1920

Washington University School of Medicine bulletin, 1920

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BULLETIN
OF
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ST. LOUIS

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THE SCHOOL OF MEDICINE

APRIL, 1920

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CALENDAR

1920-21

Examinations for Advanced Standing and Special Examinations, Monday, Tuesday, and Wednesday, September 20, 21, and 22, 1920.

Academic Year (First Trimester) begins Thursday, September 23, 1920.


First Trimester ends Wednesday, December 22, 1920.

Christmas Recess, Thursday, December 23, 1920, to Sunday, January 2, 1921, inclusive.

Second Trimester begins Monday, January 3, 1921.

Holiday, Washington’s Birthday, Tuesday, February 22, 1921.

Second Trimester ends Saturday, March 12, 1921.

Third Trimester begins Monday, March 14, 1921.

Holiday, Good Friday, March 25, and Saturday, March 26, 1921.

Third Trimester ends Saturday, May 28, 1921.

Final Examinations begin Monday, May 30, 1921.

Commencement, Thursday, June 9, 1921.
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A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904. Resident Assistant Pathological Chemist, McLean Hospital, Waverley, Mass., 1900-03; Assistant, Fellow, and Instructor in Chemical Pathology, Cornell University, 1904-10; Chemist to Huntington Fund for Cancer Research, 1906-10; Pathological Chemist and Head of Chemical Section of the Laboratory of Bellevue Hospital, 1906-10. Dean, Washington University School of Medicine, 1915-19. Chemist to the Barnes Hospital.

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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 Journal of Cancer Research.

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B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Assistant in Chemistry, University of North Carolina, 1908-04; 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.

**4922 Forest Park Boulevard**

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*Professor of Surgery*

A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; Interne, Presbyterian Hospital, Chicago, 1907-08; Fellow in Pathology, Rush Medical College, 1906-07; Fellow, Assistant, and Instructor in Surgery, Rush Medical College, 1908-19; Member of Staff of O. S. A. Sprague Memorial Institute for Clinical Research, Chicago, 1912-15. Consulting Surgeon, St. Louis City Hospital, and Surgeon in Chief to the Barnes Hospital, the St. Louis Children's Hospital, and the Washington University Dispensary.

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B.S., College of Charleston, 1908; Ph.D., Johns Hopkins University, 1911, and M.D., 1917; Assistant and Associate in Physiological Chemistry,
1911-14, and Associate in and Associate Professor of Pharmacology, Johns Hopkins University, 1914-19.

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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**

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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.

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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, The Missouri Baptist Sani-
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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, 1899-1908. 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

ELSWORTH STRIKER SMITH, M.D. . Clinical Professor of Medicine
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, St. John's Hospital, Jewish Hospital, Barnard Free Skin and Cancer Hospital, Frisco Hospital and St. Louis Maternity 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, 1888; A.M., Washington University, 1912. Clinical Lecturer on Ophthalmology, St. Louis Medical College, 1891. Assistant in the Ophthalmic Clinic of St. Luke's Hospital, 1888-95. Ophthalmologist to the St. Louis Children's Hospital and to the Barnes Hospital, and Chief of the Ophthalmological Clinic, Washington University Dispensary.

5956 Cabanne Avenue
GREENFIELD SLUDER, M.D.  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.

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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, Derritt 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 Dermatologist in Chief to the Washington University Dispensary.

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M.D., Harvard University, 1886. 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, 1913-19. Visiting Neurologist to the St. Louis City Hospital and Sanitarium, 1909-13; Visiting Neurologist
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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. Attending Neurological Surgeon to Montefiore Home and Beth Israel Hospitals, and Adjunct Assistant Attending Surgeon to Bellevue Hospital, New York, 1909-11. Associate in and Associate Professor of Surgery, Washington University Medical School, 1911-19. 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.

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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, Associate Physician, St. Louis Children's Hospital, and Chief of Pediatric Clinic, Washington University Dispensary.*

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Metropolitan Building

VILRAY PAPIN BLAIR, M.D. ....... Associate in Clinical Surgery
A.M., Christian Brothers College, 1890; M.D., 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. 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, St. Vincent's Asylum, and St. Louis Maternity Hospital. Member of the Editorial Staff, American Journal of Ophthalmology. Visiting Surgeon, St. Louis City Hospital; Assistant Ophthalmologist to the Barnes Hospital; and Surgeon to Out Patients, Washington University Dispensary.

Carleton Building

GEORGE GELNHORN, M.D. .... Associate in Clinical Gynecology
M.D., University of Wurzburg, 1894. Assistant in Gynecology, Mackenrodt Hospital, Berlin, 1895-97, Assistant in Obstetrics, University of Jena, 1898, and University of Vienna, 1899; Instructor and Lecturer in Gynecology, Washington University Medical School, 1904-11. Gynecologist to St. Luke's Hospital and to Barnard Free Skin and Cancer Hospital; Visiting Gynecologist to St. Louis City Hospital; Consulting Obstetrician to St. Louis Maternity Hospital; Consulting Gynecologist
to St. John's Hospital. 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, 1893; M.D., St. Louis Medical College, 1898; Interne and Assistant Superintendent, Female Hospital, St. Louis, 1898-1901. Instructor and Lecturer in Gynecology, Washington University Medical School, 1906-09. Clinical Assistant, 1906-08, Surgeon to Out Patients, 1909-11, and Chief of Gynecological Out Patient Clinic, 1912-14, Washington University Hospital; Gynecologist, Barnard Free Skin and Cancer Hospital; Obstetrician, St. Louis Maternity Hospital; Consulting Gynecologist, St. John's Hospital. Visiting Surgeon, St. Louis City Hospital, and Assistant Gynecologist to the Barnes Hospital.

Wall Building

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, 1900-20; Associate Surgeon, St. Louis Mullanphy Hospital, 1907-15. Associate Surgeon, St. Louis Children's Hospital, and Assistant Surgeon to the Barnes Hospital.

Humboldt Building

FRANCIS MERRIMAN BARNES, JR., M.D. Associate in Clinical Psychiatry
A.B., Hamilton College, 1908, 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; Medical Director, Glenwood Sanatorium; Consulting Neurologist, St. John's Hospital. Visiting Physician, St. Louis City Hospital; Consulting Physician, City Sanitarium.

University Club Building
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 Gastro-enterologist to Out Patients, Washington University Dispensary.

Wall Building

*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

University Club Building

BARNEY BROOKS, M.D. . . . . . . . Associate in Clinical Surgery
B.S., University of Texas, 1905; M.D., Johns Hopkins University, 1911; Resident House Officer, Johns Hopkins Hospital, 1911-12. Assistant, Instructor, and Associate in Surgery, Washington University Medical School, 1912-19. Resident Surgeon, Barnes Hospital, 1914-16. Assistant Surgeon to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

5736 McPherson Avenue

* Died February 28, 1920.
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, 1914-17. Assistant in Medicine, Johns Hopkins University, 1913-14. Assistant Physician to Barnes Hospital.

5705a Enright Avenue

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.

4418 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. Assistant Surgeon to the Barnes Hospital and to the St. Louis Children's Hospital, and Chief of Surgical Clinic, Washington University Dispensary.

Humboldt Building

WILLIAM EWING SHAHAN, M.D. ........ Associate in Clinical Ophthalmology

Metropolitan Building
Archie W. L. Bray, A.M. ......... Associate in Anatomy
A.B. (Hons.), Cambridge University, 1909; A.M., Harvard University, 1917; Master of Science and Mathematics, St. John's, N. F., 1909-11; Tutor in Biology, Columbia College, New Westminster, B. C., 1911-13; Assistant Professor in Biology, University of Montana, 1914-17; Teaching Fellow in Zoology and Assistant in Botany, Harvard University, 1917-19.

1650 S. Thirty-ninth Street

Alfred Conrad Kolls, M.D. ......... Associate in Pharmacology
B.S., University of Wisconsin, 1914, and M.S., 1915; M.D., Johns Hopkins University, 1917. Assistant in Pharmacology and Toxicology, University of Wisconsin, 1913-15; Assistant in Pharmacology, Johns Hopkins University, 1917-18.

1606 Bellevue Avenue, Richmond Heights

Frederick Eberson, Ph.D. ......... Associate in Dermatology
B.Sc., College of the City of New York, 1912; A.M., Columbia University, 1914; Sc.M., Iowa State College, 1915; Ph.D., Columbia University, 1916. Research Assistant, Bacteriology, Sanitary Science and Public Health, Massachusetts Institute of Technology; Research and Teaching Fellow in Bacteriology, Iowa State College, 1914-15; Assistant, Department of Pathology and Bacteriology, Rockefeller Institute for Medical Research, 1917-18.

