special Lectures          |                                |                     |                       |
| 5 to 6      |                          |                       |                        |                                |                     |                       |

* Clerkships take precedence over clinical and pathological conferences.
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<th>MONDAY</th>
<th>TUESDAY</th>
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<th>THURSDAY</th>
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<td>8 to 9</td>
<td>Neur. &amp; Psych.</td>
<td>Surgery Clinic</td>
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Note: Sections change at the middle of the quarter.

* Clerkships take precedence over clinical and pathological conferences.
### WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Fourth Year. Surgical Quarter

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<th>Hours</th>
<th>Monday</th>
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Surgery 8 to 13, inclusive

Section I—4 weeks—Homer G. Phillips Hospital

Section II—4 weeks—9 to 11—W. U. Specialty Clinics; 11 to 1—Tumor Clinic

Note: Sections change at the middle of the quarter.

* Clerkships take precedence over clinical and pathological conferences.
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<th>HOURS</th>
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<th>TUESDAY</th>
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Note: Sections change at the middle of the quarter.
* Clerkships take precedence over clinical and pathological conferences.
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Fourth Year Class. Elective Quarter

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<td>Ahrens, Roy Edwin, Jr., A.B.</td>
<td>Barnes Hospital, St. Louis Missouri</td>
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<tr>
<td>Albert, Bernice, A.B.</td>
<td>(cum laude)—St. Louis City Hospital, St. Louis, Missouri</td>
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<td>Balas, David, A.B.</td>
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<td>Colorado General Hospital, Denver, Colorado</td>
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<td>General Hospital of Fresno County, Fresno, California</td>
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<td>Lee, John Portness, A.B.</td>
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THE SCHOOL OF MEDICINE

Lemmon, George Bruce, Jr., A.B.—George F. Geisinger Memorial Hospital, Danville, Pennsylvania
Letterman, Gordon Sparks, A.B., B.S.—Barnes Hospital, St. Louis, Missouri
Mariek, Donald James, B.S.—St. Vincent's Hospital, Toledo, Ohio
Martin, Ruth Campbell, A.B.—Deaconess Hospital, St. Louis, Missouri
Martin, Samuel Preston (cum laude)—Barnes Hospital, St. Louis, Missouri
Matthews, Jane Maysey, A.B. (cum laude)—Charity Hospital of Louisiana, New Orleans, Louisiana
McCann, Harold Edward—St. Luke's Hospital, St. Louis, Missouri
McElroy, Donald McGregor, B.S.—St. Louis City Hospital, St. Louis, Missouri
McElroy, William Fitch—St. Mary's Group of Hospitals, St. Louis, Missouri
Moreland, Joseph Ivan, B.S.—George F. Geisinger Memorial Hospital, Danville, Pennsylvania
Mueller, Vernette Austin, Jr., A.B.—United Hospital, Port Chester, New York
Nelsen, Cedric Axel, A.B., B.S.—Swedish Hospital, Seattle, Washington
Ozment, Thomas Lewis, A.B.—Fort Sam Houston Station Hospital, Houston, Texas
Pickett, Frank Joseph, A.B.—Cleveland City Hospital, Cleveland, Ohio
Putnam, John Andrews, A.B.—Receiving Hospital of Detroit, Detroit, Michigan
Ramsey, Joseph Hawthorne, A.B.—Grady Hospital, Atlanta, Georgia
Ransom, Charles Herman, A.B.—Letterman General Hospital, San Francisco, California
Reed, Darwin Cramer, A.B.—St. Francis Hospital, Wichita, Kansas
Rehn, Carol Henry, B.S.—Presbyterian Hospital-Olmstead Memorial-Hollywood Hospital, Los Angeles, California
Rosen, Allan Morris, A.B.—Cedars of Lebanon Hospital, Los Angeles, California
Ross, Silas Earl, Jr., B.S.—Southern Pacific Hospital, San Francisco, California
Schechter, Samuel Eli—Jewish Hospital of St. Louis, St. Louis, Missouri
Schwarz, Henry II, B.S.—Barnes Hospital, St. Louis, Missouri
Shearer, William, A.B.—New York City Hospital, St. Louis, Missouri
Slof, Virgil Nelson, A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri
Smith, Garland Frederick, A.B.—St. Luke's Hospital, St. Louis, Missouri
Stahl, William Charles, B.S., M.S.—Department of Pathology, Washington University School of Medicine, St. Louis, Missouri
Stone, John Lowell, A.B., B.S.—Swedish Hospital, Minneapolis, Minnesota
Stewart, Robert Wendell, B.S.—St. Luke's Hospital, St. Louis, Missouri
Swarm, William Ebell, A.B.—Deaconess Hospital, St. Louis, Missouri
Tompkins, Anne Carlton, B.S.—Albany Hospital, Albany, New York
Tope, William Leon, B.S.—Jewish Hospital of St. Louis, St. Louis, Missouri
Walker, Howard Seaborn Jones, Jr., B.S. (cum laude)—Barnes Hospital, St. Louis, Missouri
Whitlock, Gerald Frederick, B.S.—St. Luke's Hospital, St. Louis, Missouri
White, Betty, A.B.—Flower and Fifth Avenue Hospital, New York, New York
Williams, Charles Sampson—Albany Hospital, Albany, New York
Williams, James Carter, A.B.—St. Louis City Hospital, St. Louis, Missouri
Womble, James George, A.B.—St. Louis City Hospital, St. Louis, Missouri
Yarborough, Charles Lee—Jewish Hospital of St. Louis, St. Louis, Missouri
Total, 97

