BULLETIN OF
WASHINGTON UNIVERSITY
ST. LOUIS

THIRTIETH ANNUAL
CATALOGUE
OF THE
SCHOOL OF MEDICINE

MARCH, 1919

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XVII NUMBER IV
PUBLICATIONS OF WASHINGTON UNIVERSITY

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CALENDAR

1919-20

Examinations for Advanced Standing and Special Examinations, Monday, Tuesday and Wednesday, September 22, 23, and 24, 1919.

Academic Year (First Trimester) begins Thursday, September 25, 1919.

Holiday, Thanksgiving Day, Thursday, November 27, 1919.

First Trimester ends Saturday, December 20, 1919.

Christmas Recess, Wednesday, December 24, 1919, to Thursday, January 1, 1920, inclusive.

Second Trimester begins Friday, January 2, 1920.


Second Trimester ends Saturday, March 13, 1920.


Holiday, Good Friday, April 2, and Saturday, April 3, 1920.

Third Trimester ends Saturday, May 29, 1920.


Commencement, Thursday, June 10, 1920.
### CALENDAR 1919

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A.B., Washington University, 1878; M.D., St. Louis Medical College, 1881; Interne, St. Louis City Hospital, 1881-82; Interne, Female Hospital, 1882-88. Lecturer on Diseases of the Ear, 1886-90, and Clinical Professor, Diseases of the Ear, 1890-95, St. Louis Medical College; Dean of the Medical Faculty, Medical Department of Washington University, 1901-02; Professor of Otology, St. Louis Medical College and Washington University Medical School, 1895-1912. Member of the Hospital Board of the City of St. Louis, 1910-12; Member of the Medical Staff of St. Luke's Hospital, and Barnard Free Skin and Cancer Hospital. Otologist to the St. Louis Children's Hospital, the Barnes Hospital, and the Washington University Dispensary.

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Physician, St. Louis City Hospital, and Physician in Chief to the Barnes Hospital.

JOSEPH ERLANGER, M.D. Professor of Physiology
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; Resident House Officer, Johns Hopkins Hospital, 1899-1900. Fellow in Pathology, Assistant, Instructor, Associate, and Associate Professor of Physiology, Johns Hopkins University, 1900-06; Professor of Physiology, University of Wisconsin, 1906-10. Member of the Editorial Committee of the American Journal of Physiology. Physiologist to the Barnes Hospital.

PHILIP ANDERSON SHAFFER, PH.D. Professor of Biological Chemistry
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904. Assistant, Fellow, and Instructor in Chemical Pathology, Cornell University, 1904-10. Resident Assistant Pathological Chemist, McLean Hospital, Waverley, Mass., 1900-03; Chemist to Huntington Fund for Cancer Research, 1906-10; Pathological Chemist and Head of Chemical Section of the Laboratory of Bellevue Hospital, 1909-10. Dean of the Medical Faculty, 1915-19. Chemist to the Barnes Hospital.
THE SCHOOL OF MEDICINE.

Histology and Embryology, Harvard University, 1906-07. Editor of the Bulletin of the Washington University School of Medicine.

5315 Delmar Avenue

FRED TOWSLEY MURPHY, M.D. . . . . Professor of Surgery
A.B., Yale University, 1897, and A.M. (hon.), 1914; M.D., Harvard University, 1901; Interne and Graduate Assistant, Massachusetts General Hospital, 1901-02. Assistant in Anatomy and Austin Teaching Fellow in Surgery, 1903-05, and Assistant in Surgery, 1910-11, Harvard Medical School. Assistant Surgeon, Infants' Hospital, Boston, 1904-08; Surgeon to Out Patients, Massachusetts General Hospital, 1907-11; Visiting Surgeon to Clinic, Harvard Medical School, 1909-11. Consulting Surgeon, St. Louis City Hospital, Surgeon in Chief to the Barnes Hospital and the St. Louis Children's Hospital.

5738 Cates Avenue

LEO LOEB, M.D. . . . . Professor of Comparative Pathology
M.D., Zurich, 1896. Adjunct Professor of Pathology, College of Physicians and Surgeons, Chicago, 1900-01; Experimental Pathologist, New York State Pathological Laboratory, 1902; Research Fellow, McGill University, 1903; Demonstrator, 1903-04, and Assistant Professor of Experimental Pathology in Charge of Laboratory, 1904-10, University of Pennsylvania; Director Department of Pathology, Barnard Free Skin and Cancer Hospital, St. Louis, 1910-15. Member of the Editorial Board of the Folia Haematologica, 1908-09, of the Folia Serologica, 1908-11, and of the Journal of Cancer Research.

719 Westgate Avenue

WILLIAMS MCKIM MARRIOTT, M.D. . . . Professor of Pediatrics
B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Assistant in Chemistry, University of North Carolina, 1903-04; Assistant in Bio-chemistry, Cornell University Medical School, 1904-06; Instructor in Biological Chemistry, Washington University Medical School, 1910-14; Instructor and Associate in Pediatrics, Johns Hopkins University, 1914-17; Associate Pediatrician, the Johns Hopkins Hospital, 1915-17. Consulting Physician, St. Louis City Hospital, and Infectious Disease Hospital. Physician in Chief to the St. Louis Children's Hospital and Pediatrician in Chief to the Washington University Dispensary.

4943 Laclede Avenue

LOUIS HERBERT BURLINGHAM, M.D. Lecturer on Hospital Administration
A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906; Interne, Massachusetts General Hospital, 1906-07. Assistant Resident
Physician and Assistant Administrator, Massachusetts General Hospital, 1907-12; Assistant Superintendent, Peter Bent Brigham Hospital, 1912-17. Superintendent of the Barnes Hospital and Administrator of the St. Louis Children's Hospital.

**Barnes Hospital**

**Henry Schwarz, M.D.** .... *Clinical Professor of Obstetrics*

M.D., St. Louis Medical College, 1879, and University of Giessen, 1880; Resident Physician, Recurrent Fever Hospital, Giessen, 1879-80; Assistant Physician and Tutor, Department of Obstetrics, University of Giessen, 1880-81; and University of Heidelberg, 1881-83. Clinical Lecturer on Gynecology, 1886-89, and Clinical Professor of Gynecology, 1889-99, St. Louis Medical College; Professor of Obstetrics, 1899-1908, and Professor of Obstetrics and Gynecology, 1907-12, Washington University Medical School. Consulting Surgeon, St. Louis City Hospital, and Obstetrician in Chief to the Barnes Hospital.

440 N. Newstead Avenue

**Paul Yoer Tupper, M.D.** .... *Clinical Professor of Surgery*

M.D., Central University, Kentucky, 1880; Interne, City Hospital and Forest Hill Lying-in Hospital, Louisville, 1880-81. Visiting Surgeon, St. Luke's Hospital; Consulting Surgeon, Bethesda Hospital, St. John's Hospital, and the Jewish Hospital.

**Wall Building**

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A.B., Ohio Wesleyan University, 1877, and A.M., 1880; M.D., St. Louis Medical College, 1879; Interne, St. Louis City Hospital, 1879-80. Assistant Demonstrator and Demonstrator of Anatomy, 1881-88, Clinical Lecturer on Diseases of the Nervous System, 1887-90, Professor of Anatomy, 1888-90, and Professor of Diseases of the Nervous System, 1890-99, St. Louis Medical College. Member of Staff of St. Luke's Hospital, the Barnard Free Skin and Cancer Hospital, and of the Consulting Staff of the Jewish Hospital.

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**Harvey Gilmer Mudd, M.D.** .... *Clinical Professor of Surgery*

M.D., St. Louis Medical College, 1881; Interne, St. Louis City Hospital, 1881-82; Interne, Female Hospital, 1881-82. Demonstrator of Anatomy, Lecturer on Osteology and Professor of Osteology and Regional Anatomy, 1888-99, Professor of Fractures and Dislocations and Clinical Surgery, 1899, St. Louis Medical College. Surgeon and Chief of Staff, St. Luke's Hospital; Surgeon to the Barnard Free Skin and Cancer Hospital.
GEORGE MARVINE TUTTLE, M.D.  
Clinical Professor of Pediatrics  
A.B., Columbia University, 1888, and M.D., 1891; Interne, St. Luke's Hospital, New York, and New York Nursery and Child's Hospital, 1892-94. Professor of Therapeutics, Washington University Medical School, 1899-1906. Attending Physician, Martha Parsons Free Hospital for Children, 1894-1910; Chief of Staff, St. Louis Children's Hospital, 1910-12; Attending Physician, St. Luke's Hospital. Consulting Physician to the St. Louis Children's Hospital.

4917 Maryland Avenue

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A.B., St. Louis University, 1884, and A.M., 1888; M.D., St. Louis Medical College, 1887; Interne, Assistant Physician, and Assistant Superintendent, St. Louis City Hospital, 1887-90. Demonstrator in Anatomy, Instructor in Physical Diagnosis and Assistant Physician to the Medical Clinic, St. Louis Medical College, 1890-99. Physician, St. Luke's Hospital; Consulting Physician, Jewish Hospital, Barnard Free Skin and Cancer Hospital, Frisco Hospital and St. Louis Maternity Hospital; Physician in Chief to the St. Louis Mullanphy Hospital. Assistant Physician to the Barnes Hospital.

4502 Maryland Avenue

ARTHUR EUGENE EWING, M.D.  
Clinical Professor of Ophthalmology  
A.B., Dartmouth College, 1878; M.D., St. Louis Medical College, 1883; A.M., Washington University, 1912. Clinical Lecturer on Ophthalmology, St. Louis Medical College, 1895. Assistant in the Ophthalmic Clinic of St. Luke's Hospital, 1888-95. Ophthalmologist to the Barnes Hospital and Chief of the Ophthalmological Clinic, Washington University Dispensary.

5956 Cabanne Avenue

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Clinical Professor of Laryngology and Rhinology  
M.D., St. Louis Medical College, 1888; Interne, St. Louis City Hospital, 1888-92. Instructor in Urinology and in Clinical Medicine, 1891-98, and Lecturer on Laryngology, St. Louis Medical College, 1898-99, and Medical Department of Washington University, 1899-1905. Member of Staff of St. Luke's Hospital and Barnard Free Skin and Cancer Hospital. Laryngologist to the St. Louis Children's Hospital, the Barnes Hospital, and the Washington University Dispensary.

3542 Washington Avenue
MARTIN FEENEY ENGMAN, M.D. Clinical Professor of Dermatology
M.D., University of New York, 1891; Interne, New York Skin and Cancer Hospital and Gouverneur Hospital, New York, 1891-93. Lecturer on Dermatology, New York Post Graduate Medical School, 1894; Lecturer on Dermatology, St. Louis University, 1910-12. Assistant in Skin Department, Demilf Dispensary, and Vanderbilt Clinic, New York, 1894. Member of the Hospital Board, City of St. Louis, 1912; President of the Medical Board, Barnard Free Skin and Cancer Hospital. Visiting Physician, St. Louis City Hospital, Dermatologist to the St. Louis Children's Hospital, and the Barnes Hospital, and Chief of the Dermatological Clinic, Washington University Dispensary.

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BORDEN SMITH VEEDER, M.D. . . . Professor of Clinical Pediatrics
M.D., University of Pennsylvania, 1907; Interne, University of Pennsylvania Hospital, 1907-08; Assistant Demonstrator in Pathology, University of Pennsylvania, 1909-11; Pathologist, St. Christopher's Hospital, Philadelphia, 1909-11; Assistant Pathologist, General Hospital, Philadelphia, 1909-11; Medical Director, Babies' Hospital, Philadelphia, 1911; Associate in and Associate Professor of Pediatrics, Washington University Medical School, 1911-17. Consulting Physician, St. Louis City Hospital and Infectious Disease Hospital; Associate Physician, St. Louis Children's Hospital.

Euclid Avenue and Kingshighway

SIDNEY ISAAC SCHWAB, M.D. . . . Professor of Clinical Neurology
M.D., Harvard University, 1896. Professor of Nervous and Mental Diseases, St. Louis University, 1904-12; Non-resident Lecturer on Nervous and Mental Diseases, University of Missouri School of Medicine, 1909-10; Associate in Neurology, and Associate Professor of Clinical Neurology, Washington University Medical School, 1918-19. Visiting Neurologist to the St. Louis City Hospital and Sanitarium, 1909-13; Visiting Neurologist to the Jewish Hospital. Neurologist to the Barnes Hospital and Chief of the Neurological Clinic, Washington University Dispensary.

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NATHANIEL ALLISON, M.D. Professor of Clinical Orthopedic Surgery
M.D., Harvard University, 1901; Interne, Boston Children's Hospital, 1901-02; Assistant, Instructor, Clinical Lecturer on, Associate in and Associate Professor of Clinical Orthopedic Surgery, Washington Univer-
sity Medical School, 1904-19; Orthopedic Surgeon to Martha Parsons Free Hospital for Children, 1903-09; Surgeon to St. Louis City Hospital, 1910-12; Orthopedic Surgeon to St. Luke's Hospital. Co-editor, American Journal of Orthopedic Surgery. Associate Surgeon, St. Louis Children's Hospital, and Chief of the Orthopedic Clinic, Washington University Dispensary.

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ALBERT ERNEST TAUSSIG, M.D. Associate Professor of Clinical Medicine
A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, 1894-95; Professor of Physiology, 1909, Clinical Professor of Medicine, 1910-12, and Associate in Medicine, 1912-14, Washington University Medical School. Physician to the Jewish Hospital. Editor of the Medical Bulletin, Washington University, 1904-08; Co-editor Interstate Medical Journal. Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.

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ERNEST SACHS, M.D. Associate Professor of Surgery
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904; Interne, Mt. Sinai Hospital, New York, 1904-07; Clinical Clerk, National Hospital, London, 1908. Associate in Surgery, Washington University Medical School, 1911-14. Attending Neurological Surgeon to Montefiore Home and Beth Israel Hospitals, and Adjunct Assistant Attending Surgeon to Bellevue Hospital, New York, 1909-11. Consulting Surgeon to City Sanitarium; Assistant Surgeon to the St. Louis Children's Hospital; Associate Surgeon to the Barnes Hospital; Chief of the Surgical Clinic, Washington University Dispensary.

97 Arundel Place

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A.B., Tufts College, 1908, and A.M., 1910; Ph.D., Washington University, 1912. Olmstead Fellow in Biology, 1908, and Instructor in Biology, 1910-11, Tufts College; Teaching Fellow in Anatomy, Harvard Medical School, 1910-11; Instructor and Associate in Anatomy, Washington University Medical School, 1908-16.

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Euclid Avenue and Kingshighway

PHILIP CHARLES JEANS, M.D. Associate Professor of Pediatrics
A.B., University of Kansas, 1904; M.D., Johns Hopkins University, 1909; Interne, Garrett Hospital for Children, Baltimore, Hartford Hospital, Hartford, and Children's Hospital, Floating Hospital, and City Hospital, Boston, 1909-12; Resident Physician, St. Louis Children's Hospital, 1912-13; Student Instructor in Chemistry, University of Kansas, 1902-04; Assistant, Instructor, and Associate in Pediatrics, Washington University Medical School, 1913-17. Visiting Physician, Infectious Disease Hospital, Assistant Physician, St. Louis Children's Hospital, and Chief of Pediatric Clinic, Washington University Dispensary.

St. Louis Children's Hospital

MONTROSE THOMAS BURROWS, M.D. Associate Professor of Pathology
A.B., University of Kansas, 1905; M.D., Johns Hopkins University, 1909. Assistant, Rockefeller Institute for Medical Research, 1909-11; Instructor in Anatomy, Cornell University Medical College, 1911-15; Associate in Pathology, Johns Hopkins University, 1915-17. Acting Pathologist to the Barnes Hospital and the St. Louis Children's Hospital.

18 S. Taylor Avenue

HARRY STURGEON CROSSEN, M.D. Associate in Clinical Gynecology
M.D., Medical Department of Washington University, 1892; Interne, St. Louis City Hospital, 1892-95. Superintendent and Surgeon in Charge, Female Hospital, 1895-99; Member and Chairman of the Gynecological Staff of the St. Louis City Hospital, 1910-12; Gynecologist, St. Luke's Hospital, St. Louis Mullanphy Hospital, Missouri Baptist Sanitarium, and Bethesda Hospital. Associate Gynecologist to the Barnes Hospital.

Metropolitan Building

WILLARD BARTLETT, M.D. Associate in Clinical Surgery
A.B., Illinois College, 1892, and A.M., 1898; M.D., Marion Sims College of Medicine, 1895. Demonstrator of Pathological Anatomy, University of Berlin, 1896-97; Voluntary Assistant, University of Strassburg, 1897-98; Professor of Pathology, Marion Sims College of Medicine, 1898-1901; Demonstrator and Professor of Experimental Surgery, Washington University Medical School, 1901-12. Member and Chairman of Surgical
Staff, St. Louis City Hospital, 1910-12. Surgeon to Missouri Baptist Sanitarium.

Metropolitan Building

VILRAY PAPIN BLAIR, M.D. . . . . . Associate in Clinical Surgery
A.M., Christian Brothers College, 1890; M.D., Medical Department of Washington University, 1893; Interne, St. Louis Mullanphy Hospital, 1893-95. Instructor in Practical Anatomy, Associate Professor of Anatomy, and Clinical Professor of Surgery, Washington University Medical School, 1894-1912. Formerly Surgeon to St. Louis City Hospital and City Sanitarium; Visiting Surgeon to St. Luke's Hospital and St. Louis Maternity Hospital. Assistant Surgeon to the St. Louis Children's Hospital and the Barnes Hospital.

Metropolitan Building

MEYER WIENER, M.D. . . . . . Associate in Clinical Ophthalmology
M.D., Missouri Medical College, 1896; Interne, St. Louis City Hospital, 1896-97. Member of Staff and Chief of Eye Clinic, Jewish Hospital; Member of Staff of Bethesda Hospital, City Hospital, St. Vincent's Asylum, and St. Louis Maternity Hospital. Former Editor of the Annals of Ophthalmology; Member of the Editorial Staff, American Journal of Ophthalmology. Visiting Surgeon, St. Louis City Hospital; Surgeon to Out Patients, Washington University Dispensary, and Assistant Ophthalmologist to the Barnes Hospital.