4949 Forest Park Boulevard

Leland Barton Alford, M.D. Associate in Clinical Neurology
A.B., University of Missouri, 1908; M.D., Washington University Medical School, 1912. Acting Pathologist and Research Officer, Monson State Hospital, Palmer, Mass., 1910-11; Interne, Telfair Hospital, Savannah, 1912. Assistant in Pathology and Instructor in Neurology, Washington University Medical School, 1912-17. Assistant Neurologist to the Barnes Hospital, 1915-16. Visiting Physician, St. Louis City Hospital, and Physician to Out Patients, Washington University Dispensary.

University Club Building

William Frederic Hardy, M.D. Associate in Clinical Ophthalmology
M.D., Washington University, 1901; Interne, St. Louis City Hospital, 1901-02; Collaborator, American Journal of Ophthalmology. Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1917-18. Visiting Surgeon to the St. Louis City Hospital, Assistant
Ophthalmologist to Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Metropolitan 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, 1903-08. Member of the Medical Staff, St. Louis Maternity Hospital, 1908-13. Member of the Medical Staff, St. Luke's 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; Attending Physician, Barnard Free Skin and Cancer Hospital; Dermatologist, Missouri Pacific Railway Hospital. Visiting Physician, St. Louis City Hospital, Assistant Dermatologist to the St. Louis Children's Hospital and the Barnes Hospital, and Chief of the Dermatological Clinic, Washington University Dispensary.

Wall Building

JEROME EPSTEIN COOK, M.D. . . . Instructor in Clinical Medicine
M.D., Washington University, 1905; 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. Visiting Physician, St. Louis City Hospital; Assistant Physician to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

**Metropolitan Building**

**Grandison Delaney Royston, M.D. Instructor in Clinical Obstetrics**

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

**University Club Building**

**Llewellyn Sale, M.D. Instructor in Clinical Medicine**

M.D., Washington University, 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. Associate Physician, Jewish Hospital, St. Louis; Consulting Physician, St. John's Hospital. Visiting Physician, St. Louis City Hospital, and 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. Lecturer on Preventive Medicine, Washington University Medical School; Active Pediatrician, St. Louis Maternity Hospital. Visiting Physician, St. Louis City Hospital, and Physician to Out Patients, Washington University Dispensary.

University Club Building

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 Clinical 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 Hospitals, 1912-15. Assistant Physician, St. Louis Children's Hospital, and Physician to Out Patients, Washington University Dispensary.

University Club Building

Theodore C. Hempelmann, M.D. . . . . . . . . . . . . . . . . Instructor in Clinical Pediatrics
M.D., Washington University, 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.

Metropolitan Building

Howard Homer Bell, M.D. . . . . . Instructor in Bacteriology
M.D., University of Pennsylvania, 1912; Interne, Harrisburg General Hospital, 1912-18. Assistant in Pathology and Bacteriology, University
of Alabama School of Medicine, 1913-14; Assistant in Pathology, Washington University Medical School, 1914-17.

Euclid Avenue and Kingshighway

Frank Norman Wilson, M.D. . . . . . . Instructor in Medicine
B.S., University of Michigan, 1911, and M.D., 1918; Interne, University Hospital, Ann Arbor, First Assistant in Internal Medicine, and Instructor in Internal Medicine, 1913-16, University of Michigan. Assistant Physician to Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

6127 Pershing Avenue

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. 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. Assistant Otologist to the St. Louis Children's Hospital and Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.

Carleton Building

Jacob Jesse Singer, M.D . . . . . . Instructor in Clinical Medicine
M.D., Washington University, 1904; Interne, St. Louis Female Hospital, 1904-06. Assistant Physician, City Dispensary, 1906-09. Consulting Physician, City Sanitarium, 1914-16; Consulting Physician, Lutheran Hospital; Physician to Night and Day Camp; Consultant 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

OTTO HENRY SCHWARZ, M.D. . . . Instructor in Clinical Obstetrics
M. D., Washington University, 1918; 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.

University Club 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. Consultant in Oto-Laryngology, Alexian Brothers Hospital and St. John's Hospital. Chief of the Laryngological Clinic, Washington University Dispensary.

University Club Building

WALTER FISCHEL, M.D. . . . . . . . Instructor in Clinical Medicine
A.B., Harvard University, 1902; M.D., Washington University, 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, Assistant Physician to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

Humboldt Building

EDGAR ALLEN, A.M. . . . . . . . . Instructor in Anatomy
Ph.B., Brown University, 1915, and A.M., 1916; Laboratory Instructor in Embryology and Histology, Brown University, 1912-17; Assistant Bacteriologist, Rhode Island State Board of Health, 1919.

4160 Maryland Avenue
Edward Adelbert Doisy, Ph.D. . . . . . . . Instructor in Biological Chemistry
A.B., University of Illinois, 1914, and M.S., 1915; Ph.D., Harvard University, 1920; Assistant in Biological Chemistry, Harvard Medical School, 1915-17.

4903 Forest Park Boulevard

Drew William Luten, M.D. . . . Instructor in Clinical Medicine
A.B., State University of Kentucky, 1901; M.D., Johns Hopkins University, 1911; Interne, St. Francis Hospital, Pittsburgh, 1911-12; Assistant in Medicine, Washington University Medical School, 1915-17; Assistant Resident Physician and Resident Physician, Barnes Hospital, 1914-17. Visiting Physician, St. Louis City Hospital, and Assistant Physician to the Barnes Hospital.

University Club Building

William Harwood Olmsted, M.D. . . . Instructor in Medicine
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913; Interne, Washington University Hospital, 1913-14. Assistant Resident Physician, Barnes Hospital, 1914-17. Assistant Physician to Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

Euclid Avenue and Kingshighway

Ernest William Henderson Cruickshank, D.Sc. Instructor in Physiology
M.B. and Ch.B., Aberdeen University, 1910; D.Sc., University College, London, 1919; Resident Medical Officer and Resident Anaesthetist, Aberdeen Royal Infirmary, 1910; Resident Medical Officer and Assistant Pathologist, The Royal Salop Infirmary, Shrewsbury, England, 1910-11; Carnegie Research Fellow, Institute of Physiology, University College, London, 1914.

4926 Forest Park Boulevard

Adolph George Schlossstein, M.D. . . . . Assistant in Clinical Obstetrics
M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, and Female Hospital, and Physician to City Dispensary, 1894-96; 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., 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.

Metropolitan Building

Charles Elihu Hyndman, M.D. . . Assistant in Clinical Surgery

M.D., Washington University, 1906; Interne, St. Louis City Hospital, 1906, 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; Surgical Staff, St. Louis Mullanphy Hospital. Visiting Surgeon, St. Louis City Hospital.

Humboldt Building

Phelps Grant Hurford, M.D. . . Assistant in Clinical Pediatrics

M.D., Washington University, 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.

4388 Westminster Place

CHARLES ALLEN STONE, M.D. Assistant in Clinical Orthopedic Surgery
B.S., Blackburn College, Ill., 1904; M.D., Washington University, 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 Surgeon to Out Patients, Washington University Dispensary.

Metropolitan Building

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 Washington University, 1905-11; Associate Genito-Urinary Surgeon, St. Louis Mullanphy Hospital, 1904-08; Surgeon to Out Patients, Washington University Hospital and Dispensary, 1905-11; Genito-Urinary Surgeon, Jewish Hospital and St. Louis Mullanphy Hospital. Visiting Surgeon, St. Louis City Hospital.

Humboldt Building

HENRY MCCLURE YOUNG, M.D. Assistant in Clinical Surgery
A.B., Yale University, 1899; M.D., Washington University, 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.

Carleton Building

FRANK HENRY EWERHARDT, M.D. Assistant in Medicine
M.D., Washington University, 1909. Assistant in Anatomy, Washington University Medical School, 1913-14; Assistant Surgeon, Orthopedic Out Patient Clinic, St. Louis Children's Hospital, 1912-14. Surgeon to Out Patients, Washington University Dispensary, and Physician in Charge of Hydro- and Physical Therapeutic Department, Barnes Hospital.

5204 Kensington Avenue
JOSEPH WILLIAM LARIMORE, M.D. . Assistant in Clinical Medicine
A.B., DePauw University, 1908; M.D., Washington University, 1913; Interne, Washington University Hospital, 1913-14. Physician to Out Patients, Washington University Dispensary.

University Club Building

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; Consultant in Pathology, U. S. Marine Hospital, St. Louis, 1918; Pathologist, Missouri Baptist Sanitarium; Pathologist, St. Louis Mullanphy Hospital.