BACHELOR OF SCIENCE IN MEDICINE

Canaga, Bruce Livingston, Jr.—San Diego, California
Gollub, Samuel Walter—St. Louis, Missouri
Mills, Warren Benjamin—St. Louis, Missouri
Schwarz, Henry II—St. Louis, Missouri
Total, 4
PRIZES AWARDED AT COMMENCEMENT
June 10, 1941

GILL PRIZE IN ANATOMY
Bryce Harold Bondurant, A.B.

GILL PRIZE IN PEDIATRICS
Jane Arax Erganian, A.B.

ALPHA OMEGA ALPHA PRIZE
Leon Kahn, B.S., M.S.

ALEXANDER BERG PRIZE IN BACTERIOLOGY
Herman Theodore Blumenthal, B.D., M.S., Ph.D.
Hyman Bernard Stillerman, B.S., M.S.

HOWARD A. McCORDOCK BOOK PRIZE IN PATHOLOGY
Raymond Ray Lanier, Jr., B.A., Ph.D.

ALUMNI SCHOLARSHIP
Donald Huelsmann, A.B.

JACKSON JOHNSON SCHOLARS — 1941-42
William Morris Anderson, B.S.
Parker Reynolds Beamer, A.B.,
M.S., Ph.D.
Grace Elizabeth Bergner, A.B.
Frank A. Brown, Jr., A.B.
Edward Hardin Dunn, A.B.
Albert Earl Hensel, Jr., A.B.
Charles M. Huguley, Jr., A.B.
Richard Arthur Jones, A.B.
Edwin Krebs, A.B.
Abraham David Krems, B.S., Ph.D.
Robert Dale Lange, A.B.
Harry James Lawler, B.S., D.Sc.
Frances Marshall Love, A.B.
Clayton Hunter Manry, A.B.
Harl Wood Matheson, B.S.
Allyn Jay McDowell, B.S.
Kent McQueen, B.S.
Charles Barber Mueller, A.B.
James Griffith Owen, B.S.
James Allan Read, A.B.
William George Reese, B.S., M.S.
Ernest Tuttle Rouse, B.S.
Philip T. Shahan, A.B.
David Wilson Talmage, B.S.
Gordon Musgrove Todd, B.S.
Souther Fulton Tompkins, A.B.
Martin Sanford Withers, A.B.
## ROSTER OF STUDENTS

### PHYSICIANS ATTENDING GRADUATE COURSES BETWEEN JANUARY 1 AND DECEMBER 31, 1941

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialty</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cayce, Lee F.</td>
<td>Otolaryngology</td>
<td>Nashville, Tenn.</td>
</tr>
<tr>
<td>Coleman, Catherine B.</td>
<td>Ophthalmology</td>
<td>Panama City, Fla.</td>
</tr>
<tr>
<td>Compton, J. Roy, M.D.</td>
<td>Anatomy</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Foote, Robert F., M.D.</td>
<td>Chest Surgery</td>
<td>New York, N.Y.</td>
</tr>
<tr>
<td>Godwin, Robert W.</td>
<td>Otolaryngology</td>
<td>Long Beach, Calif.</td>
</tr>
<tr>
<td>Hillsinger, Raymond L., M.D.</td>
<td>Otolaryngology</td>
<td>Cincinnati, Ohio</td>
</tr>
<tr>
<td>Johnson, Raymond R., M.D.</td>
<td>Ophthalmology</td>
<td>Berkeley, Calif.</td>
</tr>
<tr>
<td>Kelley, Robert Wilson, M.D.</td>
<td>Anatomy</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>McAteer, Gerald H., M.D.</td>
<td>Chest Surgery</td>
<td>Bayonne, N.J.</td>
</tr>
<tr>
<td>Pfeiffer, Guy O., M.D.</td>
<td>Otolaryngology</td>
<td>Bethesda, Md.</td>
</tr>
<tr>
<td>Robertsson, James H., M.D.</td>
<td>Otolaryngology</td>
<td>Springfield, Mo.</td>
</tr>
<tr>
<td>Shelley, Ronald N., M.D.</td>
<td>Chest Surgery</td>
<td>East Syracuse, N.Y.</td>
</tr>
<tr>
<td>Smith, John, M.D.</td>
<td>Anatomy</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Thiele, Harry L., M.D.</td>
<td>Anatomy</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Titus, Bruce L., M.D.</td>
<td>Otolaryngology</td>
<td>Eugene, Ore.</td>
</tr>
<tr>
<td>Vitale, Nicholas S., M.D.</td>
<td>Anatomy</td>
<td>Normal, Mo.</td>
</tr>
<tr>
<td>Ware, Frank A., M.D.</td>
<td>Ophthalmology</td>
<td>Flint, Mich.</td>
</tr>
<tr>
<td>Ziegler, Dillman F., M.D.</td>
<td>Chest Surgery</td>
<td>Chicago, Ill.</td>
</tr>
</tbody>
</table>