Carleton Building

GEORGE GELLIHORN, M.D. . . . . . Associate in Clinical Gynecology
M.D., University of Wurzburg, 1894. Assistant in Obstetrics, University of Jena, 1898; Assistant in Gynecology, Mackenrodt Hospital, Berlin, 1898-97, and University of Vienna, 1899; Instructor and Lecturer in Gynecology, Washington University Medical School, 1904-11. Gynecologist to St. Luke's Hospital, 1901; Gynecologist to Barnard Free Skin and Cancer Hospital, 1905; Visiting Gynecologist to St. Louis City Hospital, 1910; Consulting Obstetrician to St. Louis Maternity Hospital, 1912. Visiting Surgeon, St. Louis City Hospital, and Assistant Gynecologist to the Barnes Hospital.

Metropolitan Building

FREDERICK JOSEPH TAUSSIG, M.D. . . Associate in Clinical Gynecology
A.B., Harvard University, 1898; M.D., St. Louis Medical College, 1898; Interne and Assistant Superintendent, Female Hospital, St. Louis, 1898-1901. Instructor and Lecturer in Gynecology, Washington University
Malvern Bryan Clopton, M.D. Associate in Clinical Surgery
M.D., University of Virginia, 1897; Interne, Johns Hopkins Hospital, Baltimore, 1898-99. Instructor in Clinical Surgery, Washington University Medical School, 1906-10. Chief of Surgical Clinic, O'Fallon Dispensary, 1907-09; Visiting Surgeon, St. Luke's Hospital, 1900-13; Associate Surgeon, St. Louis Mullanphy Hospital, 1907-15. Associate Surgeon, St. Louis Children's Hospital, and Assistant Surgeon to the Barnes Hospital.

Francis Merriman Barnes, Jr., M.D. Associate in Clinical Psychiatry
A.B., Hamilton College, 1903, and A.M., 1906; M.D., Johns Hopkins University, 1907; Interne, Sheppard and Enoch Pratt Hospital for Nervous and Mental Diseases, 1907. Instructor in Neurology and Psychiatry, George Washington University, 1911-13; Assistant Professor of Nervous and Mental Diseases, St. Louis University, 1913-14. Assistant Physician and Director of Clinical Laboratory, Sheppard and Enoch Pratt Hospital, 1907-10; Interne, Junior Assistant, Assistant Physician, Senior Assistant Physician, and Clinical Director, 1910-13, Government Hospital for the Insane, Washington, D.C.; Neurologist, St. Mary's Hospital, St. Louis, 1915-; Medical Director, Glenwood Sanitarium, 1916-. Visiting Physician, St. Louis City Hospital, Consulting Physician, City Sanitarium, and Physician to Out Patients, Washington University Dispensary.

Ralph Walter Mills, M.D. Associate in Clinical Medicine
B.S., University of Illinois, 1899; M.D., Marion Sims Medical College, 1902; Interne, Alexian Brothers Hospital, St. Louis, 1902-03. Assistant in Pathology, 1904-05, and Instructor in Dietetics, 1908-14, Washington University Medical School. Assistant Physician and Roentgenologist to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.
EDWIN A. BAUMGARTNER, PH.D., M.D. . . . Associate in Anatomy
A.B., University of Kansas, 1910, and A.M., 1911; Ph.D., University of Minnesota, 1915; M.D., Washington University, 1919. Fellow in Histology, University of Kansas, 1910-11; Instructor in Anatomy, University of Wisconsin, 1911-12; Instructor in Histology, Embryology, and Anatomy, University of Minnesota, 1912-14; Instructor in Anatomy, Washington University Medical School, 1914-16.

McMillan Hall, Washington University

ALBERT FREDERICK KOETTER, M.D. . . . Associate in Clinical Otology
M.D., Missouri Medical College, 1892; Interne, Frauen Hospital, Dresden, 1894. Assistant and Instructor in Otology, Washington University Medical School, 1910-16. Member of Staff, Deaconess Hospital. Assistant Otologist to the Barnes Hospital, and the St. Louis Children's Hospital, and Chief of the Otological Clinic, Washington University Dispensary.

Humboldt Building

JOHN ROBERTS CAULK, M.D. . Associate in Clinical Genito-Urinary Surgery

Humboldt Building

BARNEY BROOKS, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .Associate in Surgery
B.S., University of Texas, 1905; M.D., Johns Hopkins University, 1911; Resident House Officer, Johns Hopkins Hospital, 1911-12. Assistant and Instructor in Surgery, Washington University Medical School, 1912-17. Resident Surgeon, Barnes Hospital, 1914-16. Assistant Surgeon to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

5637 Pershing Avenue
ALAN MASON CHESNEY, M.D. Associate in Medicine
A.B., Johns Hopkins University, 1908; M.D., 1912; Interne and Assistant Resident Physician, Johns Hopkins Hospital, 1912-14; Assistant Resident, Rockefeller Institute Hospital, New York, 1914-16. Assistant in Medicine, Johns Hopkins University, 1913-14.

Euclid avenue and Kingshighway

JEAN VALJEAN COOKE, M.D. Associate in Pediatrics
A.B., University of West Virginia, 1903, and Yale University, 1904; M.D., Johns Hopkins University, 1908; Resident Pathologist, Pennsylvania Hospital, 1910-11; Instructor in Pathology, University and Bellevue Hospital Medical College, 1908-10, and Tulane University, 1911-12; Assistant Professor of Pathology, University of California, 1912-17. Assistant Physician to the St. Louis Children’s Hospital and Physician to Out Patients, Washington University Dispensary.

4225 McPherson Avenue

EDWARD RILEY ALLEN, PH.D. Associate in Biological Chemistry
B.S., University of Illinois, 1906; Ph.D., Cornell University, 1913. Assistant in Chemistry, Cornell University, 1911-12; Scientific Assistant, United States Department of Agriculture, 1906-10; Associate in Soil Biology and Technology, Ohio Agricultural Experiment Station, 1913-17. Acting Associate in Biological Chemistry, Washington University School of Medicine, 1917-18.

4383 Forest Park Boulevard

HERBERT SPENCER GASSER, M.D. Associate in Physiology

5919 McPherson Avenue

ARTHUR OSCAR FISHER, M.D. Associate in Clinical Surgery
A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909; Resident House Officer and Assistant Resident Surgeon, Johns Hopkins Hospital, 1909-11. Assistant and Instructor in Surgery, Washington University Medical School, 1911-18. Visiting Surgeon, St. Louis City Hospital, Assistant Surgeon to the Barnes Hospital and to the St. Louis Children’s Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Humboldt Building
WILLIAM EWING SHANAN, M.D. Associate in Clinical Ophthalmology
Metropolitan Building

MALCOLM ANDREWS BLISS, M.D. Instructor in Clinical Psychiatry
D.D.S., Missouri Dental College, 1884; M.D., Northwestern University, 1890. Lecturer on Neurology and Instructor in Psychiatry, Washington University Medical School, 1902-10. Associate Physician, St. Louis City Hospital, and Consulting Physician, City Sanitarium.
Humboldt Building

WALTER BAUMGARTEN, M.D. Instructor in Clinical Medicine
A.B., Johns Hopkins University, 1894; M.D., St. Louis Medical College, 1896; Interne, Female Hospital and St. Louis City Hospital, 1896-97. Assistant in Physiology, Harvard Medical School, 1897-98; Assistant in Medicine, Johns Hopkins Medical School, 1902-03; Instructor in Clinical Chemistry and Microscopy, Washington University Medical School, 1908-08. Member of the Medical Staff, St. Louis Maternity Hospital, 1908-13. Member of the Medical Staffs, St. Luke's Hospital and St. Louis Mullanphy Hospital. Assistant Physician to the Barnes Hospital.
Humboldt Building

WILLIAM EMIL SAUER, M.D. Instructor in Clinical Laryngology
M.D., Medical Department of Washington University, 1896; Interne, St. Louis City Hospital and Female Hospital, 1896-97. Clinical Instructor in Laryngology, Washington University Medical School, 1906-11. Assistant Physician, St. Louis Insane Asylum, 1897-98; Clinical Assistant, Surgeon to Out Patients, and Chief of Laryngological Out Patient Clinic, 1907-14, Washington University Hospital; Otologist and Laryngologist to St. Louis Mullanphy Hospital and Bethesda Hospital; Laryngologist to St. Louis Maternity Hospital. Visiting Surgeon, St. Louis City Hospital, and Assistant Laryngologist to the Barnes Hospital.
Humboldt Building

WILLIAM HEWSON MOOK, M.D. Instructor in Clinical Dermatology
M.D., Beaumont Medical College, 1900; Interne, St. Louis City Hospital, 1900-01, and New York Skin and Cancer Hospital, 1903-05. Associate
Professor of Dermatology, St. Louis University, 1910-12. Visiting Dermatologist, St. Louis City Hospital, 1910-12; Associate Physician, Barnard Free Skin and Cancer Hospital; Dermatologist, Missouri Pacific Railway Hospital. Visiting Physician, St. Louis City Hospital, Assistant Dermatologist to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

FREDERICK THEODORE FAHLEN,* M.D. Instructor in Clinical Medicine
M.D., Washington University Medical School, 1903; Interne, St. Louis Mullanphy Hospital, 1902-03. Assistant in Medicine, Washington University Medical School, 1910-14; Chief of Laboratory and Member of Staff, St. Louis Mullanphy Hospital. Visiting Physician, St. Louis City Hospital.

5594 Bartmer Avenue

JEROME EPSTEIN COOK, M.D. . . . Instructor in Clinical Medicine
M.D., Washington University Medical School, 1908; Assistant Physician, St. Louis City Hospital, 1905-06. Professor of Bacteriology and General Pathology, Washington University Dental School; Assistant in Medicine, Washington University Medical School, 1910-14; Associate Physician to the Jewish Hospital. Member of Editorial Staff, Interstate Medical Journal. Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.

Metropolitan Building

GRANDISON DELANEY ROYSTON, M.D. Instructor in Clinical Obstetrics
M.D., Washington University Medical School, 1907; Junior and Senior Obstetrical Resident, Washington University Hospital, 1907-09. Assistant in Obstetrics, Washington University Medical School, 1913-15. Assistant Superintendent, St. Louis Female Hospital, 1910; Member of Medical Staff, St. Louis Maternity Hospital, 1913-. Assistant Obstetrician to the Barnes Hospital and Chief of the Obstetrical and Gynecological Clinic, Washington University Dispensary.

3705 Lindell Boulevard

HENRY EDWARD MILLER, M.D. Instructor in Clinical Laryngology and Rhinology
M.D., Washington University Medical School, 1902; Interne, St. Louis

* Absent on leave.
THE SCHOOL OF MEDICINE. 21

City Hospital, 1902-03. Surgeon to Out Patients, Washington University Dispensary.

Metropolitan Building

CHARLES ARMIN GUNDELACH, M.D. Instructor in Clinical Laryngology and Rhinology

M.D., Washington University Medical School, 1908; Interne, St. Louis City Hospital, 1908-09. Assistant in Laryngology and Rhinology, Washington University Medical School, 1915. Consulting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Lister Building

LLEWELLYN SALE, M.D. . . . . . . . Instructor in Clinical Medicine

M.D., Washington University Medical School, 1907; Interne, St. Louis City Hospital, 1907-08. Assistant Professor, St. Louis University School of Medicine, 1910-14; Assistant in Medicine, Washington University Medical School, 1914-16; formerly Consulting Physician, St. Louis City Hospital; Associate Physician, Jewish Hospital, St. Louis. Physician to Out Patients, Washington University Dispensary.

Wall Building

ADRIEN SAMUEL BLEYER, M.D. . . . Instructor in Clinical Pediatrics

M.D., Missouri Medical College, 1899; Assistant Physician, St. Louis City Hospital, 1899-1900, and Female Hospital, 1900-01. Lecturer on Hygiene, Medical Department of Washington University, 1907-11. Assistant Editor and Editor, Medical Bulletin of Washington University, 1908-08. Lecturer on Preventive Medicine, Washington University Medical School, 1912-; Active Pediatrician, St. Louis Maternity Hospital. Visiting Physician, St. Louis City Hospital, and Physician to Out Patients, Washington University Dispensary.

706 North Kingshighway

LOUIS HENRY HEMPELMANN, M.D. . . . . . . . Instructor in Clinical Medicine

M.D., Medical Department of Washington University, 1896; Interne, St. Louis City Hospital and City Insane Asylum, 1896-98. Assistant Superintendent, Insane Asylum, 1898; Instructor in Clinical Medicine, Washington University Medical School, 1904-12; Consultant, St. Louis City Hospital, 1909-11; Visiting Physician, St. Louis Mullanphy Hospital and Deaconess Hospital.

Metropolitan Building
Hugh McCulloch, M.D. . . . . . . Instructor in Pediatrics
A.B., University of Arkansas, 1908; M.D., Johns Hopkins Medical School, 1912; Resident House Officer, Washington University Hospital, 1912-13; Resident Physician, Washington University and Barnes Hospital, 1912-15. Assistant Physician, St. Louis Children’s Hospital, and Physician to Out Patients, Washington University Dispensary.

St. Louis Children’s Hospital

Theodore C. Hempelmann, M.D. . . . . . . Instructor in Clinical Pediatrics
M.D., Washington University Medical School, 1908; Interne, St. Louis City Hospital, 1908-09. Assistant Physician to Out Patients, St. Louis Children’s Hospital, 1911-13; Pediatrician to the Deaconess Hospital; Visiting Physician, St. Louis City Hospital and Infectious Disease Hospital. Assistant Physician to the St. Louis Children’s Hospital, and Physician to Out Patients, Washington University Dispensary.

The Metropolitan Building

Howard Homer Bell, M.D. . . . . . . . Instructor in Pathology
M.D., University of Pennsylvania, 1912; Interne, Harrisburg General Hospital, 1912-13. Assistant in Pathology and Bacteriology, University of Alabama School of Medicine, 1913-14; Assistant in Pathology, Washington University Medical School, 1914-16. Assistant Pathologist to the Barnes Hospital.

Euclid Avenue and Kingshighway

Frank Norman Wilson, M.D. . . . . . . . Instructor in Medicine
B.S., University of Michigan, 1911, and M.D., 1913; Interne, University Hospital, Ann Arbor, First Assistant in Internal Medicine, and Instructor in Internal Medicine, 1913-16, University of Michigan. Physician to Out Patients, Washington University Dispensary.

Euclid Avenue and Kingshighway

George Castleman Mackay, LL.B. . . . . . . Instructor in Medical Jurisprudence
LL.B., Harvard University, 1904.

Security Building

Harry Webster Lyman, M.D. . . . . . . . Instructor in Clinical Otology
M.D., St. Louis College of Physicians and Surgeons, 1895; Interne, St. Louis Woman’s Hospital, 1895-96; Clinical Clerk, London Hospital, 1900.
THE SCHOOL OF MEDICINE.

Assistant, St. Louis College of Physicians and Surgeons, 1895-96; Consulting Otologist, Rhinologist and Laryngologist, St. Louis City Hospital, 1905-10. Demonstrator and Professor of Anatomy, St. Louis College of Physicians and Surgeons, 1900-07; Assistant in Otology, Washington University Medical School, 1914-16. Surgeon to Out Patients, Washington University Dispensary.

Carleton Building

JACOB JESSE SINGER, M.D. . . Instructor in Clinical Medicine

M.D., Washington University Medical School, 1904; Interne, St. Louis Female Hospital, 1904-06. Assistant Physician, City Dispensary, 1906-09. Consulting Physician, City Sanitarium, 1914-16; Assistant Physician to Out Patients, Washington University Dispensary, 1911-16; Consulting Physician, Lutheran Hospital; Physician to Night and Day Camp; Consultant to Municipal Nurses' Board and to the Jewish Home for Chronic Invalids. Physician to Out Patients, Washington University Dispensary.

5752 Westminster Place

SAMUEL WOLCOTT CLAUSEN, M.D. . . Instructor in Pediatrics

A.B., Williams College, 1910; M.D., Johns Hopkins University, 1915; Interne and Assistant Resident Physician, Johns Hopkins Hospital, 1915-17. Assistant Physician to the St. Louis Children's Hospital and Physician to Out Patients, Washington University Dispensary.

St. Louis Children's Hospital

JULIUS HENRY GROSS, M.D. Instructor in Clinical Ophthalmology

M.D., Medical Department of Washington University, 1893; Interne, City Infirmary, 1893-95. Volunteer Assistant at Eye Clinic, University of Kiel, 1899; Instructor in Ophthalmology and Assistant in Clinical Ophthalmology, Washington University Medical School, 1909-18. Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Carleton Building

OTTO HENRY SCHWARZ, M.D. . . Instructor in Clinical Obstetrics

M.D., Washington University Medical School, 1913; Interne, St. Louis Children's Hospital, 1913, and Washington University Hospital, 1914; Resident Obstetrician, Barnes Hospital, 1914-15. Assistant in Clinical Obstetrics, Washington University School of Medicine, 1915-18. Assistant Gynecologist to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

440 N. Newstead Avenue
LEO CHAPMAN BEAN, M.D. . . . . . . . . Instructor in Medicine
Ph.B., Ohio University, 1911; M.D., Johns Hopkins University, 1915; Interne, Union Protestant Infirmary, Baltimore, 1915-16; Assistant Resident Physician, Bay View Hospital, Baltimore, 1916-17. Assistant in Pathology, Washington University School of Medicine, 1917-18. Physician to Medical Students, Washington University, and Physician to Out Patients, Washington University Dispensary.

4418 Forest Park Boulevard

WILLIAM FREDERIC HARDY, M.D. Instructor in Clinical Ophthalmology
M.D., Washington University, 1901; Interne, St. Louis City Hospital, 1901-02; Assistant Editor, American Journal of Ophthalmology, 1917; Collaborator, American Journal of Ophthalmology, 1918-. Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1917-18. Associate Surgeon to the St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Metropolitan Building

WILLIAM MORGAN CASE BRYAN, M.D. Instructor in Clinical Laryngology and Rhinology
A.B., Washington University, 1897; M.S., University of Michigan, 1898; M.D., Johns Hopkins University, 1902; Interne, German Hospital, 1902-04. Instructor, Ear, Nose and Throat Diseases, St. Louis University, 1908-16; Assistant in Clinical Laryngology and Rhinology, Washington University School of Medicine, 1917-19. Oto-Laryngologist, Alexian Brothers Hospital, 1908-16; Visiting Oto-Laryngologist, St. Louis City Hospital, 1914-15; Consultant in Oto-Laryngology, Alexian Brothers Hospital and St. John's Hospital. Chief of the Laryngological Clinic, Washington University Dispensary.