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; Assistant in Surgery, Washington University Medical School, 1916-17. Resident Surgeon to the Barnes Hospital.

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 EYERMANN, 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.

University Club Building
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, 1910-18; 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. Assistant Surgeon to Out Patients, Washington University Dispensary, 1913-16; Visiting Surgeon, Barnard Free Skin and Cancer Hospital. Visiting Surgeon, St. Louis City Hospital.

Metropolitan Building

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 Hospital, East St. Louis. Surgeon to Out Patients, Washington University Dispensary.

Metropolitan Building

MILLARD FILLMORE ARBUCKLE, M.D. Assistant in Clinical Laryngology and Rhinology
M.D., Washington University, 1909. Resident Physician, St. Louis Mullanphy Hospital, 1909-10. Surgeon to Out Patients, Washington University Dispensary.

4500 Olive Street

RICHARD SIMON WEISS, M.D. Assistant in Clinical Dermatology
M.D., Washington University, 1909; Interne, 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. Visiting Physician, St. Louis City Hospital, and Physician to Out Patients, Washington University Dispensary.

Wall Building
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. Assistant Resident and Resident Physician, Barnes Hospital, 1917-19. Physician to Out Patients, Washington University Dispensary. 
 4949 Forest Park Boulevard

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. Physician to Out Patients, Washington University Dispensary. 
 Wall Building

BENNETT YOUNG ALVIS, M.D.  Assistant in Surgery  
 925a S. Taylor Avenue

HORACE HARVEY SHACKELFORD, M.D.  Assistant in Biological Chemistry  
 Humboldt Building

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, 1918-19. Assistant Pathologist to the Barnes Hospital. 
 4225 Delmar Boulevard

FRANK POWELL MCNALLEY, M.D.  Assistant in Clinical Obstetrics  
 B.S., Washington University, 1915; M.D., 1917; Interne, Barnes Hospital, 1917-18. Resident Obstetrician and Gynecologist, Barnes Hospital. 
 Barnes Hospital
Harry Gus Greditzer, M.D. Assistant in Surgery

University Club Building

Warren Robert Rainey, M.D. Assistant in Clinical Surgery
M.D., Northwestern University Medical School, 1910. Interne and Resident, Mercy Hospital, Chicago, 1910-1913. Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.

University Club Building

Frederick Book Abbott, M.D. Assistant in Clinical Surgery
M.D., Washington University, 1914; Interne, St. Louis Children's Hospital and Barnes Hospital, 1914-15. Resident Orthopedic Surgeon, Boston Children's Hospital, 1915; Assistant Resident Surgeon, Barnes Hospital and St. Louis Children's Hospital, 1916-17. Surgeon to Out Patients, Washington University Dispensary.

5305 Delmar Boulevard

Forest Henry Staley, M.D. Assistant in Surgery
A.B., University of Wisconsin, 1909; M.D., Washington University, 1918; Interne, Barnes Hospital, 1917-18. Assistant Resident Surgeon, Barnes Hospital, 1918-19; Acting Resident Surgeon to the Barnes Hospital, 1919. 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.

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. Physician to Out Patients, Washington University Dispensary.

Wall Building

Arthur Edgar Strauss, M.D. Assistant in Clinical Medicine
S.B., Harvard University, 1912, and M.D., 1917; Interne, Massachusetts General Hospital, 1915-16; R. B. Mellon Fellow in Internal Medicine,
University of Pittsburgh Medical School, 1916-17; Assistant Visiting Physician, Jewish Hospital; Assistant Visiting Physician, Jewish Home for Chronic Invalids. **Physician to Out Patients, Washington University Dispensary.**

Pennsylvania Avenue and Clayton Road

**LIONEL SINCLAIR LUTON, M.D. . . . Assistant in Clinical Medicine**  
M.D., Rush Medical College, 1900; Interne, Cook County Hospital, Chicago, 1900-01; Pathologist, St. Louis Children's Hospital, 1904-06; Visiting Physician, St. Louis Children's Hospital, 1906-10. Acting Professor of Physiology, Washington University Dental School, 1917-18. **Visiting Physician, St. Louis City Hospital.**

Metropolitan Building

**FREDERICK OSCAR SCHWARTZ, M.D. . . . Assistant in Clinical Ophthalmology**  
M.D., Washington University Medical School, 1910. **Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.**

Metropolitan Building

**HARVEY D. LAMB, M.D. . . . Assistant in Clinical Ophthalmology**  
A.B., Washington University, 1906, and M.D., 1910; Interne, St. Louis City Hospital, 1910-11. **Surgeon to Out Patients, Washington University Dispensary.**

Metropolitan Building

**MARTIN HAYWARD POST, M.D. . . . . Assistant in Clinical Ophthalmology**  
A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912; Interne, St. Louis City Hospital, 1912-13; Assistant Ophthalmologist, St. Louis Children's Hospital, 1913-14; Member of Staff, St. Luke's Hospital. **Associate Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.**

Metropolitan Building

**LAWRENCE POST, M.D. . . . Assistant in Clinical Ophthalmology**  
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913; Interne, Johns Hopkins Hospital, 1913-14. Associate in Surgery, South Baltimore Eye, Ear, Nose, and Throat Hospital, 1914-15. **Assistant Ophthalmologist, St. Louis Children's Hospital, and Surgeon to Out Patients, Washington University Dispensary.**

Metropolitan Building
ISAAC DEE KELLEY, JR., M.D.  Assistant in Clinical Otology
B.S., St. Louis University, 1913, and M.D., 1908. Interne, St. Louis City Hospital, 1908-09; Assistant and Instructor in Ear, Nose, and Throat Diseases, St. Louis University, 1909-17; Consulting Oto-Laryngologist, St. Louis City Hospital, 1913-14; Oto-Laryngologist, St. Mary’s Infirmary. Surgeon to Out Patients, Washington University Dispensary.

Humboldt Building

KIRSTEN UTHEIM, M.D.  Assistant in Pediatrics

St. Louis Children’s Hospital

FRANK DE VORE GORHAM, M.D.  Assistant in Clinical Medicine
A.B., Indiana University, 1910; M.D., Washington University Medical School, 1912; Interne, Washington University Hospital, 1912-13; Clinical Assistant in Medicine, New York Post-Graduate Hospital, 1914; Resident Physician, Private Pavilion, Lenox Hill Hospital, New York City, 1915; Volunteer Assistant in Clinic of Professor Carl Von Noorden, Frankfort A. M., Germany, 1916; Visiting Physician, St. Luke’s Hospital and Bethesda Hospital. Physician to Out Patients, Washington University Dispensary.

Humboldt Building

FREDERICK MURRAY JACOB  Assistant in Dermatology
M.D., University of Pittsburgh, 1913. Interne and Laboratory Resident, Mercy Hospital, Pittsburgh, 1913-15; Mellon Fellow in Pathological Research, 1915-16, and Instructor in Immunology, 1916-17, University of Pittsburgh. Physician to Out Patients, Washington University Dispensary.

4949 Forest Park Boulevard

ADOLPH MITCHELL FRANK, M.D.  Assistant in Clinical Medicine
M.D., University of Illinois, 1918; Interne, German Hospital, Chicago, 1918-14. Physician to Out Patients, Washington University Dispensary.

Metropolitan Building

WAYNE ARTHUR RUPE, M.D.  Assistant in Pediatrics
A.B., University of Missouri, 1916; M.D., Washington University, 1918. Interne and Assistant Resident Physician, St. Louis Children’s Hospital,
EUGENE ROBERT VAN METER, M.D. Assistant in Clinical Laryngology and Rhinology
M.D., Washington University, 1905. Surgeon to Out Patients, Washington University Dispensary.
University Club Building

LEON CLIFFORD MCAMIS, M.D. Assistant in Clinical Surgery
Ph.B., St. Louis College of Pharmacy, 1899; M.D., Washington University, 1905; Interne, St. Luke’s Hospital, 1905-06; Associate Surgeon, Barnard Free Skin and Cancer Hospital, 1917-18. Member of Surgical Staff, St. Luke’s Hospital.
Humboldt Building

JOSEPH EDGAR STEWART, M.D. Assistant in Clinical Orthopedic Surgery
University Club Building

MAX WILLIAM JACOBS, M.D. Assistant in Clinical Ophthalmology
A.B., Washington University, 1902; M.D., 1905. Interne, St. Louis City Hospital, 1905-06; Junior Assistant, University Eye Clinic, Vienna, 1910-11; Visiting Oculist, St. Louis City Hospitals, 1912-15. Assistant in Ophthalmology, Jewish Hospital; Visiting Oculist, St. Louis City Sanitarium. Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.
Carleton Building