**Total, 27**

### FOURTH YEAR CLASS

<table>
<thead>
<tr>
<th>Name</th>
<th>University/College, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson, William Morris</td>
<td>B.S., Coll. of William and Mary, '38—Cramerton, N.C.</td>
</tr>
<tr>
<td>Asher, Edward</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Austin, Dean Charles</td>
<td>A.B., Univ. of S. Dak., '30—Vermillion, S. Dak.</td>
</tr>
<tr>
<td>Baird, Harry Haynes, A.B.</td>
<td>Univ. of N. C., '38—Mara Hill, N.C.</td>
</tr>
<tr>
<td>Black, William Alfred</td>
<td>A.B., Univ. of Calif., '25; M.A., Univ. of Calif., '34—Piedmont, Calif.</td>
</tr>
<tr>
<td>Blumenthal, Herman Theodore</td>
<td>B.S., Rutgers Univ., '34; M.S., Univ. of Pa., '36—Philadelphia, Pa.</td>
</tr>
<tr>
<td>Breiter, Bernard, A.B.</td>
<td>Washington Univ., '38—St. Louis, Mo.</td>
</tr>
<tr>
<td>Brindley, Hanes Hanby</td>
<td>Temple, Texas</td>
</tr>
<tr>
<td>Bressler, Frank Augustus, Jr., A.B.</td>
<td>Davidson Coll., '37—Hsueh-fu-wu, China</td>
</tr>
<tr>
<td>Brown, Royal Lee</td>
<td>A.B., Univ. of Utah, '32; A.M., Univ. of Utah, '33—Koosharem, Utah</td>
</tr>
<tr>
<td>Busse, Ewald William, A.B.</td>
<td>Westminster Coll., '38—St. Louis, Mo.</td>
</tr>
<tr>
<td>Callaway, Claude Parham</td>
<td>Palo Alto, Calif.</td>
</tr>
<tr>
<td>Cason, Elbert Henry, A.B.</td>
<td>Univ. of Mo., '37; B.S., Univ. of Mo., '40—Jefferson City, Mo.</td>
</tr>
<tr>
<td>Christensen, Jerome Jenson</td>
<td>A.B., Univ. of Utah, '39—Salt Lake City, Utah</td>
</tr>
<tr>
<td>Davis, William Joseph</td>
<td>B.S., Univ. of Wash., '38—Portland, Ore.</td>
</tr>
<tr>
<td>Eck, Birkle, A.B.</td>
<td>Washington Univ., '38—St. Louis, Mo.</td>
</tr>
<tr>
<td>Ellis, Samuel Teel, Jr., A.B.</td>
<td>Univ. of Mo., '39; B.S., Univ. of Mo., '40—Kansas City, Mo.</td>
</tr>
<tr>
<td>Foote, Burton Alexander</td>
<td>B.S., Univ. of Wash., '38—Elma, Wash.</td>
</tr>
<tr>
<td>Frerking, Herbert William</td>
<td>A.B., Univ. of Mo., '39; B.S., Univ. of Mo., '40—Alma, Mo.</td>
</tr>
<tr>
<td>Gibbel, Melvin Isaac</td>
<td>A.B., Ill. Coll., '38—Girard, Ill.</td>
</tr>
<tr>
<td>Glashow, Jules Lewis</td>
<td>Atlantic Beach, N.Y.</td>
</tr>
<tr>
<td>Grabin, Gene Henry</td>
<td>B.S., St. Louis Coll. of Pharm., '37—St. Louis, Mo.</td>
</tr>
<tr>
<td>Granat, Walter Phillip</td>
<td>A.B., Valparaiso Univ., '38—St. Louis, Mo.</td>
</tr>
<tr>
<td>Groshart, Gene Marion</td>
<td>B.S., Univ. of Wyo., '38—Worland, Wyo.</td>
</tr>
<tr>
<td>Hamlin, Edwin Marshall</td>
<td>A.B., Univ. of Calif., '39—Santa Rosa, Calif.</td>
</tr>
<tr>
<td>Hale, Alex</td>
<td>St. Louis, Mo.</td>
</tr>
<tr>
<td>Herdener, Russell Louis</td>
<td>B.S., St. Ambrose Coll., '36—Moline, Ill.</td>
</tr>
</tbody>
</table>
Herrmann, Arnold John, B.S., Elmhurst Coll., '38—St. Louis, Mo.
Hertz, James Rudolph, A.B., Univ. of Nebr., '37—Reno, Nev.
Huguley, Charles Mason, Jr., A.B., Emory Univ., '38—Atlanta, Ga.
Idaho, Alphonse, Stanford Univ., '38—Atherton, Calif.
Jones, Asa Charles, Jr., A.B., Washington Univ., '38—University City, Mo.
Jones, Edward Henry, Jr., A.B., Western Reserve Univ., '37—Youngstown, Ohio.
