BULLETIN OF WASHINGTON UNIVERSITY
ST. LOUIS

THIRTY-NINTH ANNUAL CATALOGUE OF THE SCHOOL OF MEDICINE

JUNE 20, 1928

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XXVI NUMBER XV
Washington University

Herbert Spencer Hadley, A.B., LL.B., LL.D.,* Bridge Chancellor
George Reeves Throop, Ph.D., Acting Chancellor

Walter Edward McCourt, A.M., Assistant Chancellor

I. The College of Liberal Arts (Skinker Road and Lindell Boulevard)
   George O. James, Ph.D., Dean

II. The School of Engineering (Skinker Road and Lindell Boulevard)
    Alexander S. Langsdorf, M.M.E., Acting Dean

III. The School of Architecture (Skinker Road and Lindell Boulevard)
     Alexander S. Langsdorf, M.M.E., Acting Dean

IV. The School of Business and Public Administration
    (Skinker Road and Lindell Boulevard)
     Isidor Loeb, M.S., LL.B., Ph.D., Dean

V. The Henry Shaw School of Botany
    (Shenandoah and Tower Grove Avenues)
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    Otto Heller, Ph.D., Dean

VII. The School of Law (Skinker Road and Lindell Boulevard)
     William Green Hale, B.S., LL.B., Dean

VIII. The School of Medicine (Kingshighway and Euclid Avenue)
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IX. The School of Dentistry (4559 Scott Avenue)
    Walter Manny Bartlett, D.D.S., Dean

X. The School of Nursing (600 S. Kingshighway)
    Claribel A. Wheeler, R.N., Director

XI. The School of Fine Arts (Skinker Road and Lindell Boulevard)
    Edmund H. Wuerpel, Director

XII. The Division of University Extension
     (Skinker Road and Lindell Boulevard)
    Frederick W. Shipley, Ph.D., LL.D., Litt.D., Director

XIII. The Summer School (Skinker Road and Lindell Boulevard)
      Isidor Loeb, M.S., LL.B., Ph.D., Director

The following school is also conducted under the charter of the University:

Mary Institute—A Preparatory School for Girls
    (Waterman and Lake Avenues)
    Henry F. Twitchell, B.S., Principal

* Died December 1, 1927.
THE SCHOOL OF MEDICINE

CONTENTS

Calendar ................................................................. 3
The Corporation .......................................................... 5
Officers of Government and Instruction .............................. 6
Staffs of Hospitals and Dispensary .................................. 31
Business and Other Officers of the University ...................... 41
University Boards and Committees .................................. 43
School of Medicine Officers and Committees ...................... 45
Students ................................................................. 48
Summary of Students .................................................. 56
Degrees Conferred in June, 1927 ..................................... 57
General Statement ..................................................... 59
Buildings of the School of Medicine ................................ 63
Clinical Facilities ..................................................... 64
Library of the School of Medicine ................................... 69
Museums and Collections ............................................. 70
Washington University Medical Society ............................ 71
Physical Education and Athletics ..................................... 71
University Health Service ............................................ 73
Students Loan and Scholarship Association ......................... 74
Washington University Medical Alumni Association Loan Fund 74
Requirements for Admission to the School of Medicine ........... 74
Admission to Advanced Standing ..................................... 76
Admission of Graduates in Medicine ................................ 77
Standing and Promotion .............................................. 78
Requirements for Graduation ......................................... 79
Hospital Appointments ............................................... 79
Prizes .................................................................. 80
Fellowships, Student Assistantships, and Scholarships .......... 81
Registration .............................................................. 81
Fees and Expenses ..................................................... 82
Estimate of Expenses .................................................. 83
Men's Dormitory of the School of Medicine ......................... 83
General Plan of Instruction .......................................... 85
Medical Curriculum, 1927-28 ....................................... 87
Courses of Instruction ................................................ 88
Post-Graduate Courses ............................................... 120
Schedule of Courses .................................................. 121
Elective Courses for Fourth-Year Students ......................... 134

(i)
THIRTY-NINTH ANNUAL
CATALOGUE
OF
THE SCHOOL OF MEDICINE
JUNE 20, 1928

PUBLICATIONS OF WASHINGTON UNIVERSITY
Series II  Volume XXVI  Number XV
Published 3 times a month, February to June, inc., by Washington University, St. Louis, Mo.
Entered as Second-Class Matter in the Post-Office at St. Louis, Mo.
Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized on June 29, 1918.
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CALENDAR

1927-28

Registration, Thursday, September 15, to Saturday, September 17, 1927, inclusive.
Examinations for Advanced Standing and Removal of Conditions, Thursday, Friday, and Saturday, September 15, 16, and 17, 1927.
Academic Year (First Trimester) begins Monday, September 19, 1927.
Holiday, Thanksgiving Day, Thursday, November 24, 1927.
First Trimester ends Saturday, December 3, 1927.
Second Trimester begins Monday, December 5, 1927.
Christmas Recess, Friday, December 23, 1927, to Tuesday, January 3, 1928, inclusive.
Registration for second half-year, Thursday, Friday, and Saturday, January 26, 27, and 28, 1928.
Second Trimester ends Saturday, March 3, 1928.
Third Trimester begins Monday, March 5, 1928.
Holiday, Good Friday, April 6, and Saturday, April 7, 1928.
Third Trimester ends Tuesday, May 22, 1928.
Final Examinations begin Thursday, May 24, 1928.
Commencement, Tuesday, June 5, 1928.

1928-29

Registration, Thursday, September 20, to Saturday, September 22, 1928, inclusive.
Examinations for Advanced Standing and Removal of Conditions, Thursday, Friday, and Saturday, September 20, 21, and 22, 1928.
Academic Year (First Trimester) begins Monday, September 24, 1928.
Holiday, Thanksgiving Day, Thursday, November 29, 1928.
First Trimester ends Saturday, December 8, 1928.
Second Trimester begins Monday, December 10, 1928.
Christmas Recess, Sunday, December 23, 1928, to Thursday, January 3, 1929, inclusive.
Registration for second half-year, Friday and Saturday, February 1 and 2, 1929.
Holiday, Washington's Birthday, Friday, February 22, 1929.
Second Trimester ends Saturday, March 9, 1929.
Third Trimester begins Monday, March 11, 1929.
Holiday, Good Friday, March 29, and Saturday, March 30, 1929.
Third Trimester ends Tuesday, May 28, 1929.
Final Examinations begin Wednesday, May 29, 1929.
Commencement, Tuesday, June 11, 1929.
THE CORPORATION

President
ROBERT SOMERS BROOKINGS

First Vice-President
WILLIAM KEENEY BIXBY

Second Vice-President
CHARLES NAGEL

Directors

ROBERT SOMERS BROOKINGS
CHARLES NAGEL
GEORGE OLIVER CARPENTER
ALFRED LEE SHAPLEIGH
EDWARD MALLINCKRODT*
WILLIAM KEENEY BIXBY
ROBERT MCKITTRICK JONES
BENJAMIN GRATZ
JOSEPH DAYTON BASCOM

JACKSON JOHNSON
HARRY BROOKINGS WALLACE
WILLIAM HENRY DANFORTH
DANIEL KAYSER CATLIN
DANIEL NOYES KIRBY
CHARLES REBSTOCK
MALVERN BRYAN CLOPTON
EDWARD MALLINCKRODT, JR.
FRANK CHAMBLESS RAND

Treasurer, and Secretary to the Corporation
JOSEPH HENRY ZUMBALEN

Office in University Hall, Skinker Road and Lindell Boulevard

Alumni Advisory Board

EDWARD GLION CURTIS
GEORGE BARNES
ALBERT PRESTON GREENSFELDER
HARRY JOHN STEINBREDER
WYLLYS KING BLISS
JOHN MARSHALL THOMPSON

ABRAHAM BENJAMIN FREY
MONTAGUE LYON, JR.
WILLIAM HANS VOGT
LOUIS HENRY BEHRENS
JAMES FLOYD ALCORN
HENRY FREDERICK HAGEMANN

Ex Officio: The President of the Corporation; the Chancellor; the Treasurer; the Dean of the College of Liberal Arts; the Deans of the Schools of Engineering and Architecture, Business and Public Administration, Law, Medicine, Dentistry.

* Died, February 1, 1928.
OFFICERS OF INSTRUCTION AND GOVERNMENT*

HERBERT SPENCER HADLEY, LL.D.† ....... Bridge Chancellor of the University
Chancellor of the University
A.B., University of Kansas, 1892; LL.B., Northwestern University, 1894;
LL.D., Northwestern University, 1909, Missouri State University, 1910,
Missouri Valley College, 1911, Harvard, 1925.

GEORGE REEVES THROOP, PH.D. ........... Acting Chancellor of the University
A.B., DePauw University, 1901; A.M., DePauw University, 1903; Ph.D.,
Cornell University, 1905.

GEORGE REEVES THROOP, PH.D. ........... Acting Chancellor of the University
A.B., DePauw University, 1901; A.M., DePauw University, 1903; Ph.D.,
Cornell University, 1905.

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

MCKIM MARRIOTT, M.D. ........... Dean
B.S., University of North Carolina, 1904; M.D., Cornell University, 1910.

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

UNIVERSITY STAFF

JOSEPH ERLANGER, M.D. ........... Professor of Physiology
B.S., University of California, 1895; M.D., Johns Hopkins University,
1899. Physiologist to Barnes and St. Louis Children's Hospitals.

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

ROBERT JAMES TERRY, M.D. ........... Professor of Anatomy
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.
Anthropologist to Barnes and St. Louis Children's Hospitals.

* Arranged in groups in the order of appointment.
† Died, December 1, 1927.
THE SCHOOL OF MEDICINE.

LEO LOEB, M.D. . . . Edward Mallinckrodt Professor of Pathology
M.D., Zurich, 1896. Pathologist to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals.

McKIM MARRIOTT, M.D. . . . . . . . Professor of Pediatrics
B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Physician in Chief to St. Louis Children's Hospital, Pediatrician in Chief to St. Louis Maternity Hospital and Washington University Dispensary, and Consulting Physician, St. Louis Isolation Hospital.

EVARTS AMBROSE GRAHAM, M.D. . . . Bixby Professor of Surgery
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907. Surgeon in Chief to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals, and Washington University Dispensary.

HERBERT SPENCER GASSER, M.D. . . . Professor of Pharmacology
A.B., University of Wisconsin, 1910, and A.M., 1911; M.D., Johns Hopkins University, 1915. Pharmacologist to Barnes and St. Louis Children's Hospitals.

DAVID PRESWICK BARR, M.D. . . . Busch Professor of Medicine
A.B., Cornell University, 1911, and M.D., 1914. Physician in Chief to Barnes and St. Louis Maternity Hospitals, and Washington University Dispensary.

STEPHEN WALTER RANSON, PH.D., M.D.* . . . Professor of Neuroanatomy
B.S., University of Chicago, 1902; Ph.D., 1906; M.D., Rush Medical College, 1907.

ARTHUR ISAAC KENDALL, PH.D., DR.P.H.* . . . Professor of Bacteriology and Public Health
B.S., Massachusetts Institute of Technology, 1900; Ph.D., Johns Hopkins University, 1904; Dr.P.H., Harvard University, 1911.

OTTO HENRY SCHWARZ, M.D. . . . . Professor of Obstetrics
M.D., Washington University, 1913. Obstetrician in Chief to St. Louis Maternity Hospital and Washington University Dispensary.

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

* Resigned, February 1, 1928.
Harvey James Howard, M.D., Oph.D. Professor of Ophthalmology
A.B., University of Michigan, 1904; M.D., University of Pennsylvania, 1908; A.M., Harvard University, 1917; Oph.D., University of Colorado, 1918.

Lee Wallace Dean, M.D.* Professor of Oto-Laryngology
B.S., University of Iowa, 1894; M.S., and M.D., 1896.

Edmund Vincent Cowdry, Ph.D. Professor of Cytology
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.

Jacques Jacob Bronfenbrenner, Ph.D., Dr.P.H. Professor of Bacteriology and Immunology
Ph.D., Columbia University, 1912; Dr. P. H. Harvard University, 1919.

Louis Herbert Burlington, M.D. Lecturer on Hospital Administration
A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906. Superintendent of Barnes Hospital.

Jean Valjean Cooke, M.D. Associate Professor of Pediatrics
A.B., University of West Virginia, 1903, and Yale University, 1904; M.D., Johns Hopkins University, 1908. Assistant Physician to St. Louis Children's Hospital; Associate Pediatrician to St. Louis Maternity Hospital; and Chief of Pediatric Clinic, Washington University Dispensary.

Charles Merl Michael Gruber, Ph.D., M.D. Associate Professor of Pharmacology
A.B., University of Kansas, 1911, and A.M., 1912; Ph.D., Harvard University, 1914; M.D., Washington University, 1921. Physician to Out Patients, Washington University Dispensary.

George Holman Bishop, Ph.D. Associate Professor of Physiology
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.

Harvey Lester White, M.D. Associate Professor of Physiology
B.S., Washington University, 1918; M.D., 1920. Assistant Physician to St. Louis Children's Hospital; Physician to Out Patients, Washington University Dispensary.

Harry Louis Alexander, M.D. Associate Professor of Medicine
A.B., Williams College, 1910; M.D., Columbia University, 1914. Associate Physician to Barnes and St. Louis Maternity Hospitals; Physician to Out Patients, Washington University Dispensary.

* Effective May 9, 1928.
† Effective July 1, 1928.
ALEXIS FRANK HARTMANN, M.D. Associate Professor of Pediatrics
B.S., Washington University, 1919; M.S. and M.D., 1921. Associate Pediatrician to St. Louis Maternity Hospital; Assistant Physician to St. Louis Children's Hospital; Physician to Out Patients, Washington University Dispensary.

FRANK HENRY EWERHAUDT, M.D. Assistant Professor of Physical Therapeutics
M.D., Washington University, 1910. Physician in Charge of Physical Therapeutics, Barnes Hospital; Surgeon to Out Patients, Washington University Dispensary.

JOHN RANDOLPH HALL, M.D., Captain Medical Corps, U. S. Army Assistant Professor of Military Science and Tactics
M.D., Washington University, 1908.

HAROLD ATEN BULGER, M.D. Assistant Professor of Medicine
B.S., Ohio State University, 1916; M.D., Harvard University, 1920. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.

JOHN VINCENT LAWRENCE, M.D. Assistant Professor of Medicine
S.B., University of Chicago, 1917; M.D., Rush Medical College, 1924. Assistant Physician to Barnes Hospital; Medical Director and Physician to Out Patients, Washington University Dispensary.

EDWARD STAUNTON WEST, PH.D. Assistant Professor of Biological Chemistry
A.B., Randolph-Macon College, 1917; M.S., Kansas State Agricultural College, 1920; Ph.D., University of Chicago, 1923.

GLOVER H. COPHER, M.D. Assistant Professor of Surgery
A.B., University of Missouri, 1916; M.D., Washington University, 1918. Assistant Surgeon to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals; Chief of Surgical Clinic, Washington University Dispensary; Visiting Surgeon, St. Louis City Hospital.

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

SAMUEL HAROLD GRAY, M.D. Assistant Professor of Pathology
A.B., Columbia University, 1920; M.D., 1923. Assistant Pathologist to Barnes and St. Louis Children's Hospitals.
JOSEPH CLARENCE HINSEY, Ph.D.* ....... Assistant Professor of Histology and Neuroanatomy
B.S., Northwestern University, 1922; M.S., 1923; Ph.D., Washington University, 1927.

HOWARD ANDERSON MCCORDOCK, M.D. ..... Assistant Professor of Pathology
B.S., University of Buffalo, 1921; M.D., 1928.

GORDON H. SCOTT, Ph.D.† ....... Assistant Professor of Cytology
A.B., Southwestern College, 1922; A.M., University of Minnesota, 1925, and Ph.D., 1926.

ETHEL RONZONI, Ph.D. ....... Instructor in Biological Chemistry and Chemist in Medicine
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1928.

KENNETH LIVINGSTON BURDON, Ph.D. Instructor in Bacteriology and Public Health
Ph.B., Brown University, 1918; Sc.M., 1920; Ph.D., 1922.

THEODORE EDWARD FRIEDEMANN, Ph.D.* ........ Instructor in Biological Chemistry
B.S., Oklahoma Agricultural and Mechanical College, 1915; A.M., University of Missouri, 1921; Ph.D., Washington University, 1923.

WILLIAM JOSEPH DIECKMANN, M.D. ....... Instructor in Obstetrics
B.S., Washington University, 1920; M.D., 1922. Assistant Obstetrician to St. Louis Maternity Hospital.

FRANCIS MILLER SMITH, M.D.‡ ............ Instructor in Medicine
A.B., Pacific Union College, 1919; M.D., College of Medical Evangelists, 1921. Assistant Physician to Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

DANIEL CADY DARROW, M.D. ....... Instructor in Pediatrics
A.B., Cornell University, 1916; M.D., Johns Hopkins University, 1920. Associate Pediatrician to St. Louis Maternity Hospital, and Assistant Physician to St. Louis Children's Hospital.

* Resigned, February 1, 1928.
† Effective July 1, 1928.
‡ Resigned, January 1, 1928.
ARTHUR SCOTT GILSON, JR., PH.D. . . . Instructor in Physiology
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922, and Ph.D., 1924.

MARGARET UPTON, PH.D. . . . . . . . Instructor in Bacteriology and Public Health
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WARREN HENRY COLE, M.D. . . . . . . . Instructor in Surgery
B.S., University of Kansas, 1918; M.D., Washington University, 1920. Assistant Surgeon to Barnes, St. Louis Children's and St. Louis Maternity Hospitals; Visiting Surgeon, St. Louis City Hospital.

ISAAC Y. OLCH, M.D. . . . Instructor in Surgery and Assistant in Gynecology
Ph.B., Brown University, 1917; M.D., Johns Hopkins University, 1921. Assistant Surgeon to Barnes, St. Louis Children's and St. Louis Maternity Hospitals.

PHILIP LEONARD VARNBY, M.S. . . Instructor in Bacteriology and Public Health
B.S., Oregon Agricultural College, 1922; M.S., Washington University, 1926.

HAROLD ALVIN DAVENPORT, M.D.* . . . . . . . Instructor in Histology and Neuroanatomy
B.S., Washington University, 1924; M.D., 1926.

WALTER JOSEPH SIEBERT, M.D. . . . . . . . Instructor in Pathology
M.D., Washington University, 1926.

CAROLINE ELIZABETH WHITNEY, M.D.† . . . . Instructor in Anatomy
A.B., University of Colorado, 1921; M.D., Washington University, 1924.

GEORGE DEE WILLIAMS, M.D.‡ . . . . . . . Instructor in Anatomy
A.B., Ohio State University, 1919, and M.D., 1922; A.M., Harvard University, 1926.

LUDWIG SCHONTHAL, DR. MED. . . Instructor and Selma Michael Fellow in Pediatrics
Dr.Med., University of Frankfurt (Germany), 1928.

IRENE KOECHIG, A.M. . . . . . . . Assistant in Biological Chemistry
A.B., Washington University, 1912; A.M., 1913.

* Resigned, February 1, 1928.
† For six months' period, January 1 to July 1, 1928.
‡ Effective February 1, 1928.
THOMAS KENNETH BROWN, M.D. Assistant in Obstetrics
B.S., University of Wisconsin, 1921, and M.S., 1922; M.D., Washington
University, 1924. Assistant Obstetrician to St. Louis Maternity Hospital.

ROBERT ELMAN, M.D. Assistant in Surgery
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.
Assistant Resident Surgeon to Barnes Hospital.

NATHAN ANTHONY WOMACK, M.D. Assistant in Surgery
B.S., University of North Carolina, 1922; M.D., Washington University,
1924. Resident Surgeon to Barnes Hospital.

WILLIAM GIDEON HAMM, M.D. Assistant in Surgery
B.S., University of Georgia, 1921; M.D., Washington University, 1925.

BEN KING HARNED, M.S. Assistant in Biological Chemistry
B.S., Emory University, 1922; M.S., University of Tennessee, 1925.

CECIL MARVIN CHARLES, A.B. Assistant in Anatomy
A.B., University of Kentucky, 1926.

HELEN TREDWAY GRAHAM, PH.D. Assistant in Pharmacology
B.A., Bryn Mawr College, 1911, and M.A., 1912; Ph.D., University of
Chicago, 1915.

JACOB RABINOVITCH, M.D. Assistant in Pathology
B.S., McGill University, 1921; M.D., C.M., 1924.

GEORGE ELWOOD NESCHE, M.D. Assistant in Medicine
M.D., Washington University, 1925. Resident Physician to Barnes Hos-
pital.

LOUIS FRED AITKEN, M.D. Assistant in Pathology
B.S., University of Illinois, 1923; M.D., Washington University, 1927.

EARL DONAHUE BREWER, M.D.* Assistant in Pathology
B.S., Washington University, 1925; M.D., 1927.

HELEN DAVENPORT, A.B.† Assistant in Histology
and Neuroanatomy
A.B., Washington University, 1923.