RAYMOND MILLS SPIVY, M.D. Assistant in Clinical Obstetrics
M.D., Washington University, 1907. Interne, St. Louis City Hospital and St. Luke’s Hospital, 1907-08. Chief Physician to St. Louis City Infirmary; Active Obstetrician, St. Louis Maternity Hospital; Associate in Gynecology, Barnard Free Skin and Cancer Hospital. Visiting Surgeon, St. Louis City Hospital, and Surgeon to Out Patients, Washington University Dispensary.
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Grandison D. Royston, M.D.
Frank P. McNalley, M.D. Resident Obstetrician and Gynecologist
Otto St. Clair Krebs, M.D. Assistant Resident Obstetricians and Gynecologists
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Charles D. O'Keefe House Officer

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John B. Shapleigh, M.D. Otologist
Albert F. Koetter, M.D.* Assistant Otologists
Harry W. Lyman, M.D.
Arthur E. Ewing, M.D. Ophthalmologist

* Died February 28, 1920.
Meyer Wiener, M.D.  . . . . Assistant Ophthalmologists
William F. Hardy, M.D.  . . . .
Greenfield Sluder, M.D.  . . . . Laryngologist
William E. Sauer, M.D.  .
C. Armin Gundelach, M.D.  . . . . Assistant Laryngologists
William M. C. Bryan, M.D.  . .
Martin F. Engman, M.D.  . . . . Dermatologist
William H. Mook, M.D.  . . . . Assistant Dermatologist
Sidney I. Schwab, M.D.  . . . . Neurologist
Leland B. Alford, M.D.  . . . . Assistant Neurologist
Frank H. Ewerhardt, M.D.  . .
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R. Walter Mills, M.D.  . . . . Roentgenologist

Pathology
Montrose T. Burrows, M.D.  . . . . Associate Pathologist
L. S. Newman Walsh, M.D.  . . . . Assistant Pathologist
Fred J. Hodges, M.D.  . . . . Resident Pathologist

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W. McKim Marriott, M.D.  . . . . Physician in Chief
Eugene L. Opie, M.D.  . . . . Pathologist

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Mary A. Wright, M.D. . . . . . . Assistant Resident Physician
Urban J. Busiek, M.D.
Carl O. Kohlbry, M.D.
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Kenneth Fowler, M.D. . . . . House Officers

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Arthur O. Fisher, M.D. . . . . . . Assistant Surgeons
Barney Brooks, M.D.
Edwin P. Lehman, M.D. . . . . . . Resident Surgeon
Glover H. Copher, M.D. . . . . Assistant Resident Surgeon
Fremont Lucking, M.D. . . . . House Officer

**Special Departments**

John B. Shapleigh, M.D. . . . . Otologist
Albert F. Koetter, M.D.* . . Assistant Otologists
Harry W. Lyman, M.D.
Arthur E. Ewing, M.D. . . . . Ophthalmologist
Lawrence Post, M.D. . . . . Assistant Ophthalmologist
Greenfield Sluder, M.D. . . . . 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
Montrose T. Burrows, M.D. . Associate Pathologist
Fred J. Hodges, M.D. . . . . Assistant Pathologist

* Died February 28, 1920.
WASHINGTON UNIVERSITY DISPENSARY, OUT-PATIENT DEPARTMENT OF THE BARNES AND THE ST. LOUIS CHILDREN'S HOSPITALS

George Dock, M.D. . . . . . . . Physician in Chief
Evarts A. Graham, M.D. . . . Surgeon in Chief
Henry Schwarz, M.D. . . . . . Obstetrician in Chief
John B. Shapleigh, M.D. . . . Otologist in Chief
Greenfield Sluder, M.D. . . . Laryngologist in Chief
W. McKim Marriott, M.D. . . Pediatrician in Chief
Martin F. Engman, M.D. . . . Dermatologist in Chief
R. Walter Mills, M.D. . . . . Gastro-Enterologist to Out Patients

Augusta K. Mathieu, R.N. . . . Superintendent

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G. Canby Robinson, M.D. . . Chief of Clinic

General Medical Division

Charles H. Eyer mann, M.D. . . . Physician in Charge
Llewellyn Sale, M.D.
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William H. Olmsted, M.D.
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Arthur Strauss, M.D.
H. Harvey Shackelford, M.D. . . Assistant Physician to Out Patients

Gastro-Intestinal Division

Frank D. Gorham, M.D. . . . Physician in Charge
Joseph W. Larimore, M.D. . . Physician to Out Patients
Allan A. Gilbert, M.D. . . . Assistant Physician to Out Patients

Tuberculosis Division

Jacob J. Singer, M.D. . . . Physician in Charge
Adolph M. Frank, M.D. . . . Physician to Out Patients
Adelheid C. Bedal, M.D.
Gustave H. Reinhardt, M.D.  .  .  .  .  .  Assistant Physicians to Out Patients

Surgery
Arthur O. Fisher, M.D. .  .  .  .  .  .  Chief of Clinic
Ernest Sachs, M.D.
Barney Brooks, M.D.  .  .  Surgeons to Out Patients
Warren R. Rainey, M.D.
Bennett Y. Alvis, M.D.
Henry S. Brookes, Jr., M.D.  .  .  Assistant Surgeons to Out Patients
Leith H. Slocumb, M.D.

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.
Raymond M. Spivy, M.D.
Treston R. Ayars, M.D.  .  .  Assistant Surgeons to Out Patients
Samuel F. Abrams, 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.  .  .  Physicians to Out Patients
Phelips G. Hurford, M.D.
Maurice J. Lonsway, M.D.
Wayne A. Rupe, M.D.
A. Crump Kirby, M.D.  .  .  Assistant Physicians to Out Patients
Park White, M.D.

Neurology
Sidney I. Schwab, M.D.  .  .  .  Chief of Clinic
Francis M. Barnes, M.D.
Leland B. Alford, M.D.  .  .  .  .  .  .  Physicians to Out Patients
Raleigh K. Andrews, M.D.
Paul S. Lowenstein, M.D.  
Groves B. Smith, M.D.  
Berry C. Marshall, M.D.  
  Assistant Physicians to Out Patients

**Dermatology**

William H. Mook, M.D.  
Richard Weiss, M.D.  
Adolph H. Conrad, M.D.  
Frederick M. Jacob, M.D.  
William G. Coleman, M.D.  
William D. Davis, M.D.  
Bernard L. Green, M.D.  
  Assistant Physicians to Out Patients

**Orthopedic Surgery**

Nathaniel Allison, M.D.  
Archer O'Reilly, M.D.  
Charles A. Stone, M.D.  
J. Edgar Stewart, M.D.  
Frank H. Ewerhardt, M.D.  
Marion L. Klinefelter, M.D.  
  Assistant Surgeon to Out Patients

**Ophthalmology**

Arthur E. Ewing, M.D.  
Meyer Wiener, M.D.  
William E. Shahan, M.D.  
William F. Hardy, M.D.  
Frederick O. Schwartz, M.D.  
M. Hayward Post, M.D.  
Harvey D. Lamb, M.D.  
Max W. Jacobs, M.D.  
Lawrence Post, M.D.  
Clyde P. Dyer, M.D.  
Dorcas F. Meadows, M.D.  
Amalie M. Napier, M.D.  
Leverett H. Crapp, M.D.  
  Assistant Surgeons to Out Patients

**Otology**

Albert F. Koetter, M.D.*  
  Chief of Clinic

* Died February 28, 1920.
Harry W. Lyman, M.D.        Surgeons to Out Patients
Isaac D. Kelley, M.D.
Millard F. Arbuckle, M.D.
George E. Hourm, M.D.
Arthur W. Proetz, M.D.
George A. Griot, M.D.
Stanley S. Burns, M.D.

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.
Eugene R. Van Meter, M.D.
Richard J. Payne, M.D.
Ulysses S. Short, M.D.
Lemuel B. Short, M.D.
George A. Griot, M.D.
Albert E. Rives, M.D.
Charles P. Renner, M.D.
Edward H. Lane, M.D.        Assistant Surgeons to Out Patients
August Dutzi, M.D.
William F. A. Schultz, M.D.
Wellwood M. Nesbit, M.D.
Charles L. Davis, M.D.

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John R. Caulk, M.D.        Chief of Clinic
H. McClure Young, M.D.
Harry G. Greditzer, M.D.
Newton W. Amos, M.D.
George M. Myers, M.D.
Dalton K. Rose, M.D.