Jones, Wendell LeRoy—Missoula, Mont.
Keller, Frank Goulding, B.S., Ala. Polytechnic Institute, '34—Birmingham, Ala.
Klinge, Frederick William, A.B., Univ. of Mo., '38—St. Louis, Mo.
Koeller, Irvin Clark, A.B., Washington Univ., '38—St. Louis, Mo.
Kraft, Edward Otto, Jr.—University City, Mo.
Kreis, Caroline Georgine, A.B., Univ. of Calif., '38—San Mateo, Calif.
Lott, Charles Lawrence, A.B., Univ. of Rochester, '38—Rochester, N. Y.
Martz, John Charles, A.B., Univ. of Mo., '38—Kirkwood, Mo.
McCabe, Chester Alan, B.S., Wash. St. Coll., '38—Long Beach, Calif.
McGowan, Jack Dorrwell, A.B., Univ. of N. C., '38—Asheville, N. C.
McComas, Donald Lester, A.B., Univ. of Calif., '37—Yreka, Calif.
Molgaard, Sven Ross, B.S., Univ. of Utah, '38—Fairview, Utah.
Mihelich, Lewis, B.S., Univ. of Idaho, '36; M.S., Univ. of Idaho, '38—Mullan, Idaho.
Mills, Warren Benjamin, B.S., Washington Univ., '41—Webster Groves, Mo.
Moody, Donald Maddox, B.S., Univ. of Utah, '39—Salt Lake City, Utah.
Mueller, Charles Barber, A.B., Univ. of Ill., '38—Carlinville, Ill.
Nevles, Jackson Coll., A.B., Washington Univ., '38—Webster Groves, Mo.
Feck, Chester Roell, Jr., A.B., Central Coll., '38; B.S., Univ. of Mo., '40—Malden, Mo.
Pillsbury, Ruth Merrille, A.B., Univ. of Calif., '37—Berkeley, Calif.
Kansam, Dow Harvey, Jr., A.B., Stanford Univ., '38—Madura, Calif.
Kuehler, Irvin Clark, A.B., Univ. of Ala., '38—Sullivant, Ala.
Reese, William George, B.S., Univ. of Idaho, '38; M.S., Univ. of Idaho, '38—Preston, Idaho.
Reller, Helen Clarissa, A.B., Washington Univ., '38—St. Louis, Mo.
Rice, Herman, A.B., Western Reserve Univ., '38—Cleveland, Ohio.
Royce, Robert Killian, B.S., Univ. of Miss., '39—Isola, Miss.
Rubel, Joseph Leo, A.B., Univ. of Ala., '38—Columbus, Miss.
Schneider, Eline Lewis—Dodge City, Kans.
Schreiber, Ruth, A.B., Washington Univ., '38—St. Louis, Mo.
Shahan, Philip Truman, A.B., Harvard Coll., '38—Clayton, Mo.
Shobe, Frank Oscar, A.B., Washington Univ., '38—St. Louis, Mo.
Showalter, John Ralph, Jr., A.B., DePauw Univ., '38—Glencliff, Mo.
Slaght, John McAdory, B.S., Southwestern Coll., '40—Millville, Ala.
Stiles, Herman, Hyman Bernard, B.S., Coll. of the City of N. Y., '38; M.S., Washington Univ., '38—Great Neck, N. Y.
Stortz, Robert Benjamin—Pomona, Calif.
Sutherland, Earl Wilbur, Jr., B.S., Washburn Coll., '37—Burlingame, Kans.
Smitherman, Homer Allen, B.S., Univ. of Wash., '40—Seattle, Wash.
Tillman, Walter William, Jr.—Springfield, Mo.
Tingen, Lyde Aaron, B.S., Univ. of N. Dak., '40—Wahalla, N. Dak.
Turner, Glenn Oliver, A.B., Southwest Mo. State Teachers Coll., '38; B.S., Univ. of Mo., '40—El Dorado, Mo.
Underwood, Manly, A.B., Westminster Coll., '38; B.S., Univ. of Mo., '40—Perry, Mo.
Watkins, George Linn, A.B., Westminster Coll., '38—Farmington, Mo.
Wear, Thomas Ralph, A.B., Univ. of Ala., '38—Haleville, Ala.
Weaver, Jack Dorsey, A.B., Washington Univ., '38—Litchfield, Kans.
White, Abraham George, B.S., Coll. of the City of N. Y., '37—Ozone Park, N. Y.
Withers, Martin Sanford, A.B., Univ. of Kans., '38—Clay Center, Kans.
Total, 93