* July 1, 1927, to January 1, 1928.
† Resigned, February 1, 1928.
MYRON WOODWARD DAVIS, M.D. . . . . . . Assistant in Obstetrics and in Surgery
M.D., Washington University, 1925. Resident Obstetrician to St. Louis Maternity Hospital; Assistant Resident Surgeon to Barnes Hospital.

IDA THERESE GENTHER, M.A. . . . . . . Assistant in Pathology
B.A., Mount Holyoke College, 1925; M.A., University of Wisconsin, 1927.

MITSUTERU ISHIKAWA, M.D.* . . . . . Assistant in Bacteriology and Public Health
M.D., Tokio Charity Medical College, 1923; M.S., Washington University, 1927.

RICHARD COPELAND NORTON, M.D. . . . . . Assistant in Medicine
A.B., Yale University, 1922; M.D., 1925. Assistant Resident Physician to Barnes Hospital.

MELVIN ANDREW ROBLEE, M.D. . . . Assistant in Surgery and in Obstetrics
B.S., Washington University, 1923; M.D., 1925. Resident Obstetrician to St. Louis Maternity Hospital; Assistant Resident Surgeon to Barnes Hospital.

RICHARD THURSTON TAYLOR, M.D. . . . Assistant in Pathology
A.B., Stanford University, 1922; M.D., Washington University, 1927. Resident Pathologist to Barnes and St. Louis Maternity Hospitals.

LOUIS LEON TUREEN, M.D. . . . . . . Assistant in Pathology
B.S., Washington University, 1925; M.D., 1927.

ALVAH GERRIT HEIDEMAN, M.D. . . . . . . Assistant in Surgery
M.D., Washington University, 1926. Assistant Resident Surgeon to Barnes Hospital.

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M.D., Washington University, 1923. Assistant Surgeon to Barnes and St. Louis Children's Hospitals.

OLIVER ABEL, JR., M.D. . . . . . . . . . . . . . . . . . . . Assistant in Clinical Medicine
B.S., Washington University, 1922; M.D., 1923. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.

WILLIAM GEORGE BECKE, M.D. . . . . . . . . . . . . . Assistant in Clinical Medicine
M.D., Washington University, 1923.

HARTWELL N. LYON, M.D. . . . . . . . . . . . . . . . . Assistant in Clinical Medicine
M.D., Columbia University, 1890. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.
Horace Harvey Shackelford, M.D. .... Assistant in Clinical Medicine  
A.B., University of Missouri, 1910; A.M., 1918; M.D., Washington University, 1918. Physician to Out Patients, Washington University Dispensary; Visiting Physician, St. Louis City Hospital.

Roland Metzler Klemme, M.D. .... Assistant in Clinical Neurological Surgery  
M.D., Washington University, 1921. Assistant Surgeon to Barnes and St. Louis Children's Hospitals.

Milo Lawrence Heideman, M.D. Assistant in Clinical Medicine  
A.B., Washington University, 1918; M.D., 1923. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.

Francis John Canepa, M.D. .... Assistant in Clinical Gynecology  
M.D., Washington University, 1922. Assistant Surgeon to Out Patients, Washington University Dispensary.

Eugene August Vogel, M.D. .... Assistant in Clinical Gynecology  
A.B., University of Missouri, 1919; M.D., Washington University, 1921. Assistant Surgeon to Out Patients, Washington University Dispensary.

Leo Loeb Mayer, M.D. .... Assistant in Clinical Ophthalmology  
B.S., St. Louis University, 1920; M.D., 1923. Assistant Surgeon to Out Patients, Washington University Dispensary.

Val Beyer Satterfield, M.D. .... Assistant in Clinical Neurology and Psychiatry  
B.S., Washington University, 1922; M.D., 1924. Physician to Out Patients, Washington University Dispensary.

Leon Bromberg, M.D. .... Assistant in Clinical Medicine  
B.A., Rice Institute, 1920; M.D., Vanderbilt University, 1925. Assistant Physician to Barnes Hospital; Physician to Out Patients, Washington University Dispensary.

Emanuel Sigoloff, M.D. .... Assistant in Clinical Medicine  
B.S., Washington University, 1920; M.D., 1924.

Thomas Patrick Lawton, M.D. .... Assistant in Clinical Oto-Laryngology  
A.B. and M.D., St. Louis University, 1919.
BERNARD JOHN McMAHON, M.D. . . . . Assistant in Clinical Oto-Laryngology
A.B., St. Louis University, 1913; M.D., 1917. Assistant Oto-Laryngologist to Barnes and St. Louis Children's Hospitals; Surgeon to Out Patients, Washington University Dispensary.

LOUIS E. FREIMUTH, M.D. . Assistant in Clinical Oto-Laryngology
B.S., St. Louis University, 1922; M.D., 1923. Assistant Oto-Laryngologist to Barnes and St. Louis Children's Hospitals.

HELEN GAGE, M.D. . . . . Assistant in Clinical Oto-Laryngology
B.S., University of Michigan, 1916; M.D., 1918.

JOSEPH HOY SANFORD, M.D. . . . . Assistant in Clinical Genito-Urinary Surgery
M.D., Tulane Medical College, 1908. Assistant Surgeon to Barnes Hospital.

OTTO JULIUS WILHELMII, M.D. . . . . Assistant in Clinical Genito-Urinary Surgery
B.S., Washington University, 1915; M.D., St. Louis University, 1917. Assistant Surgeon to Barnes Hospital; Visiting Surgeon to St. Louis City Hospital.

NEWTON W. AMOS, M.D. . . . . Assistant in Clinical Genito-Urinary Surgery
M.D., St. Louis Medical College, 1897.

CHARLES DRABKIN, M.D. . . . . Assistant in Clinical Obstetrics
A.B., Stanford University, 1922; M.D., Washington University, 1924.

ROBERT JAMES CROSSEN, M.D. . . . Assistant in Clinical Gynecology
A.B., Oberlin College, 1921; M.D., Washington University, 1925.

KATHERINE BAIN, M.D. . . . . Assistant in Clinical Pediatrics
A.B., University of Missouri, 1921; M.D., Washington University, 1925. Assistant Physician to St. Louis Children's Hospital; Assistant Physician to Out Patients, Washington University Dispensary.

CLEON EDWARD COLGATE, M.D. . Assistant in Clinical Pediatrics
A.B., Hanover College, 1916; M.D., Washington University, 1924. Assistant Physician to St. Louis Children's Hospital; Assistant Physician to Out Patients, Washington University Dispensary.

GROVER HEWITT POOS, M.D. . . . . Assistant in Clinical Ophthalmology
M.D., St. Louis College of Physicians and Surgeons, 1905. Assistant Surgeon to Out Patients, Washington University Dispensary.
JULIUS THEODORE ELZ, M.D. .......... Assistant in Clinical Ophthalmology
M.D., St. Louis University, 1920. Assistant Surgeon to Out Patients, Washington University Dispensary.

WILLIAM HENRY FOSTER, M.D. .......... Assistant in Clinical Ophthalmology
M.D., St. Louis University, 1905. Assistant Surgeon to Out Patients, Washington University Dispensary.

FELLOWS

NOBORU ARIYAMA, M.D. .......... Research Fellow in Biological Chemistry
M.D., Tokio Imperial University, 1922.

PETER HEINBECKER, M.D. .......... Research Fellow in Physiology and Fellow of the National Research Council in Medicine
B.A., McGill University, 1918; M.D., 1921.

GAYLORD PALMER COON, M.D. .......... Fellow in Neurological Surgery
B.S., University of Wisconsin, 1922; M.S., 1924; M.D., University of Chicago, 1926.

CHARLES FREDERICK WILLIAM ILLINGWORTH, M.B., Ch.B. .......... Fellow in Surgery and Fellow of the Association of Surgeons of Great Britain and Ireland
M.B., Ch.B., University of Edinburgh, 1922; F.R.C.S., 1925.

BRUCE DICK, M.B., Ch.B.* .......... Fellow in Surgery and Fellow of the Rockefeller Foundation
M.B., Ch.B., University of Edinburgh, 1922; F.R.C.S., 1925.

* Effective December 7, 1927.
STAFFS OF HOSPITALS AND DISPENSARY

THE BARNES HOSPITAL

ADMINISTRATION

Superintendent
Louis H. Burlingham, M.D.

Assistant Superintendent
Lucius R. Wilson, M.D.

Executive Assistants
Laura A. Hornbach, R.N.
Cornelia Sasse, R.N.

MEDICINE

Physician in Chief
David P. Barr, M.D.

Associate Physician
Harry L. Alexander, M.D.

Assistant Physicians
Elsworth S. Smith, M.D.
Albert E. Taussig, M.D.
Warren P. Elmer, M.D.
Jerome E. Cook, M.D.
Walter Fischel, M.D.
Walter Baumgarten, M.D.
William H. Olmsted, M.D.
Drew W. Luten, M.D.
Charles H. Eyer mann, M.D.
Jacob J. Singer, M.D.
Frank D. Gorham, M.D.
Joseph W. Larimore, M.D.
Arthur E. Strauss, M.D.
Alfred Goldman, M.D.
Samuel B. Grant, M.D.
Lawrence D. Thompson, M.D.
Anthony B. Day, M.D.
Lee P. Gay, M.D.
Hartwell N. Lyon, M.D.
Lee D. Cady, M.D.
Harold Bulger, M.D.
Llewellyn Sale, M.D.
John V. Lawrence, M.D.
William G. Becke, M.D.
Milo L. Heideman, M.D.
Hiram S. Liggett, M.D.
Oliver Abel, M.D.
Harry Wiese, M.D.
Leon Bromberg, M.D.

Resident Physician
George E. Nesche, M.D.

Assistant Resident Physician
Richard Norton, M.D.

Internes
Charles W. Duden, M.D.
Robert M. Evans, M.D.
Byron F. Francis, M.D.
George S. Littell, M.D.
N. H. Plummer, M.D.
Carliss M. Stroud, M.D.
William B. Adamson, M.D.
Walter M. Whitaker, M.D.
William B. Kountz, M.D.
Colby Hall, M.D.
Lee B. Harrison, M.D.
Earl D. Brewer, M.D.

Dentist
William B. Spotts, D.D.S.

Assistant Dentist
Harry Joedicke, D.D.S.

SURGERY

Surgeon in Chief
Evarts A. Graham, M.D.

Associate Surgeons
Ernest Sachs, M.D.
Vilray P. Blair, M.D.
John R. Caulk, M.D.
Leroy C. Abbott, M.D.
Gynecologist
Harry S. Crossen, M.D.

Assistant Surgeons
Malvern B. Clopton, M.D.
Arthur O. Fisher, M.D.
J. Archer O'Reilly, M.D.
Major G. Seelig, M.D.
J. Edgar Stewart, M.D.
Warren R. Rainey, M.D.
Glover H. Copher, M.D.
Harry G. Greditzer, M.D.
Dalton K. Rose, M.D.
Edwin P. Lehman, M.D.
Charles A. Stone, M.D.
Duff S. Allen, M.D.
Roland M. Klemme, M.D.
Theodore P. Brookes, M.D.
James B. Brown, M.D.
Warren H. Cole, M.D.
Frederick A. Jostes, M.D.
J. Albert Key, M.D.
Isaac Y. Olch, M.D.
J. Hoy Sanford, M.D.
Otto J. Wilhelmi, M.D.
V. Rogers Deakin, M.D.

Assistant Gynecologists
Fred J. Taussig, M.D.
Quittman U. Newell, M.D.
Charles D. O'Keeffe, M.D.
Oda O. Smith, M.D.
Raymond M. Spivy, M.D.
John R. Vaughan, M.D.

Resident Surgeon
Nathan Womack, M.D.

Assistant Resident Surgeons
Robert Elman, M.D.
Myron W. Davis, M.D.
Alvah G. Heideman, M.D.

Edward M. Pickford, M.D.
Melvin A. Roblee, M.D.
Caleb S. Stone, Jr., M.D.

Internes
Paul M. Fulmer, M.D.
William C. Goodlett, M.D.
Clinton K. Higgin, M.D.
Ray E. Newton, M.D.
Walter R. Peterson, M.D.
William W. Rambo, M.D.
William L. Smith, M.D.
Franklin E. Walton, M.D.

Dentist
James A. Brown, D.D.S.

Obstetrics*
Consultant in Obstetrics
Henry Schwarz, M.D.
Obstetrician in Chief
Otto H. Schwarz, M.D.
Associate Obstetrician
Grandison D. Royston, M.D.

Assistant Obstetricians
Adolph G. Schlossstein, M.D.
E. Lee Dorsett, M.D.
Hugo Ehrenfest, M.D.
Otto St. Clair Krebs, M.D.
Frank P. McNalley, M.D.
Richard Paddock, M.D.
William J. Dieckmann, M.D.
Victor Gould, M.D.

Physiologist
Joseph Erlanger, M.D.

Chemist
Philip A. Shaffer, Ph.D.

* Upon the opening of the St. Louis Maternity Hospital in August, 1927, the Obstetrical Service was discontinued at Barnes Hospital, but all members of this staff were given the privilege of taking care of gynecological patients in the Hospital.
The School of Medicine.

Anthropologist
Robert J. Terry, M.D.

Pharmacologist
Herbert S. Gasser, M.D.

Oto-Laryngologist
Greenfield Sluder, M.D.

Assistant Oto-Laryngologists
Harry W. Lyman, M.D.
Millard F. Arbuckle, M.D.
Arthur W. Proetz, M.D.
Eugene R. Van Meter, M.D.
William L. Hanson, M.D.
George Hourn, M.D.
Arthur M. Alden, M.D.
Charles L. Davis, M.D.
Richard J. Payne, M.D.
Francis C. Howard, M.D.
French K. Hansel, M.D.
Bernard J. McMahon, M.D.
James B. Costen, M.D.
Charles S. Reifeldt, M.D.
Walter B. Hoover, M.D.
William F. A. Schultz, M.D.
Louis E. Freimuth, M.D.

Ophthalmologist
William E. Shahan, M.D.

Assistant Ophthalmologists
Meyer Wiener, M.D.
William F. Hardy, M.D.
Frederick E. Woodruff, M.D.
Max W. Jacobs, M.D.
Lawrence Post, M.D.
M. Hayward Post, M.D.

Dermatologist
Frederick O. Schwartz, M.D.
Bennett Y. Alvis, M.D.

Dermatologist
Martin F. Engman, M.D.

Assistant Dermatologists
William H. Mook, M.D.
Richard S. Weiss, M.D.
Adolph H. Conrad, M.D.

Neurologist
Sidney I. Schwab, M.D.

Assistant Neurologists
Andrew B. Jones, M.D.
Archie D. Carr, M.D.

Physician in Charge of Physical Therapeutics
Frank H. Ewerhardt, M.D.

Roentgenologist
Sherwood Moore, M.D.

Assistant Roentgenologists
Joseph W. Larmore, M.D.
Oscar C. Zink, M.D.

Interne in Roentgenology
William L. Smith, M.D.

Pathologist
Leo Loeb, M.D.

Assistant Pathologist
Samuel H. Gray, M.D.

Resident Pathologist
Richard T. Taylor, M.D.

The St. Louis Children's Hospital

Superintendent
Estelle D. Claiborne, R.N.

Assistant Superintendent
Anna Brandner, B.S., R.N.

Assistant Superintendent (Ridge Farm)
Mary M. Reynolds, R.N.
PEDIATRICS

Physician in Chief
McKim Marriott, M.D.

Consulting Physician
Borden S. Veed, M.D.

Associate Physician
Theodore C. Hempelmann, M.D.

Assistant Physicians
Hugh McCulloch, M.D.
Jean V. Cooke, M.D.
Jacob J. Singer, M.D.
Adrien Bleyer, M.D.
Maurice J. Lonsway, M.D.
Park J. White, M.D.
Alexis F. Hartmann, M.D.
Paul J. Zentay, M.D.
Dan C. Darrow, M.D.
E. Irvine-Jones, M.D.
Katherine Bain, M.D.
Cleon E. Colgate, M.D.

Resident Physician
Russell C. Bond, M.D.

Assistant Resident Physicians
A. Crawford Bost, M.D.
James J. Donahue, M.D.
William R. Wilson, M.D.

House Officers
Claude M. Burpee, M.D.
J. Frederick Close, M.D.
Paul M. Fulmer, M.D.
George S. Littell, M.D.
Ray E. Newton, M.D.
Charles A. Schutz, M.D.
Mary Spahr, M.D.
Minnola Stallings, M.D.

Assistant Surgeons
Archer O’Reilly, M.D.
Arthur O. Fisher, M.D.
Warren A. Rainey, M.D.
Charles A. Stone, M.D.
Harry G. Greditzer, M.D.
J. Edgar Stewart, M.D.
Glover H. Copher, M.D.
Duff S. Allen, M.D.
Roland M. Klemme, M.D.
Edwin P. Lehman, M.D.
James B. Brown, M.D.
Warren H. Cole, M.D.
Isaac Y. Olch, M.D.

PATHOLOGY

Pathologist
Leo Loeb, M.D.

Assistant Pathologist
Samuel H. Gray, M.D.

Resident Pathologist
Richard T. Taylor, M.D.

SPECIAL DEPARTMENTS

Physiologist
Joseph Erlanger, M.D.

Chemist
Philip A. Shaffer, Ph.D.

Anthropologist
Robert J. Terry, M.D.

Pharmacologist
Herbert S. Gasser, M.D.

Oto-Laryngologist
Greenfield Sluder, M.D.

Assistant Oto-Laryngologists
Harry W. Lyman, M.D.
Millard F. Arbuckle, M.D.
Arthur W. Proetz, M.D.
Eugene R. Van Meter, M.D.
William L. Hanson, M.D.
George Hourn, M.D.
Arthur M. Alden, M.D.
Charles L. Davis, M.D.
RICHARD J. PAYNE, M.D.
WILLIAM F. A. SCHULTZ, M.D.
FRANCIS C. HOWARD, M.D.
EDWARD H. LANE, M.D.
FRENCH K. HANSEL, M.D.
BERNARD J. McMAHON, M.D.
JAMES B. COSTEN, M.D.
CHARLES S. REHFEIET, M.D.
WALTER B. HOOVER, M.D.
LOUIS E. FREIMUTH, M.D.

Ophthalmologist
WILLIAM E. SHAHAN, M.D.

Assistant Ophthalmologists
LAWRENCE POST, M.D.
MEYER WINTER, M.D.
FREDERICK E. WOODRUFF, M.D.
BENNETT Y. ALVIS, M.D.

Dermatologist
MARTIN F. ENGMAN, M.D.

Assistant Dermatologists
WILLIAM H. MOOK, M.D.
RICHARD S. WEISS, M.D.

Neurologist
SIDNEY I. SCHWAB, M.D.

Urologist
JOHN R. CAULK, M.D.

Assistant Urologist
DALTON K. ROSE, M.D.

Gynecologist
HARRY S. CROSSL, M.D.

Assistant Gynecologist
QUITMAN U. NEWELL, M.D.

Orthopedist
LEROY C. ABBOTT, M.D.

Roentgenologist
SHERWOOD MOORE, M.D.

Assistant Roentgenologist
OSCAR C. ZINK, M.D.

Dentists
ROY C. MALLORY, D.D.S.
DONALD WHITE, D.D.S.

Stomatologist
VIRGIL LOEB, M.D., D.D.S.

ST. LOUIS MATERNITY HOSPITAL

Superintendent
ISABELLE M. BAUMHOFF, R.N.

OBSTETRICS

Obstetrician in Chief
OTTO H. SCHWARZ, M.D.

Consultant in Obstetrics
HENRY SCHWARZ, M.D.
FREDERICK J. TAUSIG, M.D.

Associate Obstetricians
GRANDISON D. ROYSTON, M.D.
HUGO EHRENFEST, M.D.

Assistant Obstetricians
WILLIAM J. DIECKMANN, M.D.
FRANK P. McNALLEY, M.D.
RICHARD PADDICK, M.D.
ADOLPH G. SCHLOSSSTEIN, M.D.

E. LEE DORSETT, M.D.
OTTO S. KREBS, M.D.
T. KENNETH BROWN, M.D.
GROVER B. LIESE, M.D.
REINHARD E. WOBUS, M.D.
JOHN R. VAUGHAN, M.D.
RAYMOND M. SPIVY, M.D.

Resident Obstetricians
MYRON W. DAVIS, M.D.
MELVIN A. ROBLEE, M.D.

Assistant Resident Obstetricians
VICTOR L. GOULD, M.D.
E. L. CARTWRIGHT, M.D.
FRANK W. MCINDOE, M.D.

House Officers
JOHN C. BUCHANAN, M.D.
EVERETT C. DRASH, M.D.
JOHN E. HOBBS, M.D.
FRANCES STEWART, M.D.

PEDIATRICS
Pediatrician in Chief
MCKIM MARRIOTT, M.D.

Associate Pediatricians
BORDEN S. VEEDER, M.D.
ADRIEN S. BLEYER, M.D.
THEODORE C. HEMPELMANN, M.D.
JEAN V. COOKE, M.D.
HUGH MCCULLOCH, M.D.
MAURICE J. LONSWAY, M.D.
DAN C. DARROW, M.D.
PAUL J. ZENTAY, M.D.