Humboldt Building

WALTER FISCHEL, M.D. . . . . . . . . Instructor in Clinical Medicine
A.B., Harvard University, 1902; M.D., Washington University Medical School, 1905; Assistant Physician, St. Louis City Hospital, 1905-06. Clinical Assistant, 1908-09, Physician to Out Patients, 1909-14, Washington University Hospital; Assistant in Clinical Medicine, Washington University School of Medicine, 1909-19. Visiting Physician, St. Luke's Hospital. Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.

Humboldt Building
Julian Yerkes Malone, M.S. .... Instructor in Pharmacology

697 South Kingshighway

James Craig Small, M.D. ......... Instructor in Bacteriology
B.S., Pennsylvania College, 1911; M.D., University of Illinois, 1917; Interne, Cook County Hospital, 1917; Assistant in Physiological Chemistry, University of Illinois, 1917.

Buckingham Annex

Adolph George Schlossstein, M.D. .... Assistant in Clinical Obstetrics
M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, Female Hospital and Physician to City Dispensary, 1894-99; Interne, Frauenklinik, Munich, 1897. Clinical Assistant, Instructor and Lecturer, Washington University Medical School, 1899-1912. Assistant Obstetrician to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

3153 Longfellow Boulevard

James Archer O'Reilly, M.D. Assistant in Clinical Orthopedic Surgery
A.B., Harvard University, 1902, and M.D., 1906; Interne, Carney Hospital, Boston, 1906-07. Assistant in Orthopedic Clinic, Children's Hospital, Boston; Instructor in Orthopedic Surgery, St. Louis University Medical School, 1907-11. Orthopedic Surgeon to St. John's Hospital, Rebekah Hospital, and Mt. St. Rose Hospital. Visiting Surgeon, St. Louis City Hospital, Assistant Surgeon to the St. Louis Children's Hospital and the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Metropolitan Building

Quitman Underwood Newell, M.D. .... Assistant in Clinical Obstetrics
M.D., University of Alabama School of Medicine, 1911; Interne, Southern Infirmary, Mobile, 1911; House Officer, 1911-12, and Resident Obstetrician and Gynecologist, 1912-14, Washington University Hospital; Obstetrician, St. Louis Maternity Hospital. Surgeon to Out Patients, Washington University Dispensary.

Wall Building
WALTER CHARLES GEORGE KIRCHNER, M.D.  Assistant in Clinical Surgery
A.B., Washington University, 1897; M.D., Washington University Medical Department, 1901; Interne, St. Louis City Hospital, 1901-03. Assistant and Instructor in Bacteriology, Washington University Medical Department, 1903-05. Assistant Bacteriologist, Health Department, St. Louis, 1901; Assistant Superintendent, 1903-07, Superintendent, and Surgeon in Charge, 1907-10, St. Louis City Hospital; Consulting Surgeon, St. John’s Hospital.  Visiting Surgeon, St. Louis City Hospital.

CHARLES ELIHU HYNDMAN, M.D.  Assistant in Clinical Surgery
M.D., Washington University Medical School, 1906; Interne, St. Louis City Hospital, 1906-07, St. Luke’s Hospital, 1907-08. Assistant in Surgery, Barnard Free Skin and Cancer Hospital, 1908-12; Assistant Surgeon to Out Patients, St. Louis Children’s Hospital, 1910-14; Assistant in Surgery, St. Louis Mullanphy Hospital.  Visiting Surgeon, St. Louis City Hospital.

PHELPS GRANT HURFORD, M.D.  Assistant in Clinical Pediatrics
M.D., Washington University Medical School, 1908; Interne, Washington University Hospital, 1907-08, St. Louis City Hospital, 1908-09. Assistant Surgeon to Out Patients, St. Louis Children’s Hospital, 1910-14. Visiting Pediatrician, St. Louis Lutheran Hospital.  Visiting Physician, Infectious Disease Hospital, and Physician to Out Patients, Washington University Dispensary.

CHARLES ALLEN STONE, M.D.  Assistant in Clinical Orthopedic Surgery
B.S., Blackburn College, Ill., 1904; M.D., Washington University Medical School, 1908; Interne, Martha Parsons Free Hospital for Children, 1908-09. Assistant Surgeon to Out Patients, Martha Parsons Free Hospital for Children and St. Louis Children’s Hospital, 1908-14. Visiting Surgeon, St. Louis City Hospital, and Assistant Surgeon to Out Patients, Washington University Dispensary.

WILLIAM MURRAY ROBERTSON, M.D.  Assistant in Clinical Surgery
M.D., University of Virginia, 1889; Interne, New York City Hospital, 1890-91. Instructor in Genito-Urinary Surgery, Medical Department of
Henry McClure Young, M.D. . . . Assistant in Clinical Surgery
A.B., Yale University, 1899; M.D., Washington University Medical School, 1908; Interne, St. Louis City Hospital, 1908-09. Voluntary Assistant, University of Koenigsberg, 1909-10; Instructor in Surgery, St. Louis University School of Medicine, 1911-13. Assistant Genito-Urinary Surgeon, St. Louis Mullanphy Hospital, 1913-15. Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Frank Henry Ewerhardt, M.D. . . . . . . . . . Assistant in Medicine

William Harwood Olmsted, M.D. . . . . Assistant in Medicine
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913; Interne, Washington University Hospital, 1913-14. Assistant Resident Physician, Barnes Hospital.

Joseph William Larimore, M.D. . . . . . . . . Assistant in Clinical Medicine
A.B., DePauw University, 1908; M.D., Washington University Medical School, 1913; Interne, Washington University Hospital, 1913-14. Physician to Out Patients, Washington University Dispensary.

Georges Ives, M.D. . . . . . . . . . . . Assistant in Clinical Medicine
A.B., University of Wisconsin, 1907; M.D., Johns Hopkins University, 1911. Assistant in Physiology, University of Wisconsin, 1908; Assistant Professor of Pathology, St. Louis University School of Medicine, 1912-15;
Assistant State Bacteriologist, Alabama, 1911-12; Pathologist, North Chicago Hospital, 1912; Pathologist, St. John's Hospital, St. Louis, 1912-15; Assistant in Dermatology, Washington University Medical School, 1916-17; Pathologist, Missouri Baptist Sanitarium, 1917--; Consultant in Pathology, U. S. Marine Hospital, St. Louis, 1918.

University Club Building

Edwin Partridge Lehman, M.D. . . . . Assistant in Surgery
A.B., Williams College, 1910; M.D., Harvard University, 1914; Interne, Peter Bent Brigham Hospital, Boston, 1914-15. Assistant Resident Surgeon, Barnes Hospital, 1915-16.

Barnes Hospital

Oliver Howard Campbell, M.D. . . Assistant in Clinical Medicine
M.D., Missouri Medical College, 1899; Interne, St. Louis City Hospital, 1899-1900. Assistant Physician to Out Patients, Washington University Hospital Dispensary, 1903-11; Instructor in Physiology, Washington University Dental School, 1907-. Visiting Physician, St. Louis City Hospital.

3542 Washington Avenue

Charles Hermann Eyrermann, M.D. . . . Assistant in Clinical Medicine
M.D., St. Louis University, 1911; Interne and Assistant Resident Physician, 1911-13, and Resident Internist, 1915, St. Louis City Hospital. Physician to Medical Students, Washington University, and Physician to Out Patients, Washington University Dispensary.

3100a Pennsylvania Avenue

Sherwood Moore, M.D. . . . . . . . . Assistant in Surgery
M.D., Washington University, 1905; Interne, St. Louis City Hospital, 1905-06; Resident, Washington University Hospital, 1906-07; Instructor in Obstetrics, Washington University Medical School, 1907-09. Assistant in Surgery, St. Louis Children's Hospital, 1910-13; House Physician, Massachusetts General Hospital, X-ray Department, 1916-17. Roentgenologist in Charge of the Actinographic Laboratory, Barnes Hospital.

5858 Nina Place

Ellis Fischel, M.D. . . . . . . . . . . . . . Assistant in Clinical Surgery
A.B., Harvard University, 1904; M.D., Washington University, 1908; Interne, St. Louis City Hospital, 1908-10. Formerly Assistant in Pathology, and Voluntary Assistant in Surgery, University of Berne. Assist-
ant Surgeon to Out Patients, Washington University Dispensary, 1913-16; Chief Surgeon, Barnard Free Skin and Cancer Hospital. Visiting Surgeon, St. Louis City Hospital.

Humboldt Building

MICHAEL KASAK, M.D. ................. Assistant in Medicine
5660 Kingsbury Boulevard

LEITH HOLLINSHEAD SLOCUMB, M.D. .... Assistant in Clinical Medicine
M.D., Washington University, 1918; Intern, St. Louis City Hospital, 1913-14. Physician to Out Patients, Washington University Dispensary.
3743 Sylvan Place

ALPHONSE FERDINAND DAMES, M.D. Assistant in Clinical Laryngology and Rhinology
M.D., Washington University, 1906. Assistant, Ear, Nose and Throat Clinic, Mullanphy Hospital, 1910-14; Assistant Surgeon to Out Patients, Washington University Hospital Dispensary, 1907-14; Oto-Laryngologist, St. Mary’s Infirmary, St. Louis, and St. Mary’s Hospital, East St. Louis. Surgeon to Out Patients, Washington University Dispensary.
Metropolitan Building

MILLARD FILLMORE ARBUCKLE, M.D. Assistant in Clinical Laryngology and Rhinology
East St. Louis

RICHARD SIMON WEISS, M.D. ... Assistant in Clinical Dermatology
M.D., Washington University, 1909; Intern, St. Louis City Hospital, 1909-10. Visiting Physician, St. Louis City Hospital, 1914-15, and Sanitarium and Isolation Hospital, St. Louis, 1914-; Dermatologist to Lutheran Hospital, 1918-. Physician to Out Patients, Washington University Dispensary.
Wall Building
Jack Furman Perkins, M.D. . . . . . Assistant in Pediatrics
M.D., Vanderbilt University, 1914; Interne, Gouverneur Hospital, 1916;
Junior Interne and Resident Physician, Bellevue Hospital, 1916-18. Resident Physiclan, St. Louis Children's Hospital, 1918-19.

St. Louis Children's Hospital

Raleigh K. Andrews, M.D. . . . . . Assistant in Medicine
B.S., University of Nebraska, 1915; M.D., Washington University, 1916;
Interne, St. Louis Children's Hospital, 1916-17. Assistant Resident Physician, Barnes Hospital, 1917-18. Resident Physician, Barnes Hospital.

Barnes Hospital

William Theodore Wilkening, M.D. . . . Assistant in Surgery
M.D., Washington University, 1915; Interne, Barnes Hospital, 1915-16.
Assistant Resident and Resident in Obstetrics, Barnes Hospital, 1916-18. Resident Surgeon, Barnes Hospital.

Barnes Hospital

Adolph Henry Conrad, M.D. . Assistant in Clinical Dermatology
M.D., St. Louis University, 1906. Associate Physician, Barnard Free Skin and Cancer Hospital, 1908-15. Assistant Physician to Out Patients, Washington University Dispensary.

Wall Building

Bennett Young Alvis, M.D. . . . . . Assistant in Surgery

4576 Clayton Avenue

Horace Harvey Shackelford, M.D. Assistant in Biological Chemistry
A.M., University of Missouri, 1913; M.D., Washington University, 1918.
Instructor in Science, Hannibal High School, 1910-11. Instructor in Science, Shreveport High School, 1911-12; Student Assistant in Biological Chemistry, Washington University School of Medicine, 1914-18.

3632 Lafayette Avenue
L. S. Newman Walsh, M.D. . . . . . . . . . . Assistant in Pathology
D.V.M., Kansas City Veterinary College, 1912; M.D., St. Louis University, 1916. Assistant in Comparative Pathology, Washington University School of Medicine, 1916-17. Resident Pathologist, Barnes Hospital and Assistant Pathologist to the St. Louis Children’s Hospital.

Barnes Hospital

Hans Peter Andersen . . . . . . . . . . Assistant in Pathology
M.D., Washington University, 1919.

4508a Papin Street

Frank Powell McNalley, M.D. . Assistant in Clinical Obstetrics
B.S., Washington University, 1915; M.D., 1917; Interne, Barnes Hospital, 1917-18. Resident Obstetrician, Barnes Hospital.

Barnes Hospital

Harry Gus Greditzer, M.D. . . . . . . . Assistant in Surgery

Humboldt Building

Warren Robert Rainey, M.D. . . . . . Assistant in Clinical Surgery
M.D., Northwestern University Medical School, 1910. Surgeon to Out Patients, Washington University Dispensary.

Frederick Book Abbott, M.D. . . . . . Assistant in Clinical Surgery
M.D., Washington University Medical School, 1914. Interne, Washington University Hospital, 1914-15; Assistant Resident Surgeon, Barnes Hospital, 1916-17. Assistant Surgeon to Out Patients, Washington University Dispensary.

Forest Henry Staley, M.D. . . . . . . . Assistant in Surgery
A.B., University of Wisconsin, 1909; M.D., Washington University Medical School, 1918. Instructor in Biology, Sterling (Illinois) Township High School, 1909-11; Instructor in Science, Madison (Wisconsin) High School, 1911-14; Student Assistant in Anatomy, Washington University Medical School, 1914-18. Acting Resident Surgeon to the Barnes Hospital.

Barnes Hospital
MAURICE JULIUS LONSWAY, M.D. Assistant in Clinical Pediatrics

B.S., Valparaiso University, 1910; M.D., St. Louis University School of Medicine, 1914. Interne, Washington University Hospital, 1914-15; Resident Physician, St. Louis Children’s Hospital, 1917-18. Assistant Physician to Out Patients, Washington University Dispensary.

Wall Building
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Philip C. Jeans, M.D., Secretary of General Faculty

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Ernest Sachs, M.D. . . . . . . . . . . . . . . . . . Associate Surgeon
Vilray P. Blair, M.D.
Nathaniel Allison, M.D.
Malvern B. Clopton, M.D.
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Acting Resident Surgeon
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Adolph G. Schlossstein, M.D.
Grandison D. Royston, M.D.
Frank P. McNalley, M.D. ....... Resident Obstetrician and Gynecologist

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Special Departments

John B. Shapleigh, M.D. ....... Otologist
Albert F. Koetter, M.D. ....... Assistant Otologist
Arthur E. Ewing, M.D. ....... Ophthalmologist
Meyer Wiener, M.D. ....... Assistant Ophthalmologist
Greenfield Shuder, M.D. ....... Laryngologist
William E. Sauer, M.D. ....... Assistant Laryngologist
C. Armin Gundelach, M.D. ....... Assistant Laryngologist
Martin F. Engman, M.D. ....... Dermatologist
William H. Mook, M.D. ....... Assistant Dermatologist
Sidney I. Schwab, M.D. ....... Neurologist
James A. Brown, D.D.S. ....... Dentist
William B. Spotts, D.D.S. ....... Acting Dentist

* Deceased December 7, 1918.
Frank H. Ewerhardt, M.D. . . . . Physician in Charge of
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Therapeutic Department

Sherwood Moore, M.D. . . . . Roentgenologist in Charge
R. Walter Mills, M.D. . . . . Roentgenologist

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Montrose T. Burrows, M.D. . . . . Associate Pathologist
L. S. Newman Walsh, M.D. . . . . Resident Pathologist

THE ST. LOUIS CHILDREN’S HOSPITAL
Fred T. Murphy, M.D. . . . . Surgeon in Chief
W. McKim Marriott, M.D. . . . . Physician in Chief
Eugene L. Opie, M.D. . . . . Pathologist
Ernest Sachs, M.D. . . . . Assistant Surgeon acting
in Charge of the Surgical Service

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George M. Tuttle, M.D. . . . . Consulting Physician
Borden S. Veeder, M.D.
Philip C. Jeans, M.D.
Theodore C. Hempelmann, M.D.
Hugh McCulloch, M.D.
Jean V. Cooke, M.D.
Samuel W. Clausen, M.D.
Jack F. Perkins, M.D.
Wayne A. Rupe, M.D. . . . . Assistant Resident Physician
Joseph P. Costello, M.D.
James W. Chapman, M.D.
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Archer O'Reilly, M.D.
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John B. Shapleigh, M.D.
Albert F. Koetter, M.D.
Arthur E. Ewing, M.D.
Greenfield Sluder, M.D.
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Martin F. Engman, M.D.
Sidney I. Schwab, M.D.
Montrose T. Burrows, M.D.
L. S. Newman Walsh, M.D.

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- **Otolist**
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- **Assistant Otolist**
  - Fred T. Murphy, M.D.
- **Ophthalmologist**
  - Henry Schwarz, M.D.
- **Laryngologist**
  - John B. Shapleigh, M.D.
- **Assistant Laryngologist**
  - Greenfield Sluder, M.D.
- **Dermatologist**
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- **Neurologist**
  - Augusta K. Mathieu, R.N.
- **Associate Pathologist**
  - Martin F. Engman, M.D.
- **Assistant Pathologist**
  - Sidney I. Schwab, M.D.
- **Assistant Pathologist**
  - Martin F. Engman, M.D.

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

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- **Otolist in Chief**
  - John B. Shapleigh, M.D.
- **Laryngologist in Chief**
  - Greenfield Sluder, M.D.
- **Pediatrician in Chief**
  - W. McKim Marriott, M.D.
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  - Leo C. Bean, M.D.
  - Charles H. Eyermann, M.D.
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  - Frank N. Wilson, M.D.
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- **Physicians to Out Patients**
  - Leo C. Bean, M.D.
  - Charles H. Eyermann, M.D.
  - Llewellyn Sale, M.D.
  - Jerome E. Cook, M.D.
  - Frank N. Wilson, M.D.
  - Levi H. Fuson, M.D.

- **Assistant Physician to Out Patients**
  - Leo C. Bean, M.D.
  - Charles H. Eyermann, M.D.
  - Llewellyn Sale, M.D.
  - Jerome E. Cook, M.D.
  - Frank N. Wilson, M.D.
  - Levi H. Fuson, M.D.
Gastro-Intestinal Division
R. Walter Mills, M.D. . . . . . . Physician in Charge
Joseph W. Larimore, M.D.
Leith H. Slocumb, M.D.
Allan A. Gilbert, M.D.
Frank D. Gorham, M.D.
Carl A. W. Zimmermann, M.D. } . . Physicians to Out Patients

Physicians to Out Patients

Gastro-Intestinal Division
Joseph W. Larimore, M.D.
Leith H. Slocumb, M.D.
Allan A. Gilbert, M.D.
Frank D. Gorham, M.D.
Carl A. W. Zimmermann, M.D. } . . Assistant Physicians to Out Patients

Tuberculosis Division
Jacob J. Singer, M.D. . . . . . . Physician in Charge
Adolph M. Frank, M.D.
Adelheid C. Bedal, M.D.
Howard Carter, M.D. } . . Assistant Physicians to Out Patients

Surgery
Ernest Sachs, M.D. . . . . . . Chief of Clinic
Arthur O. Fisher, M.D.
Barney Brooks, M.D.
Warren R. Rainey, M.D.
Roland F. Fisher, M.D.
Bennett Y. Alvis, M.D. } . . Surgeons to Out Patients

Obstetrics and Gynecology
Grandison D. Royston, M.D. . . . . Chief of Clinic
Quitman U. Newell, M.D.
Adolph J. Schlossstein, M.D. } . . Surgeons to Out Patients
Otto H. Schwarz, M.D.