THIRD YEAR CLASS

Andersen, De Wayne Campbell, B.S., Iowa State Coll., '40—Stanhope, Iowa.
Anthony, Dallas Dean, B.S., Drury Coll., '39—Springfield, Mo.
Ashley, Hugh Vincent, Jr., A.B., Univ. of Mo., '39—Cape Girardeau, Mo.
Balken, John Bruce, A.B., Univ. of Utah, '39—Salt Lake City, Utah.
Barrett, Elmer LeVeri, A.B., Univ. of Utah, '40—Salt Lake City Utah.
Beam, Robert Shelton, B.S., Univ. of N. C., '33—Asheville, N. C.
Beamer, Parker Reynolds, A.B., Univ. of Ill., '35; M.S., Univ. of Ill., '37; Ph.D., Univ. of Ill., '40—Urbana, Ill.
Birn, Robert Bruce—Paris, Ill.
Birn, Frank Hinch, A.B., Washington Univ., '38—St. Louis, Mo.
Boyle, Jean Rebecca, B.S., Univ. of Wash., '36; M.S., Univ. of Wash., '37—Seattle, Wash.
Cadman, Ewan Frederick Braithwaite—Southport, England.
Callahan, William Paul, Jr., B.S., Univ. of Notre Dame, '33—Wichita, Kans.
Caso, Dorothy Mildred—St. Louis, Mo.
Charnas, Raymond Mervin, A.B., Washington Univ., '39—Brooklyn, N. Y.
Christensen, Dale Clark, B.S., Utah St. Agri. Coll., '36; M.S., Utah St. Agri. Coll., '38—Brigham, Utah.
Cockrell, John Lloyd, A.B., Univ. of Mo., '39; B.S., Univ. of Mo., '41; M.A., Univ. of Mo., '41—Troy, Mo.
Corbin, Gerald John, Jr.—Blackfoot, Idaho.
Davis, Frank Russell, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—North Little Rock, Ark.
Deck, Melvin Denver, A.B., Univ. of Utah, '37—Salt Lake City, Utah.
Ellis, Francis Jerome, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Springfield, Mo.
Ewing, Nathaniel Du Kate, A.B., Duke Univ., '37—Vincennes, Ind.
Farrington, Wilma Rose, A.B., Washington Univ., '38—St. Louis, Mo.
Feldman, David—St. Louis, Mo.
Firminger, Harlan Irwin, A.B., Washington Univ., '39—St. Louis, Mo.
Fisher, Donald, Jr., B.S., Univ. of Wash., '40—Bountiful, Utah.
Foster, Donald Merrill, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Kirkville, Mo.
Fullenwider, Charles Glendenning, B.S., Univ. of Okla., '33—Muskogee, Okla.
Gundlach, Sigmund—St. Louis, Mo.
Harding, Herbert Clagett, B.S., Fort Hays, Kans. State Coll., '39—St. Louis, Mo.
Holt, Robert Earl, Jr.—Stuttgart, Ark.
Kahn, Stanley Samuel, A.B., Univ. of Alabama, '33—Gadsden, Ala.
Klingberg, William Gene, A.B., Municipal Univ. of Wichita, '38—Wichita, Kans.
Koch, Fremont Forsberg, A.B., Dartmouth Coll., '40—San Diego, Calif.
Koch, Forrest Clifton, B.S., Univ. of Mo., '41—Springfield, Mo.
Lawrence, Ira Clare, A.B., Univ. of Kansas, '33—Kansas City, Mo.
Lehner, Ira Wallace, A.B., Univ. of Wis., '39—Brooklyn, N. Y.