Resident Pediatrician
RUSSELL C. BOND, M.D.

Assistant Resident Pediatricians
A. CRAWFORD BOST, M.D.
JAMES J. DONAHUE, M.D.

MEDICINE
Physician in Chief
DAVID P. BARR, M.D.

Associate Physicians
HARRY L. ALEXANDER, M.D.
ELSWORTH S. SMITH, M.D.
ALBERT E. TAUSIG, M.D.
WARREN P. ELMER, M.D.
WALTER FISCHER, M.D.
WILLIAM H. OLMSTED, M.D.
JACOB J. SINGER, M.D.
DREW W. LUTEN, M.D.
JOSEPH W. LARIMORE, M.D.

SURGERY
Surgeon in Chief
EVARTS A. GRAHAM, M.D.

Associate Surgeons
ERNEST SACHS, M.D.
LEROY C. ABBOTT, M.D.

JOHN R. CAULK, M.D.
VILRAY P. BLAIR, M.D.

Assistant Surgeons
J. ARCHER O'REILLY, M.D.
MALVERN B. CLOPTON, M.D.
ARTHUR O. FISHER, M.D.
CHARLES A. STONE, M.D.
J. ALBERT KEY, M.D.
EDWIN P. LEHMAN, M.D.
GLOVER H. COPHER, M.D.
DUFF S. ALLEN, M.D.
DALTON K. ROSE, M.D.
WARREN H. COLE, M.D.
ISAAC Y. OLCH, M.D.
HARRY G. GREDEITZER, M.D.
J. EDGAR STEWART, M.D.

GYNECOLOGY
Gynecologist
HARRY S. CROSSEN, M.D.

Associate Gynecologist
QUITMAN U. NEWELL, M.D.

Assistant Gynecologist
CHARLES D. O'KEEFE, M.D.

SPECIAL DEPARTMENTS
Pathologist
LEO LOEB, M.D.

Resident Pathologist
RICHARD TAYLOR, M.D.

Oto-Laryngologist
GREENFIELD SLUDER, M.D.

Assistant Oto-Laryngologists
HARRY W. LYMAN, M.D.
MILLARD F. ARBUCKLE, M.D.
ARTHUR W. PROETZ, M.D.

Ophthalmologist
WILLIAM E. SHAHAN, M.D.

Assistant Ophthalmologists
M. HAYWARD POST, M.D.
MAX W. JACOBS, M.D.
BENNETT Y. ALVIS, M.D.
THE SCHOOL OF MEDICINE.

Dermatologist
Martin F. Engman, M.D.
Assistant Dermatologists
William H. Mook, M.D.
Adolph H. Conrad, M.D.

Neurologist
Sidney I. Schwab, M.D.
Roentgenologist
Sherwood Moore, M.D.
Stomatologist
Virgil Loeb, M.D., D.D.S.


Medical Director
John V. Lawrence, M.D.

Superintendent
Louise G. Peel, R.N.

Registrar
Flora Robinson

MEDICINE
Physician in Chief
David P. Barr, M.D.

Chiefs of Clinic
Arthur E. Strauss, M.D.
John V. Lawrence, M.D.

GASTROINTESTINAL DIVISION
Physician in Charge
Milo L. Heideman, M.D.

Physicians to Out Patients
Frank D. Gorham, M.D.
Lee P. Gay, M.D.
Anthony B. Day, M.D.
Oliver Abel, M.D.
Harry Wiese, M.D.

Bronchial Asthma Division
Physician in Charge
Charles H. Evermann, M.D.

Physician to Out Patients
Harry L. Alexander, M.D.

Tuberculosis Division
Physician in Charge
Alfred Goldman, M.D.
Physician to Out Patients
BYRON F. FRANCIS, M.D.

DIABETES DIVISION

Physician in Charge
HAROLD A. BULGER, M.D.

ARTHUR DIVISION

Physician in Charge
J. ALBERT KEYS, M.D.

Physician to Out Patients
JOHN V. LAWRENCE, M.D.

ENDOCRINE DIVISION

Physician in Charge
DAVID P. BARR, M.D.

Physicians to Out Patients
LEON BROMBERG, M.D.
LOUIS COHEN, M.D.

Assistant Physician to Out Patients
AUGUST WERNER, M.D.

ANEMIA DIVISION

Physician in Charge
LAWRENCE D. THOMPSON, M.D.

Physician to Out Patients
CHARLES DUDEN, M.D.

SURGERY

Surgeon in Chief
EVARTS A. GRAHAM, M.D.

Chief of Clinic
GLOVER H. COPHER, M.D.

Surgeons to Out Patients
ERNEST SACHS, M.D.
MONTROSE T. BURROWS, M.D.
ARTHUR O. FISHER, M.D.
EDWIN P. LEHMAN, M.D.
WARREN R. RAINNEY, M.D.
GLOVER H. COPHER, M.D.
DUFF S. ALLEN, M.D.
JACOB G. PROBSTSTEIN, M.D.

Assistant Surgeon to Out Patients
LOUIS H. JORSTAD, M.D.

WARREN H. COLE, M.D.
ISAAC Y. OLCH, M.D.
NATHAN WOMACK, M.D.
EDWARD M. PICKFORD, M.D.

OBSTETRICS

Obstetrician in Chief
OTTO H. SCHWARZ, M.D.

Chief of Clinic
RICHARD PADDOCK, M.D.

Obstetricians to Out Patients
OTTO S. KREBS, M.D.
E. LEE DORSETT, M.D.
FRANK P. MCNALLY, M.D.
GROVER B. LISS, M.D.

Physician to Out Patients
RALEIGH K. ANDREWS, M.D.

GYNECOLOGY

Gynecologist in Chief
HARRY S. CROSSEN, M.D.

Chief of Clinic
QUITMAN U. NEWELL, M.D.

Surgeons to Out Patients
JOHN R. VAUGHAN, M.D.
CHARLES D. O'KEEFE, M.D.
ODA O. SMITH, M.D.

Assistant Surgeons to Out Patients
KARL J. BALAZS, M.D.
ELMER O. BRECKENRIDGE, M.D.
FRANCIS J. CANEPA, M.D.
EUGENE A. VOGEL, M.D.

PEDIATRICS

Pediatrician in Chief
MCKIM MARRIOTT, M.D.

Chief of Clinic
JEAN V. COOKE, M.D.

Physicians to Out Patients
THEODORE C. HEMPELMANN, M.D.
ADRIEN BLEYER, M.D.
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<th>Name</th>
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<td>Obstetrics and Gynecology</td>
<td>Peru, Ind.</td>
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<td>Heart</td>
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<td>Ellis Grove, Ill.</td>
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<td>Athens, Ala.</td>
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<td>La Crosse, Wis.</td>
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<td>Heart; Obstetrics and Gynecology</td>
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Brinkerhoff, Edwin
A.B., Univ. of Okla., '26

Burns, Edward Leslie
B.S., Univ. of Okla., '26
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<th>Name</th>
<th>City, State</th>
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<td>Cone</td>
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**Total, 77**

**THIRD YEAR CLASS**

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<td>Santa Ana, Cal.</td>
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**Total, 77**
Fishman, Jacob.................................................Chicago, Ill.
Forsee, James Hodges........................................Columbia, Mo.
A.B., Univ of Mo., '25.
B.S., Univ of Mo., '27.
Fresen, Alexander William..................................Dover, Colo.
Fuson, Alvin Albert........................................Bogota, Ill.
A.B., Univ of Ill., '26.

George, Smith William........................................Warrensburg, Mo.
B.S., Central Mo. State Teachers Coll., '23.
Goldwasser, Herbert Valentine.............................St Louis, Mo.
B.S., Washington Univ., '27.
Hamm, Lee Norman...........................................Granite City, Ill.
Hardy, Guerdan.............................................St Louis, Mo.
Hanus, Florian L............................................Keytesville, Mo.
B.S., Univ of Mo., '27.
Hathcock, Preston Joyce....................................Fayetteville, Ark.
A.B., Univ of Ark., '26.

Heftza, Carl Jacob...........................................St Louis, Mo.
B.S., Washington Univ., '27.

Helstrom, Gordon Louis......................................Willapa, Wash.
B.S., Univ of Wash., '25.

Henderson, Jesse Lester......................................Franklin, Ill.
B.S., Eureka Coll., '24.

Hov. Naka B....................................................Parkville, Mo.
B.S., Park Coll., '28.
Hovitz, Irwin Bennett.......................................St Louis, Mo.
Huntley, Charles Clayborne................................Micola, Mo.
Hutchison, James Easton....................................Garden City, Kan.

Johnson, Craig Byron........................................Columbia, Mo.
A.B., Univ of Mo., '23.
B.S., Univ of Mo., '26.

Jonaschky, Walter Robert..................................St Louis, Mo.
B.S., Washington Univ., '16.

Jump, Clarence Elbert......................................Gerald, Mo.
B.S., Univ of Mo., '27.

Kaufman, Abraham I..........................................St Louis, Mo.
B.S., Washington Univ., '27.

Kovitz, Louis................................................Kansas City, Mo.
A.B., Univ of Ill., '24.

Lang, Marjorie Taussig.....................................St Louis, Mo.

Leuschner, Armin Walter..................................Belleville, Ill.
Lindley, E. C.................................................Stanberry, Mo.
A.B., Cambridge Univ., '27.

Macnish, James Martin.....................................St Louis, Mo.
A.B., Cambridge Univ., '27.

Marmor, William Adolph....................................St Louis, Mo.
B.S., Washington Univ., '27.

McLaughlin, Charles William................................Washington, Iowa
B.S., State Univ of Iowa, '27.

Mueller, Adolph Reginald..................................St Louis, Mo.

Mueller, Roland Frederick................................Kansas City, Mo.

Neece, Kenneth Earl........................................Graham, N. C.

Pakula, Sidney...............................................Raleigh, N. C.
Parker, Robert Frederick..................................Alton, Ill.
B.S., Washington Univ., '27.

Peterson, Vernon Leslie.....................................Latah, Wash.
B.S., State Coll of Wash., '27.

Phillips, Robert Allan.......................................Clear Lake, Iowa
B.S., State Univ of Iowa, '27.

Praet, Bernard Simpson......................................St Louis, Mo.

Queen, Frank E................................................Thornton, Wash.
B.S., Spokane Univ., '24.
B.S., State Coll of Wash., '25.

Rivera, Gabriel Alfonso....................................Los Angeles, Cal.

Robertson, Donald Ford.....................................St Louis, Mo.
A.B., Univ of Mo., '24.
A.M., Univ of Mo., '27.

Rowlette, Avery Peck.......................................Chillicothe, Mo.

Salaman, J. Marvin..........................................Springfield, Ill.
Sams, Crawford Fountain .................................................. East St. Louis, Ill.
A.B., Univ. of Cal., '25.

Scharles, Frederick Herman .............................................. Kansas City, Mo.
B.S., Washington Univ., '27.

Shaw, Henry Carlisle .................................................... Greensboro, N. C.

Shelton, William Prior .................................................. Kansas City, Mo.

B.S., Univ. of Chicago, '23.

Slater, Frank Joseph ........................................................ Savannah, Ga.
B.S., Univ. of Ga., '25.

Slater, Paul Raymond ..................................................... Moline, Ill.

Slater, Paul Raymond ........................................................... Eureka Coll., '25.

Slaughter, Willard Logan .................................................. Jamestown, Miss.
B.S., Univ. of Miss., '27.

Stack, Melvin Everett ...................................................... St. Louis, Mo.

Stuck, Walter Goodloe ...................................................... Jonesboro, Ark.
B.S., Emory Univ., '26.

Townsend, Mary Alice ..................................................... Phillipsburg, Kan.

Tredman, Robert Craig ..................................................... St. Louis, Mo.

Varden, Arthur Edward .................................................... San Bernardino, Calif.

Weber, Frank Clifford ..................................................... Champaign, Ill.

Weber, Lawrence Frank ................................................... Jacksonville, Ill.

Wolfe, Thomas Phillip ..................................................... St. Louis, Mo.

Wolf, Artemus Ford ........................................................ Fayetteville, Ark.
A.B., Univ. of Ark., '25.

Total, 79

SECOND YEAR CLASS

Bankhead, Henry Miller .................................................. Clarksville, Mo.

Barry, George Newton ..................................................... Picher, Okla.
A.B., Univ. of Mo., '25.

Bauer, Louis ................................................................. St. Louis, Mo.

Beijer, Samuel West ....................................................... Southwest City, Mo.

Blemker, Russell McVay .................................................... Huntington, Ind.

Boat, Robert Weston ...................................................... Granite City, Ill.

Bowman, Harold Samuel .................................................. Greenfield, Ill.

Boyer, Joe Merritt .......................................................... Whittington, Ill.

Bush, Douglas Moore ..................................................... Waco, Tex.

Bylund, Benjamin Frank .................................................. Richmond Heights, Mo.

Chamberlin, Donald Tillinghast ........................................ St. Louis, Mo.

Coburn, Donald Fairchild ............................................... Kansas City, Kan.

Corson, Wesley Connelly .................................................. Springfield, Ill.

Cotton Thelma Ann ........................................................ Van Buren, Mo.

Dierh, Maurice August .................................................... St. Charles, Mo.

Durst, Henry ................................................................. St. Louis, Mo.

Eggleston, Donald Edwin ................................................ Kingman, Kan.

Elkins, Higdon Bryant .................................................... Bresheur, Mo.

Elliott, William Howell .................................................. Turnersville, Mo.
A.B., Univ. of Mo., '26.

Finley, Theodore Longworth ............................................ Cape Girardeau, Mo.

Fish, Virgil Otto ............................................................ Cape Girardeau, Mo.

Fried, Letoy Francis ...................................................... Anacortes, Wash.
B.S., Univ. of Wash., '26.

Gass, Herbert Herman ..................................................... Reister, C. P., India

Gentry, Merritt Logan ..................................................... Avon, Mo.
A.B., Univ. of Mo., '26.

Gitt, Joe ................................................................. Fort Smith, Ark.

Goldman, Hyman ............................................................ Ft. Smith, Ark.

Harris, Bettie Ulman ..................................................... Memphis, Tenn.

Harrison, Stanley Leonard .............................................. Maplewood, Mo.

Harvick, Alfred Hiram ................................................... Fayetteville, Ark.
A.B., Univ. of Ark., '26.

Horton, James Dwight .................................................... Springfield, Mo.

Irwin, Glenn Francis ...................................................... Geneva, Kan.

Jeffery, Roland T .......................................................... Eureka, Kan.
A.B., Park Coll., '25.
Kane, Clyde Ernest, Galatin, Ill.
Kopp, Julius H., East St. Louis, Ill.
Lange, Adolph Charles, Webster Groves, Mo.
Langmack, Robert Sylvan, Lebanon, Ore.
Liebolt, Frederick Lee, Fayetteville, Ark.
A.B., Univ. of Ark., '26.
Livingston, Lawrence Gordon, St. Louis, Mo.
Margolin, Ellis Solomon, Baltimore, Md.
Martin, Novirl Alexander, St. Louis, Mo.
Mayfield, George Conrad, St. Louis, Mo.
McBryde, Cyril Mitchell, Richmond Heights, Mo.
McCleave, Thomas Crock, Berkeley, Cal.
Meyer, George Edwin, Flora, Ill.
Newmark, Israel David, St. Louis, Mo.
Orenstein, Joseph Myron, St. Louis, Mo.
Orr, Guy Hudson, Waxahachie, Tex.
B.S., Univ. of Okla., '26.
Pipkin, Francis Garrett, Moscow, Tenn.
Phipps, Francis Garrett, Kansas City, Mo.
Pilman, James Edward, St. Louis, Mo.
Plumpe, William Tupper, St. Louis, Mo.
Raymond, William Matthew, Jr., St. Louis, Mo.
Roth, Leslie William, Murphyboro, Ill.
Sample, Charles Schultze, Jr., Kansas City, Mo.
Scarpellino, Louis Aloysius, Kansas City, Mo.
Scribner, Willard Calvin, St. Louis, Mo.
Shelton, Edward Giley, Elido, Mo.
Shumate, Frederick Ortmann, San Francisco, Cal.
B.S., Univ. of Cal., '26.
Smith, Milton, Mt. Vernon, Ill.
Smith, Stanton Gaston, Mt. Vernon, Ill.
Stewart, Wendell, Topeka, Kan.
Tandy, Roy William, Tracy, Iowa
B.S., Penn Coll., '23.
Tate, Waddy Phoebus, Jr., St. Louis, Mo.
Tausig, Joseph Bond, St. Louis, Mo.
Taylor, Austin Cornelius, Spokane, Wash.
Teas, Melvin John Henry, St. Louis, Mo.
Tidwell, John William, Pittsburg, Ill.
Van Matre, Norman Sloan, Springfield, Mo.
Werner, Harold Theodore, St. Charles, Mo.
Whayne, Tom French, Clinton, Ky.
Total, 72

FIRST YEAR CLASS

Allen, William James, Poplar Bluff, Mo.
Altdorf, Harvey Edison, St. Louis, Mo.
Amos, George Marion, Excelsior Springs, Mo.
Ashley, Claude Wilmer, St. Louis, Mo.
Bell, Fred, Golden City, Mo.
Benner, Stanley Reuben, Marionville, Ky.
B.S., State Coll. of Wash., '24.
Betsel, David Takoh, Oak Harbor, Wash.
B.S., Univ. of Hawaii, '27.
Bobrosz, Harry Alan, Hanapepe, Kauai, Hawaii
B.S., Mo School of Mines and Metallurgy, '27.
Boone, Thomas Harold, A.B., Stanford Univ., '27.
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<td>Miller, John</td>
<td>A.B., Univ. of Ill.</td>
<td>Kansas City, Mo.</td>
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<td>Moore, Elizabeth</td>
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<td>St. Louis, Mo.</td>
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<tr>
<td>Napper, Marvin</td>
<td>A.B., Drury Coll.</td>
<td>Billings, Mo.</td>
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<td>Newman, Mary</td>
<td>A.B., Univ. of Pa.</td>
<td>St. Louis, Mo.</td>
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<td>Penny, Lex</td>
<td>Lead Hill, Ark.</td>
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<td>Powers, Louise</td>
<td>Paris, Mo.</td>
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<td>Ray, Raymond</td>
<td>Tulsa, Okla.</td>
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<tr>
<td>Ruch, Fred, Jr</td>
<td>A.B., Univ. of Ill.</td>
<td>St. Louis, Mo.</td>
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</table>
Rutherford, Findlay dePaul .......................... Santa Barbara, Cal
A.B., Univ. of Cal., '26.

Sawyer, Lester Jacob .................................. Christopher, Ill.

Schaele, Arthur Henry .............................. Jacksonville, Ill.
A.B., Ill. Coll., '27.

Scott, Abbott Charles ............................. Kankakee, Ill.
B.S., Shurtleff Coll., '26.

Sewell, Dan Roy, Jr. .............................. Jacksboro, Tex.
A.B., Univ. of Tex., '25.

Stuby, Don James ................................. Springfield, Mo.
A.B., Stanford Univ., '25.

Scheele, Arthur Henry .............................. Washington, D. C.
A.M., Stanford Univ., '27.

Smith, Raymond Orval ........................................ Owasso, Okla.
A.B., Univ. of Okla., '27.

Smith, Robert Sydney .............................. East St. Louis, Ill.
A.B., Washington Univ., '27.

Smith, Theodore Hammond ............................. Godfrey, Ill.
A.B., Univ. of Ill., '21.

Spaeath, Alexander ............................................ Cleveland, Ohio
A.B., Western Reserve Univ., '27.

Squibb, Joseph William ............................ Springfield, Mo.

Stauffer, Harry Beach ............................... Cottonwood Falls, Kan.
A.B., Univ. of Kan., '26.

Steele, Wyeth Calvin ................................. Mt. Olive, N. C.
A.B., Oglethorpe Univ., '27.

Summers, Jacob Hans ............................................. Springfield, Mo.
B.S., Drury Coll., '22.

Susskind, Myron .......................................... Cleveland, Ohio
A.B., Western Reserve Univ., '26.

Stevens, William ....................... Kapaa, Kauai, Hawaii
A.M., Western Reserve Univ., '27.

Tom, Henry Kee ......................................... Los Angeles, Cal.

A.B., Washington and Lee Univ., '27.

Vargas, Roger August ....................... Los Angeles, Cal.
A.B., Univ. of Cal. at Los Angeles, '27.

Ward, Clarence Clifford .............. Springfield, Mo.
B.S., Drury Coll., '27.

Webb, Martin Morton ......................... Cleveland, Ohio
A.B., Western Reserve Univ., '27.

Weichter, Carl Bausch ...................................... St. Charles, Mo.
A.B., St. Louis Univ., '27.

White, Frank Stratton ......................... Alton, Ill.
B.S., Shurtleff Coll., '27.

Yamashita, Takeo ............................... Honolulu, Hawaii
B.S., Univ. of Hawaii, '27.