Pediatrics
Philip C. Jeans, M.D. . . . . . . Chief of Clinic
Theodore C. Hempelmann, M.D.
Adrien S. Bleyer, M.D.
Jean V. Cooke, M.D.
Hugh McCulloch, M.D.
Samuel W. Clausen, M.D.
Phelps G. Hurford, M.D.
Maurice J. Lonsway, M.D.
Wayne A. Rupe, M.D. } . . Physicians to Out Patients

Physicians to Out Patients

Assistant Physicians to Out Patients

Obstetrics and Gynecology
Grandison D. Royston, M.D.
Quitman U. Newell, M.D.
Adolph J. Schlossstein, M.D.
Otto H. Schwarz, M.D.

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Theodore C. Hempelmann, M.D.
Adrien S. Bleyer, M.D.
Jean V. Cooke, M.D.
Hugh McCulloch, M.D.
Samuel W. Clausen, M.D.
Phelps G. Hurford, M.D.
Maurice J. Lonsway, M.D.
Wayne A. Rupe, M.D. } . . Assistant Physicians to Out Patients

Assistant Physicians to Out Patients
Neurology
Sidney I. Schwab, M.D. . . . . Chief of Clinic
Francis M. Barnes, M.D.
Michael Kasak, M.D. } . . Physicians to Out Patients

Dermatology
Martin F. Engman, M.D. . . . . Chief of Clinic
William H. Mook, M.D.
Richard Weiss, M.D.
Adolph H. Conrad, M.D.
Vischer V. Wood, M.D.
Aloys S. Heithaus, M.D. } . . Assistant Physicians to
Physicians to Out Patients
Out Patients

Orthopedic Surgery
Nathaniel Allison, M.D. . . . . Chief of Clinic
Archer O'Reilly, M.D.
Charles A. Stone, M.D.
Marion L. Klinefelter, M.D.
Frank H. Ewerhardt, M.D.
J. Edgar Stewart, M.D.
Frederick B. Abbott, M.D. } . . Assistant Surgeons to
Surgeons to Out Patients
Out Patients

Ophthalmology
Arthur E. Ewing, M.D. . . . . Chief of Clinic
Meyer Wiener, M.D.
Julius H. Gross, M.D.
William E. Shahan, M.D.
William F. Hardy, M.D.
Frederick O. Schwartz, M.D.
William C. Owen, M.D.
M. Hayward Post, M.D.
Max W. Jacobs, M.D.
Lawrence Post, M.D.
Dorcas F. Meadows, M.D.
Amalie M. Napier, M.D.
Leverett H. Crapp, M.D.
Claude P. Dyer, M.D. } . . Assistant Surgeons to
Surgeons to Out Patients
Out Patients
Otology

Albert F. Koetter, M.D. . . . . Chief of Clinic
Harry W. Lyman, M.D. . . . . Surgeon to Out Patients
George E. Hourn, M.D.
Isaac D. Kelley, M.D.
Arthur W. Proetz, M.D.
George A. Griot, M.D.
Stanley S. Burns, M.D.

Assistant Surgeons to Out Patients

Laryngology

William M. C. Bryan, M.D. . . . . Chief of Clinic
C. Armin Gundelach, M.D.
H. Edward Miller, M.D.
Millard F. Arbuckle, M.D.
Alphonse F. Dames, M.D.
Richard J. Payne, M.D.
Ulysses S. Short, M.D.
Lemuel B. Short, M.D.
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Albert E. Rives, M.D.
Charles P. Renner, M.D.
Edward H. Lane, M.D.
August Dutzi, M.D.
William F. A. Schultz, M.D.

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Assistant Surgeons to Out Patients

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John R. Caulk, M.D. . . . . Chief of Clinic
H. McClure Young, M.D. } . . . . Surgeons to Out Patients
Harry G. Greditzer, M.D.
Newton W. Amos, M.D. . . . . Assistant Surgeon to Out Patients

WASHINGTON UNIVERSITY TRAINING SCHOOL FOR NURSES

Helen L. Bridge, B.S., R.N. . . . . Acting Director of the School and Superintendent of Nurses

Homer C. Harris, R.N. . . . . First Assistant
Alta J. Kindell, R.N. . . . . Second Assistant
Benta V. Whitaker, R.N. . . . . Third Assistant
THE SCHOOL OF MEDICINE.

SOCIAL SERVICE

Louise H. Wenzel . . . . . . Acting Head Worker

THE ST. LOUIS CITY HOSPITAL

Visiting Physicians and Surgeons to the City Hospital* and other City institutions are designated by Washington University to act as follows:

**Medicine**

- George Dock, M.D. . . . . . . Consulting Physician
- Albert E. Taussig, M.D. . . . . . . Chief of Staff
- Jerome E. Cook, M.D.
- Frederick T. Fahlen, M.D.
- Walter Fischel, M.D.
- Llewellyn Sale, M.D. . . . . . . Associate Physicians
- Oliver H. Campbell, M.D.
- Lionel S. Luton, M.D.
- Vischer V. Wood, M.D.

**Surgery**

- Fred T. Murphy, M.D. . . . . . . Consulting Surgeon
- Ernest Sachs, M.D. . . . . . . Acting Consulting Surgeon
- Arthur O. Fisher, M.D. . . . . . . Chief of Staff
- Walter C. G. Kirchner, M.D.
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- Leon C. McAmis, M.D.

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- Raymond M. Spivy, M.D.

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Adrien S. Bleyer, M.D. . . . Associate Physician

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William M. Robertson, M.D. . . . Chief of Staff
H. McClure Young, M.D. } . . . Associate Surgeons
D. Buie Garstang, M.D.

Genito-Urinary Surgery
John H. Kennerly, M.D., D.D.S. . . Dentist
Infectious Disease Hospital

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Borden S. Veeder, M.D.
Theodore C. Hempelmann, M.D.  .  .  Chief of Staff
Philip C. Jeans, M.D.
Phelps G. Hurford, M.D.  .  .  .  Associate Physicians
George M. Tuttle, M.D.

City Sanitarium

Malcolm A. Bliss, M.D.  .  .  .  Consulting Physicians
Francis M. Barnes, Jr., M.D.  .  .  .  Consulting Surgeon
Ernest Sachs, M.D.  .  .  .  .  .  .  .  Consulting Surgeon

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Dr. Llewellyn Sale, Lieutenant-Colonel, M. C., U. S. A.
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Dr. Frederick O. Schwartz, Captain, M. C., U. S. A.
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Dr. D. Buie Garstang, Captain, M. C., U. S. A.
Dr. Drew W. Luten, 1st Lieutenant, M. R. F., U. S. N.
Dr. John A. Judy, 1st Lieutenant, M. R. F., U. S. N.
Dr. Floyd C. Rice, 1st Lieutenant, M. R. F., U. S. N.
Dr. William H. Olmsted, 1st Lieutenant, M. C., U. S. A.
Dr. Joseph W. Larimore, 1st Lieutenant, M. C., U. S. A.
Dr. Edwin P. Lehman, 1st Lieutenant, M. C., U. S. A.
Dr. Frederick B. Abbott, 1st Lieutenant, M. C., U. S. A.
Dr. Joseph F. Bredeck, 1st Lieutenant, M. C., U. S. A.
Dr. Herman R. Cole, 1st Lieutenant, M. C., U. S. A.
Dr. Adolph M. Frank, 1st Lieutenant, M. C., U. S. A.
Dr. Levi H. Fuson, 1st Lieutenant, M. C., U. S. A.
Dr. P. P. Green, 1st Lieutenant, M. C., U. S. A.
Dr. George A. Griot, 1st Lieutenant, M. C., U. S. A.
Dr. Aloys S. Heithaus, 1st Lieutenant, M. C., U. S. A.
Dr. Noble DuBois McCormack, 1st Lieutenant, M. C., U. S. A.
Dr. John H. Murphy, 1st Lieutenant, M. C., U. S. A.
Dr. Richard J. Payne, 1st Lieutenant, M. C., U. S. A.
Dr. J. Edgar Stewart, 1st Lieutenant, M. C., U. S. A.
Dr. Philip M. Stimson, 1st Lieutenant, M. C., U. S. A.
Dr. H. V. Weihrauch, 1st Lieutenant, M. C., U. S. A.
Dr. Frank D. Gorham, 1st Lieutenant, M. C., U. S. A.
Dr. V. V. Wood, Assistant Surgeon, U. S. Public Health Service.
Dr. Henry St. Clair O'Donnell, 1st Lieutenant, M. C., U. S. A.
Dr. Montrose T. Burrows, 1st Lieutenant, M. C., U. S. A.
Dr. Malcolm A. Bliss, Contract Surgeon, M. C., U. S. A.
Dr. Samuel W. Clausen, 1st Lieutenant, M. C., U. S. A.
Dr. Charles E. Hyndman, 1st Lieutenant, M. C., U. S. A.
Dr. Omar R. Sevin, 1st Lieutenant, M. C., U. S. A.
Dr. Frank I. Darrow, 1st Lieutenant, M. C., U. S. A.
Dr. Kenneth C. Peacock, 1st Lieutenant, M. C., U. S. A.
Dr. Albert R. Tormey, 1st Lieutenant, M. C., U. S. A.
Dr. Wellwood M. Nesbit, 1st Lieutenant, M. C., U. S. A.
Dr. Mervin Freeman, 1st Lieutenant, M. C., U. S. A.
Dr. Edmond Bechtold, 1st Lieutenant, M. C., U. S. A.
Dr. Dalton K. Rose, 1st Lieutenant, M. C., U. S. A.
Dr. Richard P. Dorris, 1st Lieutenant, M. C., U. S. A.
Dr. Earl C. Sage, 1st Lieutenant, M. C., U. S. A.
Dr. Samuel F. Abrams, 1st Lieutenant, M. C., U. S. A.
Dr. Maurice J. Lonsway, 1st Lieutenant, M. C., U. S. A.
Dr. Ulysses S. Short, 1st Lieutenant, M. C., U. S. A.
Dr. Lemuel B. Short, 1st Lieutenant, M. C., U. S. A.
Dr. Benjamin F. May, 1st Lieutenant, M. C., U. S. A.
Dr. Michael D. Moran, 1st Lieutenant, M. C., U. S. A.
THE SCHOOL OF MEDICINE.

STUDENTS, 1918-19

STUDENTS ATTENDING GRADUATE AND SPECIAL COURSES

M.D., Wash. Univ., '03.

Chandler, Bethel B ........................................ Athens, Ga.
M.D., Atlanta Med. Col., '91.

Conway, Arthur ........................................... Webster Groves, Mo.
M.D., St. Louis Med. Col., '83.

DeLano, Albert Henry .................................... Lone Tree, Iowa
M.D., Univ. of Iowa, '87.

Jannopoulo, Aphrodite Maria .............................. Webster Groves, Mo.

Kalloch, Dudley Cromwell ................................. St. Louis
M.D., Tulane Univ., '11.

Liu, Chi Chêng ............................................. Pekin, China

McKean, Thomas Jeremiah ................................. Linn Grove, Ind.
M.D., Med. Col. of Ind., '05.

Shimota, Lewis Leonard ................................. Faribault, Minn.

Smith, Ronald Robertson ............................. Kansas City, Kans.
M.D., Univ. of Kans., '06.

FOURTH YEAR CLASS

Allen, Duff Shederic ...................................... Lebanon, Mo.

*Andersen, Hans Peter .................................. St. Louis
A.B., Univ. of Mo., '17.

Atorthy, Noresh Chandra ............................... Calcutta, India

*Baumgartner, Edwin Abe ................................. St. Louis
A.B., Univ. of Kans., '10; A.M., '11.
Ph.D., Univ. of Minn., '15.

*Belcher, George Wilson ................................ Belleville, Ill.
B.S., Wash. Univ., '17.

Blondin, Edward Alphonse .............................. St. Louis

* Degree of doctor of medicine conferred January 20, 1919.
   B.S., Univ. of Wis., '17.
Brooks, Arthur Charles ............................... St. Louis
   B.S., Wash. Univ., '17.
Brown, Egbert Eugene ................................. Cape Girardeau, Mo.
   A.B., Univ. of Mo., '16; A.M., '18.
Busiek, Urban Justus ................................. Farmington, Mo.
   B.S., Wash. Univ., '17.
Chapman, Warren Browning ............................. Diamond, Mo.
   A.B., Univ. of Mo., '17.
Clay, Homer Tullock ................................. Farmington, Mo.
   A.B., Univ. of Mo., 1917.
Coleman, William Goodwin ............................ St. Louis
   B.S., Wash. Univ., '17.
Day, Anthony Bigelow ................................ St. Louis
Elliott, Benjamin Landis ............................. St. Louis
   B.S., Wash. Univ., '15.
*Funkhouser, Selmus Paul .......................... St. Louis
Geistweit, William Henry, Jr. ......................... St. Louis
   A.B., Univ. of Redlands, '15.
Gilles, Clifford Lawrence ........................... Kansas City, Kans.
   A.B., Univ. of Kans., '17.
Gundrum, Lawrence Kramer .......................... Casey, Iowa
   B.S., Coe Col., '15.
Hannon, Leo John ........................................ Sturgeon Bay, Wis.
   B.S., Univ. of Wis., '17.
Hardesty, William Loyd ............................... Weston, Mo.
   A.B., Univ. of Mo., '16.
Hashinger, Edward Hagerman ......................... Kansas City, Mo.
   A.B., Univ. of Kans., '17.
*Helmes, Lloyd Oscar ................................. St. Paul, Minn.
   B.S., Univ. of Wis., '17.
Heuston, Howard Hull ................................. Agra, Okla.
Hodges, Fred Jenner ................................. Madison, Wis.
   B.S., Univ. of Wis., '17.
Hopkins, Guy Huskinson .............................. Grand Junction, Colo.
   A.B., Colo. Col., '15.

* Degree of doctor of medicine conferred January 20, 1919.
*Howard, Francis Clement. Fayette, Mo. A.B., Univ. of Mo., ’15.
A.B., Univ. of Mo., ’17.
Lewis, George Vincent. Columbia, Mo. A.B., Univ. of Mo., ’17.
Pelz, Mort D. St. Louis B.S., Wash. Univ., ’17.
Roantree, Robert Peter. Parker, S. D. B.S., Univ. of Wis., ’17.
Trippe, Harrison Chamberlain. Fristoe, Mo. A.B., Univ. of Mo., ’17.
Wahle, George Henry. Marshfield, Wis. A.B., Univ. of Wis., ’16.

* Degree of doctor of medicine conferred January 20, 1919.
Walter, Archie Lester .................................................. Rockport, Mo.
A.B., Univ. of Mo., '16.
Wander, William George ............................................. St. Louis
B.S., St. Mary's Col., '05.
Weiner, Morris ......................................................... St. Louis
B.S., Univ. of Wis., '17.
Withers, Sanford Martin ............................................. St. Louis

THIRD YEAR CLASS

Adelsberger, Bransford Louis ........................................ Waterloo, Ill.
Andrae, Robert Lee .................................................... St. Louis
Asami, Goichi ........................................................... Yamaguchi, Japan
A.B., Leland Stanford, Jr., Univ., '17.
Barker, Paul Shirmer .................................................. St. Louis
A.B., Westminster Col., '15.
Black, Carl Ellsworth .................................................. Jacksonville, Ill.
A.B., Ill. Col., '16.
Briggs, Clifton H ........................................................ Emporia, Kans.
Carlisle, John Bertche ................................................ Sedalia, Mo.
A.B., Univ. of Mo., '18.
Carr, Archie Dreyfus ................................................... St. Louis
B.S., Wash. Univ., '18.
Carter, William Stokely ................................................. Trenton, Ill.
Champlin, Paul Bertrand .............................................. Canton, Kans.
B.S., Univ. of Kans., '18.
Clay, Calvin ............................................................... Augusta, Mo.
B.S., Univ. of Kans., '18.
Duncan, Perry Emory .................................................... University, Miss.
B.S., Univ. of Miss., '17.
Evans, Joseph Patton ................................................... Meridian, Miss.
B.S., Univ. of Miss., '18.
Fancher, Charles Rousseau ............................................. Modesto, Calif.
A.B., Leland Stanford, Jr., Univ., '17.
Gaebe, Harold Carl ....................................................... Farmington, Mo.
B.S., Wash. Univ., '18.
Goldman, Alfred .......................................................... St. Louis
A.B., Wash. Univ., '16.
<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>Degree</th>
<th>University</th>
<th>Location</th>
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<tbody>
<tr>
<td>Grant, Samuel Becker</td>
<td>St. Louis</td>
<td>B.S.,</td>
<td>Wash. Univ.</td>
<td>'18</td>
</tr>
<tr>
<td>Hudson, William Andrew</td>
<td>Jasper, Ark.</td>
<td>B.S.,</td>
<td>Wash. Univ.</td>
<td>'18</td>
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<tr>
<td>Jenkins, William Nathan</td>
<td>Crystal Springs, Miss.</td>
<td>B.S.,</td>
<td>Ala. Presbyterian Col.</td>
<td>'16</td>
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<tr>
<td>Jostes, Frederick Augustus</td>
<td>St. Louis</td>
<td>B.S.,</td>
<td>Wash. Univ.</td>
<td>'18</td>
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<tr>
<td>Kennedy, Patrick Harlan</td>
<td>Youngstown, Ohio</td>
<td>B.S.,</td>
<td>Wash. Univ.</td>
<td>'18</td>
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<tr>
<td>Liggett, Hiram Shaw</td>
<td>St. Louis</td>
<td>A.B.,</td>
<td>Bethel Col.</td>
<td>'16</td>
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<td>Lohrentz, Abraham Martens</td>
<td>Moundridge, Kans.</td>
<td>B.S.,</td>
<td>Univ. of Kans.</td>
<td>'18</td>
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<tr>
<td>Malone, Julian Yerkes</td>
<td>Jacksonville, Ill.</td>
<td>A.B.,</td>
<td>Ripon Col.</td>
<td>'15</td>
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<td>Meyer, Herman Moses</td>
<td>Linneus, Mo.</td>
<td>M.S.,</td>
<td>Univ. of Wis.</td>
<td>'17</td>
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<td>Moore, Walter Roger</td>
<td>Olathe, Kans.</td>
<td>A.B.,</td>
<td>Univ. of S. D.</td>
<td>'18</td>
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<td>Ochsner, Edward William Alton</td>
<td>Kimball, S. D.</td>
<td>A.B.,</td>
<td>Univ. of S. D.</td>
<td>'18</td>
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<td>Owen, Leonard Joseph</td>
<td>Colorado Springs, Colo.</td>
<td>A.B.,</td>
<td>Missouri Valley Col.</td>
<td>'15</td>
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<tr>
<td>Penick, Grider</td>
<td>Marshall, Mo.</td>
<td>B.S.,</td>
<td>Univ. of Wis.</td>
<td>'18</td>
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<td>Peterman, Mynie Gustav</td>
<td>Merrill, Wis.</td>
<td>A.B.,</td>
<td>Univ. of Kans.</td>
<td>'17</td>
</tr>
<tr>
<td>Priest, Walter Scott</td>
<td>Wichita, Kans.</td>
<td>A.B.,</td>
<td>Univ. of Mo.</td>
<td>'18</td>
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<tr>
<td>Rice, Carl Epler</td>
<td>Plainville, Ill.</td>
<td>A.B.,</td>
<td>Univ. of Mo.</td>
<td>'18</td>
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<td>Rudolph, Royal William</td>
<td>Canton, S. D.</td>
<td>A.B.,</td>
<td>Univ. of S. D.</td>
<td>'18</td>
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<td>Rumreich, Adolph Sylvester</td>
<td>Pisek, N. D.</td>
<td>A.B.,</td>
<td>Univ. of N. D.</td>
<td>'17</td>
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<tr>
<td>Schenck, Fred Gerald</td>
<td>Burlingame, Kans.</td>
<td>A.B.,</td>
<td>Univ. of Mo.</td>
<td>'18</td>
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<tr>
<td>Schieck, Charles Melvin</td>
<td>Freeburg, Ill.</td>
<td>A.B.,</td>
<td>Kansas City, Mo.</td>
<td></td>
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</tbody>
</table>
Simpson, Eber Edward, Jr. .......................................................... Oshkosh, Wis.  
B.S., Univ. of Wis., '18.