Lemoine, Albert Napoleon, Jr., A.B., Univ. of Kansas, '38—Kansas City, Mo.
Lipton, Stuart Peter, A.B., Ill. Coll., '39—Pt. Sam Houston, Texas.
Masunaga, Blech, B.S., Univ. of Hawaii, '37—Lanal, Hawaii.
Mattick, Irvin Hertler, A.B., Washington Univ., '40—St. Louis, Mo.
McMurry, Kent, B.S., Univ. of Idaho, '38—Preston, Idaho.
Miller, Elmer Bowman, A.B., Washington Univ., '39—St. Louis, Mo.
Nancy, Alva Paul, Jr.—Flora, Ill.
Odell, Richard Thomas, A.B., Westminster Coll., '35; B.S., Univ. of Mo., '41—St. Louis, Mo.
O’Hea, Matthew Arthur—Wishaw, Scotland.
Pappanfort, Robert Bernhardt, Jr., A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Murphysboro, Ill.
Petry, James Louis, A.B., Univ. of Mo., '40; B.S., Univ. of Mo., '41—Columbia, Mo.
Quinn, Denise Callister, A.B., Univ. of Utah, '40—Salt Lake City, Utah.
Rosse, Leslie William, Jr., B.S., Univ. of N. C, '39—Rocky Mount, N. C.
Rose, Raymond Frederick—Dupo, Ill.
Rosenthal, Ernest Simon, A.B., Univ. of Calif., '38—San Francisco, Calif.
Rupp, Edson Coldren, Jr., A.B., Denison Univ., '36—Granville, Ohio.
Schwarzt, Ernest, A.B., Univ. of Calif., '38—M.A., Univ. of Calif., '39—San Francisco, Calif.
Schweitzer, Fred Carl, Jr., B.S., Drury Coll., '38—Springfield, Mo.
Schwartz, Ernest, A.B., Univ. of Calif., '38; M.A., Univ. of Calif., '39—San Francisco, Calif.
Schwartz, Ernest, A.B., Univ. of Calif., '38—M.A., Univ. of Calif., '39—San Francisco, Calif.
Schweitzer, Fred Carl, Jr., B.S., Drury Coll., '38—Springfield, Mo.
Smith, Fayell Pennington, A.B., Univ. of N. C, '39—Lexington, N. C.
Smith, Ralph Jackson, B.S., Birmingham-Southern Coll., '38—Birmingham, Ala.
Smyth, Edward Nicholas, A.B., Univ. of Southern Calif., '39—West Los Angeles, Calif.
Stauss, Hans-Karl, A.B., Univ. of Miss., '39; B.S., Univ. of Miss., '40—Port Gibson, Miss.
Tabankin, Alvin Jacob, B.S., Coll. of William and Mary, '39—Newport, N. J.
Thurlow, Alfred Amos, Jr., A.B., Pomona Coll., '38—Santa Rosa, Calif.
Todd, Gordon Musgrove, B.S., State Coll. of Wash., '38—Pullman, Wash.
Tomlinson, Fred Morton, A.B., Univ. of Alabama, '37—Birmingham, Ala.
Uhlmeyer, Henry Adolph, Jr., B.S., Washington Univ., '39—St. Louis, Mo.
Watkins, Carlton Gunter, A.B., Univ. of N. C, '39—Wilmington, N. C.
Wheeler, R. C., R., A.B., Univ. of N. C, '38—Sanford, N. C.
Williams, Rymal Graff, A.B., Univ. of Utah, '40—Cedar City, Utah.
Wiss, Robert James, A.B., Washington Univ., '38—St. Louis, Mo.
Wisnath, Frank Sum, A.B., Washington Univ., '38—Clayton, Mo.
Woodridge, Wilfred Erwin, B.S., Drury Coll., '32—Springfield, Mo.
Total, 101