Total, 78

SPECIAL STUDENT

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate Students .............................. 115
Fourth Year Class .................................. 77
Third Year Class .................................... 79
Second Year Class .................................. 72
First Year Class .................................... 78
Special Students ..................................... 1

Total, 422
DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 7, 1927:

Aitken, Louis Fred ........................................... East St. Louis, Ill.
B.S., Univ. of Ill., '23.
Allen, Philip King .......................................... St. Paul, Minn.
Ashburn, Claude Wolts ..................................... Winston-Salem, N. C.
B.S., Washburn Coll., '24.
Behrens, William Herbert ................................... St. Louis, Mo.
Bradburn, Hubert Benjamin .................................. Lincoln, Ill.
Brewer, Earl Donohue ....................................... Paragould, Ark.
Buchanan, John Creighton, Jr. ........................... Winnabow, S. C.
B.S., Univ. of S. C., '22.
Claborn, Louie Nixon ...................................... Big Timber, Mont.
Denny, Chester Hampton .................................. Creve Coeur, Mo.
B.S., Univ. of Mo., '25.
Dickinson, Harry Barham ................................... Decherd, Tenn.
Drash, Everett Cato .......................................... Granite City, Ill.
B.S., Phillips Univ., '25.
Eason, Herman Franklin .................................... Selma, N. C.
Fischer, Theodore ............................................ Altenburg, Mo.
B.S., Washington Univ., '25.
Fisher, Henry Nolan ......................................... St. Louis, Mo.
Fortney, Arthur Conwell .................................. Bowers, N. D.
Geraci, Michael Christopher .............................. Cleveland, Ohio
A.B., Western Reserve Univ., '23.
Glenn, Frank Nevin .......................................... Sparta, III.
Goodlett, William Campbell ............................... Webster Groves, Mo.
B.S., Washington Univ., '25.
Gould, Victor Letchton ..................................... Belleville, Ill.
A.B., Univ. of Ill., '21.
Guttman, Paul Henry ........................................ St. Louis, Mo.
Hall, Colby .................................................... Springfield, Ill.
Harison, Lee Bullen ......................................... Logan, Utah
A.B., Univ. of Utah, '25.
Heldereich, Harry Louis .................................. St. Louis, Mo.
Heidbrich, Alfred Gustav .................................... East St. Louis, Ill.
Higgins, Clinton Kelly ...................................... Arcola, Mo.
Hobbs, John E .................................................. St. Louis, Mo.
A.B., Southwest Mo. State Teachers Coll., '22.
Hutchison, Sam Long ......................................... Tupelo, Miss.
B.S., Univ. of Miss., '25.
Jones, Jenner Garnett ....................................... St. Joseph, Mo.
Kane, Clifford Cyrus ......................................... Harrisburg, Ill.
Kerr, Mooy Warrior ......................................... Corvallis, Ore.
Kilduff, Raymond ............................................. San Francisco, Cal.
Klein, Arnold George ....................................... Springfield, Ill.
B.S., Washington Univ., '25.
Koenke, Irene Anita ........................................ St. Louis, Mo.
A.B., Central Wesleyan Coll., '21.
Korb, John Herman ........................................... Lawrence, Kan.
B.S., Univ. of Kan., '20.
M.S., Univ. of Kan., '20.
Leslie, Charles Harold ....................................... Jefferson City, Mo.
A.B., Univ. of Mo., '25.
Levinson, Sidney Older ..................................... Sand Springs, Okla.
B.S., Washington Univ., '25.
Lund, Roy ...................................................... St. Louis, Mo.
B.S., Washington Univ., '25.
Magnella, August Leo ....................................... Witt, Ill.
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
<th>Institution, Location</th>
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<tbody>
<tr>
<td>Marbut, William Martin</td>
<td>Washington, D.C.</td>
<td>B.S., Univ. of Mo., '25</td>
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<tr>
<td>Meredith, John Andrew</td>
<td>Boulder, Colo.</td>
<td>A.B., Univ. of Colo., '26</td>
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<tr>
<td>Merrell, William Rees</td>
<td>Brigham City, Utah</td>
<td>A.B., Univ. of Utah, '25</td>
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<tr>
<td>Metscher, Alfred John</td>
<td>Enid, Okla.</td>
<td>A.B., Phillips Univ., '22</td>
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<td>Miyamoto, Kazuo</td>
<td>Hilo, Hawaii</td>
<td>A.B., Univ. of Utah, '24</td>
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<td>Moody, Harold Payne</td>
<td>Kansas City, Mo.</td>
<td>A.B., Stanford Univ., '24</td>
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<td>Movius, Claude Kenneth</td>
<td>Little Rock, Ark.</td>
<td>A.B., Univ. of Ark., '25</td>
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<td>Nelsen, William Paul</td>
<td>Ledoux, Tex.</td>
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<td>Niess, Oliver Kunze</td>
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<td>O'Neal, Harold Elmo</td>
<td>Centralia, Wash.</td>
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<td>Parsons, Eugene O.</td>
<td>Parsons, Kan.</td>
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<td>Patterson, Edwin Alexander</td>
<td>Oakland, Cal.</td>
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<td>Roebber, Harry McDougall</td>
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<td>Rosenbaum, Carl Augustus</td>
<td>Little Rock, Ark.</td>
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<td>Rylander, Carl Milo</td>
<td>Altona, Ill.</td>
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<td>Saunders, George Chancellor</td>
<td>St. Louis, Mo.</td>
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<td>Schmidt, Eleanor Louise</td>
<td>DeSoto, Mo.</td>
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<td>Schwart, William Chester</td>
<td>Mcherson, Kan.</td>
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<td>Smith, Abigail Elliot</td>
<td>St. Louis, Mo.</td>
<td>A.B., Wellesley Coll., '22</td>
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<td>Smith, Paul</td>
<td>Pikeville, N.C.</td>
<td>A.B., Univ. of Mo., '24</td>
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<td>Stallings, Minnie</td>
<td>Mexico, Mo.</td>
<td>Stevens, Robert Bruce, A.B., Univ. of Mo., '24</td>
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<td>Stewart, Frances Helen</td>
<td>St. Louis, Mo.</td>
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<td>Swisher, Robert Charles</td>
<td>Kansas City, Mo.</td>
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<td>Tank, Myron Carlisle</td>
<td>Canton, S.D.</td>
<td>A.B., Washburn Coll., '22</td>
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<td>Taylor, Richard W.</td>
<td>Los Angeles, Cal.</td>
<td>A.B., Stanford Univ., '22</td>
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<td>Tureen, Louis Leon</td>
<td>St. Louis, Mo.</td>
<td>A.B., Washington Univ., '25</td>
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<td>Walton, Franklin Edward</td>
<td>Alton, Ill.</td>
<td>B.S., Shurtleff Coll., '23</td>
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<td>Webb, Daniel Ross, Jr.</td>
<td>East St. Louis, Ill.</td>
<td>B.S., Shurtleff Coll., '23</td>
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<td>Weber, Paul Cornelius</td>
<td>Olney, Ill.</td>
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<td>Whitaker, Walter Merrill</td>
<td>Bowling Green, Mo.</td>
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<td>Wier, John Sperry</td>
<td>Lacon, Ill.</td>
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<td>Wilcoxen, William Beasley</td>
<td>Bowling Green, Mo.</td>
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<td>Wilson, George Stewart</td>
<td>Winfield, Kan.</td>
<td>A.B., Illinois Coll., '24</td>
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<td>Wilson, Hugh Monroe</td>
<td>Jacksonville, Ill.</td>
<td>A.B., Illinois Coll., '24</td>
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Total, 76
GENERAL STATEMENT

HISTORY AND ORGANIZATION

On the 22nd of February, 1853, at the instance of Wayman Crow, Esq., a member of the State Senate, the Legislature of Missouri granted a charter to an educational institution to be located in the city of St. Louis, and to bear the name Eliot Seminary, in honor of the Rev. William G. Eliot, of St. Louis.

The charter was to be perpetual, and no limitations were imposed, excepting those which forbade any sectarian or partisan instruction. The first meeting of the Corporation named in the charter of incorporation was held on the 22nd of February, 1854. In deference to the wishes of the Rev. Dr. Eliot, the name of the institution was changed. Since the charter had been granted on the 22nd of February, the birthday of Washington, and since the meeting of the Corporation for organization had also occurred on this same anniversary, the name of the institution was changed from Eliot Seminary to Washington Institute, which in 1857 became, by a change in the charter, Washington University. It seemed to the founders that the name was significant of the character of the institution which they sought to found. The first Board of Directors was composed of seventeen well-known, public-spirited citizens of St. Louis, who were named in the charter, and who were given the power to fill vacancies in their number caused by death or resignation.

The first educational work done under the charter of 1853 was the opening of an evening school for boys, in a building on Sixth Street, during the winter of 1854-55. This school was called the "O'Fallon Polytechnic Institute," in honor of Colonel John O'Fallon, for years one of the University Directors, and was in charge of Messrs. Jeremiah D. Low and Nathan D. Tirrell. This evening school, and a day school which had been in operation for some time before this period, were carried on together by the same teachers until, in September, 1856, a building on Seventeenth Street was completed and occupied by the day school. The evening school was sustained for several years by the University, until by special arrangement the entire care of this school was
assumed by the Public School Board. This school on Seventeenth Street, the forerunner of Smith Academy, formerly a secondary school conducted under the charter of the University, was the real beginning of Washington University.

The formal inauguration of the University took place on the 23rd of April, 1857. The leading feature of its exercises was an oration by the Hon. Edward Everett, of Massachusetts, upon "Academic Education," delivered in Mercantile Library Hall. Later in the year a building was erected for the chemical laboratory. In the next year the organization of the College was completed, and the first College degrees were granted in 1862.

The east wing of the main building on Washington Avenue and Seventeenth Street, of which the academic building formed the south wing, was erected in 1858 and used for College classes; the west wing was added in 1871 and devoted to the uses of the Polytechnic School.

In the meantime the University had been growing, adding new departments, and receiving additional endowments. The Law School was organized in 1867; the Polytechnic School, now known as the Schools of Engineering and Architecture, in 1870; the School of Fine Arts in 1879; the School of Botany in 1885. The St. Louis Medical College, founded in 1842, was admitted as a department of the University in 1891, and the Missouri Dental College in 1892. In 1899 the Missouri Medical College, which was founded in 1840, was united with the St. Louis Medical College to form the Medical School of Washington University. In the autumn of 1909 the St. Louis School of Philanthropy was taken over from the control of the University of Missouri, and affiliated with Washington University as the School of Social Economy; in February, 1913, it was made a department of the University. By action of the Corporation on February 5, 1915, this School was discontinued as a department of the University at the close of the academic year 1914-15. The Division of University Extension was formally organized with both Evening and Saturday Courses in the fall of 1915. The School of Commerce and Finance was organized March 30, 1917, and formally opened in September, 1917. July 1, 1926, the name was changed to the School of Business and Public Administration. By act of the Corporation on April 25, 1918, the terms, the School of
Law, the School of Medicine, the School of Dentistry were adopted as the official names of what were previously known as the Law School, the Medical School, the Dental School. While graduate work leading to the master's and doctor's degrees had been effectively done for many years in a number of the University's departments of instruction, a graduate school was not officially organized until June 6, 1922, at which time the Corporation passed an ordinance creating The School of Graduate Studies and providing for its government and administration. By act of the Corporation, March 2, 1923, there was established a separate Graduate School of Economics and Government, with a Residence Foundation in the city of Washington for the third or thesis year students in order that they might take advantage of the facilities offered at the National Capital for the investigation of the problems involved in their subjects. After a year's experience it became evident that, through the importance and development of this work and the difficulties of administration at a distance, it would be advisable that the School should be organized as a separate institution. This was accomplished in 1924, under the name "The Robert Brookings Graduate School of Economics and Government," which accepts second year graduate students in Economics, and Social and Political Science. The first session of the Summer School was held in the summer of 1924. The School of Nursing, which was started in 1905, was established by vote of the Corporation as a degree conferring school, on April 10, 1924.

In 1879 the Academy, which was the first school in operation under the charter, was transferred from the old building on Seventeenth Street and Washington Avenue to a new building on Nineteenth Street and Washington Avenue, erected by funds which came to the Chancellor from James and Persis Smith, and the school was known as Smith Academy, in their honor. Mary Institute, a school for girls, was organized in 1859, and the Manual Training School in 1879. By action of the Corporation on February 5, 1915, the Smith Academy and the Manual Training School were united under the name Smith Academy-The Manual Training School. This action took effect July 1, 1915. On March 30, 1916, the Corporation voted to discontinue Smith Academy on June 30, 1917. The Corporation also voted that,
beginning with the fall semester, 1917, instruction in manual training be confined to the undergraduate department, and be conducted in the shops on the main campus.

In 1894 a tract of land, of which the University now owns about 155 acres, was purchased just outside the city limits, northwest of Forest Park. The generosity of the citizens of St. Louis made it possible to adopt plans for building and to begin work at once. Twenty-two buildings have been erected and the new site has been in the possession of the University since January 30, 1905.

In 1910 the Corporation of the University, appreciating the valuable service which a medical school can render to the community, with the cooperation of the Medical Faculty, reorganized the School in all departments and appointed heads of departments and instructors in anatomy, physiology, biological chemistry, pathology, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis.

In 1916 the sum of one and one-half million dollars was contributed to the School of Medicine by the General Education Board, Mr. John T. Milliken, Mrs. Mary Culver, and Mr. Edward Mallinckrodt. This sum has been divided into three equal parts designated as the John T. Milliken Fund for the Endowment of Clinical Teaching and Research in Medicine, the Mary Culver Fund for the Endowment of Clinical Teaching and Research in Surgery, and the Edward Mallinckrodt Fund for the Endowment of Clinical Teaching and Research in Pediatrics, respectively, and the income is devoted to the support of the departments named. The General Education Board contributed six hundred fifty thousand dollars for the creation of a university department of Obstetrics and sub-department of the Department of Pediatrics for the Newly-Born. This sum became available upon completion of the new St. Louis Maternity Hospital and its affiliation with Washington University in August, 1927.

These endowments have enabled the School of Medicine to place the clinical departments of Medicine, Surgery, Pediatrics, and Obstetrics upon the full university basis, under the direction and control of men devoting all of their time to university work.
With them are associated practitioners of medicine giving part time to the work of the School of Medicine.

In 1919, the Department of Pharmacology was placed on a full university basis by an endowment for that department of three hundred thousand dollars, half of which was contributed by the General Education Board and half by Mr. Edward Mallinckrodt. In 1924 the Department of Bacteriology and Public Health was established by an endowment of four hundred thousand dollars, given by the General Education Board.

Affiliations exist between the Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital, and Washington University, by which the University agrees to provide the medical staffs of the hospitals and the hospitals agree to permit the University to use the hospitals for purposes of teaching and research. The hospitals have erected buildings on Kingshighway overlooking Forest Park. Adjacent to the hospital buildings, a dispensary and large, thoroughly equipped laboratory buildings have been erected (see below). This close association enables the teaching staff of the University to give laboratory and clinical instruction, and to conduct and direct research in all branches of medicine in a single compact plant.

Graduates of the St. Louis Medical College number 2,125; of the Missouri Medical College, 2,915; and of the Medical Department of Washington University, 1,320.

THE BUILDINGS OF THE SCHOOL OF MEDICINE

The three buildings of the School of Medicine are connected by corridor and tunnel with the Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital. They are the Building for the Dispensary and Hospital Laboratories, the North Laboratory Building, and the South Laboratory Building.

In the Building for the Dispensary and Hospital Laboratories, the Dispensary occupies the first floor and basement, the Laboratory of Internal Medicine the second floor, and the departments of Pathology, and Bacteriology and Public Health the upper two floors, together with a western extension of the build-
ing connecting it with the Barnes Hospital, and containing the mortuary and the autopsy amphitheater.

The North Laboratory Building contains the administrative offices of the School of Medicine, the Assembly Hall, the Library, and the Departments of Experimental Surgery and Anatomy.

The South Laboratory Building accommodates the Departments of Biological Chemistry, Pharmacology, and Physiology.

Unit systems prevail in the general construction of these buildings, and so far as advantageous in the fixtures and furnishings. Provision is made in all lecture rooms for the different methods of optical projection and for demonstrations. Research laboratories and technicians' rooms are provided with forced-draft hoods, electricity, steam, and apparatus for controlling temperature.

Nurses' Residence

This building is located on Kingshighway facing Forest Park. It is of concrete construction and fire-proof. On the first floor are reception rooms, a class room, and administrative offices. The upper floors are arranged to accommodate 377 nurses.

Power Plant

The power plant furnishes light, heat, power, refrigeration, and compressed air to the buildings of the School of Medicine, the Dispensary, the Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital.

Clinical Facilities

The affiliation of the Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital with the Washington University School of Medicine makes these institutions for teaching purposes integral parts of the School of Medicine. These hospitals offer opportunities for study and observation in every important branch of medicine, and are closely connected with the Dispensary conducted by the University, which serves as the Out-Patient Department of these hospitals. This assures to the student unusual advantages in clinical work. The attending staffs of Barnes Hospital, St. Louis Children's Hospital, and St. Louis Maternity Hospital consists of the heads of the University Departments of Medicine, Surgery, Obstetrics, and Pediatrics, with their associates and assistants.
Free and pay patients may be admitted to Barnes, St. Louis Children's, and St. Louis Maternity Hospitals, but every effort is made to prevent the pauperization of the individual, and patients who are able to pay are expected to meet the nominal rates in force.

In the hospitals there is adequate laboratory equipment for the investigations necessary in diagnosis. In addition to the ward laboratories, there are special laboratories in all departments with facilities for research workers.

**THE BARNES HOSPITAL**

The buildings of the Barnes Hospital are situated on Kingshighway facing Forest Park on the south and west. The group of hospital buildings proper consists of a central administration building, from which extend corridors leading to the medical and surgical wards, and to the private pavilion and service buildings. These buildings are of fire-proof construction.

The main entrance of the administration building opens on a rotunda, on either side of which are situated the general information office, the administrative office, the trustees' room, offices of the superintendent, the admitting office, and rooms for the physician in chief. The resident medical staff is housed in the second and third stories of this building. On the top floor are the operating pavilion and the lecture room for the Medical Department. There are one large and three small operating rooms, a small amphitheater, rooms for special examinations, offices of the surgeon in chief, dressing rooms, and workroom for the nurses. To the north of the administration building is the service building, containing kitchens, dining-room, and bakery. The laundry occupies a separate building.

The wings containing the wards of the Hospital are situated on either side of the administration building. They are three stories high and have the shape of the letter T. On either side of the wards are porches for convalescent and bed patients. The private pavilion is at the west of the hospital lot facing Forest Park both on the south and west.

With the space in the private pavilion the capacity of the Barnes Hospital is approximately 300 beds.

The Hospital contains numerous class rooms, laboratories, lecture rooms, and examining rooms, in addition to the accommoda-
tions usually found in general hospitals. Special provision has also been made for a modern equipment in the departments of Actinography and Physical Therapeutics, and special wards and laboratories are provided for metabolic studies. The Hospital is wired for electrocardiography, the galvanometer being located in the Dispensary building.

The Hospital is supported by income from endowment and from patients, and by funds derived from outside sources. It is not a municipal institution.

Patients of all ages fifteen years and over, suffering from no contagious medical or surgical diseases, are admitted without distinction as to color, race, or creed. During the year 1927, 5,892 patients were admitted for treatment and care. Patients suffering from pulmonary tuberculosis are not admitted.

THE ST. LOUIS CHILDREN'S HOSPITAL

The St. Louis Children's Hospital is a private institution operated for the children of St. Louis, though opportunities are available for care of children from other places. The total bed capacity is 143. It is supported by income from endowment and from patients, and by funds obtained from various other sources. It is not a municipal institution. Infants and children of all ages to fifteen years are admitted without distinction. During the year 1927, 2,768 patients were admitted for treatment and care.

The main building is six stories high, and contains a large admitting ward, general offices, diet kitchen, emergency room, nose and throat operating room, medical ward, ward for infants, surgical ward, general staff rooms, history room, and routine laboratories, and on the sixth floor rooms for private patients.

The University Pavilion houses the general store room, the Butler Ward for colored patients, two wards for infectious diseases, and a floor devoted entirely to research laboratories.

The Mary Culver Building houses the auditorium and the general supply and service rooms. A large open-air ward occupies the roof of this building.

The Hospital is well equipped for teaching and research, and students are given the privilege of bedside observation and instruction.
The Out-Patient Department of the Hospital is a unit of the Washington University Dispensary. During 1927, a total of 12,319 visits were made to the Children's Clinic.

The St. Louis Children's Hospital maintains a Country Department located on a 130-acre tract one and one-half miles west of Valley Park on the Missouri Pacific Railroad. The buildings have an elevation of 200 feet above the Meramec River to the south. They are of fire-proof construction and accommodate 50 patients. A school room for the patients is maintained by the Board of Education of St. Louis. Children suffering from malnutrition, surgical tuberculosis, or those who are convalescing from acute illnesses, are admitted. Instruction for limited groups of students is offered at the Country Department.