Tremain, Ernest Elwood .................................................. Maplewood, Mo.

Waller, Riley Moore .............................................................. St. Joseph, Mo.  
A.B., Univ. of Mo., '18.

Wellmerling, Hermann William .............................................. Bloomington, Ill.  
B.S., Ill. Wesleyan Univ., '16.

White, Harvey Lester .............................................................. Jacksonville, Ill.  
B.S., Wash. Univ., '18.

White, Marcus Demosthenes .................................................. Palmyra, Mo.

Williams, John Webster ......................................................... Milwaukee, Wis.  
B.S., Cornell Univ., '18.

Williams, Lester Leo .............................................................. Winfield, Kans.

Wilson, Lucius Roy .............................................................. Jonesburg, Mo.

SECOND YEAR CLASS

Altheide, John Paul .............................................................. New Haven, Mo.

Balazs, Karl John ................................................................. St. Louis

Chamberlain, Iris McKay ...................................................... Springfield, Mo.

Cohen, Louis ................................................................. St. Louis

Cooper, Dewey Hobson ......................................................... Spring Hill, Kans.

Evans, Lester J. ................................................................. St. Louis

Good, Donald Cameron ........................................................ Hiawatha, Kans.

A.B., Univ. of Kans., '18.

Haddox, Charles Hugh ........................................................ Pawnee, Okla.

A.B., Univ. of Kans., '18.

Hartmann, Alexis Frank ........................................................ St. Louis

Joannides, Minas ................................................................. Madison, Wis.

Kahn, Samuel Hermann ......................................................... Dallas, Tex.

Kleinschmidt, Ralph Edwin .................................................. St. Louis

Lewis, William Benjamin ...................................................... Granite City, Ill.

McKitterick, John Collins .................................................... Burlington, Iowa

Michael, William Alexander ................................................ Braymer, Mo.

Nelsen, Millard Tarsten ...................................................... Vale, Ore.

Paddock, Richard ................................................................. Terre Haute, Ind.

Rusk, Harvey Schenck ........................................................ Brookfield, Mo.

Spinzig, Edgar Walter ........................................................ St. Louis

Summers, Caldwell Blanford ............................................... Harrisonville, Mo.
Wall, Albert........................................ St. Louis
Zink, Oscar Charles................................. Belleville, Ill.

FIRST YEAR CLASS

Baum, William Wells.................................. Shelbyville, Ill.
Bersche, Bertram Louis Jacob......................... Columbia, Ill.
Birdsall, Thomas Charles.............................. Dows, Iowa
Broeder, William Hugo................................ St. Louis
Cady, Lee De........................................ Utica, Mo.

A.B., Univ. of Mo., ’18.
Canepa, Francis John................................. St. Louis
Cole, Mrs. Carol Skinner............................. St. Louis
Deakin, Vincil Rogers................................ St. Joseph, Mo.
Dickson, Green Knowlton............................. Walter, Okla.


Dieckmann, William Joseph............................ Belleville, Ill.
Dock, William........................................ St. Louis
Eskeles, Irwin Herman................................ St. Louis
Esserman, Arthur Losos................................ St. Louis
Fleming, Samuel Ward................................ Farmington, Mo.
Hall, Thomas Bryan.................................... Marshall, Mo.
Hanser, Theodore Henry.............................. St. Louis
Hill, Harold Wayne..................................... Decatur, Ill.
Hofsommer, Armin Conrad............................. Breese, Ill.
Hoover, Walter Boyd.................................... Trenton, Mo.
Jacoby, Edgar Henry.................................... San Jose, Cal.

A.B., Univ. of Southern Cal., ’17.
Keeble, Charles Burton............................... St. Louis
Lasersohn, Martin..................................... St. Louis
Lerner, Abe Frank..................................... St. Louis
Lohr, Curtis Harry.................................... St. Louis
Martin, Kirby Armstrong............................... Hamilton, N. D.
Pearson, Nelson Tinsley............................... Louisiana, Mo.
Reisman, Henry........................................ New York, N. Y.
Rice, Justus Bulkley.................................. St. Louis
Schindewolf, Theodore Eccarius...................... St. Louis
Sheldon, Paul Benedict................................ Webster Groves, Mo.

A.B., Oberlin Col., ’17.
Smith, Gervais Dean................................... Walnut Grove, Mo.
SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate and Special Students .............................................. 10
Fourth Year Class .......................................................... 50
Third Year Class ............................................................. 47
Second Year Class ............................................................. 22
First Year Class ................................................................. 37
Total, 166

DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following June 13, 1918:

Andresen, Christian Andres. ........................................ Clara City, Minn.  
A.B., Carleton Col., '14.

*Ball, Bertus Clyde. ......................................................... Mansfield, Tex.  

Bergstrom, Jacob Wood .................................................... Cedar City, Utah  
A.B., Univ. of Utah, '16.

Copher, Glover H ............................................................ Troy, Mo.  
A.B., Univ. of Mo., '16.

Cresswell, George Francis ................................................ Potosi, Mo.  
A.B., Univ. of Mo., '16.

Dean, James Reeve .......................................................... Madison, Wis.  

*Fardy, Martin Joseph ....................................................... Mukwanago, Wis.  
B.S., Marquette Univ., '14.  
M.S., Univ. of Wis., '16.

*Gay, Lee Pettit .............................................................. Ironton, Mo.  
A.B., Univ. of Mo., '16.

* In absentia—March 16, 1916.
<table>
<thead>
<tr>
<th>Name</th>
<th>School/University</th>
<th>City</th>
<th>State</th>
<th>Degree(s)</th>
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<tbody>
<tr>
<td>Hodges, Paul Chesley</td>
<td>St. Louis</td>
<td></td>
<td></td>
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<tr>
<td>Liljedahl, Elmer Nathaniel</td>
<td>Red Oak, Iowa</td>
<td></td>
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<tr>
<td>*Lueking, Henry Fremont</td>
<td>St. Louis</td>
<td></td>
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<td>B.S., Wash. Univ., ’16.</td>
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<tr>
<td>Mahle, Arthur Edwin</td>
<td>St. Louis</td>
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<td>B.S., Univ. of Minn., ’16.</td>
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<tr>
<td>Maxey, Hugh Worthington</td>
<td>Mt. Vernon, Ill.</td>
<td></td>
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<tr>
<td>*McKee, Joseph Wallace</td>
<td>Kansas City, Mo.</td>
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<td>*Mitchell, William Leland</td>
<td>Staunton, Ill.</td>
<td></td>
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<tr>
<td>*Noble, Thomas Benjamin</td>
<td>Indianapolis, Ind.</td>
<td></td>
<td></td>
<td>B.S., Univ. of Wis., ’16.</td>
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<tr>
<td>*O'Keefe, Charles Darrell</td>
<td>Hannibal, Mo.</td>
<td></td>
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<td>A.B., Univ. of Mo., ’16.</td>
</tr>
<tr>
<td>*Padget, Earl Calvin</td>
<td>Greenleaf, Kans.</td>
<td></td>
<td></td>
<td>B.S., Univ. of Kans., ’16.</td>
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<tr>
<td>Palit, Barendra Kumar</td>
<td>Calcutta, India</td>
<td></td>
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<td>B.S., Univ. of Wis., ’13; M.S., ’16.</td>
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<td>Pessel, Johannes Friedrich</td>
<td>Belleville, Ill.</td>
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<td>B.S., Wash. Univ., ’16.</td>
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<td>Rupe, Wayne Arthur</td>
<td>Rockport, Mo.</td>
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<td>A.B., Univ. of Mo., ’16.</td>
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<tr>
<td>Shackelford, Horace Harvey</td>
<td>St. Louis</td>
<td></td>
<td></td>
<td>A.B., Univ. of Mo., ’10; A.M., ’13.</td>
</tr>
<tr>
<td>†Staley, Forest Henry</td>
<td>Madison, Wis.</td>
<td></td>
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<td>A.B., Univ. of Wis., ’14.</td>
</tr>
<tr>
<td>Sundwall, Olof</td>
<td>Fairview, Utah</td>
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<td>A.B., Univ. of Utah, ’16.</td>
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* In absentia—March 16, 1918.
† February 2, 1918.
Terrill, Edwin Harold ......................... Vandalia, Mo.  
A.B., Univ. of Mo., ’15.

Tesson, James Albert  ......................... Kansas City, Mo.  
A.B., Univ. of Mo., ’16.

GRADUATES APPOINTED TO THE BARNES HOSPITAL  
AND THE ST. LOUIS CHILDREN’S HOSPITAL

*Medical Service*

Anthony Bigelow Day  James Reeve Dean

*Surgical Service*

Glover H. Copher  Forest Henry Staley

*Obstetrical Service*

George Francis Cresswell

*Pediatric Service*

Wayne Arthur Rupe
GENERAL STATEMENT
HISTORY AND ORGANIZATION

The Medical Department of Washington University, known since 1909 as the Washington University Medical School, continues the work of the St. Louis Medical College and the Missouri Medical College, the two oldest medical schools west of the Mississippi River. In 1918 the name was changed by the Corporation to Washington University School of Medicine.

The Medical Department of Kemper College of St. Louis was organized in 1840; in 1845 it became the Medical Department of the University of the State of Missouri. By change of its charter in 1855, it was made an independent institution known as the Missouri Medical College. The work of the School was discontinued in 1862, but was resumed in 1865 at the end of the Civil War.

The Medical Department of St. Louis University, founded in 1849, was chartered as an independent institution in 1855 under the name of the St. Louis Medical College.

The Medical Department of Washington University was created by the Corporation in 1891, when the St. Louis Medical College became a part of Washington University. In 1899 the Missouri Medical College was merged with this department.

Graduates of the St. Louis Medical College number 2125; of the Missouri Medical College, 2915; and of the Medical Department of Washington University, 781.

In 1910 the Corporation of the University, appreciating the value of the service which a medical school can give 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, preventive medicine, 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.

More recently the sum of one and one-half million dollars has been contributed to the School of Medicine by the General Educa-
tion 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.

These endowments have enabled the School of Medicine to place the clinical departments of Medicine, Surgery, and Pediatrics 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.

An affiliation has been established between the Barnes Hospital and the St. Louis Children's 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. These hospitals have erected buildings on Kingshighway overlooking Forest Park, which became available for use in the autumn of 1914. Adjacent to the hospital buildings, a dispensary and large, thoroughly equipped laboratories have been built (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.

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 and the St. Louis Children's Hospital. They are the Building for the Dispensary and Hospital Laboratories, the North Laboratory Building and the South Laboratory Building.

The Building for the Dispensary and Hospital Laboratories is situated at the northeast corner of the hospital lot. The Dispensary occupies the first floor and basement, the Laboratory of Internal Medicine the second floor, and the Department of
Pathology the upper two floors, together with a western extension of the building connecting it with the Barnes Hospital, and containing the mortuary and the autopsy amphitheatre.

The North Laboratory Building on Euclid avenue opposite the Barnes Hospital contains the administrative offices of the School of Medicine, the Assembly Hall, the Library, and the Departments of Experimental Surgery, Comparative Pathology, and Anatomy.

The South Laboratory Building is connected by corridor with the North Laboratory Building. It accommodates the Departments of Physiology, Pharmacology, and Biological Chemistry.

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 involving the use of gas, water, electricity, and compressed air. Research laboratories and technicians' rooms are provided with forced-draft hoods, electricity, steam, and apparatus for controlling temperature. The attic space is utilized for the assembling of the air ducts from the chemical hoods and for the electric fans operating the draught. A steam still and tin-lined tanks for distilled water are located here, with block-tin pipes running from the tanks to the basement, with openings on each floor.

Nurses' Home

This building is located on Kingshighway facing Forest Park, and just north of the Children's Hospital. It is of concrete construction and fire-proof. On the first floor are a large reception room, a class room, and administrative offices. The upper floors are arranged to accommodate 80 to 90 nurses.

Power Plant

The power plant is located east of Euclid avenue and north of the North Laboratory Building. It furnishes light, heat, power, refrigeration, and compressed air to the buildings of the School of Medicine, the Dispensary, the Barnes Hospital, and the St. Louis Children's Hospital.
LIBRARY

The Library contains (October 1, 1918) 26,681 bound volumes and receives 414 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 351 are in complete series. Including obsolete journals, there are 400 complete sets.

The Library has recently 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 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, 3525 Pine street.
- 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.

MUSEUMS AND COLLECTIONS

In the Department of Anatomy is a museum for teaching and a collection of material used in investigation. The museum is
combined with the class laboratories in order that specimens may be studied during class periods, as well as at other times. The present small group of anatomical preparations is the beginning of a museum planned to develop in a definite way. It comprises type specimens of adult organs and organic systems, specimens presenting variations, and preparations illustrating development. The collection contains an extensive series of osteological preparations, including a group of Indian crania and other material for anthropological study, vertebrate types, and microscopic sections, embryos, and models.

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 of Obstetrics and Gynecology 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 D. Hodgen. A section of the museum contains experimental pathological lesions.

MEDICAL BULLETIN OF WASHINGTON UNIVERSITY

The Medical Bulletin contains the transactions of the Washington University Medical Society. Its distribution is limited, at present, to the libraries of medical schools and certain other scientific institutions.

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.
The affiliation of the Barnes Hospital and the St. Louis Children's 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 each hospital consist of the heads of the University Departments of Medicine, Surgery, Obstetrics, and Pediatrics, with their assistants.

Free and pay patients may be admitted to either hospital, 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 both 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 buildings of the Barnes Hospital are situated upon a lot 837 feet in length, which runs from Kingshighway on the west to Euclid avenue on the east, 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 upon a spacious rotunda containing a bronze bust of the donor, Robert A. Barnes. On either side of this rotunda are situated the general information office, the administrative office, the trustees' room, offices of the superintendent, 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 is the operating pavilion and the lecture room for the Medical Department. The arrangement of the operating pavilion is such that the incoming patients may
be conducted to the etherizing rooms by way of a separate corridor and are not brought into contact with the routine work of the 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, bakery, and rooms for the hospital employees, behind which the laundry occupies a separate building.

The building at the west of the hospital lot facing Forest Park both on the south and west is the private pavilion. Its separate entrance on Kingshighway gives to service the convenience of a private hospital with all the advantages of a general hospital.

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.

With the space in the private pavilion the initial capacity of the Barnes Hospital is approximately 220 beds. Sufficient space is reserved to increase this number materially.

The Hospital contains numerous class rooms, laboratories, lecture rooms, and examining rooms in addition to the accommodations usually found in general hospitals. Special provision has also been made for a modern equipment in the Departments of Actinography and Hydro- and Physical Therapy, and special wards and laboratories are provided for metabolic studies.

THE ST. LOUIS CHILDREN'S HOSPITAL

The St. Louis Children's Hospital, which is placed on the same tract as the Barnes Hospital, immediately northwest of it and facing Forest Park on the west, offers facilities for bedside study and instruction in the diseases of infancy and childhood, including the infectious diseases. It is built of grey brick and harmonizes in color and design with the adjacent buildings. The Hospital has general medical wards, auditorium, and contagious wards with the accessory equipment of each.

The building devoted to general hospital work is five stories high and contains wards for general medicine, for infants, for general and orthopedic surgery, research laboratories, and rooms
for the residents and internes. In connection with the third floor there is a large open-air ward on the roof of the auditorium building. In this part of the Hospital there are 120 beds.

The Building for Contagious Diseases contains 40 beds. The three floors may be isolated for the different contagious diseases. Accommodations have been made for mothers of sick children and to a limited extent for adults with infectious diseases.

Between the general hospital and the contagious building there is an auditorium two stories high, connected with the other two buildings. The out-patient department of the Hospital is located in the general out-clinic department of the School of Medicine.

A valuable adjunct to the St. Louis Children's Hospital is its Country Department, located on the Missouri Pacific Railway, one and one-half miles from Valley Park. The hospital building of this department is of brick and concrete construction and fire-proof. It consists of two open wards, each to accommodate 25 children, overlooking the Meramec River to the south.

HOSPITAL FOR COLORED PATIENTS

Plans have been completed and specifications drawn for the erection of a new pavilion for colored patients, this building to be located on the hospital block between the Children's Hospital and the Service Building. Pending the construction of these quarters colored patients are being provided for in special wards set aside for their use in the Barnes Hospital.