Dentistry

William B. Spotts, D.D.S.        Dentist to Out Patients
Emphy F. Benway, D.D.S.        Assistant Dentist to Out Patients
WASHINGTON UNIVERSITY TRAINING SCHOOL FOR NURSES

Helen Wood, A.B., R.N. . . . . . Director of the School and Superintendent of Nurses
Helen O. Potter, R.N. . . . . . Assistant Superintendent of Nurses
Susie A. Watson, A.B., R.N. . . . Theoretical Instructor
Minnola Stallings, R.N. . . . . . Practical Instructor

SOCIAL SERVICE

Louise H. Wenzel, M.A. . . . . . Head Worker

THE ST. LOUIS CITY HOSPITAL No. 2

Visiting Physicians and Surgeons to the City Hospital No. 2* and other City institutions are designated by Washington University as follows:

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George Dock, M.D. . . . . . Consulting Physician
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Jerome E. Cook, M.D.
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Lionel S. Luton, M.D.

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Evarts A. Graham, M.D. . . . . Consulting Surgeon
Warren R. Rainey, M.D. . . . . Chief of Staff
Walter C. G. Kirchner, M.D.
Charles E. Hyndman, M.D.
Ellis Fischel, M.D. . . . . . Associate Surgeons
Leon C. McAmis, M.D.

*Appointed by the City upon the nomination of the University.
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Henry Schwarz, M.D. . . . . . . . Consulting Surgeon
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William Kerwin, M.D. . . . . . . . Associate Surgeons
Raymond M. Spivy, M.D.

Pediatrics

W. McKim Marriott, M.D. . . . . . . . Consulting Physician
Theodore C. Hempelmann, M.D. . . . . Chief of Staff
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Sidney I. Schwab, M.D. . . . . . . . Consulting Physician
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Hayward Post, M.D.
Max W. Jacobs, M.D.
Frederick O. Schwartz, M.D.

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Charles A. Stone, M.D.
J. Edgar Stewart, M.D.
Genito-Urinary Surgery
William M. Robertson, M.D. ... Chief of Staff
H. McClure Young, M.D. ... Associate Surgeon

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John H. Kennerly, M.D., D.D.S. ... Dentist

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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.

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Malcolm A. Bliss, M.D. ... Consulting Physicians
Francis M. Barnes, Jr., M.D.
Ernest Sachs, M.D. ... Consulting Surgeon
STUDENTS, 1919-20

STUDENTS ATTENDING GRADUATE AND SPECIAL COURSES

Brandes, Harry August .................. Bismarck, N. D.
M.D., Washington Univ., '12.

Buxton, Eva Joanna .................. Rockport, Ind.

Carr, Edmund Cone .................. Coshocton, Ohio
A.B., Mt. Union Coll., '72.
M.D., Univ. of Wooster, Med. Dept., '75.

Clinton, Lloyd Brandon .................. Carthage, Mo.
B.S., Moore's Hill Coll., '13.

Daniels, Herman P .................. Wichita, Kan.

Fay, Harold William .................. St. Louis
M.D., Washington Univ., '10.

Fehrenbacher, Harvey Del .................. Olney, Ill.
M.D., St. Louis Univ., '18.

Gante, Henry Washington .................. Anderson, Ind.
M.D., Ind. Univ. School of Med., '10.

Hall, Oscar Blinn .................. Warrensburg, Mo.
M.D., University Med. Coll. of Kansas City, '98.

Hamilton, George McClellan .................. Thompsonville, Ill.
M.D., American Med. Coll. of St. Louis, '11.

Hamilton, Howard Brownlee .................. Omaha, Neb.
M.D., Univ. of Ill., '00.

Hamlin, Clyde Waitess .................. Philadelphia, Mo.

Hoover, Munford William .................. Wichita Falls, Tex.
M.D., Pacific Coll. of Med. and Surg., '16.

Liu, Chi Chêng .................. Peking, China

Miller, Howard Coombs .................. Youngstown, Ohio
M.D., Western Reserve Univ., '00.

Moring, Travis Stansell .................. United States Navy
M.D., Univ. of Ala., '17.
Smith, Colonel Elmer. Enid, Okla.

FOURTH YEAR CLASS

Adelsberger, Bransford Louis. Waterloo, Ill.
Andrae, Robert Lee. St. Louis
Asami, Goichi. Yamaguchi, Japan
Barker, Paul Shirmer. St. Louis
A.B., Westminster Coll., '15.
Beavers, Benjamin Franklin. Decatur, Ind.
Black, Carl Ellsworth, Jr. Jacksonville, Ill.
A.B., Ill. Coll., '16.
Briggs, Clifton H. Emporia, Kan.
Carlisle, John Berthe. Sedalia, Mo.
A.B., Univ. of Mo., '18.
Carr, Archie Dreyfus. St. Louis
B.S., Washington Univ., '18.
Carter, William Stokely. Trenton, Ill.
Champlin, Paul Bertrand. Canton, Kan.
B.S., Univ. of Kan., '18.
B.S., Univ. of Kan., '18.
Evans, Joseph Patton. Meridian, Miss.
B.S., Univ. of Miss., '18.
Fancher, Charles Rousseau ..................................... Modesto, Cal.
Gaebe, Harold Carl ............................................. Farmington, Mo.
      B.S., Washington Univ., '18.
Goldman, Alfred .................................................. St. Louis
      A.B., Washington Univ., '16.
Grant, Samuel Becker ........................................... St. Louis
      B.S., Washington Univ., '18.
Hopkins, Guy Huskinson ........................................ Grand Junction, Colo.
Hudson, William Andrew .......................................... Jasper, Ark.
      B.S., Washington Univ., '18.
Jenkins, William Nathan ........................................ Crystal Springs, Miss.
Jostes, Frederick Augustus .................................... St. Louis
      B.S., Washington Univ., '18.
Kennedy, Patrick Harlan ........................................ Youngstown, Ohio
      B.S., Washington Univ., '18.
Liggett, Hiram Shaw .............................................. St. Louis
Lohrentz, Abraham Martens ..................................... Moundridge, Kan.
      A.B., Bethel Coll., '16.
      B.S., Univ. of Kan., '18.
Meyer, Herman Moses ............................................ Linneus, Mo.
Moore, Walter Roger ............................................. Olathe, Kan.
Ochsner, Edward William Alton ................................ Kimball, S. D.
      A.B., Univ. of S. D., '18.
Penick, Grider .................................................... Marshall, Mo.
Peterman, Mynie Gustav ......................................... Merrill, Wis.
      B.S., Univ. of Wis., '18.
Potter, Lee George .............................................. Mountain Grove, Mo.
      A.B., Univ. of Mo., '17.
Priest, Walter Scott, Jr. ...................................... Wichita, Kan.
      A.B., Univ. of Kan., '17.
Rice, Carl Epler .................................................. Plainville, Ill.
      A.B., Univ. of Mo., '18.
Rudolph, Royal William ......................................... Canton, S. D.
      A.B., Univ. of S. D., '18.
Rumreich, Adolph Sylvester ........................................ Pisek, N. D.
A.B., Univ. of N. D., ’17.
Schenck, Fred Gerald ............................................ Burlington, Kan.
Schiek, Charles Melvin ........................................... Freeburg, Ill.
Schneiderman, Henry .............................................. Kansas City, Mo.
A.B., Univ. of Mo., ’18.
Simpson, Eber Edward ............................................ Oshkosh, Wis.
B.S., Univ. of Wis., ’18.
Waller, Riley Moore ............................................... Faucett, 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., Washington Univ., ’18.
White, Marcus Demosthenes ...................................... Palmyra, Mo.
Williams, John Webster ........................................... Milwaukee, Wis.
B.S., Cornell Univ., ’18.
Williams, Lester Leo ................................................ Winfield, Kan.
Wilson, Lucius Roy ................................................ Jonesburg, Mo.
A.B., Univ. of Mo., ’18.

THIRD YEAR CLASS

Balazs, Karl John .................................................... St. Louis
B.S., Washington Univ., ’19.
Blasdel, Harry Emert .............................................. Hutchinson, Kan.
A.B., Univ. of Kan., ’19.
Bunch, Harold McKinley ........................................... Atlanta, Mo.
Cashatt, Faye ....................................................... Coon Rapids, Iowa
A.B., Univ. of S. D., ’19.
Chamberlain, Iris McKy ............................................ Springfield, Mo.
Christensen, Grover Eli ............................................. Moroni, Utah
B.S., Univ. of Utah, ’19.
Cohen, Louis .......................................................... St. Louis
B.S., Washington Univ., ’19.
Conklin, Tracy Roscoe, Jr ........................................ Abilene, Kan.
B.S., Univ. of Kan., ’19.
Cooper, Dewey Hobson ............................................. Spring Hill, Kan.
Evans, Lester J ........................................................ St. Louis
Griffith, George Washington ........................................ Creighton, Mo.
A.B., Univ. of Mo., '19.