THE ST. LOUIS MATERNITY HOSPITAL

In August, 1927, the St. Louis Maternity Hospital moved into its new quarters at the northwest corner of Euclid and Scott Avenues, on the lot adjoining Barnes Hospital and the Washington University School of Medicine. This institution was for the past eighteen years an independent hospital of approximately 35 beds, but has now become affiliated with Washington University under conditions similar to those governing the St. Louis Children's Hospital. It has an independent Board of Directors in control, but the entire medical supervision is in the hands of the University.

The new hospital is an eight-story building of fireproof construction, accommodating 103 mothers and an equal number of new-born babies. There are eight delivery rooms and one operating room. Sixty of the 103 beds are for teaching cases and the remaining 43 beds for private patients. An isolation division of eight beds has been provided on the eighth floor. For the convenience of ambulatory patients a large portion of the eighth floor is devoted to a solarium, with an unobstructed view over Forest Park and the surrounding country. A large part of the third floor is set aside for the research laboratories and departmental offices. One floor is reserved for colored patients, who have their own delivery rooms and separate entrance. The equipment provided for the new hospital is of the best and most modern type.
The free and private service of the new St. Louis Maternity Hospital with the obstetrical out-patient service of the Washington University Dispensary are handling about 2,000 cases a year. The new-born children will be under the care of the Pediatric Department and the teaching maternity division will be in charge of the Department of Obstetrics. Accommodations are provided for ten men and two women resident physicians.

WASHINGTON UNIVERSITY DISPENSARY
OUT-PATIENT DEPARTMENT OF THE BARNES, ST. LOUIS CHILDREN'S, AND ST. LOUIS MATERNITY HOSPITALS

Since December, 1914, when the Washington University Dispensary moved into its new building, all clinics have been held at this one place. The Dispensary is an organic part of the School of Medicine and is entirely controlled by the Corporation of the University through the Medical Faculty. It acts as the out-patient clinic for the Barnes Hospital, the St. Louis Children's Hospital, and the St. Louis Maternity Hospital. There were recorded in the Dispensary during 1927, 131,717 visits. The heads of the various departments in the School of Medicine control their departments in the out-patient clinic and these departments are responsible for the care of patients. All clinical facilities are available for teaching purposes, and the members of the third and fourth year classes in small sections work in these clinics under the supervision of the out-patient staff. The work of all services is facilitated by the cooperation of the Departments of Nursing and Social Service.

SERVICE OF THE WASHINGTON UNIVERSITY SCHOOL OF MEDICINE IN THE CITY HOSPITALS

At the invitation of the authorities of the Hospital Division of the City of St. Louis, Washington University has assumed control and has become responsible for the medical care of one-half of the patients in the St. Louis City Hospital, and for one-half of the patients in the City Infectious Disease Hospital, and has further agreed to render such professional service in the other municipal institutions as the Hospital Commissioner might request.
The physical equipment of these hospitals is such that this service can be used to advantage for both undergraduate and graduate teaching, and the addition of these units to the clinical facilities of the University greatly broadens the opportunities for teaching. By this cooperation, it is also possible for the University to render a distinct service to the community and to the sick poor. The number of beds made available by this arrangement is approximately 500.

The general plan of organization of the Washington University units in these hospitals is the same as that in operation at the Barnes, St. Louis Children's, and St. Louis Maternity Hospitals. Each unit is organized with a chief of staff who is held responsible for the work of the department and for the proper assignment of work to his associates.

SCHOOL OF MEDICINE LIBRARY

The Library contains (October 1, 1927) 40,740 bound volumes and receives 479 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 419 are in complete series. Including obsolete journals, there are 697 complete sets.

The Library is open week days from 8:30 A.M. to 10:00 P.M., except Saturdays, 8:30 to 6:00. In summer vacation the hours are 9:00 A.M. to 5:00 P.M.

The stacks are open to readers. In the stack rooms every other stack has a table at the window end. There are also three study rooms where books can be placed for investigators. A large reading room provides ample table space and open shelves for current publications.

The Library has been enriched by the acquisition of several private collections. Among these are the library of the late Julius Pagel, Professor of the History of Medicine at the University of Berlin, the gift of the late Mrs. Benjamin Brown Graham of St. Louis. This comprises about twenty-five hundred titles, including many works on the history of medicine, medical biography, bibliography, terminology, medical sociology, and ethics. There is also the fine collection of the late Dr. John Green of periodicals and books relating to ophthalmology; that of the late Dr. W. E. Fischel, on internal medicine, and the library of the
late Dr. Frank J. Lutz, Clinical Professor of Surgery, containing many valuable works on anatomy, surgery, medical history, and biography. The latest additions are the Dr. J. B. Shapleigh collection on Otology and the library of the late Dr. Elsworth F. Smith, Professor of Clinical Medicine and Pathological Anatomy.

The Beaumont Room, adjoining the main reading room, contains manuscripts, letters, and other valuable material of the pioneer American physiologist, William Beaumont, presented to the University by his granddaughter, the late Lily Beaumont Irwin. The original notes made during the investigations on the stomach of Alexis St. Martin form part of the collection. Here also may be seen the portrait of Beaumont by Chester Harding.

Other libraries in St. Louis containing literature relating to medicine, which are available to students, either directly or through the Library of the School, are the following:

The Library of Washington University, Skinker Road.
The St. Louis Medical Library, 3839 Lindell Boulevard.
The St. Louis Public Library, Olive and Fourteenth Streets.
The Library of the Missouri Botanical Garden, Shenandoah and Tower Grove Avenues.
The Mercantile Library, Broadway and Locust Street.

A loan service is maintained with various medical libraries in the country, notably the Library of the Surgeon General in Washington, and the John Crerar Library in Chicago.

MUSEUMS AND COLLECTIONS

In the Department of Anatomy there is a museum for teaching and a collection of material for investigation.

The museum is combined with the class laboratories in order that it may be used for reference at all times. It comprises specimens and models of adult organs and organic systems, variations, and preparations illustrating development. Recently a valuable collection of anatomical specimens prepared with unusual skill and care by Bohumil Hochmann has been purchased for the museum. The collection contains a series of skeletons, of known race, sex and age, Indian crania and other material for anthropological study; microscopical sections, embryos, and models, and materials for the study of comparative anatomy.
The Museum of Pathology contains specimens prepared and catalogued for use in the teaching of pathological anatomy. Specimens needed by any department of the School for demonstrations or lectures may be obtained from the museum under regulations similar to those in force in the Library. The Departments of Surgery and Obstetrics have aided in the collection of material suitable for the teaching of these subjects and other special departments have the opportunity to cooperate in making similar collections. Diseases of bones are well illustrated by a large number of specimens collected during the early history of the School by Dr. Charles A. Pope and Dr. John T. Hodgen. A section of the museum contains experimental pathological lesions.

WASHINGTON UNIVERSITY MEDICAL SOCIETY

The Washington University Medical Society is conducted to promote the advance of medicine in the University and in the hospitals affiliated with it by the report and discussion of investigations undertaken in the laboratories and hospitals. Meetings are held on the second Monday of each month during the academic year. The meetings are open to students of the School. Physicians of St. Louis and visiting physicians are welcome.

PHYSICAL EDUCATION AND ATHLETICS

Students are encouraged to participate in intercollegiate athletics except when physical unfitness or unsatisfactory scholarship prohibits such participation.

The University is a member of the Missouri Valley Conference, which regulates all intercollegiate contests, and is governed by the regulations of that conference.

Athletics at the University are under the control of an Athletic Council consisting of six members of the Faculty, six alumni, and four members of the Student Body. Matters pertaining to University policy are regulated by the Faculty Athletic Committee.

Special emphasis is laid on all forms of intercollegiate and intramural athletics.
All forms of physical exercises are based upon a thorough medical and physical examination, and no student is allowed to take part in any of the more violent forms of exercises if he be found physically unfit.

Equipment. The David R. Francis Gymnasium is situated at the extreme western part of the campus. It is a massive structure, 100 by 180 feet, three stories high, with a main exercising hall measuring 75 by 107 feet. The building is completely equipped with the most modern kinds of apparatus. There are thirty-six hot and cold shower baths, a trophy room, wrestling, fencing, and handball rooms, offering every convenience for the student. Accommodations for indoor track and baseball are provided, and in the main hall is a suspended corked running track, eighteen laps to the mile.

The Wilson Swimming Pool was presented by Mrs. Newton R. Wilson, a friend of the University, whose interest in Physical Education and Athletics is expressed by this splendid gift to the University. The pool is housed in a building to the north of Francis Gymnasium, with which it is connected by a corridor. The pool itself is 75 feet long and 36 feet wide. The depth of the water runs from $3\frac{1}{2}$ feet at the shallow end to 9 feet at the deep end. The pool building is provided with the best and most modern equipment obtainable. It is constructed with women's quarters at one end and men's quarters at the other, making it possible for both the men and women of the University to use the pool. The building provides seating capacity for nearly 1,000 persons, thus furnishing ample space for the spectators who will attend swimming meets and exhibitions.

The Field House, completed in January, 1926, is connected by passageways with Francis Gymnasium and the Wilson Pool and with them forms the largest single gymnasium unit in the country. The Field House was built primarily for intercollegiate basket-ball and when used for this purpose has a seating capacity of 8,000. It has a removable stage at one end of the building and when used as an auditorium the seating capacity is 10,000. There are three basket-ball courts, a ten-lap track, several jumping pits, and a baseball cage in the building. The Field House is so constructed that it may be enlarged to twice its present size.
Francis Field is well known as one of the finest athletic fields in the country. The concrete grand stand has a seating capacity of 10,000. Excellent tennis courts adjoin the field.

McMillan Hall contains the women’s gymnasium. It is equipped with the most modern kinds of apparatus, lockers, and baths.

A splendid athletic field is provided for women’s athletics, and the entire work is given out of doors, when the weather permits. Intramural tournaments are held in field-hockey, soccer, basketball, tennis, track, baseball, volley-ball, and swimming.

UNIVERSITY HEALTH SERVICE

All students in degree conferring departments are required to take a medical examination to be made by the Resident Physician and representatives of the Washington University School of Medicine.

Consultation, diagnosis, and treatment for injuries and acute or emergency conditions will be provided by a Resident Physician and Resident Nurse on the campus. Treatment for such conditions will be furnished without charge on the campus and at the Dispensary of the Washington University School of Medicine. Vaccination for smallpox, typhoid and other diseases will be offered.

For the Health Service thus outlined a charge of $2.00 per year for each student registering in degree conferring departments will be required, payable at time of registration for the first semester.

WASHINGTON UNIVERSITY STUDENTS LOAN AND SCHOLARSHIP ASSOCIATION

The purpose of this Association is to provide scholarships in all degree conferring departments of the University for worthy students. The award covers tuition only and does not include fees such as matriculation, laboratory, and other charges. The grant is in the nature of a loan and the student is asked to repay the sum awarded at some later date when it can be done without serious burden. It is expected that the funds of the Association will be perpetuated in this way, and be continually available to aid
deserving students. Application for aid from the fund should be made to the President of the Association. Awards may be granted both at the beginning of the year and at mid-year. Information may be obtained through the Alumni Office at the University.

WASHINGTON UNIVERSITY MEDICAL ALUMNI ASSOCIATION
LOAN FUND

The Washington University Medical Alumni Association has a loan fund and awards are made to worthy medical students upon application to the Chairman of the Committee on Loans and Scholarships of the School of Medicine or to the President of the Medical Alumni Association.

REQUIREMENTS FOR ADMISSION TO SCHOOL
OF MEDICINE

The first year class is limited to eighty-two students. Since the number of applicants considerably exceeds the number who can be accommodated, those applicants are selected for acceptance who, on the basis of scholarship and other qualities, appear best fitted to take up the study of medicine. Applications for admission should be filed at as early a date as possible, and under all circumstances before June 10th of the year during which admission is sought. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within two weeks after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be returnable.

If a new student does not register on one of the days set aside for that purpose his place in the class may be given to some other applicant.

Students may be admitted to the first-year class on compliance with the following requirements:

(1) The completion of college courses equivalent or approximately equivalent to those given in leading colleges or universities, leading to a Bachelor's degree. The college work must have included not less than the equivalent of 6 semester hours of
English, 10 of German or French*, 12 of Chemistry (8 in general inorganic and 4 in organic), 8 of General Physics and 8 of Biology.

(2) The completion of college courses in an acceptable college or university of a total equivalent to not less than 90 semester hours, and including not less than 10 semester hours of English, 10 of German or French*, 15 of Chemistry (including elementary quantitative analysis and organic chemistry), 8 of General Physics and 8 of Biology.

Students accepted on this basis may receive the degree of Bachelor of Science in Medical Science after satisfactory completion of all required courses of the first and second years in the School of Medicine, and after the satisfactory conduct of an investigation in one of the medical sciences, and the preparation of an acceptable thesis which must be presented to the head of the department concerned by May 1st of the year the student is a candidate for the degree. Compliance with the last requirement for this degree will not usually be attained before the end of the third or fourth year.

The college courses pursued by students intending to take up the study of medicine should include the following:

**English.** Two years of English, covering composition and rhetoric and English literature.

**German or French.** It is highly desirable, if not essential, that students of medicine have such acquaintance with French and German as to enable them to read medical and scientific publications in these languages. Courses extending through two years are usually necessary to acquire a reading knowledge of either language.

**Physics.** A course in general physics, including laboratory work, which should be largely quantitative in character.

**Chemistry.** General inorganic chemistry and organic chemistry are required. A course in elementary quantitative analysis

*In the case of students who present high school credits in French or German for entrance to college, the following college credits will be accepted, provided the college courses are in continuation of and do not duplicate the high school work:

Eight semester hours following one high school unit, six semester hours following two high school units, and four semester hours following three high school units.*
is essential and a course in elementary physical chemistry is strongly recommended.

Biology (Zoölogy, and Botany). Courses in general biology, covering a study of the structure, functions, and life history of selected types of animal and plant life. Unless these courses include embryology, a separate course in this subject should be taken.

Formal 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 the college which he has attended to send directly to the Registrar a statement of honorable dismissal, and complete official transcripts of high school and college credits, including the names and dates of all courses in which he has been enrolled, with the grades and credit received in each course. To aid in judging the fitness of an applicant, personal letters to the Dean from the student's science instructors, giving estimates of his ability, character, and personality, should also be submitted.

ADMISSION TO ADVANCED STANDING

Applications for advanced standing will be considered only insofar as there are vacancies in the advanced classes. Applications for advanced standing should be filed at as early a date as possible, and under all circumstances before June 10 of the year during which admission is sought. Only those students who have unconditional standing in the medical schools from which they seek to be accredited will be accepted for admission to advanced classes. An applicant acceptable to the faculty is required to make a deposit of fifty dollars, which shall be in the hands of the Registrar within two weeks after notification of acceptance. This deposit of fifty dollars will be applied toward the first payment of tuition, and will not be returnable.

Applicants for admission to advanced standing (1) must furnish evidence that the foregoing terms of admission in regard to preliminary training have been fulfilled; (2) 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 (3) must satis-
factorily pass examinations in those subjects in the work for which they have asked credit. These examinations may be waived at the discretion of the instructor in charge of the corresponding course. The applicant 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 admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology may be admitted to the second year class without examination, but, at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school credits in anatomy, chemistry, physiology, bacteriology, clinical chemistry and microscopy, pathology, and pharmacology may be permitted to enter the third year class, but no student may enter with a condition in any of these subjects. At the discretion of instructors, such students may be examined in any of these subjects at the end of the third year. (c) Students who have received credit from an approved medical school for all required courses given in this school in the first, second, and third years may be admitted to the fourth year class without examination, but all such students at the end of the year may be required to pass examinations covering any or all of the courses of the first, second, or third, as well as of the fourth year.

Graduates of other medical schools, who are permitted to enter this School with advanced standing as candidates for the degree, are required (a) to pay the fees charged for the years in which they are in attendance, and (b) to fulfill the requirements for graduation, as stated in this announcement.

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

ADMISSION OF GRADUATES IN MEDICINE

Graduate students may be admitted to the School on the following basis: (1) Those who may be qualified to participate in
definite investigation, under the direction of a member of the staff, may, upon the written recommendation of the instructor in charge, endorsed by the head of the department, be accepted by the Faculty as volunteer research assistants and will not be charged fees. (2) Visiting graduates may, with the consent of the heads of the departments concerned, take special work in one or more departments without paying fees. (3) 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. (4) A number of special courses are being offered concerning which full information will be given upon request. (See pp. 120 ff.)

STANDING AND PROMOTION

To enter any course, the student must have fulfilled the prerequisites of that course, as announced in the catalogue.

Examinations to determine standing and promotion will be held at the close of each academic year.

Students who at the end of the first or second year have recorded against them failures in any two of the following subjects, dissection, histology with neurology, physiology, biological chemistry, medicine 5 (clinical chemistry and microscopy), pathology, or bacteriology, will be required to withdraw from the School; or, under exceptional circumstances, the student may be allowed, instead, to pursue during one, two, or three trimesters additional work in the subjects in which he is deficient before being admitted to the next class.

To enter the third year, a student must have received credit for all of the courses named above.

A student who at the end of the third year has failed in any two of the following subjects, physical diagnosis, medicine 4, pharmacology, surgery 2, surgical pathology, surgery 3, or obstetrics 1, will be required to withdraw from the School, or may be required to do additional work as above stated.

To enter the fourth year, a student must have received credit for all of the subjects named above.
A student who, because of poor quality of work in courses or for any other reason, is judged by the Faculty as unfit for the practice of medicine, will be required to withdraw. A weighted average in any one year of less than 75 ordinarily will be regarded as indicative of unsatisfactory work.

The minimum time in which the courses required for the degree of Doctor of Medicine can be taken is four years.

Graduates of Washington University School of Medicine are exempt from the first and second examinations of the Conjoint Board of the Royal College of Physicians of London and the Royal College of Surgeons of England.

REQUIREMENTS FOR GRADUATION

The 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 medical instruction as matriculated medical students, the last of which has been in this School. They must have taken all obligatory courses offered here, or their equivalent, and have received a satisfactory grade in the work of the entire four years. They must have discharged all indebtedness to the School, and must be present when the degree is conferred.

At the end of the fourth year every student who has fulfilled these requirements will be recommended for the degree of Doctor of Medicine.

HOSPITAL APPOINTMENTS

In the first trimester of the year, internes for the Barnes Hospital, St. Louis Children's Hospital, and the St. Louis Maternity Hospital are selected by the School of Medicine.

Except in the Department of Medicine, the services begin July 1st and are for one year. For 1927-28, these services are as follows:

Barnes Hospital
Medical Service, six positions.
Surgical Service, seven positions.

St. Louis Children's Hospital
Pediatric Service, five positions.

St. Louis Maternity Hospital
Obstetrical Service, 6 positions.
In the Department of Medicine the service is for eighteen months. Three internes are appointed for July 1st and three for January 1st.

Appointments to these positions are in general made from members of the fourth year class of the School of Medicine on the basis of class standing, but occasionally students from other medical schools are appointed. Appointees to the St. Louis Children's Hospital are required to complete one year's internship in an approved hospital, or at least a year in other acceptable clinical or scientific work before beginning service in the hospital.

About seventy other appointments are made each year to internships in the various hospitals of St. Louis not connected with the University. The fourth year students and graduates of this School may compete with those of other schools for these positions, which are filled upon the basis of examinations conducted by the respective boards of the hospitals.

PRIZES

Two George F. Gill Prizes are offered to the students of the School, viz.:

1. One prize of fifty dollars to be awarded at the end of the first year to the member of the class who shall have made the highest grade in anatomical work.

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

A prize of twenty-five dollars is offered by the Alpha Omega Alpha Fraternity, to be awarded at the end of the second year to the member of that class who shall have made the highest general average for the first two years.

Winners of Prizes and Honors, 1926-27

Gill Prize in Anatomy
William Howell Ellett, A.B.

Gill Prize in Diseases of Children
Minnola Stallings, A.B.
FELLOWSHIPS, STUDENT ASSISTANTSHIPS, AND SCHOLARSHIPS

A Surgical Fellowship has been established in the Department of Surgery for special neurological work. The income of this fellowship is $1,200.00 per year. Candidates for this fellowship must be graduates in medicine. Applicants who have had one year's internship are preferred.

Student Assistantships are open in a number of departments in the school. Information concerning these can be obtained from the heads of the departments concerned.

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 the Scholarship, namely, $100.00.

The Alumni Scholarship Award of $100 to be applied on the payment of the tuition fee is given for excellence in work during the scholastic year on the recommendation of the Committee on Loans and Scholarships of the School of Medicine and the President of the Medical Alumni Association.

The Dr. John B. Shapleigh Scholarship. Through the bequest of the late Dr. John B. Shapleigh, supplemented by contributions of Mrs. John B. Shapleigh and Miss Margaret Shapleigh, the annual income from $7,000, amounting to $350, is used to pay the tuition of students who may be in need of assistance while attending the Washington University School of Medicine. The selection of the students to receive the benefit of such sum and the amount awarded such students are determined by the Chancellor of the University on the recommendation of the Dean and the Executive Faculty of the School of Medicine.

Applications for these scholarships should be filed with the Registrar.