WASHINGTON UNIVERSITY DISPENSARY

OUT-PATIENT DEPARTMENT OF THE BARNES AND ST. LOUIS CHILDREN'S HOSPITALS

The clinics, which in previous years have been held at the outpatient department of the Washington University Hospital, at the O'Tallon Dispensary, and at the Saint Louis Children's Hospital, are now conducted in this single dispensary, which is an organic part of the School of Medicine, and is entirely controlled by the corporation of the University through a committee of the Medical Faculty. There were recorded in this dispensary during 1918, 117,182 visits. As in the Hospitals, the University Departments of Medicine, Surgery, Obstetrics, and Pediatrics are
responsible for the care of patients. All clinical facilities are available for teaching purposes, and members of the third-year class 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 of Social Service.

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

On November 1, 1914, Washington University, at the invitation of the authorities of the City Hospital, assumed control and became responsible for the medical care of one-third of the patients in the City and Infectious Hospitals, and agreed further to render such professional service in the other municipal institutions as the Hospital Commissioner might request.

The physical equipment of the City Hospital is such that this service can be used to advantage for both undergraduate and graduate teaching, and the addition of this unit to the clinical facilities of the University broadens in a remarkable way the opportunities for teaching. By this cooperation, it is 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 375.

The general plan of organization of the Washington University unit of the City Hospital is the same as that in operation at the Barnes Hospital. Each department 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.

SOCIAL SERVICE

The Social Service Work is conducted in the Washington University Dispensary, and in the Barnes and St. Louis Children's Hospitals. The department is under the direction of the head worker and eleven paid assistants, each of whom has a special type of work under her care.

The medical students who volunteer in the department gain a knowledge of the living conditions of the poor which is of great value to them in their study of the diseases treated in the Dis-
pensary, and their experience in working out the individual problems of the patients needing relief gives them an understanding of the social agencies of the community.

Members of the Training School for Nurses also have opportunities for volunteer work in the department.

REQUIREMENTS FOR ADMISSION

Applicants for admission are required to have completed satisfactorily a standard four-year high school course, or its equivalent, and college courses covering at least two full years of work and representing at least sixty semester hours of credit, in an acceptable institution.

The college work must include courses of at least the credits stated below in the following subjects:

1. English, at least six semester hours.

2. German or French, at least ten semester hours in either language.* This requirement is intended to enable the student to read publications of the medical sciences in at least one of these languages, and the demonstration of a reading knowledge of either language, by examination, will be accepted in lieu of college credit. So far as possible, students should acquire a knowledge of both languages.

3. Physics, at least eight semester hours. The laboratory work should be in part of a quantitative character.

4. Chemistry, at least twelve semester hours. The work in chemistry should include organic chemistry and quantitative analysis as well as general inorganic chemistry, and candidates for admission are advised to complete these courses before entrance.

5. Biology. (Zoology and Botany), at least eight semester hours. In addition to the study of the structure, function and life history of selected types of animal and plant life, the preparation

* In the case of students who presented high school credits in German or French 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.
in biology should include laboratory instruction in elementary embryology.

Applicants for admission are required to submit credentials from the college in which they have studied, enumerating (1) credits accepted for admission to college, (2) all college courses taken and dates of attendance, (3) the grade attained in each course, and (4) the credits allowed. The degrees received and the number of years of collegiate study successfully completed must also be stated. Blank forms for recording these data will be furnished on application.

Candidates who are deficient in any of the above minimum requirements will not be admitted.

While two years of collegiate work, as in part above specified, fulfills the minimum requirement for entrance to the School of Medicine, the broader training afforded by additional years of academic work offers better preparation for the study and practice of medicine. Students intending to pursue the study of medicine should, if possible, complete the four-year college course.

Students in Washington University preparing for the study of medicine, and who can devote only two years to preparation, may follow either of two plans, depending upon whether they desire to become candidates for the degree of Bachelor of Science.

**Bachelor of Science**

The degree of Bachelor of Science is conferred in the College on those students who have satisfactorily completed the two years of work described below, and have in addition received good grades in all the required courses of the first and second years in the School of Medicine.

**Pre-Medical Curriculum Leading to the Degree of B.S.**

**Freshman Year**

General Descriptive Chemistry ............Chemistry 1 ... 6 units
Composition and Rhetoric ............English 1 ... 6 units
Elementary German .............German 2 ... 10 units
Or Elementary French ............French 2 ... 10 units
General Biology ..................Zoology 1 ... 6 units
Elective .................................. 3 units
Physical Education or Military Training.
Sophomore Year

Qualitative Analysis ................. Chemistry 11 . . . 3 units
Quantitative Analysis ............... Chemistry 14 . . . 3 units
Organic Chemistry .................. Chemistry 21 . . . 6 units
General Introduction to English Literature .................. English 11 . . . 6 units
German .................................. German 10 . . . 6 units
Or French .............................. French 8 . . . 6 units
Elementary Physics .................. Physics 2 . . . 8 units
Embryology ............................. Zoology 4 . . . 3 units
Elective .................................. 3 units
Physical Education or Military Training ............................

The following options and restrictions are effective:

(a) Students presenting two years of high school German (or French) for entrance may take German 3 (or French 6), and those presenting three years, German 6 (or French 7). In this case two electives totaling 12 units are required in the Freshman year, but a ten-unit language course may be substituted for these.

(b) Freshman electives may be selected from the list of courses open to Freshmen given in the announcement of the College, and Sophomores may elect any course not specifically restricted to Juniors and Seniors, provided the prerequisites have been satisfied.

(c) Candidates for the B.S. degree are required to take additional work in the School of Medicine equivalent to those required courses of the medical curriculum (organic chemistry and embryology) for which they bring credit.

Those students who are not candidates for the B.S. degree may elect their two years of college work in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>Chemistry 1 .....................</td>
<td>Chemistry 11 ........................</td>
</tr>
<tr>
<td>English 1 ........................</td>
<td>Chemistry 14 ........................</td>
</tr>
<tr>
<td>German 1 ........................</td>
<td>German 3 ...........................</td>
</tr>
<tr>
<td>Or French 1 ........................</td>
<td>Or French 6 ........................</td>
</tr>
<tr>
<td>Zoology 1 ........................</td>
<td>Physics 2 ..........................</td>
</tr>
<tr>
<td>Elective ........................</td>
<td>Zoology 4 ..........................</td>
</tr>
<tr>
<td>6 units</td>
<td>3 units</td>
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<td>6 units</td>
<td>8 units</td>
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<tr>
<td></td>
<td>3 units</td>
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<td></td>
<td>12 units</td>
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</tbody>
</table>
German or French may be omitted by students who show evidence on examination of a reading knowledge of the language.

**ADMISSION TO ADVANCED STANDING**

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 pass satisfactory 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, will 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, pharmacology, bacteriology, and pathology will be permitted (see 3 above) to enter the third-year class, but no student may enter with a condition in any of these subjects. (c) Students who have received credits for courses in anatomy, chemistry, physiology, pharmacology, bacteriology, and pathology, equivalent to those given in this School, may (see 3 above) enter the fourth-year class without examination in subjects of the third year, provided they have received credit for courses in medicine, surgery, and obstetrics, equivalent to those of the third year, but, at the discretion of instructors, may be examined in these three subjects at the end 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 the completed medical courses for which credit is asked and stating the number of completed years of medical work. A blank form of application for advanced standing will be furnished upon request.

ADMISSION OF GRADUATES IN MEDICINE

No regular courses are being given at the present time for graduate students. Graduate students may be admitted to the School, however, 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 by the Dean, in conference with the head of the department in which the work is done, in each case.

STANDING AND PROMOTION

To enter any course the student must have taken the required courses in the subjects which supply the preliminary preparation for that course. The subjects preliminary to each course are defined in the description of these courses.

In general final examinations are held only at the close of the year. (See Calendar).

Students who at the end of the first or second year have recorded against them failures in any two of the following subjects, dis-
section, histology with embryology and neurology, physiology, biological chemistry, pharmacology, pathology, or bacteriology, will be advised to withdraw from the School.

No student will be permitted to undertake the work of the third year who has failed in any one of the subjects named above or in topographical anatomy.

A student who at the end of the third year has failed in any two of the following subjects, medicine, physical diagnosis, clinical chemistry and microscopy, surgery, surgical pathology, or obstetrics, will be advised to withdraw from the School.

No student will be permitted to undertake the work of the fourth year who has failed in physical diagnosis, clinical chemistry and microscopy, or surgical pathology.

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 second trimester of the year, internes for the Barnes Hospital and for the St. Louis Children’s Hospital are selected by the School of Medicine.
The services begin July 1 and September 1, and are for one year. For 1919-20 these services are as follows:

**Barnes Hospital**
- Medical Service, five positions.
- Surgical Service, six positions.
- Obstetrical Service, four positions.

**St. Louis Children's Hospital**
- Four positions.

Appointments to these positions are usually made from members of the fourth-year class of the School of Medicine. While preference is shown members of the School or its graduates, graduates or members of the fourth-year class of other schools may apply for appointment, and in cases of unusual qualifications such men may be nominated for positions. Selection is made from those applying for positions on the basis of class standing in required work, upon evidence of special fitness as shown by work in elective courses, upon personal considerations, and, when desired by the Faculty, upon examination.

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.
Winners of Prizes and Honors, 1917-18

Gill Prize in Anatomy
Lester J. Evans

Gill Prize in Diseases of Children
Wayne Arthur Rupe, A.B.

Fellowships and Scholarships

A Surgical Fellowship has been established in the Department of Surgery for special neurological work. The income of this fellowship is $1200.00 per year. Candidates for this fellowship must be graduates in medicine. Applicants who have had one year's internship are preferred.

Two Surgical Fellowships are available in the Department of Surgery for general work. The stipends for these fellowships vary somewhat, depending upon the experience of the applicant.

Application for these fellowships should be made to the Registrar of the School.

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, instituted by the Alumni of Washington University School of Medicine, entitles the holder to the same remission of the tuition fee, namely, $100.00.

Applications for these scholarships should be filed with the Registrar.

Fees and Expenses

Tuition Fees. Before registration each student will be required to pay a matriculation fee of $5.00.

A charge of $3.00 will be made against each student who fails to register before October 4, 1919.

The tuition fee is $200.00, payable in two equal instalments, at the beginning of the first trimester and on February 1.

There are no laboratory fees.
Diploma Fee. At the completion of the course a diploma fee of $5.00 will be charged.

Rental of Microscopes. A microscope is needed by each student throughout each year in the School and is equally essential to the physician after graduation. Every student in the School should therefore purchase this instrument. The School of Medicine owns a limited number of microscopes which may be obtained at an annual rental of $5.00 (oil immersion objective, $2.50 additional) for each instrument. Students renting microscopes are held responsible for their return in good condition at the close of each year. Students must provide their own hemocytometers.

Breakage Deposit. Each student is required to pay $10.00 to cover breakage. Any balance of this deposit will be returned at the end of each year. No student will be granted the use of the laboratories or apparatus of the School until the required deposit has been paid.

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

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.

STUDENT HEALTH

A physical examination is made of each student at entrance by a physician appointed by the Medical Faculty. This Physician to Students may be consulted daily. He keeps records of the physical condition of the students and treats their minor ills. In cases of serious sickness they are referred to their own physician or to specialists.

MEN'S DORMITORY

A dormitory building containing rooms for about sixty students has been erected 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 fully furnished for occupancy and supplied with hot and cold water, light and heat. There is a social hall in the basement of the building.

The rental of a room is at the rate of $10 a month, payable quarterly in advance. Applications for rooms may be made to the Registrar of the School.
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 described under "Courses of Instruction" in the catalogue of the College.

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. Believing that a broader education is essential to the successful study and practice of medicine, the School has increased its requirements for entrance, and the course of study has been correspondingly rearranged. As stated in detail on pp. 68-71 ff., the student on entering the School must have completed two years of college work, which must include a knowledge of chemistry, physics, biology, and of the English and German or French languages. With this preliminary training, some of the work previously done in the School of Medicine, such as inorganic chemistry and qualitative analysis, may properly be omitted, and the time thus gained is devoted to a fuller and more thoughtful study of the subjects directly pertaining to medicine.

It is the aim of the School to prepare its students to become practitioners of medicine, the experience gained in the laboratories and hospitals serving as the basis for medical training and knowledge. The order of studies is arranged so that the more fundamental are placed in the beginning of the course.

The Academic year, extending from the last week of September to the first week in June, is divided into trimesters, each of about eleven weeks. The required work keeps the student occupied in laboratory, class room, hospital, or dispensary 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 can profitably undertake extra work are encouraged to take courses in the subjects of
their greatest interest. Suitable optional courses are offered by each department in the School.

The curriculum of four years has been divided into three distinct periods, this division being based on the requirements of the student at a given time in the medical course.

The first period includes the first year and the first and second trimesters of the second year. During this time, the student studies the fundamental sciences of anatomy, biological chemistry, physiology, pharmacology, pathology, and bacteriology. For this first period, the whole interest of the student is concentrated on the fundamental essentials of medical education, and every effort is made to train the faculty of critical and independent observation. Anatomy and chemistry are studied during the first year. In the last trimester of this year, the study of physiology begins, and bacteriology is studied in preparation for work in pathology. In the first trimester of the second year practical anatomy is completed, while during the first two trimesters physiology, pharmacology, and pathology are studied. In the last trimester of this period, courses are introduced in physical diagnosis, case taking, medical observation, and in surgical technic, in preparation for the clinical work of the second period.

The second period, extending from the third trimester of the second year through the second trimester of the fourth year, 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, or obstetrics, and attends clinics, lectures, and recitations. This 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 wards of the Hospitals, and each section of the class serves a full trimester in the wards of medicine, surgery, or obstetrics and pediatrics. During the second period, courses are also given in clinical chemistry and microscopy, neurological pathology, surgical pathology, and experimental operative surgery. Special emphasis is placed upon the study and treatment of patients. The patient is used as a means of demonstration in clinics and bedside instruction, and relatively
little attempt is made to formulate information in lectures. Clinical work in the specialties is confined to the second half of the second period.

During the third and last period, which occupies the third trimester of the fourth year, there is no prescribed curriculum. The student must gain credit for 300 hours of work, 150 of which must be spent in some one department. It is expected that, during this period, the students will avail themselves of the opportunity to further any special interest they may have in any one of the fundamental sciences, or clinical subjects, and that some few may attempt a certain amount of original work. Fourth-year students whose mornings are occupied by prescribed studies will be required to elect 75 hours of work in not more than two departments.
COURSES OF INSTRUCTION

Anatomy

Robert J. Terry, M.D. . . . . Professor of Anatomy
Paul Y. Tupper, M.D. . . . . Clinical Professor of Surgery
Charles H. Danforth, Ph.D. . . Associate Professor of Anatomy
Edwin A. Baumgartner, Ph.D., M.D. Associate in Anatomy
Warren B. Chapman, A.B. . . Student Assistant in Anatomy
Edward A. Blondin . . . . Student Assistant in Anatomy
Charles R. Fancher, A.B. . . Student Assistant in Anatomy
Lester J. Evans . . . . Student Assistant in Anatomy

First Year

3. HISTOLOGY. The subject is presented from an embryological viewpoint. The early part of the course is devoted to a review of the salient features of human embryology and an intensive study of the histogenesis of fundamental tissues. This is followed by a study of the organogeny, fine anatomy and history of the several systems. Each student is provided with a loan collection of selected preparations and also has access to a collection of reference slides. Lectures, demonstrations and recitations are designed to supplement and co-ordinate the work. Six mornings a week in the first trimester. 252 hours. Professor Danforth.

5. NEUROLOGY. A laboratory and lecture course on the development and macroscopic and microscopic anatomy of the central nervous system and sense organs. Collections of sections through the brain stem, special Weigert and Golgi preparations, wax models, and embryological and adult material for dissection are provided. The gross dissection is followed by a study of neurohistology, of fiber tracts, nuclei, the interrelations of the neurone
systems, and functional significance of special organs. Nine hours a week during the second trimester. 90 hours.

Dr. Baumgartner

6-7. Human Dissection. The course offers opportunity for the systematic study of the 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 and demonstrations on certain aspects of human anatomy serving to systematize the observations made in the laboratory and to direct attention to human structure in relation to function, pathological change, medical and surgical application, variation and heredity are given from time to time during the year. Nine hours a week throughout the year. 297 hours.

Professor Terry

Second Year

8. Topographical Anatomy. Six hours a week in the first trimester are spent in laboratory study of the position and relations of organs. Sections, museum preparations, and models are used as material for study. 72 hours.

Dr. Baumgartner

9. Applied Anatomy. The conventional surgical regions are considered and the skeleton, muscles, bloodvessels, nerves, and lymphatics are discussed from the surgeon’s point of view. Lectures and demonstrations two hours during the third trimester. 24 hours.

Professor Tupper

Optional and Elective Courses

1. Anatomy of Vertebrates. A good collection of vertebrate forms is used for dissection and microscopical study. Lectures on the results of comparative anatomy and on the theories relating to organized structure accompany the laboratory course. One lecture or recitation and five hours of laboratory work a week throughout the year. 210 hours.

Dr. Baumgartner

2. Embryology. The course deals with the development of the human organism, and is planned for advanced students. The
scope is limited to an intensive study of some subject which may be chosen by or assigned to the individual. Four or eight hours of laboratory work a week in the second or third trimester. 44 to 88 hours.

Professor Danforth

4. Cytology. The course affords an opportunity for a careful study of cells with special reference to their finer structure and functional relations. An intensive study will be made of the genesis, life history and physiological reactions of one or more types of cells. Prerequisite, Anatomy 3 or its equivalent. Six hours of laboratory work a week in the third trimester. 66 hours.

Professor Danforth

10. Advanced Course in Gross Anatomy. Dissection of the human body, study of preparations and sections. Hours to be arranged.

Professor Terry

11. Conferences in Anatomy. One hour a week during the year.

Professor Terry

12. Conferences in Osteology. One hour a week in the second trimester.

Dr. Baumgartner

13. Physical Anthropology. Three hours of laboratory work with assigned reading. The objects of this brief course are to familiarize the student with the methods used in the study of physical anthropology and to awaken interest in research in this branch of anatomy. 33 hours. Prerequisite, Anatomy 1 and 6-7.

Professor Terry

14. Anatomy of the Living Body. In this course of lectures with demonstrations it is intended to treat collectively of those anatomical features which can be observed in the living body. First trimester. Prerequisite, Anatomy 1 and 6-7.