Haddox, Charles Hugh ............................................. Pawnee, Okla.
A.B., Univ. of Kan., '18.

Harper, Henry Winston, Jr ........................................ Austin, Tex.
Hartmann, Alexis Frank ........................................... St. Louis
B.S., Washington Univ., '19.

Indenbaum, Samuel ................................................ Phoenix, Ariz.
A.B., Univ. of Mo., '19.

Joannides, Minas .................................................... Chicago, Ill.

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

Kirksey, William Albert ........................................... Morganton, N. C.
A.B., Univ. of N. C., '13.

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

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

Lohr, Oliver Willison ............................................. St. Louis

Lowrey, Ford Jackson ................................................ Kansas City, Mo.
A.B., Univ. of Mo., '19.

McIntosh, Roscoe Lyle ............................................. Edgerton, Wis.
B.S., Univ. of Wis., '19.

McKitterick, John Collins .......................................... Burlington, Iowa
B.S., Washington Univ., '19.

Malone, Julian Yerkes ............................................. St. Louis
A.B., Ripon Coll., '15.
M.S., Univ. of Wis., '17.

Martin, Wilfred Everett ........................................... Lawrence, Kan.
B.S., Univ. of Kan., '19.

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

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

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

Probert, William Henry ........................................... St. Louis
A.B., Westminster Coll., '17.

Pyne, Herbert Samuel, Jr ......................................... Provo City, Utah

Reitz, Thomas Frederick .......................................... Evansville, Ind.
B.S., Ind. Univ., '19.

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

Showman, Winfred Aaron ........................................... Hoxie, Ark.
A.B., Univ. of Mo., '19.
Spinzig, Edgar Walter ........................................ St. Louis
  B.S., Washington Univ., '19.
Summers, Caldwell Blanford ................................ Harrisonville, Mo.
Vogel, Eugene August ........................................ St. Louis
  A.B., Univ. of Mo., '19.
Wise, David Clarence ........................................ Carthage, Mo.
Zink, Oscar Charles .......................................... Belleville, Ill.

SECOND YEAR CLASS

Alvis, Herbert Allen ......................................... E. St. Louis, Ill.
Baum, William Wells .......................................... Shelbyville, Ill.
Bersche, Bertram Louis Jacob ................................ Columbia, Ill.
Birdsall, Thomas Charles ..................................... Dows, Iowa
Briggs, Alfred Poyneer ....................................... Dixon, Cal.
  B.S., Univ. of Colo., '12.
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
Costen, James Bray ............................................ Paragould, Ark.
  A.B., Univ. of Ark., '16.
Deakin, Vincil Rogers ........................................ St. Joseph, Mo.
Dickson, Green Knowlton ...................................... Walters, 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.
Hanser, Theodore Henry ...................................... St. Louis
Hofsommer, Armin Conrad ..................................... Breese, Ill.
Hoover, Walter Boyd ........................................... Trenton, Mo.
Jannopoulo, Aphrodite Maria ................................ Webster Groves, Mo.
Keeble, Charles Burton ...................................... St. Louis
Lasersohn, Martin ............................................. St. Louis
Lohr, Curtis Harry..................................................St. Louis
Martin, Kirby Armstrong.............................................Hamilton, N. D.
Pearson, Nelson Tinsley.............................................Louisiana, Mo.
Rice, Justus Bulkley.................................................St. Louis
Rosen, Charles Samuel..............................................St. Louis
Schindewolf, Theodore Eccarius.................................St. Louis
Sheldon, Paul Benedict.............................................Webster Groves, Mo.
A.B., Oberlin Coll., '17.

Smith, Gervais Dean................................................Walnut Grove, Mo.
Tremain, Irl George..................................................Maplewood, Mo.
Wall, Albert.............................................................St. Louis
Weymann, Morie Frederick..........................................St. Joseph, Mo.
Wiese, Harry William.................................................St. Louis

FIRST YEAR CLASS

Abel, Oliver, Jr......................................................St. Louis
Aselmeyer, Alfred John..............................................Boonville, Mo.
Batts, Jett McCormick...............................................Norfolk, Va.
Becke, William George.............................................St. Louis
Beissel, Samuel West................................................Southwest City, Mo.
Berg, David Tormod..................................................Helena, Mont.
Bierman, Max John....................................................St. Louis
Boyden, Alphonzo Webster...........................................Issaquah, Wash.
Breckenridge, Elmer Oesterle.....................................St. Louis
Brown, James Barrett...............................................Hannibal, Mo.
Canepa, John Baptist................................................St. Louis
Cowgill, David Martin.............................................Topeka, Kan.
B.S., Washburn Coll., '19.
Dietzschold, Reinhold Emil........................................St. Louis
Goldfeder, Jesse......................................................Hugo, Okla.
Harris, Everett Grant..............................................Festus, Mo.
A.B., Trinity Coll., '17.

Harris, John Harold................................................Kiowa, Kan.
Hawkins, Thomas Lee.................................................Helena, Mont.
Heideman, Milo Lawrence..........................................St. Louis

Higgins, Charles Clair..............................................Huron, S. D.
Hughbanks, James Gard.............................................Cherryvale, Kan.
Irick, Carl Cuthbert .................................................. Pittsfield, Ill.
Jorstad, Louis Helmar ................................................ Morris, Ill.
Kountz, William Bryan .............................................. Saxton, Mo.
Le Vine, Davis ......................................................... Kansas City, Mo.
Lipschitz, Leon ....................................................... St. Louis
Long, Vernon M ........................................................ Mt. Auburn, Ill.
Mueller, Elmer W ..................................................... St. Louis
Munter, Craig Wilson ................................................ St. Louis
Paule, Charles Edward ............................................... St. Louis
Senturia, Ben Druze .................................................. St. Louis
Skelton, Neva .......................................................... Eldorado, Ill.

B.S., McKendree Coll., '19.

Smith, Dudley Reeves ................................................. Southwest City, Mo.
Smith, Leslie Albert ................................................ Logan, Utah


Smith, Peter Frank, Jr .............................................. St. Louis


Stahl, Phineas David ................................................ St. Louis
Stuebner, Roland William .......................................... St. Joseph, Mo.
Thompson, John William ........................................... Granite City, Ill.
Ulmer, Walter Pierce ................................................ Dawson, Neb.

B.S., Western Union Coll., '19.

Ulrich, Henry John .................................................. St. Louis
Webb, Paul Kingsley ................................................ St. Louis
Williams, John Wood, Jr ........................................... Springfield, Mo.
Wilson, Kenneth Oscar ............................................... St. Louis
Wimber, Thomas Charles ........................................... Alton, Ill.

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate and Special Students .................................... 21
Fourth Year Class .................................................. 46
Third Year Class .................................................... 39
Second Year Class .................................................. 35
First Year Class ..................................................... 43

Total, 184
### DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 12, 1919:

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>School/University</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen, Duff Shederic</td>
<td>A.B.</td>
<td>Univ. of Mo., '17.</td>
<td>Lebanon, Mo.</td>
</tr>
<tr>
<td>*Andersen, Hans Peter</td>
<td>A.B., Univ. of Kan., '10; A.M., '11; Ph.D., Univ. of Minn., '15.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Atorthy, Noresh Chandra</td>
<td>A.B., Univ. of Mo., '17.</td>
<td></td>
<td>Calcutta, India</td>
</tr>
<tr>
<td>*Baumgartner, Edwin Abe</td>
<td>A.B., Univ. of Kan., '10; A.M., '11.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Blondin, Edward Alphonse</td>
<td>A.B., Univ. of Mo., '16; A.M., '18.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Bond, Harry William</td>
<td>B.S., Univ. of Wis., '17.</td>
<td></td>
<td>Wheeling, W. Va.</td>
</tr>
<tr>
<td>Brooks, Arthur Charles</td>
<td>B.S., Washington Univ., '17.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Brown, Egbert Eugene</td>
<td>A.B., Univ. of Mo., '16; A.M., '18.</td>
<td></td>
<td>Cape Girardeau, Mo.</td>
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<tr>
<td>Chapman, Warren Browning</td>
<td>A.B., Univ. of Mo., '17.</td>
<td></td>
<td>Diamond, Mo.</td>
</tr>
<tr>
<td>Clay, Homer Tullock</td>
<td>A.B., Univ. of Mo., '17.</td>
<td></td>
<td>Farmington, Mo.</td>
</tr>
<tr>
<td>Coleman, William Goodwin</td>
<td>B.S., Washington Univ., '17.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Elliott, Benjamin Landis</td>
<td>B.S., Washington Univ., '15.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>*Funkhouser, Selmes Paul</td>
<td></td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Geistweit, William Henry, Jr.</td>
<td>A.B., Univ. of Redlands, '15.</td>
<td></td>
<td>St. Louis</td>
</tr>
<tr>
<td>Gilles, Clifford Lawrence</td>
<td></td>
<td></td>
<td>Kansas City, Kan.</td>
</tr>
</tbody>
</table>

* *Degree conferred January 20, 1919.*
Gundrum, Lawrence Kramer........................................... Casey, Iowa
B.S., Coe Coll., '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 Kan., '17.