REGISTRATION

Registration for the first half year, 1928-29, is scheduled for Thursday, September 20, through Saturday, September 22, 1928; for the second half year, Friday and Saturday, February 1 and 2, 1929. Hours for registration are 9 to 11:30 and 2 to 5 daily, except Saturday; Saturday, 9 to 1.
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 as to the next instalment for payment due from the student.

**Matriculation Fee**

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

**Tuition Fee**

The tuition fee is $350.00, payable in two equal instalments, at the beginning of the first and second half years.

**Breakage Deposit**

Each student is required to deposit $10.00 annually to cover breakage in the School of Medicine, dispensary and hospitals. For work in the School, dispensary, and hospitals students are expected to supply themselves with the following: stethoscope, ophthalmoscope, percussion hammer, tape measure, flashlight, head mirror, and skin pencil. 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. There are no other laboratory fees.

**University Health Service**

A fee of $2.00 annually is charged each student for medical health service.

**Student Activities Fee**

A fee of $7.00 a year, payable in two instalments, is charged for the support of athletics. Tickets may be secured for other student activities on payment of $3.00 additional.

**Diploma Fee**

At the completion of the course, a diploma fee of $5.00 is charged, payable before Commencement.

All fees and charges are payable in advance at the office of the Treasurer in University Hall, or at the office of the Registrar of the School of Medicine. No rebate of the tuition fee can be
made for absence, whether such absence occurs at the beginning, middle, or end of the half year, except in cases of prolonged illness certified to by a physician.

Checks should be made payable to Washington University.

Microscopes

Students are required to furnish their own microscopes. The School does not sell microscopes, but students may purchase them from any one of several dealers in St. Louis.

**ESTIMATE OF EXPENSES**

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

- Tuition ........................................ $350.00
- Breakage Deposit ......................... 10.00
- Matriculation Fee (payable once) ....... 5.00
- Health Service Fee ....................... 2.00
- Student Activities Fee ........... $ 7.00 or 10.00
- Books ........................................ $50.00 to 100.00
- Microscope, part payment (payable three times), about ................. 45.00
- Room and Board (from $10.00 to $15.00 a week) ......................... $350.00 to 500.00

Total, excluding clothes and incidentals............... $819.00 to $1,022.00

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

A dormitory building containing rooms for about sixty students is located on Forest Park Boulevard, in close proximity to Forest Park, one of the most attractive localities in the city. There is a tennis court in the rear of the building, and there are public golf links, tennis courts and baseball grounds in Forest Park. Each room is furnished with the following articles: a bed and mattress, one pillow, one table, two chairs, one chifforobe, costume, toilet cabinet, student’s lamp, two small rugs. Each occupant must furnish his own bed covering, consisting of sheets, pillow cases, counterpanes, and blankets.
The rental of a room is $120.00 an academic year, payable in two instalments in advance, at the beginning of the first trimester and on February 1. Reservations are made upon the express understanding that the applicant agrees to occupy the room reserved until the close of the ensuing academic year. Application for reservation should be made to the Registrar of the School of Medicine, and must be accompanied by a reservation fee of $10.00. This fee will be returned, should the room not be assigned, but it will not be refunded for any other reason. If a room is assigned, the fee will not apply on the room rent, but will be held by the University to cover losses resulting from possible damage to the room or to the furniture. Any portion not so used will be refunded.
GENERAL PLAN OF INSTRUCTION

Instruction in the School of Medicine is given to candidates for the degree of Doctor of Medicine and to graduate students 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 extends over a period of at least four academic years, and is designed for students who have already received certain preliminary training. As stated in detail on pp. 74 ff., the student on entering the School must have completed at least three years of college work, which includes a knowledge of chemistry, physics, biology, English and either German or French.

The academic year, extending from the last week of September to the first week in June, is divided into either semesters or trimesters. The required work keeps the student occupied for about thirty hours each week, and demands outside preparation. As far as possible the work is so arranged as to leave free several half days each week, during which time those students who profitably can are encouraged to take extra work in the subjects of their greatest interest. To meet this demand, suitable optional courses are offered by each department in the School.

The curriculum, covering four years, is 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 whole interest of the student is concentrated 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 semester of this year, the study of physiology begins. During the first trimester of the second year physiology and bacteriology are completed; and during the remainder of the year the major portions of 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.

The second period, extending through the last two years, is devoted primarily to clinical work. For the first half of this period, the student receives practical clinical instruction in the out-patient departments of medicine, surgery, and obstetrics, and attends clinics, lectures, and recitations in the clinical subjects. The work in the out-patient departments occupies from 6 to 8 hours per week. Patients are examined by the student and treated under the direction of the attending staff. During the second half of this period, the students are assigned to the various wards of the hospitals, and each section of the class serves a full trimester in the wards of medicine, surgery, and obstetrics and pediatrics, respectively. During the second period courses are given in neurological pathology, surgical and gynecological pathology, and operative surgery on animals. Special emphasis is placed upon diagnosis and treatment of patients. There are few purely didactic lectures. Instruction is given at clinics and at the bedside. Clinical work in the specialties is confined to the second half of the second period.

In the fourth year, in addition to the studies prescribed, the student is required to gain credit for 300 hours in elective work. Students may devote this time to clinical courses in the out-patient department or avail themselves of the opportunity to further any special interest they may have in any one of the fundamental sciences or clinical subjects. For detailed statement and schedule of elective courses, see pp. 134 ff.

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, dispensary work, or other required courses during the summer months.
### SUMMARY OF THE MEDICAL CURRICULUM, 1927-28

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissection</td>
<td>408</td>
</tr>
<tr>
<td>Histology</td>
<td>198</td>
</tr>
<tr>
<td>Neuroanatomy</td>
<td>110</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>277</td>
</tr>
<tr>
<td>Physiology</td>
<td>69</td>
</tr>
<tr>
<td>Military Science</td>
<td>(33)</td>
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</table>

Total, excluding M. S. & T.: 1057

#### SECOND YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Physiology</td>
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<tr>
<td>Bacteriology</td>
<td>121</td>
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<tr>
<td>Immunology</td>
<td>44</td>
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<tr>
<td>Pathology</td>
<td>330</td>
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<tr>
<td>Pharmacology</td>
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<tr>
<td>Medicine</td>
<td>176</td>
</tr>
<tr>
<td>Surgery</td>
<td>55</td>
</tr>
<tr>
<td>Military Science</td>
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Total, excluding M. S. & T.: 1023

#### THIRD YEAR

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<tr>
<td>Medicine</td>
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<tr>
<td>Neurology</td>
<td>66</td>
</tr>
<tr>
<td>Dermatology</td>
<td>11</td>
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<tr>
<td>Surgery</td>
<td>303</td>
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<tr>
<td>Gynecology</td>
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<tr>
<td>Ophthalmology</td>
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<tr>
<td>Oto-Laryngology</td>
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<tr>
<td>Obstetrics</td>
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<tr>
<td>Pediatrics</td>
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<tr>
<td>Pharmacology</td>
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<td>Public Health</td>
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<tr>
<td>Medical Jurisprudence</td>
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<tr>
<td>Stomatology</td>
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<td>Military Science</td>
<td>(33)</td>
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</table>

#### FOURTH YEAR

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<th>Hours</th>
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<tr>
<td>Medicine</td>
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<tr>
<td>Neurology</td>
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<tr>
<td>Surgery</td>
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<td>Gynecology</td>
<td>33</td>
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<tr>
<td>Obstetrics</td>
<td>44*</td>
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<tr>
<td>Pediatrics</td>
<td>66</td>
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<tr>
<td>Ophthalmoscopy</td>
<td>12</td>
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<tr>
<td>Military Science</td>
<td>(33)</td>
</tr>
</tbody>
</table>

Total, excluding M. S. & T.: 705\*

*In addition, each student is required to attend twelve deliveries.

\* A total of 300 hours of elective work taken throughout the year is required, as described on the preceding page.
COURSES OF INSTRUCTION

ANATOMY

Robert J. Terry, M.D. . . . Professor of Anatomy
Edmund V. Cowdry, Ph.D.* . Professor of Cytology
Mildred Trotter, Ph.D. . . . Assistant Professor of Anatomy
Gordon H. Scott, Ph.D.* . Assistant Professor of Cytology
Edward V. Mastin, M.D. . . Instructor in Anatomy
Leith H. Slocumb, M.D. . . Instructor in Anatomy
Caroline E. Whitney, M.D. . Instructor in Anatomy
George D. Williams, M.D. . Instructor in Anatomy
Cecil M. Charles, A.B. . . . Assistant in Anatomy
William F. Ossenfort, B.S. . Student Assistant in Anatomy
George A. Seib, A.B. . . . Student Assistant in Anatomy
William H. Ellett, A.B. . . Student Assistant in Anatomy
Donald F. Robertson, A.M. . Student Assistant in Anatomy

First Year

6. Human Dissection. The course offers opportunity for the systematic study of the gross structure of the human body. Each student is provided with material for the preparation and study of the muscles, joints, and skeleton; the viscera; the vascular system and peripheral nerves. Lectures, demonstrations, and recitations serving to emphasize and correlate the observations made in the laboratory follow the practical work. Dissection 12 hours a week in the first trimester; 9 hours in the second and third. Lectures twice a week throughout the year. 403 hours.

Professor Terry and the members of the Staff.

Third Year

9. Applied Anatomy. This course is intended to provide a review of regions and structures with reference to application of anatomical training and knowledge in the practice of medicine. Lectures and demonstrations two hours during the second trimester. 22 hours.

Dr. Mastin

* Beginning July 1, 1928.
OPTIONAL AND ELECTIVE COURSES

8. 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 for study. Hours to be arranged. Dr. Slocumb

11. Advanced Study and Research in Anatomy. Opportunity is offered, especially for graduates in medicine, for intensive laboratory study of surgical regions. Investigation in anatomy may be carried on both in the School of Medicine and in the School of Graduate Studies. Hours to be arranged.

Professor Terry, Professor Trotter

12. Journal Club. Conducted jointly by the Departments of Anatomy and Histology and Neuroanatomy for the discussion of current anatomical literature. Twice a month throughout the year.

Graduate Courses in Anatomy. See Bulletin of Washington University, School of Graduate Studies.

HISTOLOGY AND NEUROANATOMY

Stephen Walter Ranson, M.D., Ph.D.* Professor of Neuroanatomy
Joseph C. Hinsey, Ph.D.* Assistant Professor of Histology and Neuroanatomy
Harold A. Davenport, M.D.* Instructor in Histology and Neuroanatomy
Helen Davenport, A.B.* Assistant in Histology and Neuroanatomy
Henry H. Dixon Student Assistant in Histology and Neuroanatomy

First Year

1. Histology. A laboratory course in microscopic anatomy occupying five mornings a week during the first trimester. The first four weeks are devoted to a study of the cell and the ele-

* Resigned February 1, 1928.
mentary tissues, and to a review of general embryology. This is followed by a detailed study of the microscopic anatomy of the viscera and a review of the development of the several systems. Each laboratory period is preceded by a short introductory talk illustrated with lantern slides. Weekly conferences are held to supplement and coordinate the work. Each student is provided with a loan collection of selected preparations and has access to a collection of reference slides. 205 hours.

Professor Hinsey, Dr. Davenport, Mrs. Davenport

2. **Neuroanatomy.** A laboratory course in the gross and microscopic anatomy of the brain and spinal cord occupying six mornings a week during the first half of the second trimester. Each laboratory period is preceded by a short illustrated lecture on the subjects to be studied in the laboratory, and a conference is held once each week. The subject is considered from the standpoint of development and function and the basis is laid for a close correlation of neuroanatomy with physiologic and clinical neurology. Each student is provided with a loan collection of sections through selected regions of the brain and spinal cord and with abundant material for dissection. 110 hours.

Professor Ranson, Professor Hinsey, Dr. Davenport, Mrs. Davenport

**Elective Courses**

3. **Advanced Work in Histology, Embryology, and Neurology.** A study of the literature on certain selected problems, and laboratory work, including the preparation of material for microscopic study. Hours to be arranged.

5. **Research.** Properly qualified students will be given opportunity to carry on investigations in the fields of Histology, Embryology, and Neurology.

6. **Journal Club.** Conducted jointly by the Departments of Anatomy and Histology and Neuroanatomy for the discussion of current anatomical literature. Twice a month throughout the year.

7. **Seminar.** Problems under investigation in the laboratory are discussed. The literature on these and related topics is analyzed and summarized. Twice a month during the second semester.
THE SCHOOL OF MEDICINE.

BIOLOGICAL CHEMISTRY

Philip A. Shaffer, Ph.D. . . . Professor of Biological Chemistry
Edward S. West, Ph.D. . . . Assistant Professor of Biological Chemistry
Ethel Ronzoni, Ph.D. . . . Instructor in Biological Chemistry
Theodore E. Friedemann, Ph.D.* Instructor in Biological Chemistry
Irene Koechig, A.M. . . . Assistant in Biological Chemistry
Ben King Harned, M.S. . . . Assistant in Biological Chemistry
Vernon L. Peterson . . . Student Assistant in Biological Chemistry
Frederick H. Scharles . . . Student Assistant in Biological Chemistry

Fellow
Noboru Ariyama, M.D. . . . Research Fellow in Biological Chemistry

First Year

8. BIOLOGICAL CHEMISTRY. A systematic course of lectures, recitations, conferences, and laboratory work covering those portions of the subject which are of the greatest importance to the student of medicine. The laboratory work includes detailed study of the chemistry of fats, carbohydrates, and proteins; the analysis of the more important animal tissues and fluids; a study of the action of enzymes; the conduct of metabolism experiments by the student upon himself, as illustrating some of the principles of nutrition; a study of the composition of important foods; and extended practice in chemical technique. During the latter part of the course, after reading the published records of original investigations, each student prepares a thesis upon a selected topic. So far as time permits, the theses are presented to the class for discussion. Prerequisite: courses in inorganic and organic chemistry and quantitative analysis. Second semester,

* Resigned February 1, 1928.
lectures and recitations five hours, and laboratory eleven hours a week. Lectures and recitations 85 hours, laboratory 187 hours. Professor Shaffer, Professor West, Dr. Ronzoni, Mr. Harned

Elective Courses

4. Advanced Work. Courses of laboratory work and selected reading in biological chemistry will be arranged to suit individual needs.

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

6. Journal Club. Conducted jointly by the Departments of Physiology, Pharmacology, and Biological Chemistry. Meetings at which papers of current journals are presented and discussed. Open to students who have credit in physiology or biological chemistry. Once a week throughout the year.

PHYSIOLOGY
Joseph Erlanger, M.D. Professor of Physiology
George H. Bishop, Ph.D. Associate Professor of Physiology
H. Lester White, M.D. Associate Professor of Physiology
Arthur S. Gilson, Jr., Ph.D. Instructor in Physiology

Fellow
Peter Heinbecker, M.D. Research Fellow in Physiology

First and Second Years

2. Physiology. Lectures. This course is designed especially to meet the needs of students of medicine, but is open to properly prepared graduate students. It consists of lectures, demonstrations and recitations covering systematically the field of human physiology. As far as practicable the lectures are descriptive of experiments demonstrated in the lecture room. Free use is made of charts, models, lantern slides, and records for the purpose of bringing to the attention of the student the experimental basis of those phases of the subject that do not lend themselves readily to experimental demonstration. Weekly recitations are held upon the subject matter of the lectures. The lectures begin in the second semester of the first year and are continued during the
first trimester of the second year. Properly prepared graduate students and, under exceptional circumstances, medical students, will be permitted to begin the course at the opening of the college year. The course is so arranged that students are enabled to acquire some knowledge of anatomy, embryology, histology, neurology, and biological chemistry before the physiological aspects of the related topics are considered. The following subjects are covered in the lectures: muscle and nerve, central nervous system, senses, blood, circulation, respiration, secretion, digestion, nutrition, and reproduction. Only those students will be admitted to the course who have completed or have begun the study of anatomy and biological chemistry. 113 hours.

Professor Erlanger, Professor Bishop, Professor White, Dr. Gilson

Second Year

8. Physiology. Laboratory Course. This course must be taken in conjunction with Physiology 2. The experiments are so arranged as to serve at one and the same time to illustrate fundamental principles of physiology and to familiarize the student with the more important bio-physical methods employed in experimental physiology and medicine. The class works in groups of two. Each group has its individual table, which is supplied with all the apparatus necessary for the performance of the general experiments. To the groups is assigned in rotation the apparatus needed for the performance of special experiments. As far as practicable the students serve as subjects of the special experiments and study upon themselves by quantitative methods certain phases of the physiology of muscle and nerve, and of the circulation, respiration, central nervous system, and sense organs. The instruction in the laboratory is largely individual. Weekly conferences are held for the discussion and correlation of the experimental data. First trimester. 143 hours.

Professor Erlanger, Professor Bishop, Professor White, Dr. Gilson

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 Courses 2 and 3. 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.

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, Physiology, and Pharmacology, meets once a week for the discussion of papers of physiological interest appearing in the current journals. This course is open to properly prepared students only. Once a week throughout the year.

DEPARTMENT OF BACTERIOLOGY AND PUBLIC HEALTH

Arthur Isaac Kendall, Ph.D., Dr.P.H.* . . . . . . Professor of Bacteriology and Public Health
Jacques J. Bronfenbrenner, Ph.D., Dr.P.H.† . . . . . . Professor of Bacteriology and Immunology
Kenneth L. Burdon, Ph.D. . . Instructor in Bacteriology and Public Health
Margaret Frances Upton, Ph.D. . . . . . . . . Instructor in Bacteriology and Public Health
Philip L. Varney, M.S. . . . Instructor in Bacteriology and Public Health
Mitsuteru Ishikawa, M.D.* . . Assistant in Bacteriology and Public Health
Horace R. Skinner . . . . . . Student Assistant in Bacteriology and Public Health
Grace Edwards, B.S. . . . . Student Assistant in Bacteriology and Public Health

* Resigned February 1, 1928.
† Beginning July 1, 1928.
Second Year

1. Bacteriology. Lectures and Laboratory. This course embraces a survey of the field of bacteriology from the biological point of view. The metabolism of bacteria and its relation to toxin production, infection, and morbid processes is given special attention.

In the laboratory the methods of morphological and cultural recognition of bacteria are emphasized. Eleven hours a week the first trimester. 121 hours.

Professor Kendall, Dr. Burdon, Dr. Upton, Mr. Varney

2. Infection and Immunity. Lectures on the nature of infection and immunity. The changes which occur in blood as the result of immunization will be studied in the laboratory. Students will perform reactions which demonstrate the existence of antibody and complement, precipitins, and other substances; they will determine the strength of agglutinating sera, and will study the serum reactions used for the diagnosis of syphilis. One lecture and three hours of laboratory work each week during the second trimester. 44 hours.

Professor Kendall, Dr. Burdon, Dr. Upton, Mr. Varney

Third Year

3. Public Health. Lectures upon the transmission and modes of infection of infectious diseases, personal hygiene, sanitation, and other subjects bearing upon the maintenance of public health are given twice a week the first trimester and once a week the second trimester. 33 hours. Professor Kendall

Elective Courses

4. Research. The facilities of the laboratory are open to those properly qualified for research in Bacteriology, Immunology, and Public Health. Professor Kendall and Staff

PATHOLOGY

Leo Loeb, M.D. . . . . . . Edward Mallinckrodt Professor of Pathology
Samuel H. Gray, M.D. . . . Assistant Professor of Pathology
Howard A. McCordock, M.D. . Assistant Professor of Pathology
Second Year

1. Pathology. Prerequisite courses for pathology are represented by the required work in anatomy, biological chemistry, and bacteriology. Students in the School of Graduate Studies whose major work lies in biology may elect pathology as a minor at the discretion of the department concerned. The course is subdivided as follows:

(a) Lectures and Laboratory Work. Instruction includes lectures, demonstrations, recitations, discussion of recent literature, and work in the laboratory. General pathology will be taught by lectures and demonstrations given in association with the study of the gross and histological characters of lesions together with experiments performed by the student. Pathological histology will be studied by means of sections stained for microscopic examination by the student, supplemented by specially prepared specimens which are loaned; students are urged to describe and to draw the lesions they find. Some familiarity with the literature of pathology will be obtained by reports upon special topics made by members of the class during one hour each week in the second trimester. Lectures and laboratory work, eleven hours a week in the second trimester and thirteen hours in the third trimester. 275 hours.

Professor Loeb, Professor McCordock, Professor Gray,

Dr. Siebert

(b) Recitations. The work of each week is reviewed by recitations, in which effort is made to determine how accurately the student has grasped the subjects studied in the laboratory. Two hours a week in the second trimester and one hour a week in the third trimester. 33 hours.

Professor Loeb

* July 1, 1927, to January 1, 1928.
(c) **Conduct of Autopsies.** Students are instructed in the methods of postmortem examination, and in small groups attend autopsies, participate in the microscopic study of the specimens and prepare records of the autopsies.

**Professor McCordock, Professor Gray, Dr. Siebert**

**Second and Third Years**

1. **Gross Pathology.** Fresh pathological tissues are demonstrated to the class divided into small sections, and students study by personal contact the lesions which occur. Fresh material is supplemented by organs preserved as museum specimens. By means of sections prepared by freezing, the relation of gross to histological changes is defined. Two hours once a week during the third trimester of the second year and two hours once a week during the first trimester of the third year. 44 hours.