Dr. Baumgartner

15. Anatomical Technology. Opportunity is afforded for gaining experience in the ordinary methods of preparing material for study. Among the methods undertaken are: preservation of gross
material, color injection, preparation of bones, the technique of fixing, embedding, cutting, and staining microscopical objects. Six hours of laboratory work in the third trimester. 66 hours. Professor Danforth

16. Variation and Heredity in Man. Discussion of the variations commonly met with in the study of human anatomy and their significance with special reference to heredity. Lectures, one hour a week in the third trimester. 33 hours. Professor Danforth

17. Investigation. The department offers facilities for investigation in several branches of anatomical science and those qualified are encouraged to undertake research. Hours to be arranged.

18. Seminar in Anatomy. For members of the staff and investigators. Once a week throughout the year.

Biological Chemistry

Philip A. Shaffer, Ph.D. . . . Professor of Biological Chemistry
Edward R. Allen, Ph.D. . . . Associate in Biological Chemistry
Horace H. Shackelford, M.D. Assistant in Biological Chemistry
Karl J. Balazs . . . . . . . Student Assistant in Biological Chemistry
Alexis F. Hartmann . . . . Student Assistant in Biological Chemistry

1. Quantitative Analysis. A laboratory course designed to acquaint the student with those principles of gravimetric and especially volumetric analysis, which form the basis for quantitative chemical work in the medical sciences. Principles and quantitative technique are emphasized rather than the study of applied analytical methods which are considered in Course 3. The course is required of those students who enter without credit in volumetric analysis and is optional to others. First trimester, five hours a week. 60 hours. Dr. Allen

2. Organic Chemistry. A short course of lectures and recitations intended to acquaint the student with the elements of the chemistry of carbon compounds, preparatory to Course 3. First trimester, three hours a week. 36 hours. Dr. Allen
3. 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 synthetic preparation of a few organic substances; 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 chemistry required for entrance; Course 1 (Quantitative Analysis) and Course 2 (Organic Chemistry), or their equivalent. Second trimester, lectures and recitations four hours, and laboratory nine hours a week. Third trimester, lectures and recitations three hours, and laboratory eight hours a week. Lectures and recitations 73 hours, laboratory 178 hours.

Professor Shaffer, Professor Duggar, Dr. Allen, Dr. Shackelford

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

7. Biochemical Preparations. A laboratory course in the preparation, purification, and analysis of organic substances of bio-
chemical interest and importance, offered especially for those students in the Medical School who are candidates for the Bachelor of Science Degree and who enter with credit in organic chemistry. Five hours a week in the laboratory, with assigned reading. First trimester of either the first or second year. 60 hours.

**Physiology**

Joseph Erlanger, M.D. . . . Professor of Physiology
Robert Gesell, M.D. . . . Associate Professor of Physiology
Herbert S. Gasser, M.D. . . Associate in Physiology
Harvey L. White . . . . Student Assistant 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 students in the College. 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 principles 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 third trimester of the first year and are continued during the first and second trimesters of the second year. Properly prepared students in the College 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. 130 hours.

Professor Erlanger, Professor Gesell, Dr. Gasser,
Mr. White
Second Year

3. 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 the circulation, respiration, central nervous system, vision, etc. The instruction in the laboratory is largely individual. Recitations and conferences are held once a week, at which the principles and the results of the experiments are discussed. Students are required to make careful notes of the experiments. First trimester of the second year. 130 hours.

Professor Erlanger, Professor Gesell, Dr. Gasser

4. Demonstration Methods. This course is designed primarily for students preparing to teach advanced 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 and Physiology, 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.
Pharmacology

Herbert S. Gasser, M.D. . . Acting Associate in Pharmacology
Julian Yerkes Malone, M.S. . . Instructor in Pharmacology

1. Pharmacology. (a) Lectures, stereopticon illustrations, 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. Students are urged to keep in touch with the current literature dealing with the various drugs as they are taken up in the lectures. Prerequisite, Anatomy, Biological Chemistry, and Physiology 2 and 3. Third trimester of the second year. Courses (a) and (b) are required of medical students, but course (a) may be taken alone by special students. 44 hours.

Dr. Gasser, Mr. Malone

(b) Laboratory Course. Students work in small groups and, so far as practicable, study in their own experiments all the pharmacological reactions which can be demonstrated by ordinary laboratory processes. The laboratory work is carried out almost wholly on mammalian forms. 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. Complete sets of apparatus for the individual experiments are supplied to each group of students. Two half days a week during the third trimester of the second year. 66 hours. Dr. Gasser, Mr. Malone

2. Advanced Course. This consists of an experimental study of the pharmacological action of rare or selected drugs. Opportunity is given for a study of the methods and processes ordinarily used in pharmacological laboratories. Hours to be arranged.

3. Research. The facilities and equipment of the laboratory are open to those who wish to carry on original investigations. Special efforts have been made to secure a full collection of drugs. Hours to be arranged.
Pathology and Bacteriology

Eugene L. Opie, M.D. . . . Professor of Pathology
Montrose T. Burrows, M.D. . Associate Professor of Pathology
James C. Small, M.D. . . . Instructor in Bacteriology
Howard H. Bell, M.D. . . . Instructor in Pathology
Hans P. Andersen, M.D. . Assistant in Pathology
L. S. Newman Walsh, M.D. . Assistant in Pathology
Alfred Goldman . . . Student Assistant in Pathology

First Year

1. Bacteriology. This course is a general survey of the entire field of bacteriology from the biological point of view. Special attention is given to the subjects of fermentation, putrefaction and toxin production, sterilization and disinfection, and the nature of infection and its effects. In the laboratory the methods of observing and staining bacteria and methods of bacteriological diagnosis are taught. Eleven hours a week during the third trimester. 121 hours.

Second Year

2. Pathology. Prerequisite courses for pathology are represented by the required work of the first year in anatomy, biological chemistry, and bacteriology. Graduate students in the College 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, and work in the laboratory. General pathology will be taught by lectures given in association with the study of the gross and histological characters of the lesions concerned and will be illustrated by such experiments as are suited to class instruction. 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. Lectures and laboratory work, 11 hours a week
in the first trimester and 1½ hours in the second trimester. 272 hours. Professor Opie, Professor Burrows, Dr. Andersen, Dr. Walsh

(b) Recitations. The work of each week is reviewed by a recitation, in which effort is made to determine how accurately the student has grasped the subjects studied in the laboratory and their relation to general considerations not adapted to demonstration before the class. One hour a week. 22 hours.

Professor Opie, Professor Burrows

(c) Conduct of Autopsies. Whenever material is available autopsies are performed before the class. Students are instructed in the methods of post-mortem examination and in small groups have opportunity to practice the methods employed. Special attention is given to the preparation of orderly records.

Professor Opie, Professor Burrows, Dr. Andersen, Dr. Walsh

(d) 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. One or two hours once a week. 44 hours.

Professor Burrows, Dr. Andersen, Dr. Walsh

3. Lectures on Infection and Immunity. Lectures on the nature of infection and immunity will be given in the first trimester of the second year. 24 hours.

Professor Burrows, Dr. Andersen

4. Study of Serum Reactions. 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 amboceptor and complement, precipitins, and other substances; they will determine the strength of an agglutinating serum, and will study the serum reactions used for the diagnosis of syphilis. Laboratory work, 2 hours a week during eleven weeks of the first trimester. 12 hours.

Professor Burrows, Dr. Andersen
5. **Clinical and Pathological Conference.** The specimens and microscopical slides from all autopsies are studied with reference to the clinical histories. The important gross and microscopical lesions are described in detail with lantern slides. The medical and surgical aspects of the lesions are discussed before the class by the physicians and surgeons of the departments concerned. One hour a week for the four trimesters in the second and third years. Professor Burrows, Dr. Andersen, Dr. Walsh

**Medicine**

George Dock, M.D. . . . . . . Professor of Medicine  
Elsworth S. Smith, M.D. . Clinical Professor of Medicine  
G. Canby Robinson, M.D. . Associate Professor of Medicine  
Albert E. Taussig, M.D. . Associate Professor of Clinical Medicine  
Walter Mills, M.D. . . . . . . Associate in Clinical Medicine  
Alan M. Chesney, M.D. . Associate in Medicine  
Walter Baumgarten, M.D. . Instructor in Clinical Medicine  
Frederick T. Fahlen, M.D. . Instructor in Clinical Medicine  
Jerome E. Cook, M.D. . . Instructor in Clinical Medicine  
Llewellyn Sale, M.D. . . . Instructor in Clinical Medicine  
Louis H. Hempelmann, M.D. . Instructor in Clinical Medicine  
Frank N. Wilson, M.D. . Instructor in Medicine  
Jacob J. Singer, M.D. . Instructor in Clinical Medicine  
Leo C. Bean, M.D. . . . . . . Instructor in Medicine  
Walter Fischel, M.D. . Instructor in Clinical Medicine  
Frank H. Ewerhardt, M.D. . Assistant in Medicine  
William H. Olmsted, M.D. . Assistant in Medicine  
Joseph W. Larimore, M.D. . Assistant in Clinical Medicine  
George Ives, M.D. . . . . . . Assistant in Clinical Medicine  
Oliver H. Campbell, M.D. . Assistant in Clinical Medicine  
Charles H. Eyermann, M.D. . Assistant in Clinical Medicine  
Raleigh K. Andrews, M.D. . Assistant in Medicine  
Leith H. Slocumb, M.D. . Assistant in Clinical Medicine  
Michael D. Moran, M.D. . Assistant in Medicine  
Fred J. Hodges . . . . . Fellow in Medicine
Second Year

1. 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. Second trimester. 44 hours. Professor Robinson

2. Elementary Medicine. The course is composed of the following subdivisions:

   (a) Recitations in Medicine. Based on reading assigned in a text-book of medicine. 22 hours. Dr. Wilson

   (b) Introductory Clinic. The observation and interpretation of symptoms and signs in ward and dispensary patients with special reference to pathological physiology and its relation to diagnosis. Instruction in the preparation of clinical histories is also included. 22 hours. Professor Dock

Second and Third Years

4. Physical Diagnosis. Practical training in the physical methods of diagnosis. This includes not only the ordinary methods of physical diagnosis but the technique and application of sphygmography, sphygmomanometry, fluoroscopy, and the like. Records and diagrams of the findings in all cases examined by members of the class are handed in and criticised. The class is divided into small groups and study patients in the hospital wards and in the dispensary. The course covers three trimesters, beginning in the third trimester of the second year. Students entering the third year take this course throughout the entire third year. Two hours a week for three trimesters. 66 hours. Professor Taussig and staff

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, faeces and puncture fluids. Material is obtained from cases in the hospitals and dispensaries. Considerable reading is
required outside of laboratory hours. Seven hours a week, first trimester. 77 hours. Dr. Chesney, Dr. Wilson, Dr. Olmsted

6. Medicine. The course is composed of the following subdivisions:

(a) Conferences in medicine are begun in the third trimester of the second year and continue for three trimesters. They aim at giving the student a theoretical and practical knowledge of the most important internal diseases according to current classification, and subjects are taken up according to a prearranged plan. These subjects are discussed on the basis of assigned reading and are illustrated by patients and by specimens from the pathological museum. Two hours a week for two trimesters and one hour a week for one trimester. 55 hours.

Professor Robinson, Dr. Chesney, Dr. Wilson

(b) Medical Dispensary. One-third of the class work in the medical dispensary during each trimester. This group is subdivided and the sub-groups rotate through the general medical, gastro-intestinal, tuberculosis and neurological clinics. 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 Robinson, Dr. Mills, Dr. Singer, Dr. Schwab

(c) Clinical and Pathological Conferences. Students attend these conferences during four trimesters of the second and third years. The staffs of the various clinical departments and of the department of pathology participate in giving this course. See pathology.

7. Therapeutics. A course designed to give students a practical knowledge of the methods, the various drugs, and the agencies employed in the treatment of disease. The general conditions under which each drug is used in pathological conditions and its application are discussed. The action of drugs and the use of other remedial agents, such as sera, vaccines, as well as hydro- and mechano-therapy are considered. Two hours a week during one trimester. 22 hours.

Dr. Chesney, Dr. Baumgarten, Dr. Ewerhardt
8. Dietetics. Lectures and recitations upon foods, beverages and condiments in health and disease. One hour a week for one trimester. 11 hours. Dr. Olmsted

Third and Fourth Years

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 three hours 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. See Medicine 6 (c). 150 hours. Professor Dock, Professor Smith, Professor Robinson, 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 discussed from various points of view. Once a week for one year. 33 hours. Professor Dock

(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. Material from the Out-Patient Department is presented by members of the dispensary staff. 33 hours. Professor Robinson, Professor Smith, Professor Schwab, Dr. Mills, Dr. Sale, Dr. Singer

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 special arrangement. Dr. Mills, 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 special arrangement.

Professor Robinson, Dr. Wilson

15. Advanced Work in Laboratory Diagnosis. An elective course for those qualified. Undergraduates who can devote one entire trimester to the work and graduates in medicine with the necessary previous training who wish to investigate problems in clinical pathology are eligible. Hours to be arranged.

Dr. Chesney

Neurology and Psychiatry

Sidney I. Schwab, M.D. . . . Professor of Clinical Neurology
Francis R. Fry, M.D. . . . Clinical Professor of Neurology
Francis M. Barnes, Jr., M.D. Associate in Clinical Psychiatry
Malcolm A. Bliss, M.D. . . . Instructor in Clinical Psychiatry
Michael Kasak, M.D. . . . Assistant in Neurology

Second and Third Years

1. Neurology. The course in neurology is composed of the following subdivisions:

(a) Clinical Neurology and Psychiatry. Introductory course. Lectures and demonstrations on the clinical anatomy and physiology of the nervous system and allied subjects. Histories of actual cases are used to illustrate the subjects which are considered. One hour a week for two trimesters. 22 hours.

Professor Schwab

(b) Neuropathology. Following a résumé of neural anatomy, the gross and microscopic lesions of disease of the nervous system are studied, with practical exercises in the examination and description of diseased tissues. Two hours a week for one trimester. 22 hours.

Professor Schwab, Dr. Kasak
(c) Neurological Dispensary. Students spend part of the time assigned to the medical dispensary in the neurological clinic, where small groups of them take histories and make physical examinations as adapted to neurology. Diagnosis and treatment of neurological conditions are studied.

Professor Schwab, Dr. Kasak

2. Psychiatric Dispensary. The students attend the psychiatric clinic in small groups, where they receive instruction and practice in methods of examination. The symptoms and diagnosis of mental diseases are discussed. Two hours a week for one trimester. 22 hours.

Dr. Barnes

Third and Fourth Years

3. Neurology. This course is subdivided as follows:

(a) Neurological ward rounds with the medical group of students when diagnosis and treatment of hospital patients are taken up. One hour a week for one trimester. 11 hours.

(b) Neurological Conferences. Hospital and dispensary patients are presented before the class, and diagnosis, pathology and treatment are discussed. One hour a week for three trimesters. 33 hours.

Professor Schwab

4. Psychiatric Clinic. Selected cases illustrating the various groups of mental disorders are demonstrated and discussed. This clinic occurs at the St. Louis City Sanitarium. Two hours a week for one trimester.

Dr. Barnes

Dermatology

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

Third Year

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

Fourth Year

(b) Dermatology. A clinical course, conducted in the Dis-
pensary, in which the student examines patients and is instructed
in the diagnosis and treatment of diseases of the skin, and syphilis.
33 hours. Professor Engman, Dr. Mook

Medical Jurisprudence

George C. Mackay, LL.B . . Instructor in Medical Jurisprudence

Medical Jurisprudence. A course given in the fourth 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. 22 hours.

Surgery

Fred T. Murphy, M.D . . Professor of Surgery
Paul Y. Tupper, M.D . . Clinical Professor of Surgery
Harvey G. Mudd, M.D . . Clinical Professor of Surgery
Ernest Sachs, M.D . . Associate Professor of Surgery
Nathaniel Allison, M.D . . Professor of Clinical Orthopedic Sur-
gery
Willard Bartlett, M.D . . Associate in Clinical Surgery
Vilray P. Blair, M.D . . Associate in Clinical Surgery
Malvern B. Clopton, M.D . . Associate in Clinical Surgery
John R. Caulk, M.D . . Associate in Clinical Genito-Urinary
Surgery
Barney Brooks, M.D . . Associate in Surgery
Arthur O. Fisher, M.D . . Associate in Clinical Surgery
Archer O'Reilly, M.D . . Assistant in Clinical Orthopedic Sur-
gery
Second and Third Years

1. Introduction to Surgical Pathology and Surgical Technique. A laboratory course in which the process of repair incident to surgical wounds is studied in microscopical sections and in gross specimens. The students test and practice the various methods of sterilization of hands, instruments, etc., using bacterial cultures as checks on these methods. Five hours weekly during the second trimester of the second year. 55 hours.

Professor Murphy, Dr. Brooks

2. Surgery. The course is subdivided as follows:

(a) Surgical Out Clinic. For one trimester, three times weekly, beginning with the third trimester of the second year, 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. 88 hours.

Professor Murphy, Professor Sachs, and Assistants
(b) Surgical Recitations. A weekly recitation during three 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. 33 hours. Dr. Rainey

(c) Operative Surgery. A three-hour exercise given weekly during the second trimester of the third year. Actual case histories are discussed, and the operation indicated from this discussion is performed on animals by the students. The surgical technique is as rigid as in the operating room. The course is given in two sections. 33 hours. Professor Sachs, Dr. Fisher

(d) Surgical Clinic. A weekly clinic throughout three trimester. See Course 4 (b). 33 hours. Professor Murphy, Professor Sachs

(e) Surgical Conference. The pathology, diagnosis, and treatment of surgical conditions, as illustrated by ambulatory outpatient cases, are discussed. A weekly exercise during three trimesters. 33 hours. Professor Sachs, Dr. Fisher, Dr. Brooks

(f) Genito-Urinary Surgery. Lectures and recitations in genito-urinary surgery. Second trimester, third year. 11 hours. Dr. 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. When possible, case histories are presented with the specimens. 66 hours. Dr. Brooks, and other members of the department

Third and Fourth Years

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. five days a week.

Rounds are made from 9 to 10 a.m. Professor Murphy and the Surgical Resident discuss the general surgical cases. Pro-
Professor Sachs makes rounds on the special neurological cases once a week. Dr. Allison, Dr. Caulk, and Dr. Blair make rounds from time to time on their special cases.