*Helmes, Lloyd Oscar........................................... St. Paul, Minn.
B.S., Univ. of Wis., '17.

Hewston, Howard Hull............................................. Agra, Okla.

Hodges, Fred Jenner.............................................. Madison, Wis.
B.S., Univ. of Wis., '17.

*Howard, Francis Clemont................................. Fayette, Mo.
A.B., Univ. of Mo., '15.

Johnson, Glenn Delap........................................... Springfield, Mo.
B.S., Drury Coll., '17.
A.B., Univ. of Mo., '17.

Knipmeyer, William Warren.......................... Terre Haute, Ind.
A.B., Univ. of Mo., '17.

Kohlbray, Carl Otto........................................ St. Louis
B.S., Washington Univ., '17.

*Krebs, Otto St. Clair........................................... Belleville, Ill.
B.S., Washington Univ., '17.

Lewis, George Vincent........................................... Columbia, Mo.
A.B., Univ. of Mo., '17.

Morrison, Marriott True........................................ St. Louis
Munro, Edward Everett Hale........................... Colorado Springs, Colo.

*Murdoch, Raymond Lester................................ Okeene, Okla.
A.B., Cornell Univ., '16.

Pelz, Mort D.......................................................... St. Louis
Pesetke, Samuel Edward.................................. St. Louis
Plank, Howard Addison..................................... St. Thomas, N. D.
A.B., Univ. of N. D., '17.

Raff, Arthur Ben................................................. Red Bud, Ill.
B.S., Washington Univ., '17.

Roantree, Robert Peter..................................... Parker, S. D.
B.S., Univ. of Wis., '17.

* Degree conferred January 20, 1919.
Rohlfing, Edwin Henry .................................. St. Louis
*Sparks, Abraham Jerome .................................. St. Louis
    B.S., Washington Univ., '17.
Starry, Leo Joseph ........................................ Madison, Wis.
    B.S., Univ. of Wis., '17.
Thompson, Lloyd James ................................... St. Joseph, Mo.
    A.B., Univ. of Mo., '17.
Trippe, Harrison Chamberlain .............................. Fristoe, Mo.
    A.B., Univ. of Mo., '17.
Wahle, George Henry ...................................... Marshfield, Wis.
    A.B., Univ. of Wis., '16.
Walter, Archie Lester ..................................... Rockport, Mo.
    A.B., Univ. of Mo., '16.
Wander, William George ................................... St. Louis
    B.S., St. Mary's Coll., '05.
Weiner, Morris ............................................. St. Louis
    B.S., Univ. of Wis., '17.
Withers, Sanford Martin ................................ St. Louis

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

Medical Service
Lee Pettit Gay                                      Clifford Lawrence Gilles
George Merritt Polk

Surgical Service
George Wilson Belcher                             Fremont Lucking
Harry William Bond                                Earl Calvin Padgett
William Leland Mitchell

Obstetrical Service
Otto St. Clair Krebs

Pediatric Service
Urban Justus Busiek                               Carl Otto Kohlbry

Pathological Service
Fred Jenner Hodges

* Degree conferred January 20, 1919.
GENERAL STATEMENT

HISTORY AND ORGANIZATION

The Medical Department of Washington University, called in 1909 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 1842, 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, 880.

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, medicine, surgery, and pediatrics, who devote themselves to teaching and research, and associated with this staff clinical instructors chosen from the medical profession of St. Louis. These changes were made with the aid of funds donated by philanthropic citizens of St. Louis.

In 1916 the sum of one and one-half million dollars was contributed to the School of Medicine by the General 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. During the past year, the department of Pharmacology has been placed on a full university basis by an endowment for that department of three hundred thousand dollars, half of which was contributed by the General Education Board and half by a friend of the University.

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 Biological Chemistry, Pharmacology, and Physiology.

Unit systems prevail in the general construction of these buildings, and so far as advantageous in the fixtures and furnishings. Provision is made in all lecture rooms for the different methods of optical projection and for demonstrations 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.

Plans for an extended addition which will double the capacity of the home are under way.
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, 1919) 28,161 bound volumes and receives 460 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 365 are in complete series. Including obsolete journals, there are 423 complete sets.

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

The stacks are open to readers. In the stack rooms every other stack has a table at the window end. There are also three study rooms where books can be placed for investigators.

The Library has been enriched by the acquisition of several private collections. Among these are the library of the late Julius Pagel, Professor of the History of Medicine at the University of Berlin, the gift of the late Mrs. Benjamin Brown Graham of St. Louis. This comprises about twenty-five hundred titles, including many works on the history of medicine, medical 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 there 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 microscopical 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 T. Hodgen. A section of the museum contains experimental pathological lesions.

MEDICAL BULLETIN OF WASHINGTON UNIVERSITY

The Medical Bulletin contains the transactions of the Wash-
ington 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.

CLINICAL FACILITIES

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 BARNES HOSPITAL

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 lead-
ing 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 gray 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'Fallon 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 and during 1919, 117,924 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

At the invitation of the authorities of the Hospital Division of the City of St. Louis, Washington University has assumed control and has become responsible for the medical care of the patients in City Hospital No. 2 (Negro Hospital), and for one-half of the patients in the City Infectious Disease Hospital, and has further agreed to render such professional service in the other municipal institutions as the Hospital Commissioner might request.

The physical equipment of these hospitals is such that this service can be used to advantage for both undergraduate and graduate teaching, and the addition of these units to the clinical facilities of the University greatly broadens the opportunities for teaching. By this cooperation, it is also possible for the University to render a distinct service to the community and to the sick-poor. The number of beds made available by this arrangement is approximately 375.

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

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 fifteen 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 Dispensary, 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. French or German, 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

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

Eight semester hours following one high school unit, six semester hours following two high school units, and four semester hours following three high school units.
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, functions and life history of selected types of animal and plant life, the preparation 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Descriptive Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1</td>
</tr>
<tr>
<td>Composition and Rhetoric</td>
<td>6</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>Elementary French</td>
<td>10</td>
</tr>
<tr>
<td>French</td>
<td>2</td>
</tr>
<tr>
<td>Or Elementary German</td>
<td>10</td>
</tr>
<tr>
<td>German</td>
<td>2</td>
</tr>
<tr>
<td>General Biology</td>
<td>6</td>
</tr>
<tr>
<td>Zoology</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education or Military Training</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>11</td>
</tr>
<tr>
<td>Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry</td>
<td>14</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>General Introduction to English Literature</td>
<td>6</td>
</tr>
<tr>
<td>English</td>
<td>11</td>
</tr>
<tr>
<td>French</td>
<td>8</td>
</tr>
<tr>
<td>Or German</td>
<td>6</td>
</tr>
<tr>
<td>German</td>
<td>10</td>
</tr>
<tr>
<td>Elementary Physics</td>
<td>8</td>
</tr>
<tr>
<td>Physics</td>
<td>2</td>
</tr>
<tr>
<td>Embryology</td>
<td>3</td>
</tr>
<tr>
<td>Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education or Military Training</td>
<td></td>
</tr>
</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td>Chemistry 11</td>
</tr>
<tr>
<td>English 1</td>
<td>Chemistry 14</td>
</tr>
<tr>
<td>French 1</td>
<td>French 6</td>
</tr>
<tr>
<td>Or German 1</td>
<td>Or German 3</td>
</tr>
<tr>
<td>Zoology 1</td>
<td>Physics 2</td>
</tr>
<tr>
<td>Elective</td>
<td>Zoology 4</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
</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 re-
ceived from an approved medical school credits in anatomy, chemistry, physiology, bacteriology, pathology, and pharmacology, will be permitted 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 enter the fourth-year class without examination in subjects of the third year, provided they have received credit for courses in medicine, surgery, pediatrics and obstetrics, equivalent to those of the third year, but, at the discretion of instructors, may be examined in these four 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

Graduate students may be admitted to the School on the following basis: (1) Those who may be qualified to participate in definite investigation, under the direction of a member of the staff, may, upon the written recommendation of the instructor in charge, endorsed by the head of the department, be accepted by the Faculty as volunteer research assistants and will not be charged fees. (2) Visiting graduates may, with the consent of the heads of the departments concerned, take special work in one or more departments without paying fees. (3) A limited number of graduate physicians, or others who may be qualified, may be admitted to courses with the undergraduate classes subject to the consent of the instructors and the head of the department. Fees for special courses, individual instruction, or material will be de-
terminated by the Dean, in conference with the head of the department in which the work is done, in each case. Special courses are being offered in various phases of pediatrics and internal medicine.