**Professor McCordock, Professor Gray, Dr. Siebert**

**Third and Fourth Years**

2. **Clinical and Pathological Conference.** The clinical history and treatment of patients who have died is discussed before the class by the physicians and surgeons of the departments concerned. The specimens and microscopical slides from the corresponding autopsies are reviewed with reference to the clinical histories. The important gross and microscopical lesions are illustrated by lantern slides. One hour a week during five trimesters. 55 hours.

**Professor McCordock, Professor Gray, Dr. Siebert**

**Elective Courses**

3. **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.

4. **Seminar of the Staff** for the discussion of Research. A limited number of students can be admitted. Two hours weekly.
THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

Herbert S. Gasser, M.D. . . . Professor of Pharmacology
Charles M. M. Gruber,
Ph.D., M.D. . . . . . Associate Professor of Pharmacology
Helen Tredway Graham,
Ph.D. . . . . . . Assistant in Pharmacology

Second and Third Years

1. Pharmacology. (a) Lectures, recitations, and demonstrations covering the general field of pharmacology. The action of each of the chief medicinal drugs on the individual organs or functions of the body is studied in detail, the subject matter of the lectures being correlated with the work of the laboratory. Attention is given to the methods of diagnosis and treatment of poisoning by the commoner drugs. The application of pharmacological principles to clinical medicine is emphasized. Students are required to familiarize themselves with prescription writing and the dosage of the more important preparations. Prerequisite, Anatomy, Biological Chemistry, and Physiology 2 and 3. Courses (a) and (b) are required of medical students, but course (a) may be taken alone by special students. Four hours a week during the second trimester of the second year and one hour a week during the second and third trimesters of the third year. 66 hours.

Professor Gasser, Professor Gruber

(b) Laboratory Course. Students work in small groups and complete sets of apparatus for the individual experiments are supplied to each group of students. The course is arranged to demonstrate the pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental pharmacology. The chemical reactions of groups of drugs and important compounds are studied briefly. Complete records of each experiment, giving all the data which do not lend themselves readily to graphic methods, are kept by the students and filed together with the tracings in permanent note books. Six hours a week during the second trimester of the second year. 66 hours.

Professor Gasser, Professor Gruber
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 arranged.

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

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE*

(The Department of Medicine includes Internal Medicine, Neurology and Psychiatry, and Dermatology.)

David P. Barr, M.D. . . . . Busch Professor of Medicine
Harry L. Alexander, M.D. . Associate Professor of Medicine
Frank H. Ewerhardt, M.D. . Assistant Professor of Physical Therapeutics
Harold A. Bulger, M.D. . . Assistant Professor of Medicine
John V. Lawrence, M.D. . . Assistant Professor of Medicine
Francis M. Smith, M.D.† . Instructor in Medicine
Ethel Ronzoni, Ph.D. . . . Chemist in Medicine
George E. Nesche, M.D. . . Assistant in Medicine
Richard Norton, M.D. . . . Assistant in Medicine
Charles W. Duden, M.D.‡ . Assistant in Medicine
Byron F. Francis, M.D.‡ . Assistant in Medicine
Stanley S. Fischer, B.S. . Student Assistant in Medicine
Edward W. Grove, B.S. . Student Assistant in Medicine
John S. Harter . . . . . . . Student Assistant in Medicine
David M. Skilling, Jr., B.S. . Student Assistant in Medicine

Elsworth S. Smith, M.D. . . Professor of Clinical Medicine
Albert E. Taussig, M.D. . . Associate Professor of Clinical Medicine
Warren P. Elmer, M.D. . . Associate Professor of Clinical Medicine

* The names before the break in the column are those of the full-time staff.
† Resigned, January 1, 1928.
‡ Effective January 1, 1928.
Second Year

1. ELEMENTARY MEDICINE. The course is composed of the following subdivisions:

(a) Introductory Clinic. The observation and interpretation of symptoms and signs in ward and dispensary patients with special reference to pathological physiology and anatomy and their
relation to diagnosis. One hour a week during the second and third trimesters. 22 hours.

Professor Barr, Professor Schwab

(b) Recitations in Medicine. Based on reading assigned in a correlation with the Introductory Clinic. One hour a week during the second and third trimesters. 22 hours.

Dr. Francis, Dr. Bromberg

2. PHYSICAL DIAGNOSIS. Lectures, demonstrations, and practical exercises in the technique of physical diagnosis and in the interpretation of the signs elicited by inspection, palpation, percussion and auscultation in health. Four hours a week during the second trimester. 44 hours.

Professor Elmer, Professor Lawrence, Dr. Nesche, Dr. Norton, Dr. Duden

3. ABNORMAL PHYSICAL DIAGNOSIS. Lectures, demonstrations, and practical exercises in the technique of physical examination of the patient. Three hours a week during the third trimester. 33 hours.

Professor Lawrence

Second and Third Years

5. CLINICAL CHEMISTRY AND MICROSCOPY. A series of lectures and a laboratory course in methods of microscopic and chemical diagnosis. The subjects are the urine, blood, stomach contents, sputum, feces and puncture fluids. Material is obtained from cases in the hospital and dispensaries. Considerable reading is required outside of laboratory hours. Five hours a week during the third trimester of the second year and three hours a week during the first trimester of the third year. 88 hours.

Dr. Thompson, Dr. Heideman, Dr. Nesche, Dr. Norton

Third Year

4. ABNORMAL PHYSICAL DIAGNOSIS. Practical training in the physical methods of diagnosis. The class is subdivided into small groups and each group studies patients in the hospital wards. Two hours a week for one trimester. 22 hours.

Dr. Campbell, Dr. Grant, Dr. Andrews, Dr. Becke

6. MEDICAL DISPENSARY. One-third of the class in the medical dispensary during each trimester. This group is subdivided and
the sub-groups rotate through the general medical, gastrointestinal, and tuberculosis clinics, and laboratories. The students take histories, and make physical and laboratory examinations under the direction of the staff. Two hours four days a week for one trimester. 88 hours.

Professor Lawrence, Dr. Strauss, and Staff

7. Therapeutics. A course designed to give students a general survey of the methods and the principal agencies employed in the treatment of disease. One hour a week during the second trimester. 11 hours.

Professor Barr, Professor Moore, Professor Ewerhardt, Dr. Larimore

8. Dietetics. Lectures and recitations upon foods, beverages and condiments in health and disease. One hour a week during the second and third trimesters. 22 hours. Professor Olmsted

9. Medicine Recitation. The class is divided into groups for discussion and recitation upon reading assigned in a textbook of medicine. Special emphasis is placed upon therapeutics and the principal instruction in the treatment of separate diseases is given in this course. Two hours a week throughout the year. 66 hours.

Dr. Thompson, Dr. Grant

Fourth Year

10. Medicine. The course is subdivided as follows:

(a) Medical Ward Work. The class is divided into three sections. Each section is in daily attendance for eleven weeks. Ward rounds 9-10 a.m. daily. The students are assigned cases in the medical wards and are required to write the histories and make physical and laboratory examinations, write résumés with diagnosis and prognosis and describe treatment in detail. The patients are examined, the work of the section scrutinized and criticised, methods of diagnosis and treatment discussed and practiced, and special reading assigned. The specimens from autopsies on medical patients are studied with reference to the clinical histories and the gross and microscopic anatomy.
Each student is required to present two term papers, complete and ready for publication if so desired, upon subjects selected by the student himself. 176 hours.

Professor Barr, Professor E. S. Smith, Professor Alexander, and Assistants

(b) Clinical Conferences. Patients whose cases have been investigated by students working in the wards are presented before the class, and diagnosis, pathology, and treatment are discussed from various points of view. Once a week for one year. 33 hours. Professors Barr and Alexander

(c) A weekly clinic in which a series of subjects, such as gastrointestinal diseases, arterial hypertension, disturbances of internal secretions, pulmonary tuberculosis, and the mechanism of the heart beat are presented. Therapeutics of the conditions presented is particularly emphasized. 33 hours. Professors Smith, Taussig, Olmsted, Luten, Singer, Doctors Sale, Gorham, Larimore

(d) Clinical and Pathological Conferences. Students attend these conferences during their third and fourth years. The staffs of the various clinical departments and of the Department of Pathology participate in giving this course. (See Pathology 2.)

Elective Courses

13. Diagnosis and Treatment of Diseases of the Digestive Tract. The course consists of history taking and physical diagnosis of the abdomen, including radiology, fluoroscopy, plate reading, sigmoidoscopy, etc. Hours by arrangement. Dr. Larimore.

14. Diagnosis and Treatment of Heart Disease. A practical course in the technique of polygraphic and electrocardiographic methods for the study of cardiac disorders; their use in diagnosis and treatment of heart disease will be considered. Open to a limited number of students. Hours by arrangement. Dr. Strauss

15. Applied Immunology. Open to a limited number of students. Hours by arrangement.

Professor Alexander, Dr. Thompson
16. Diagnosis and Treatment of Thoracic Diseases. Course consists of a special study of obscure thoracic conditions; the use of pneumothorax, lipiodol, postural drainage and fluoroscopy. Especial attention given to the diagnosis of surgical diseases of the chest. Course open to limited number of students.

Professor Singer, Dr. Goldman

Neurology and Psychiatry

Sidney I. Schwab, M.D. . . . Professor of Clinical Neurology
Andrew B. Jones, M.D. . . . Instructor in Neuropathology
Archie D. Carr, M.D. . . . Instructor in Clinical Neurology
James Lewald, M.D. . . . Assistant in Clinical Psychiatry
Lee D. Cady, M.D. . . . Assistant in Clinical Neurology
Val B. Satterfield, M.D. . . . Assistant in Clinical Neurology and Psychiatry
Virginia A. Wilson, A.B. . . . Student Assistant in Neurology

1. NEUROLOGY. Third Year

(a) Introductory course in neurology and psychiatry, lectures, and demonstrations in clinical anatomy and physiology of the nervous system. Methods of neurological examination, history taking, study of case histories, etc. One hour a week, first and second trimesters. 22 hours. Professor Schwab

(b) Neuropathology. Laboratory demonstration of the material covered in Course (a), with a study of gross and microscopic lesions of the nervous system, fibre tracts, etc. Exercises in examination and description of microscopic preparations of the more common diseases of the nervous system. Two hours a week, first trimester. 22 hours. Dr. Carr

(c) Neurological Dispensary. Students in small groups spend part of their time in the neuro-psychiatric dispensary attending the neurological, psychiatric, and mental deficiency clinics. Diagnosis and treatment of neuro-psychiatric conditions are studied. Two hours a week for one trimester. 22 hours. Professor Schwab, Dr. Jones, Dr. Carr, Dr. Satterfield, and Assistants

Fourth Year

3. NEUROLOGY.

(a) Neurological ward rounds with the medical group. Neur-
rological and such psychiatric cases as are suitable for hospital treatment are studied. Two hours a week for one trimester for each medical group. 22 hours. Professor Schwab, Dr. Carr.

(b) Neurological Conference. A series of clinical demonstrations before the whole class in which all available types of nervous and mental diseases found in the hospital are discussed. One hour a week for three trimesters. 33 hours. Professor Schwab.

4. Psychiatric Clinic. Elective course. Selected cases illustrating the various groups of mental disorders are demonstrated and discussed. This clinic is held at the St. Louis City Sanitarium. Two and one-half hours a week during the second trimester. 28 hours. Dr. Lewald.

Dermatology

Martin F. Engman, M.D. . . Professor of Clinical Dermatology
William H. Mook, M.D. . . Instructor in Clinical Dermatology
Richard S. Weiss, M.D. . . Instructor in Clinical Dermatology
Adolph H. Conrad, M.D. . . Instructor in Clinical Dermatology

Third Year

(a) Dermatology. A lecture course on diseases of the skin and on syphilis, by which the student is prepared to understand clinical dermatology in the succeeding year. This course is a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and the history and pathology of syphilis. Third trimester. 11 hours. Professor Engman.

Fourth Year

(b) Dermatology. An elective course, conducted in the Dispensary, in which the student examines patients and is instructed in the diagnosis and treatment of diseases of the skin and of syphilis. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

Professor Engman, Dr. Mook, Dr. Weiss, Dr. Conrad.

THE MARY CULVER DEPARTMENT OF SURGERY*

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, Genito-Urinary Surgery, Gynecology, Ophthalmology, and Oto-Laryngology.)

* The names before the break in the column are those of the full-time staff.
Evarts A. Graham, M.D. . . . Bixby Professor of Surgery
Sherwood Moore, M.D. . . . Professor of Radiology
Glover H. Copher, M.D. . . . Assistant Professor of Surgery
Warren H. Cole, M.D. . . . Instructor in Surgery
Isaac Y. Olch, M.D. . . . Instructor in Surgery
Nathan A. Womack, M.D. . . . Assistant in Surgery
Robert Elman, M.D. . . . Assistant in Surgery
William G. Hamm, M.D. . . . Assistant in Surgery
Myron W. Davis, M.D. . . . Assistant in Surgery
Alvah G. Heideman, M.D. . . . Assistant in Surgery
Edward M. Pickford, M.D. . . . Assistant in Surgery
Melvin A. Roblee, M.D. . . . Assistant in Surgery
Caleb S. Stone, Jr., M.D. . . . Assistant in Surgery
Howard R. Hildreth . . . Student Assistant in Surgery
Robert F. McNuttin, A.B. . . . Student Assistant in Surgery

Ernest Sachs, M.D. . . . Professor of Clinical Neurological Surgery
Major G. Seelig, M.D. . . . Professor of Clinical Surgery
Leroy C. Abbott, M.D. . . . Professor of Clinical Orthopedic Surgery
John R. Caulk, M.D. . . . Professor of Clinical Genito-Urinary Surgery
Vilray P. Blair, M.D. . . . Professor of Clinical Surgery
J. Archer O'Reilly, M.D. . . . Associate Professor of Clinical Orthopedic Surgery
Edwin P. Lehman, M.D. . . . Associate Professor of Clinical Surgery
Willard Bartlett, M.D. . . . Assistant Professor of Clinical Surgery
Malvern B. Clopton, M.D. . . . Assistant Professor of Clinical Surgery
Arthur O. Fisher, M.D. . . . Assistant Professor of Clinical Surgery
Charles A. Stone, M.D. . . . Assistant Professor of Clinical Orthopedic Surgery
J. Albert Key, M.D. . . . Assistant Professor of Clinical Orthopedic Surgery
Duff S. Allen, M.D. . . . Assistant Professor of Clinical Surgery
Dalton K. Rose, M.D. . . . Assistant Professor of Clinical Genito-Urinary Surgery
Warren R. Rainey, M.D. . Instructor in Clinical Surgery
H. McClure Young, M.D. . Instructor in Clinical Genito-Urinary Surgery
Harry G. Greditzer, M.D. . Instructor in Clinical Genito-Urinary Surgery
J. Edgar Stewart, M.D. . Instructor in Clinical Orthopedic Surgery
Theodore P. Brookes, M.D. . Instructor in Clinical Orthopedic Surgery
William M. Robertson, M.D. . Assistant in Clinical Genito-Urinary Surgery
Jacob G. Probstein, M.D. . Assistant in Clinical Surgery
Oscar C. Zink, M.D. . . Assistant in Clinical Surgery (Radiology)
V. Rogers Deakin, M.D. . Assistant in Clinical Surgery
J. Barrett Brown, M.D. . Assistant in Clinical Surgery
Roland M. Klemme, M.D. . Assistant in Clinical Neurological Surgery
Joseph H. Sanford, M.D. . Assistant in Clinical Genito-Urinary Surgery
Otto J. Wilhelmi, M.D. . Assistant in Clinical Genito-Urinary Surgery
Newton W. Amos, M.D. . Assistant in Clinical Genito-Urinary Surgery

Fellows
Gaylord P. Coon, M.D. . . Fellow in Neurological Surgery
Charles F. W. Illingworth, M.B., Ch.B. . . . Fellow in Surgery (Fellow of the Association of Surgeons of Great Britain and Ireland)
Bruce Dick, M.B., Ch.B.* . Fellow in Surgery (Rockefeller Foundation Fellow from Edinburgh University)

* Effective December 7, 1927.
Second Year

1. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology and pathology as applied to surgery. Special emphasis is laid on the growth of tissues, with particular reference to wound healing and transplants, the effects of tissue asphyxia and similar subjects. Attention is directed to a study of the processes involved rather than merely to the end results. The students also test and practice various methods of sterilization of hands, instruments, etc., using bacterial cultures as checks on the methods. The course includes the demonstration of patients who illustrate various points under discussion. Five hours weekly during the third trimester. 55 hours.

Professor Lehman

Third Year

2. SURGERY. The course is subdivided as follows:

(a) SURGICAL OUT CLINIC. For one trimester, five times weekly, a third of the class serve as dressers in the Surgical Out Clinic. Cases are examined by the students and demonstrated to them. Under the supervision of the assistants, the students take histories and apply dressings and bandages. 110 hours.

Professor Graham, Professor Sachs, and Assistants

(b) SURGICAL RECITATIONS. A weekly recitation during the first and second trimesters on assigned surgical reading. A standard text-book is followed, and so far as possible the essentials not given in other courses are covered. 22 hours.

Professor Seelig

(c) FRACTURES. Demonstrations, conferences, and lectures on the more common fractures. Patients both in the hospitals and in the dispensary will be used in this course. One hour weekly during the third trimester. 11 hours. This is supplemented by several optional hours at the City Hospital, during which time the extensive fracture material of that hospital is shown to the students.

Professor Abbott, Dr. Rainey

(d) OPERATIVE SURGERY. A three-hour exercise given weekly during the third trimester. Course is given in two sections, each section working one-half a trimester. Actual case histories are
discussed, and the operations indicated from these discussions are performed on animals by the students. The surgical technique is as rigid as in the operating room, and it is required that the operations shall be performed without pain to the animals. 16 hours.  

Professor Sachs, Professor Fisher  

(c) Surgical Clinic. A weekly clinic throughout three trimesters. See course 4 (b). 33 hours. Professor Graham  

(f) Surgical Conference. The pathology, diagnosis, and treatment of surgical conditions, as illustrated by ambulatory out-patient cases, are discussed. A weekly exercise during three trimesters. 33 hours. Professor Sachs  

(g) Genito-Urinary Surgery. Lectures and recitations in genito-urinary surgery. Third trimester. 11 hours. Professor Caulk  

3. Surgical Pathology. A weekly exercise of two hours for three trimesters, at which specimens from the operating room and from the museum are studied in gross and microscopically. Case histories are presented with the specimens. 66 hours. Dr. Olch  

Fourth Year  

4. Surgery. The course is subdivided as follows:  

(a) Surgical Wards. For one trimester the student serves as assistant in the surgical wards from 9 a.m. to 12 m. six days a week. Rounds are made from 9 to 10 a.m. General and special surgical cases are discussed by the Chief and members of his staff. The students, under the direction of the house staff, take case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and with the anaesthetic, and do some of the surgical dressings. They 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. (See Pathology 2.) One day each week the group spends the period from 9 a.m. to 12 m. at the St. Louis Children's Hospital, where orthopedic cases and general surgical cases are demonstrated. On Friday morning the surgical group attends ward clinics and demonstrations at City Hospital No. 1. 198 hours.  

Professor Graham and Staff
(b) **Surgical Clinic.** A weekly exercise throughout three trimesters. Students of the fourth year examine the patients and present the cases for discussion. Students of the third year attend this exercise. 33 hours.

**Professor Graham, Professor Sachs**

6. **Orthopedic Surgery.** Instruction is given at the Barnes Hospital and at the St. Louis Children's Hospital as described in course 4 (a).

**Professor Abbott, Professor O'Reilly, Professor Key**

### ELECTIVE COURSES

5. **Genito-Urinary Out Clinic.** Elective course. The student serves as dresser in the Genito-Urinary Out Clinic six hours a week for one-half trimester under the same conditions as in Course 2. 33 hours. Other hours by arrangement.

**Professor Caulk and Assistants**

8. **Advanced Operative Surgery.** Two-hour exercises are given once weekly during the first trimester of the fourth year. The students are instructed in the technique of special operations by performing these operations on animals under regulations of the surgical operating room, and are encouraged to work at some unsolved problem. 22 hours.  

**Professor Bartlett**

10. **Principles of Roentgenology.** A course of lectures and demonstrations. Four one-hour periods per week for one-half trimester. 22 hours. **Professor Moore, Dr. Zink**

11. **Research in Surgery.** Specially qualified students are encouraged to undertake research in problems bearing on surgery in the laboratories of the department.

12. **Staff Meeting.** Approved students may attend the staff meeting, which meets weekly, at which topics of interest, recent surgical pathological material, and current surgical literature are discussed.

### Gynecology

Harry S. Crossen, M.D. . . Professor of Clinical Gynecology
Frederick J. Taussig, M.D. . . Associate Professor of Clinical Gynecology
Quitman U. Newell, M.D. . . Assistant Professor of Clinical Gynecology
Third Year

1. GYNECOLOGY. The course is divided as follows:

   (a) Clinical Lectures on Selected Gynecological Subjects. One hour a week during the second trimester. 11 hours.