The students, under the direction of the house staff, take case histories, make physical examinations, and the usual laboratory examinations. They assist at operations and with the anæsthetic, and do the routine surgical dressings. One day each week the group spends the period from 9 a.m. to 12 m. at the St. Louis Children's Hospital, where Dr. Allison demonstrates the orthopedic cases and Dr. Clopton the general surgical cases. 198 hours.

Professor Murphy, Professor Sachs, Professor Allison, Dr. Clopton, Dr. Caulk, Dr. Blair, Dr. Fisher, the Resident

(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. 38 hours. Professor Murphy, Professor Sachs

(c) **Lectures on Surgery.** Once a week for three trimesters. Lectures will be given by different men on subjects of special surgical importance and interest. 33 hours. Professor Murphy, and others

5. **Genito-Urinary Out Clinic.** The student serves as dresser in the Genito-Urinary Out Clinic six times a week for one-half trimester under the same conditions as in Course 2. 33 hours. Dr. Caulk, and Assistants

6. **Orthopedic Surgery.** Instruction is given at the Barnes Hospital and at the St. Louis Children's Hospital as described in Course 4 (a). Special lectures on this subject are given in Course 4 (c). Professor Allison, Dr. O'Reilly

7. **Operative Surgery on the Cadaver.** Two hours weekly during the third trimester of the fourth year. Instruction is given by the actual practice of surgical operations performed on the cadaver. 22 hours. Professor Tupper

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 then are encouraged to work at some unsolved surgical problem. 22 hours. Dr. Bartlett

9. Surgical Pathology. Members of the Surgical Group of the third and fourth year classes take charge of the specimens which are received at the Surgical Laboratory and under the supervision of the staff describe the gross material and make the microscopic diagnosis.

10. Principles of Roentgenology. A course of lectures one hour a week for one trimester of the fourth year on X-ray diagnosis. Lectures and demonstration of plates. Dr. Moore

Ophthamology
Arthur Eugene Ewing, M.D. Clinical Professor of Ophthamology
Meyer Wiener, M.D. Associate in Clinical Ophthamology
William E. Shahan, M.D. Associate in Clinical Ophthamology
Julius H. Gross, M.D. Instructor in Clinical Ophthamology
William F. Hardy, M.D. Instructor in Clinical Ophthamology

(a) OPTHALMOLOGY. Eleven lectures are given in the second trimester of the third year. Practical instruction is given to small sections of the fourth year class twice weekly during one trimester. Under the supervision of instructors, the students take histories, make complete examinations, and carry out the routine treatment. 55 hours. Professor Ewing, Dr. Wiener, and Assistants

(b) OPTHALMOLOGICAL PATHOLOGY. A course in pathology of diseases of the eye, consisting of lectures, demonstrations, and recitations, is given during the first trimester of the fourth year. 11 hours. Dr. Shahan

Otology
John B. Shapleigh, M.D. Clinical Professor of Otology
Albert F. Koetter, M.D. Associate in Clinical Otology
Harry W. Lyman, M.D. Instructor in Clinical Otology
Otology. Lectures are given to the fourth year class upon the anatomy and the more common diseases of the ear and are followed by practical instruction in sections in the methods of examination. Patients are assigned to students, who are required, under supervision, to make examinations and diagnoses, and carry out routine treatment. 55 hours.

Professor Shapleigh, Dr. Koetter, and Assistants

Laryngology and Rhinology

Greenfield Sluder, M.D. . . . Clinical Professor of Laryngology and Rhinology
William E. Sauer, M.D. . . . Instructor in Clinical Laryngology and Rhinology
H. Edward Miller, M.D. . . . Instructor in Clinical Laryngology and Rhinology
C. Armin Gundelach, M.D. . . Instructor in Clinical Laryngology and Rhinology
William M. C. Bryan, M.D. . . Instructor in Clinical Laryngology and Rhinology
Alphonse F. Dames, M.D. . . Assistant in Clinical Laryngology and Rhinology
Millard F. Arbuckle, M.D. . . Assistant in Clinical Laryngology and Rhinology

Laryngology and Rhinology. Eleven lectures are given during the second trimester of the third year. Small sections of the fourth year class receive practical instruction twice weekly in the Out-Patient Clinic. 55 hours.

Professor Sluder, and Assistants

Obstetrics and Gynecology

Henry Schwarz, M.D. . . . Clinical Professor of Obstetrics
Harry S. Crossen, M.D. . . Associate in Clinical Gynecology
George Gellhorn, M.D. . . . Associate in Clinical Gynecology
Fred J. Taussig, M.D. . . . Associate in Clinical Gynecology
Grandison D. Royston, M.D. . Instructor in Clinical Obstetrics
Otto H. Schwarz, M.D. . . . Instructor in Clinical Obstetrics
Adolph G. Schlossstein, M.D. Assistant in Clinical Obstetrics
Second and Third Years

1. Obstetrics. This course, beginning in the third trimester of the second year and ending in the second trimester of the third year, consists of recitations and demonstrations based upon assigned reading of a prescribed text-book and is supplemented by laboratory work and clinical exercises.

Instruction in the third trimester of the second year covers the anatomy and physiology of the female organs of generation, including the anatomy of the pelvis, ovulation and menstruation, fertilization and development of the ovum, and serves as an introduction to all courses in Obstetrics and Gynecology.

The work of the first trimester of the third year deals with the physiology of pregnancy, labor, and the puerperium; the signs and symptoms of pregnancy are studied in the dispensary and on house patients; the mechanism of labor is demonstrated in the delivery room; puerperal involution, lactation, and the physiology of the newborn are taught in the lying-in wards and in the nursery.

The second trimester of the third year is devoted to the study of the pathology of pregnancy, labor, and the puerperium.

Throughout the entire course the students are drilled in obstetrical diagnosis, both by laboratory and by clinical methods, to prepare them for the clinical work in Obstetrics which begins with the third trimester of the third year.

(a) Recitations and Demonstrations. 55 hours.
   Professor Schwarz, Dr. Royston

(b) Laboratory work and clinical exercises (in sections of one-third of the class) four hours a week for eleven weeks. 44 hours.
   Dr. O. H. Schwarz

2. Gynecology. Recitations and demonstrations covering the essentials and supplementing the practical work which is done in connection with Obstetrics 1. One hour a week during the first and second trimesters of the third year. 22 hours.

Dr. Gellhorn, Dr. Taussig
Third and Fourth Years

3. Obstetrics. The course is arranged as follows:

(a) Attendance on Obstetrical Cases. The obstetrical service furnishes more than 800 cases a year (about 400 hospital and about 600 out-clinic cases). To each student is assigned a minimum of fifteen cases which he watches during pregnancy, attends personally during delivery, and visits during the lying-in period; all work is done under supervision of instructors; the histories furnished by the students are discussed in clinical conference. Cases of special interest and those requiring major operations are delivered before the sections of the class and do not count towards the minimum requirement of fifteen cases for each student. From the beginning of the third trimester of the third year to the end of the second trimester of the fourth year (time exclusive of the hours allotted to Obstetrics in the general schedule).

Professor Schwarz, Dr. Royston, Dr. Schlossstein
Dr. O. H. Schwarz, and Assistants

(b) Clinical Lectures on Selected Obstetrical and Gynecological Topics. One hour a week during the first and second trimesters of the fourth year. 22 hours. Professor Schwarz

(c) Obstetrical and Gynecological Ward Work. Sections composed of one-sixth of the class act as clinical clerks in the obstetrical and gynecological division of the Barnes Hospital for a period of five and a 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; perform minor operations under supervision and assist at major operations; attend clinical conferences and manikin practice. Eighteen hours a week for five and a half weeks. 99 hours.

Professor Schwarz, Dr. Crossen, Dr. F. J. Taussig,
Dr. Royston, Dr. O. H. Schwarz, Dr. Schlossstein

4. Special Investigation and Research. Carefully kept records of many thousand cases, large clinical material, excellent laboratory facilities, and a sufficient number of instructors enable the department to offer those who possess the necessary training an
opportunity for original work under the guidance of instructors
detailed for the purpose.

Pediatrics

W. McKim Marriott, M.D. . . Professor of Pediatrics
George M. Tuttle, M.D. . . Clinical Professor of Pediatrics
Borden S. Veefer, M.D. . . Professor of Clinical Pediatrics
Philip C. Jeans, M.D. . . . Associate Professor of Pediatrics
Jean V. Cooke, M.D. . . . Associate in Pediatrics
Adrien S. Bleyer, M.D. . . Instructor in Clinical Pediatrics
Theodore C. Hempelmann, M.D. Instructor in Clinical Pediatrics
Hugh McCulloch, M.D. . . Instructor in Pediatrics
Samuel W. Clausen, M.D. . Instructor in Pediatrics
Jack F. Perkins, M.D. . . Assistant in Pediatrics
Phelps G. Hurford, M.D. . . Assistant in Clinical Pediatrics
Maurice J. Lonsway, M.D. . Assistant in Clinical Pediatrics
Kirsten Utheim, M.D. . . Fellow in Pediatrics

Second Year

1. (a) Pediatrics. During the last trimester of the second year two hours a week are devoted to recitations, demonstrations and lectures upon the growth and development of the normal infant and child and upon certain diseases peculiar to childhood or differing in their manifestations in the child as contrasted with the adult. 22 hours.

Third Year

1. (b) Pediatrics. The first trimester of the third year is devoted principally to the consideration and demonstration of the infectious diseases. 22 hours.

1. (c) Pediatrics. During the second trimester of the third year is considered the subject of nutrition, normal and abnormal, as related to infant feeding. 22 hours.

Professor Jeans, Dr. Hempelmann

Third and Fourth Years

2. Pediatrics. During the third trimester of the third year or during the first or second trimester of the fourth year, 13
hours a week for five and a half consecutive weeks section teaching is given in the wards of the St. Louis Children’s Hospital and in the Out-Patient Children’s Clinic. Patients are assigned for special study, following which the case is discussed before the section by an instructor. Practical work in milk analysis and milk modification is included in this course and likewise various measures, such as lumbar puncture, antitoxin administration, etc., which are extensively used in pediatric practice. 70 hours.

Professor Jeans, and Instructors

3. Pediatric Clinic. A weekly clinic on Wednesday from 12 to 1. 33 hours. Professor Tuttle

4. An elective course is given for fourth-year students in the last trimester. The details and outline of this course are arranged with each student or group electing it. Its general nature is that of research work. Major elective course. 150 hours.

Preventive Medicine

Third Year

1. Preventive Medicine and Hygiene. Lectures upon the transmission and prevention of infectious diseases (including the important tropical diseases), infant mortality, occupational diseases, the fundamentals of military hygiene, and some other subjects bearing upon the maintenance of health, will be given once a week during two trimesters. 22 hours. Dr. Bleyer

2. Preventive Medicine. Lectures upon the transmission and prevention of certain diseases caused by bacteria will be given once a week during one trimester. 11 hours.

Social Medicine

Third Year

1. Social Service. Lectures and conferences upon various medical phases of Social Medicine will be given under the direction
of the Faculty Committee for the Department of Social Service. These lectures and conferences will be conducted by various members of the Faculty, by social workers, and by several qualified persons not connected with the University. Special emphasis will be laid upon the relation of social and medical problems in diagnosis and treatment, and upon the organization and use of medical and philanthropic institutions. The object of the course is to acquaint students with the methods of medical social work and to stimulate interest in the social aspects of medicine. One hour a week for one trimester.

TRAINING SCHOOL FOR NURSES

Helen L. Bridge, B.S., R.N. . Acting Director of the School and Superintendent of Nurses
Homer C. Harris, R.N. . . First Assistant
Alta G. Kindell, R.N. . . Second Assistant
Benta V. Whitaker, R.N. . Third Assistant

The Washington University Training School is immediately under the management and direction of the University through the Executive Faculty of the School of Medicine. This co-ordination makes possible unusual opportunities for the adequate education of nurses.

During the preparatory course of three months, instruction is given in the laboratories and by the departmental staffs of the School of Medicine in anatomy, chemistry, physiology, and bacteriology; and class-room instruction and practice in all the fundamental nursing procedures, hygiene, history of nursing, drugs and solutions, ethics, and cookery, are given by the nursing staff.

Following this preliminary course the pupils are given instruction in the wards of Barnes and St. Louis Children's Hospitals and the Washington University Dispensary. In addition to medical and surgical work, opportunities are given for experience in diet kitchen, operating room, obstetrical and contagious wards.

During the last year students may elect special work in the Social Service Department, the Training School Office and Public Health Nursing. Visiting nursing, baby welfare and tubercu-
losis work are phases of Public Health Nursing to which pupils are introduced. A few well qualified students may be placed in charge of wards for executive experience.

Throughout the three years' course, in addition to the practical instruction in the wards, series of lectures are given by the Hospital staffs and technical instruction by the staff of the Training School. Included in the curriculum is a required course in English, which is given by the Department of English of the University.

Credit is given for the special preparatory courses offered by Columbia University, Simmons College, the University of Missouri, etc. One scholarship is available for members of the Senior class who may wish to take graduate work.

The separate catalogue of the Training School may be obtained upon application to the office of the Director of the School, 600 South Kingshighway.
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*Analytical Chemistry: Chemistry I—Monday 3-5 p.m.; Wednesday 2-5 p.m. This course is required of those who do not present credit for Analytical Chemistry on admission.*
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of First Year. Second Trimester

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### Washington University School of Medicine

#### Schedule of Second Year. Third Trimester

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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year. Group A., Third Trimester; Group B., First Trimester; Group C., Second Trimester.*

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<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
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<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
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| 9 to 12 | Medicine 10. Ward Work, Barnes Hospital.  
| 12 to 1 | Neurology Clinic Neurology 3  
          Surgery Clinic Surgery 4  
          Pediatric Clinic Pediatrics 3  
          Medicine Clinic Medicine 10  
          Obstetrics Lecture Obstetrics 3 I and II Trimesters  
          Medicine Clinic Medicine 10 |
| 2 to 3 | Dermatology O. P. D.  
          Dermatology O. P. D.  
          Ophthalmological Pathology I Trimester  
          Psychiatry Medicine 12 III Trimester 2-5 p.m.  
          Dermatology O. P. D. |
| 3 to 4 | Surgery Lecture Surgery 4  
          Medical Jurisprudence I and II Trimesters  
          Otology Lecture III Trimester |
| 4 to 5 | Medicine Clinic Medicine 10 |

*Students who enter the School after the completion of their second year without credit for the clinical work given in this School will, in the third trimester of the third year, follow the schedule of the third trimester of the second year except that, in place of Pharmacology, they will take the afternoon work of the third trimester of the third year.
### Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year.

**Group B., Third Trimester; Group C, First Trimester; Group A., Second Trimester.**

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<tr>
<th>Hours</th>
<th>Monday</th>
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<tbody>
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<td>9 to 12</td>
<td>Surgery 4. Ward Work, Barnes or St. Louis Children's Hospital.</td>
<td>Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.</td>
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<td>12 to 1</td>
<td>Neurology Clinic Neurology 3</td>
<td>Surgery Clinic Surgery 4</td>
<td>Pediatric Clinic Pediatrics 3</td>
<td>Medicine Clinic Medicine 10</td>
<td>Obstetrics Lecture Obstetrics I and II Trimesters</td>
<td>Medicine Clinic Medicine 10</td>
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<td>2 to 3</td>
<td>Otology O. P. D.</td>
<td>Laryngology O. P. D.</td>
<td>Ophthalmological Pathology I Trimester</td>
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<td>Psychiatry Medicine 12 III Trimester 2-5 p. m.</td>
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<td>4 to 5</td>
<td>Medical Jurisprudence I and II Trimesters</td>
<td>Otology Lecture III Trimester</td>
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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Schedule of Third Trimester of Third Year and First and Second Trimesters of Fourth Year. Group C, Third Trimester; Group A, First Trimester; Group B, Second Trimester.*

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<td>10 to 11</td>
<td>Genito-Urinary O. P. D. Surgery 5</td>
<td>Surgery Clinic Surgery 4</td>
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<td>Obstetrics Lecture Obstetrics 3 I and II Trimesters</td>
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<td>Obstetrics Lecture Obstetrics 3 I and II Trimesters</td>
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<td>Surgery Clinic Surgery 4</td>
<td>Pediatric Clinic Pediatrics 3</td>
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<td>Obstetrics Lecture Obstetrics 3 I and II Trimesters</td>
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<td>Pediatric Clinic Pediatrics 3</td>
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<td>4 to 5</td>
<td>Surgery Lecture Surgery 4</td>
<td>Medical Jurisprudence I and II Trimesters</td>
<td>Otolaryngology Lecture III Trimester</td>
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Students who complete the course in accordance with the regular schedule will have the third trimester of the fourth year available for elective work; during this trimester credit must be gained for a minimum of 300 hours of elective work, 150 of which must be done in some one department.

Students who enter the School after the completion of their second year without credit for the clinical work given in this School in the third trimester of the second year will complete the required work of the fourth year during the mornings of this trimester. The afternoons of the third trimester of the fourth year will be available for elective work; during this trimester credit must be gained for a minimum of 75 hours of elective work which may be taken in not more than two subjects.

Choice of elective courses is subject to the approval of the head of the department in which the work is to be done.
Washington University


I. The College (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., Dean

III. The School of Architecture (Skinker road and Lindell boulevard)
     Alexander S. Langsdorf, M.M.E., Dean

IV. The School of Commerce and Finance (Skinker road and Lindell boulevard)
    William F. Gephart, Ph.D., Dean

V. The Henry Shaw School of Botany (Shenandoah and Tower Grove avenues)
    George T. Moore, Ph.D., Engelmann Professor of Botany

VI. The Graduate School (Skinker road and Lindell boulevard)
    Otto Heller, Ph.D., Chairman of the Graduate Committee.

VII. The School of Law (Skinker road and Lindell boulevard)
    Richard L. Goode, A.M., LL.D., Dean

VIII. The School of Medicine (Kingshighway and Euclid avenue)
    G. Canby Robinson, M.D., Dean

IX. The School of Dentistry (Twenty-ninth and Locust streets)
    John H. Kennerly, M.D., D.D.S., Dean

X. The School of Fine Arts (Skinker road and Lindell boulevard)
    Edmund H. Wuerpel, Director

XI. Division of University Extension (Skinker road and Lindell boulevard)
    Frederick W. Shipley, Ph.D., Director

The following schools are also conducted under the charter of the University:

Mary Institute—A Preparatory School for Girls (Waterman and Lake avenues)
   Edmund H. Sears, A.M., Principal

The Training School for Nurses (600 S. Kingshighway)
   Helen L. Bridge, B.S., Acting Superintendent