SECOND YEAR CLASS

Alfred, H. Lawrence, A.B., Fresno State Coll., '40—Madera, Calif.
Black, John Paul Myles, B.S., Univ. of N. M., '40—Raton, N. M.
Blum, John Ferguson, Jr., A.B., Coll. of the Pacific, '40—Stockton, Calif.
Ames, Iowa.
Boles, Clifford Read, A.B., Washington Univ., '40—University City, Mo.
Chappell, Francis May, A.B., Washington Univ., '40—St. Louis, Mo.
Clay, Joseph Baker, A.B., San Diego State Coll., '40—La Mesa, Calif.
Covington, Terrell, Jr., A.B., Washington Univ., '40—Muskogee, Okla.
Cravens, James Hewitt—Collinsville, Ill.
Czebrinski, Edward Walter, A.B., Washington Univ., '40—St. Louis, Mo.
DeBold, Conrad, A.B., Park Coll., '41—New York, N. Y.
Denning, Ervin Francis, Jr., B.S., Univ. of Dayton, '40—St. Louis, Mo.
Elsonhauer, John Herman, B.S., St. Coll. of Wash., '40—Post Falls, Idaho.
Erickson, William Gardner, B.S., Northwestern Univ., '40—Danville, Ill.
Fukushina, Yasuyuki, B.S., Univ. of Hawaii, '40—Wahiawa, Oahu, Hawaii.
Goldfarb, Alvin, A.B., Washington Univ., '40—St. Louis, Mo.
Gottschalk, Louis August, A.B., Washington Univ., '40—St. Louis, Mo.
Grant, Harold M., A.B., Washington Univ., '40—Brenx, N. Y.
Greenwood, Benjamin Samuel, B.S., Univ. of Ill., '39—Champaign, Ill.
Hewitt, Archie Lee—Maplewood, Mo.
Hewitt, Helen, A.B., Washington Univ., '40—St. Louis, Mo.
Ingram, John Samuel, A.B., Univ. of Ore., '40—Pendleton, Ore.
Jones, Paul, A.B., Westminster Coll., '40—Richmond Heights, Mo.
Jordan, Mary, A.B., Univ. of Mo., '40—Webster Groves, Mo.
Joslyn, Howard Pratt, B.S., Northwestern Univ., '40—Oak Park, III.
Kettlerbach, Edward Edward, B.S., Univ. of Ariz., '40—Tucson, Ariz.
Kingsbacher, Elaine Dryfoos, A.B., Univ. of Calif. at Los Angeles, '40—Pasadena, Calif.
Kowart, Edward Harry, A.B., Washington Univ., '40—St. Louis, Mo.
Krebs, David Evans, A.B., Washington Univ., '40—Sluice City, Iowa.
Krebs, Edwin A.B., Univ. of Ill., '40—Greenville, Ill.
Krems, Abraham David, B.S., Univ. of Wash., '37; Ph.D., Univ. of Wash., '40—Seattle, Wash.
Lawler, Harry James, B.S., Univ. of Ill., '36; D.Sc., Johns Hopkins Univ., '40—Chicago, Ill.
Lichtwardt, Harry Edward, A.B., Oberlin Coll., '40—Rio de Janeiro, Brazil.
Luikart, Ralph Herbert, Jr., A.B., Grinnell Coll., '40—Omaha, Nebr.
Lyda, Wood, B.S., Univ. of Wash., '40—Seattle, Wash.
Makley, Torrence Aloysius, Jr., B.S., Univ. of Dayton, '40—Dayton, Ohio.
Matheson, Harri Wood, B.S., Univ. of Ill., '40—Nepomen, Ill.
Mazzur, Herbert Arthur—University City, Mo.
McElroy, Glenn Leslie, A.B., Central Coll., '40—New Franklin, Mo.
Melsenheimer, Martin P.—Oak Park, Ill.
Middletom, William Harry, A.B., Oberlin Coll., '40—Alton, Ill.
Mixon, James Goodwin, B.S., Univ. of Florida, '40—Tampa, Florida.
Moore, Andrew Maurice, A.B., Washington and Lee Univ., '40—St. Louis, Mo.
Moore, Stanley Wayne—Vandalia, Ill.
Mundy, Carrol Francis, B.S., Northwestern Univ., '40—St. Joseph, Mo.
Nells, Julius Karl, A.B., Reed Coll., '40—Portland, Ore.
Owen, James Griffith, B.S., Monmouth Coll., '40—Monmouth, Ill.
Payne, John William, B.S., Univ. of Ill., '40—Danville, Ill.
Quinn, James Henry—Independence, Mo.
Reese, Dorothy, A.B., Valparaiso Univ., '40—Concordia, Mo.
Rhine, Walter Alfred, Jr., A.B., Washington Univ., '40—St. Louis, Mo.
Scheor, George Edward, A.B., Municipal Univ. of Wichita, '40—Wichita, Kans.
Schricker, James Louis, Jr., A.B., Univ. of Utah, '39—Salt Lake City, Utah.
Shatz, Burton Albert, A.B., Washington Univ., '40—St. Louis, Mo.
Slichter, Saul Don, A.B., Washington Univ., '40—Clayton, Mo.
Streater, Richard Lee, B.S., Univ. of Ore., '40—Medford, Ore.
Smith, Donald Eugene, A.B., Univ. of Utah, '40—Salt Lake City, Utah.
Snead, Doris Adeline—Los Angeles, Calif.
Sprunger, Lucille Audrey, A.B., Univ. of Wis., '40—Peoria, Ill.
Stadler, David Allan, A.B., Fresno St. Coll., '40—San Francisco, Calif.
Stauffer, Tom Goodman, A.B., Washington Univ., '40—St. Louis, Mo.
Sullivan, Daniel Francis—E. St. Louis, Ill.
Swift, Robert Howard, A.B., Univ. of Calif., '39—San Francisco, Calif.
Tagge, James Frederick, A.B., Univ. of Ore., '41—Portland, Ore.
Tice, C. Stuart, A.B., Univ. of Calif., '39—Mountain Grove, Mo.
Tichenor, Robert Woodrow, B.S., St. Louis Coll. of Pharm., '39—Sappington, Mo.
Tigert, Russel, Jr., B.S., Univ. of Idaho, '37—Soda Springs, Idaho.
Trueblood, Albert Cooper, Jr., A.B., Washington Univ., '40—Webster Groves, Mo.
Walters, Harold Eugene, A.B., Stanford Univ., '40—San Jose, Calif.
Wiegand, Herbert Charles, A.B., Washington Univ., '40—St. Louis, Mo.
Wilson, John Alfred, A.B., Knox Coll., '41—Palmyra, Mo.
Young, Lafayette, Jr., A.B., Washington Univ., '40—Alton, Ill.