   Professor Crossen, Professor Taussig

   (b) Gynecologic Examination (Dispensary) and Gynecologic Pathology (Laboratory). One subsection (one-sixth of the class) works in the Dispensary under supervision and receives instruction in pelvic examination. At the same time the other subsection (one sixth of the class) works in the laboratory studying the pathology, both microscopic and gross, of specimens illustrating various pelvic lesions. Two hours a week for eleven weeks (in sections of one-third of the class). 22 hours.

   Professor Newell (Dispensary), Dr. Olch (Laboratory)

Fourth Year

2. GYNECOLOGICAL WARD WORK. Sections composed of one-sixth of the class work in the gynecological division of the Barnes Hospital for a period of five and a half weeks. The members of these sections, under guidance of instructors, participate in the entire work. They take histories and make examinations (including those of the laboratory), make ward rounds, and attend the diagnostic and operative clinics. Six hours a week for five and a half weeks. 33 hours.

   Professor Crossen, Professor Taussig, Professor Newell

3. Gynecological Dispensary. An elective course in which small sections of the class receive practical instruction in the Out-Patient Clinic. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

   Professor Newell and Staff
BULLETIN OF WASHINGTON UNIVERSITY.

Ophthalmology*

Harvey J. Howard, M.D.    Professor of Ophthalmology
Charles Weiss, M.D.†     Associate Professor of Experimental Bacteriology in Ophthalmology
William E. Shahan, M.D.  Professor of Clinical Ophthalmology
Meyer Wiener, M.D.        Associate Professor of Clinical Ophthalmology
William F. Hardy, M.D.    Associate Professor of Clinical Ophthalmology
Frederick E. Woodruff, M.D. Assistant Professor of Clinical Ophthalmology
Lawrence T. Post, M.D.    Assistant Professor of Clinical Ophthalmology
M. Hayward Post, M.D.     Assistant Professor of Clinical Ophthalmology
Max W. Jacobs, M.D.       Assistant Professor of Clinical Ophthalmology
Frederick O. Schwartz, M.D. Assistant Professor of Clinical Ophthalmology
Harvey D. Lamb, M.D.‡     Assistant Professor of Ophthalmic Pathology
Bennett Y. Alvis, M.D.    Instructor in Clinical Ophthalmology
Amalie M. Napier, M.D.    Assistant in Clinical Ophthalmology
Leo Mayer, M.D.           Assistant in Clinical Ophthalmology
Grover H. Poos, M.D.      Assistant in Clinical Ophthalmology

Third Year

1. Ophthalmology. Eleven lectures are given in the third trimester. 11 hours. Professor Wiener

* The names before the break in the column are those of full-time staff members.
† Beginning July 1, 1928.
‡ Effective April 9, 1928.
Fourth Year

2. Ophthalmoscopy. Demonstrations to small groups in the fourth year. 12 hours.

Professor Shahan, Professor M. H. Post

3. Ophthalmology. Elective course. Practical instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

Professor Hardy, Professor Lawrence Post, Professor Jacobs, Professor Schwartz, Dr. Alvis

Oto-Laryngology*

Lee W. Dean, M.D.† . . . . Professor of Oto-Laryngology

Greenfield Sluder, M.D. . . Professor of Clinical Oto-Laryngology

Harry W. Lyman, M.D. . . Assistant Professor of Clinical Oto-Laryngology

Millard F. Arbuckle, M.D. . . Assistant Professor of Clinical Oto-Laryngology

Arthur W. Proetz, M.D. . . Assistant Professor of Clinical Oto-Laryngology

Arthur M. Alden, M.D. . . Assistant Professor of Clinical Oto-Laryngology

Eugene R. Van Meter, M.D. . . Instructor in Clinical Oto-Laryngology

Charles L. Davis, M.D. . . Instructor in Clinical Oto-Laryngology

French K. Hansel, M.D. . . Instructor in Clinical Oto-Laryngology

William L. Hanson, M.D. . . Assistant in Clinical Oto-Laryngology

George Hourn, M.D. . . Assistant in Clinical Oto-Laryngology

Richard J. Payne, M.D. . . Assistant in Clinical Oto-Laryngology

*The name before the break in the column is that of a full-time staff member.

†Effective May 9, 1928.
William F. A. Schultz, M.D. . Assistant in Clinical Oto-Laryngology
Francis C. Howard, M.D. . Assistant in Clinical Oto-Laryngology
Edward H. Lane, M.D. . Assistant in Clinical Oto-Laryngology
Thomas P. Lawton, M.D. . Assistant in Clinical Oto-Laryngology
Bernard J. McMahon, M.D. . Assistant in Clinical Oto-Laryngology
Louis E. Freimuth, M.D. . Assistant in Clinical Oto-Laryngology
Helen Gage, M.D. . Assistant in Clinical Oto-Laryngology

Third Year

(a) LARYNGOLOGY AND RHINOLOGY. Eleven lectures are given during the third trimester. 11 hours.
Professor Sluder, Professor Proetz

(b) OTOLOGY. Eleven lectures are given during the third trimester. 11 hours.
Professor Lyman

Fourth Year

(c) Oto-Laryngology. Elective course. Small sections of the class receive practical instruction in the Out-Patient Clinic. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.
Professor Sluder and Staff

OBSTETRICS*

Otto H. Schwarz, M.D. . Professor of Obstetrics
William J. Dieckmann, M.D. . Instructor in Obstetrics
T. Kenneth Brown, M.D. . Instructor in Obstetrics
Myron W. Davis, M.D. . Assistant in Obstetrics
Melvin A. Roblee, M.D. . Assistant in Obstetrics

Frederick J. Taussig, M.D. . Professor of Clinical Obstetrics
Grandison D. Royston, M.D. . Assistant Professor of Clinical Obstetrics

* The names before the break in the column are those of the full-time staff.
Hugo Ehrenfest, M.D. . . . Assistant Professor of Clinical Obstetrics
Frank P. McNalley, M.D. . . Instructor in Clinical Obstetrics
Otto St. Clair Krebs, M.D. . . Instructor in Clinical Obstetrics
Adolph G. Schlossstein, M.D. . . Instructor in Clinical Obstetrics
E. Lee Dorsett, M.D. . . . Instructor in Clinical Obstetrics
Richard Paddock, M.D. . . . Instructor in Clinical Obstetrics
Grover B. Liese, M.D. . . . Assistant in Clinical Obstetrics
Charles Drabkin, M.D. . . . Assistant in Clinical Obstetrics

Third Year

1. OBSTETRICS.

(a) Recitations and Demonstrations. This course consists of recitations and demonstrations based upon assigned reading of a prescribed text-book, and deals with the physiology and pathology of pregnancy, labor, and the puerperium. One hour a week throughout the year. 33 hours.

   Professor O. Schwarz, Dr. Dieckmann

(b) Obstetrical Diagnosis and Obstetrical Histology and Pathology. Obstetrical history taking and the keeping of obstetrical records are taken up. The signs and symptoms of pregnancy are studied on hospital and dispensary patients; the mechanism of labor is discussed in detail and demonstrated.

   The laboratory work consists of a review of the histology of the pelvic organs. Ovulation, menstruation, fertilization, and development of the ovum are covered in this course. Specimens illustrating numerous obstetrical lesions are studied both grossly and microscopically in connection with their clinical histories. Four hours a week for eleven weeks (in sections of one-third of the class). 44 hours. Dr. McNalley, Dr. Paddock, Dr. Brown

Fourth Year

2. OBSTETRICS.

(a) Attendance on Obstetrical Cases. The obstetrical service furnishes more than 900 cases (about 450 hospital and about 450 out-clinic cases). The students attend these cases personally during delivery and visit them during the lying-in period. All work is done under the supervision of instructors. Attendance
on these cases is required during the five and one-half weeks’ period that the student is assigned to Obstetrics during his fourth year. Twelve cases are required for each student. Students are urged to volunteer for obstetrical out-patient duty during the summer vacation between the third and fourth years, as the required number of cases cannot be obtained during the assigned five and one-half weeks’ period.

Professor O. Schwarz, Professor Taussig, Dr. McNalley, Dr. Paddock, Dr. Dieckmann, Dr. Brown

(b) Clinical Lectures on Selected Obstetrical Topics. One hour a week during the first trimester. 11 hours.
Professor H. Schwarz, Professor Ehrenfest, Professor Royston, Dr. Krebs

(e) Obstetrical Ward Work. Sections composed of one-sixth of the class act as clinical clerks in the St. Louis Maternity Hospital for a period of five and one-half weeks. The members of these sections, under the guidance of instructors, participate in the entire work of the division; they take histories and make examinations (including those of the laboratory); make ward rounds; assist at major obstetrical operations; attend clinical conferences and mankin practice. Six hours a week for five and one-half weeks. 33 hours.

Professor O. Schwarz, Professor Taussig, Professor Royston, Professor Ehrenfest, Dr. Schlossstein, Dr. Dorsett, Dr. Paddock

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS*

McKim Marriott, M.D. . . . Professor of Pediatrics
Jean V. Cooke, M.D. . . . Associate Professor of Pediatrics
Alexis F. Hartmann, M.D. . . . Associate Professor of Pediatrics
Dan C. Darrow, M.D. . . . Instructor in Pediatrics
Ludwig Schoenthal, Dr. Med. . Instructor in Pediatrics
Virginia A. Wilson, A.B. . . . Student Assistant in Child Psychology

*The names before the break in the column are those of the full-time staff.
Borden S. Veeder, M.D. . . . Professor of Clinical Pediatrics
Hugh McCulloch, M.D. . . . Assistant Professor of Clinical Pediatrics
Theodore C. Hempelmann, M.D. Assistant Professor of Clinical Pediatrics
Adrien Bleyer, M.D. . . . Instructor in Clinical Pediatrics
Park J. White, M.D. . . . Instructor in Clinical Pediatrics
Paul J. Zentay, M.D. . . . Instructor in Clinical Pediatrics
Maurice J. Lonsway, M.D. . . Assistant in Clinical Pediatrics
Katherine Bain, M.D. . . . Assistant in Clinical Pediatrics
Cleon E. Colgate, M.D. . . . Assistant in Clinical Pediatrics
Fellow
Ludwig Schoenthal, Dr.Med. . Selma Michael Fellow in Pediatrics

Third Year

1. PEDIATRICS. Physical diagnosis as applied to infants and children. Bedside instruction to small groups of students in the wards of the St. Louis Children's Hospital. Two hours a week for one trimester. 22 hours. Professor McCulloch

2. PEDIATRICS. A systematic course in General Pediatrics. Recitations, lectures, clinical demonstrations, and discussions of case histories. The subjects considered include the growth and development of the normal child; hygiene and preventive medicine as applied to children; nutrition and feeding, especially of infants; the more important diseases of infants and children; the contagious diseases. Two hours a week for three trimesters. 66 hours.

Professor Marriott, Professor Cooke, Professor Hartmann

Fourth Year

3. PEDIATRIC WARD WORK. Examination of assigned cases and discussion of diagnosis and treatment. Individual instruction in preparation of milk formulae, examination of throat cultures, and such procedures as lumbar puncture, intubation, administration of antitoxin, vaccination, etc. Daily for five and one-half weeks. 38 hours.

Professor Marriott, Professor Veeder, Professor Cooke, Professor Hartmann, Professor Hempelmann, Dr. Zentay, Dr. Colgate
4. **Pediatric Clinic.** A weekly amphitheater clinic is held throughout the school year. Demonstration of selected cases from the Hospital and from the Dispensary. 33 hours.

   **Professor Marriott**

5. **Clinical and Pathological Conferences.** This course is given jointly by the Clinical Departments and the Department of Pathology. Each student is supplied with the clinical histories of the cases coming to autopsy. The pathological material is demonstrated and the cases discussed from the clinical and pathological sides. Approximately one-third of the course is devoted to pediatric cases. (See Pathology 2.)

6. **Pediatric Dispensary.** An elective course consisting of practical work in history taking, physical and laboratory diagnosis, and infant feeding. Eight hours a week for one-half trimester. 44 hours. Other hours by arrangement.

   **Professor Cooke, Dr. P. J. White, and Assistants**

7. **Research.** Properly qualified students may engage in clinical or laboratory research under the direction of the Pediatric Staff.

### Military Science and Tactics

John R. Hall, M.D., Captain,  
M. C., U. S. A. . . . . . Assistant Professor of Military Science and Tactics

A Medical Unit of the Reserve Officers' Training Corps is maintained and instruction is given as a part of the regularly scheduled school work by an officer of the Medical Corps of the Regular Army detailed to the School for the purpose. The work is divided as follows:

(a) **Basic Course**—first and second years.

(b) **Advanced Course**—third and fourth years.

   **Summer Training Camp**—six weeks.

Enrollment for both the (a) and the (b) sections is optional and does not obligate the student to any military duty except to complete the course undertaken.

The instruction is designed: (1) to give the student a clear understanding of the Constitution, the Federal Government, Mili-
tary Law, and our National Defense Policies, past and present; (2) to teach Hygiene and Sanitation as it is practiced in the Regular Army; and (3) to give a practical working knowledge of the Medical Department. In short, the instruction prepares the student for a commission in the Medical Section, Officers' Reserve Corps.

The Summer Training Camp is an essential part of the Advanced Course and may be attended after the second or third year.

From those students whose records in the Basic Course are satisfactory will be selected those to be enrolled in the Advanced Course. Those so enrolled have, in fact, obtained a scholarship of a value slightly greater than $200.00—for during the third and fourth years the student is paid commutation of rations at the prescribed rate, approximately thirty cents per day, except for the period of the Training Camp, when he receives seventy cents per day and is furnished shelter, rations, clothing, and equipment. He is paid five cents per mile travel allowance to and from camp.

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

Appointments as Internes in a few of the larger Army Hospitals are open to a limited number of graduates who are commissioned. Those appointed serve as First Lieutenants (Reserve) and receive the pay and allowances of the grade.

Appointments in the Medical Corps of the Regular Army will be offered to Internes whose work is of high standard and who manifest the other necessary qualifications.

**MISCELLANEOUS COURSES**

**Medical Jurisprudence**

Milton R. Stahl, LL.B. . . Instructor in Medical Jurisprudence

**Medical Jurisprudence.** A course given in the third year embracing medical evidence and testimony; expert testimony; dying declarations; rights of medical witnesses; establishing iden-
tity 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.

Stomatology

Stomatology. Lectures and demonstrations. The relation between stomatology and the other branches of medicine is considered. Third trimester, third year. 11 hours.  

Dr. Virgil Loeb

Physical Therapeutics

Physical Therapeutics. Lectures and demonstrations of corrective physical exercise, massage, hydrotherapy, electrotherapy and heliotherapy. 8 hours.  

Dr. Ewerhardt

Medical Ethics and Professional Conduct

Medical Ethics and Professional Conduct. An elective course consisting of informal discussions during the third trimester of the fourth year. 7 hours.  

Dr. Park J. White

POST-GRADUATE COURSES

During the year courses in the following subjects are offered to a limited number of registered practitioners of medicine or graduates in medicine who are not registered practitioners:

Pediatrics. A four weeks' course in Infant Feeding and Diseases of Childhood is offered twice a year, in April and October.

Obstetrics and Gynecology. A four weeks' course in Obstetrics and Diagnostic Gynecology is offered once a year, beginning in May.

Internal Medicine. A four weeks' course in Internal Medicine is offered during the month of May.

Diseases of the Heart. A five-day course in the more common diseases of the heart is offered four times during the year, beginning on the first Monday in March, June, September, and December.

For full information in regard to these courses, address the Registrar, Washington University School of Medicine.
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of First Year. December 10-January 28, inclusive

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<th>TUESDAY</th>
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### Washington University School of Medicine

**Schedule of First Year**  
January 29-May 28, inclusive

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Note.—A course of eleven lectures in Stomatology is required during the third year.
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Note.—A course of eleven lectures in Stomatology is required during the third year.
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Clinical Conference  
Pediatrics 2 | Medicine  
Recitation  
Medicine 9 | Pharmacology  
Lecture  
Pharmacology 1a | Medicine  
Recitation  
Medicine 9 | Obstetrics  
Recitation  
Obstetrics 1a | Pediatrics  
Clinical Conference  
Pediatrics 2 |
| 10 to 11 | Group A  
Surgery 2a  
Group B  
Obstetrics 1b  
Group C  
Medicine 6 | Group A  
Surgery 2a  
Group B  
Neurology 1c  
Group C  
Medicine 6 | Group A  
Surgery 2a  
Group B  
Neurology 1c  
Group C  
Medicine 6 | Group A  
Surgery 2a  
Group B  
Obstetrics 1b  
Group C  
Medicine 4 | Group A  
Surgery 2a  
Group B  
Obstetrics 1b  
Group C  
Medicine 4 |
| 11 to 12 | Fractures  
Surgery 2c  
Group C  
Medicine 6 | Surgery  
Clinic  
Surgery 2e | Dietetics  
Medicine 8 | Surgery  
Conference  
Surgery 2f | | |
| 12 to 1 | Dermatology  
Lecture  
Dermatology 2a | Otology  
Lecture  
Oto-Laryngology 2b | Surgical  
Pathology  
Surgery 8 | Group B  
Gynecology 2b  
Operative  
Surgery  | |
| 2 to 3 | Ophthalmology  
Lecture  
Ophthalmology 2a | Laryngology  
Lecture  
Oto-Laryngology 2a | | | |
| 3 to 4 | Clinical  
Pathological  
Conference  
Pathology 2 | Medical  
Jurisprudence | Military Science and Tactics 2 | | |
| 4 to 5 | | | | | |

Note.—A course of eleven lectures in Stomatology is required during the third year.
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
1928-29
Schedule of Fourth Year: Group A, First Trimester; Group B, Second Trimester; Group C, Third Trimester.

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<td>Obstetrics 2b Lecture I Trimester Mil. Sci. and Tac. 2 II &amp; III Trimesters</td>
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<td>Ophthalmoscopy ½ the group in 2 sections ½ trimester each</td>
<td>Ophthalmoscopy ½ the group in 2 sections ½ trimester each</td>
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* Electives. See pp. 184 ff.
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Fourth Year: Group B, First Trimester; Group C, Second Trimester; Group A, Third Trimester.

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<td>Surgery Clinic Surgery 4b</td>
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* Electives. See pp. 134 ff.
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* Electives. See pp. 134 ff.
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Fourth Year Elective Out Patient Specialties, 2-4 p. m.

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**KEY TO NUMERALS AND ABBREVIATIONS**

1 and II at head of columns indicate first and second halves of the trimester.
Sections 1 and 2 are rotating sections within a group.
D, Dermatology; G, Gynecology; OL, Oto-Laryngology; Op, Ophthalmology; P, Pediatrics.
ELECTIVES

Each fourth year student is required to obtain credit for at least three hundred hours of elective work throughout the year from the following list of available courses:

Ophthalmology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.* (2 to 4 p.m.).

Dermatology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.* (2 to 4 p.m.).

Gynecology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.* (2 to 4 p.m.).

Oto-Laryngology: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.* (2 to 4 p.m.).

Pediatrics: A minimum of four periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. 44 hours.* (2 to 4 p.m.).

Genito-Urinary Surgery: A minimum of three periods of 2 hours each per week for one-half trimester in groups of not more than one-sixth of the class. May be taken in the morning by the Pediatrics-Obstetrics group. 33 hours.* (10 a.m. to 12 m.).

Medicine: Diagnosis and Treatment of Diseases of the Digestive Tract. Hours by arrangement. (10 a.m. to 12 m.).

Medicine: Diagnosis and Treatment of Heart Disease. Hours by arrangement.

Obstetrics: Pre-Natal Clinic. Hours by arrangement.

Neurology: Neurological Clinic. Hours by arrangement. (10 a.m. to 12 m.).

Neurology: Psychiatry. Two and one-half hours per week during the second trimester. 28 hours.

* Additional hours by arrangement.
Surgery: Advanced Operative Surgery. One two-hour period per week during the first trimester. 22 hours.

Anatomy: Topographical Anatomy. Hours by arrangement.

Medicine: Applied Immunology. Hours by arrangement.

Surgery: Principles of Roentgenology. Four one-hour periods per week for one-half trimester. 22 hours.

Medical Ethics: Seven one-hour lectures during the second trimester. 7 hours.

Physical Therapeutics: Hours by arrangement.

Medicine: Diagnosis and Treatment of Thoracic Diseases. Hours by arrangement. (10 a.m. to 12 m.).

Other elective courses in any department. Hours to be arranged.

Research in any department. Hours to be arranged.

In computing the number of hours elected, one hour a week for one trimester, or two hours a week for one-half trimester, amounts to 11 hours. The total of 300 hours may be obtained by electing ten hours a week throughout the year in some one department, or by combining smaller amounts of credit in a number of subjects.

The chart on the preceding page indicates how each student may elect all out-patient specialties if he so desires. It exemplifies a possible working schedule for each group throughout the three trimesters. Each group is divided into two sections, and each trimester into halves.

A student may elect these courses at other than the times indicated, provided the section with which he desires to work has not its full quota of students.
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* Died February 10, 1928.