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FIRST YEAR CLASS

Alexander, Mary Ethel, A.B., Washington Univ., '41—Quinney, Ill.
Armstrong, Bruce Wendel, B.A., Mont. St. Univ., '41—Saco, Mont.
Bercu, Bernard Aran—St. Louis, Mo.
Bessman, Samuel Paul—Newark N. J.
Birenboim, Irvin Myron—Kansas City, Mo.
Bisbee, Rowe Parnsworth—Los Angeles, Calif.
Bullock, Albert Abbot, Jr., B.S., Northwestern Univ., '41—Milwaukee, Wis.
Callaway, Guy D., Jr.—Springfield, Mo.
Cassell, William Joseph, Jr., B.S., Univ. of Ill., '41—Chicago, Ill.
Chute, Alfred Lionel, A.B., Harvard Coll., '41—Mountain Lakes, N. J.
Cole, Jack Wesley—Eugene, Ore.
Davis, James Wilson, A.B., Univ. of Ariz., '41—Tucson, Ariz.
Deconcini, Gabriel Nino, A.B., Pomona Coll., '40—Hollywood, Calif.
Dehlinger, Klaus Lens—Emporium, Pa.
Donaldson, Robert Clinton, A.B., Univ. of Mo., '41—Shelton, Mo.
Eisenstadt, Albert Bernard, A.B., Univ. of Mo., '41—Doniphan, Mo.
Exon, C. Stuart, A.B., Univ. of Kansas, '41—Wichita, Kans.
Fargotstein, Balph, B.S., Univ. of Pittsburgh, '38—Pittsburgh, Pa.
Fee, William Street—Ariz.
Gallagher, Joseph Charles, B.S., Univ. of Toledo, '41—Rossford, Ohio.
Gillison, John Steward, Jr.—Shoals, Ind.
Haber, Jean Carol, A.B., Stanford Univ., '40—San Francisco, Calif.
Kaneb, Robert Harold, A.B., Univ. of California, '40—San Francisco, Calif.
Henry, James Farthing—E. St. Louis, Ill.
Hensel, Albert Earl, Jr., A.B., Univ. of Mo., '41—Carthage, Mo.
Hodge, Robert Henry—North Kansas City, Mo.
Hurder, William Paul—Evansville, Ind.
Irving, Edward Palmore, A.B., Phillips Univ., '41—St. Louis, Mo.
Johnston, Freeman Leon, B.S., Univ. of Ark., '41—Vandervoort, Ark.
Jones, Reed Wainos, Jr., B.S., Southeastern St. Coll., '41—Denison, Texas.
Kempinsky, Warren Hamilton, B.S., Univ. of Wash., '41—Seattle, Wash.
Lange, Robert Dale, A.B., Macalester Coll., '41—Hallock, Minn.
LeGrand, David Douglas, B.S., Univ. of Wash., '38—Colyb, Wash.
Levin, Bernard Sylvester, A.B., Washington Univ., '41—Kansas City, Mo.
Ling, Alexander—Berkeley, Calif.
Loeb, Virgil, Jr.—St. Louis, Mo.
Lynch, Patrick Alan—Omaha, Neb.
Lynton, Joseph LeRoy, B.S., Univ. of Colo., '38—Denver, Colo.
Manry, Clayton Hunter, A.B., Univ. of Mich., '41—Spring Hill, Ala.
Marshall, Homer Clayton, A.B., Univ. of Colo., '41—Longmont, Colo.
Mason, Edward Allen, A.B., Washington Univ., '41—Orange, N. J.
McCann, Charles Harold, A.B., Westminster Coll., '41—St. Louis, Mo.
Miller, Don Edward—Wichita, Kans.
Murphy, John William, Jr., A.B., Washington Univ., '41—Kirkwood, Mo.
Noller, Henry William, A.B., Univ. of Kans., '41—Topeka, Kans.
Ochs, Lamar Herman, A.B., Washington Univ., '41—Lafayette, Ind.
Oliver, David Rives, A.B., Univ. of Mo., '41—Cape Girardeau, Mo.
Owensby, Lindell Cook—Manhattan, Kans.
Palmer, Marion Elizabeth, A.B., Stanford Univ., '38—Spokane, Wash.
Parker, David English, Jr., A.B., Washington Univ., '41—St. Louis, Mo.
Perkins, Robert Brownling, A.B., Rice Inst., '41—Dallas, Texas.
Purcell, Marvin Tatton, A.B., Washington Univ., '41—St. Louis, Mo.
Richardson, Robert James—Fort Scott, Kans.
Simpson, John Jacob, B.S., Univ. of Idaho, '40; M.S., Univ. of Idaho, '41—Coeur d'Alene, Idaho.
Simmel, Wayne Alvin, A.B., Culver-Stockton Coll., '41—Canton, Mo.
Smith, David English, Jr., A.B., Central Coll., '41—Bonne Terra, Mo.
Snedden, Angus Perry, B.S., Univ. of Wash., '41—Spokane, Wash.
Talmage, David Wilson, B.S., Davidson Coll., '41—Kwangju, Korea.
Tessier, Teal Call, A.B., Brooklyn Coll., '41—Brooklyn, N. Y.
Thompson, Henry Clay III—Bonne Terra, Mo.
Timtrud, David Hugh, A.B., Denison Univ., '41—Brooklyn, N. Y.
Weil, Louis, B.S., Coll. of the City of New York, '39—Brooklyn, N. Y.
Wolf, George Glenn—Fresno, Calif.

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students ..................................................................................... 27
Fourth Year Class .................................................................................. 27
Third Year Class .................................................................................... 101
Second Year Class ................................................................................. 81
First Year Class .................................................................................... 81
Special Student ..................................................................................... 1

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