**STANDING AND PROMOTION**

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

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

Students whose work is judged unsatisfactory by the Faculty will be required to withdraw from the School.

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 1920-21 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 be nominated for positions. Selection is made from those applying 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.
terminated by the Dean, in conference with the head of the department in which the work is done, in each case. Special courses are being offered in various phases of pediatrics and internal medicine.

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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, 1918-19

Gill Prize in Anatomy
William Dock

Gill Prize in Diseases of Children
Urban Justus Busiek, B.S.

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, which is payable but once.

A charge of $3.00 will be made against each student who fails to register during the first week of the academic year.

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.
STUDENT ACTIVITIES FEE
A fee of $6.00 a year, payable in two instalments, one at the beginning of the first trimester and one on February 1, is collected from each student. The fee is for the support of athletics and several other student activities, and is largely under the control of the Student Body.

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. Students who enter the school after January 1, 1920, will be required to furnish their own microscopes. The School of Medicine is willing to purchase a microscope for each student who does not already own one, and will charge a yearly rental for the instrument which will be approximately a quarter of the cost plus an interest of six per cent on the deferred payments. After the fourth payment, the microscope shall be the property of the student. These payments may be made yearly or at more frequent intervals. The School of Medicine owns a limited number of microscopes which may be obtained by students entering the school before January 1, 1920, at an annual rental of $7.50 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 annually 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 begin-
ning, 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 phy-
sicians 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
is 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 $120.00 an academic year, payable in
two equal installments at the beginning of the first trimester and
on February 1. The rental of a room during vacation time is
$15.00 a month. 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. As stated in detail on pp. 69 ff., the student on entering the School must have completed two years of college work, which includes a knowledge of chemistry, physics, biology, English and either German or French.

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

The curriculum, covering four years, is divided into three distinct periods.

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 in physical diagnosis, medical observation, and surgical technic are introduced. These are 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, and 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 various wards of the Hospitals, and each section of the class serves a full trimester in each ward, namely, medicine, surgery, and obstetrics and pediatrics. During the second period pharmacology is completed and courses are also given in clinical chemistry and microscopy, neurological pathology, surgical and gynecological pathology, and operative surgery on animals. Special emphasis is placed upon the diagnosis and treatment of patients. There are few lectures. Instruction is given at clinics and at the bedside.

Clinical work in the specialties is confined to the second half of the second period.

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 elective 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.
SUMMARY OF ENTIRE CURRICULUM BY HOURS

Giving the actual work required of each student graduating in June, 1920, exclusive of examination hours:

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Histology</td>
<td>252</td>
<td>Dermatology</td>
<td>44</td>
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<tr>
<td>Neurology</td>
<td>90</td>
<td>Medical Jurispru-</td>
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<tr>
<td>Human Dissection</td>
<td>297</td>
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<td>23</td>
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<tr>
<td>Topographical Anatomy</td>
<td>72</td>
<td>Surgery</td>
<td>649</td>
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<tr>
<td>Applied Anatomy</td>
<td>24</td>
<td>Ophthalmology</td>
<td>66</td>
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<tr>
<td>Biological Chemistry</td>
<td>251</td>
<td>Otology</td>
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<tr>
<td>Physiology</td>
<td>245</td>
<td>Laryngology and</td>
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<td>Pharmacology</td>
<td>110</td>
<td>and</td>
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<td>Bacteriology</td>
<td>181</td>
<td>Pathology</td>
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<td>Pathology</td>
<td>362</td>
<td>Pediatrics</td>
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<tr>
<td>Internal Medicine</td>
<td>623</td>
<td>Preventive Medicine</td>
<td>33</td>
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<tr>
<td>Neurology and Psychiatry</td>
<td>143</td>
<td>Elective</td>
<td>300*</td>
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<td><strong>TOTAL</strong></td>
<td>4,225</td>
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*See p. 80.
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
Archie W. L. Bray, A.M. . . . Associate in Anatomy
Edgar Allen, Ph.B. . . . . Instructor 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. Mr. Bray and Mr. Allen

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. 99 hours.

Professor Terry, Professor Danforth, Mr. Bray, Mr. Allen

6. 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, Professor Danforth

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.  
Professor Danforth

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. 22 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. Professor Danforth, Mr. Allen

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.  
Mr. Allen

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. Mr. Bray

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

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.  
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. Professor Danforth

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.  
Mr. Bray

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 A. Doisy, Ph.D. . . Instructor in Biological Chemistry  
Horace H. Shackelford, M.D. Assistant in Biological Chemistry  
Alexis F. Hartmann, B.S. . . Student Assistant in Biological Chemistry  
Alfred P. Briggs, B.S. . . 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.

Mr. Doisy

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. 96 hours.

Dr. Shackelford

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 synthetical 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 187 hours.

Professor Shaffer, Mr. Doisy

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 biochemical interest and importance, offered especially for those students in the School of Medicine 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
Herbert S. Gasser, M.D. . . . . Associate in Physiology
Ernest W. H. Cruickshank, M.B. . Instructor in Physiology
Harvey L. White, B.S. . . . . 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
THE SCHOOL OF MEDICINE.

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and second trimesters of the second year. Properly prepared stu-
dents 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, his-
tology, neurology, and biological chemistry before the physio-
logical aspects of the related topics are considered. The follow-
ing 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. 132 hours.

Professor Erlanger, Dr. Gasser, Dr. Cruickshank,
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 stu-
dent 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 experi-
ments 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. Weekly conferences are held for the discus-
sion and correlation of the experimental data. First trimester of
the second year. 120 hours.

Professor Erlanger, Dr. Gasser, Dr. Cruickshank

4. Demonstration Methods. This course is designed primarily
for students preparing to teach physiology, and who may de-
sire 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

E. Kennerly Marshall, Jr.,
Ph.D., M.D. . . . . Professor of Pharmacology
Alfred C. Kolls, M.D. . . . Associate in Pharmacology
Marian M. Crane, B.S. . . . Research Assistant in Pharmacology
Archie D. Carr, B.S. . . . Student Assistant in Pharmacology

1. Pharmacology. (a) Lectures, recitations, and demonstrations covering the general field of pharmacology. The action of each of the chief medicinal drugs on the individual organs or functions of the body is studied in detail, the subject matter of the lectures being correlated with the work of the laboratory. Attention is given to the methods of diagnosis and treatment of poisoning by the commoner drugs. The application of pharmacological principles to clinical medicine is emphasized. Students are required to familiarize themselves with prescription writing and the dosage of the more important preparations. Prerequisite, Anatomy, Biological Chemistry, and Physiology 2 and 3. Second and third trimesters of the second year. Courses (a) and (b) are required of medical students, but course (a) may be taken alone by special students. 55 hours.

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

Professor Marshall, Dr. Kolls, Mr. Carr

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

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

**Pathology and Bacteriology**

Eugene L. Opie, M.D. . . . Professor of Pathology
Montrose T. Burrows, M.D. . Associate Professor of Pathology
Howard H. Bell, M.D. . . . Instructor in Bacteriology
L. S. Newman Walsh, M.D. . Assistant in Pathology
Fred J. Hodges, M.D. . . . Assistant in Pathology
Alfred Goldman, A.B. . . . Student Assistant in Pathology
Morie F. Weymann . . . 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 ob-
serving and staining bacteria and methods of bacteriological diagnosis are taught. Eleven hours a week during the third trimester. 121 hours. Professor Opie, Dr. Bell, and staff

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. Some familiarity with the literature of pathology will be obtained by reports upon special topics made by members of the class during one hour each week in the second trimester. Lectures and laboratory work, 11 hours a week in the first trimester and 14 hours in the second trimester. 275 hours.

Professor Opie, Professor Burrows, Dr. Walsh, Dr. Hodges

(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. Walsh, Dr. Hodges

(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. 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 Opie, Professor Burrows**

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. 22 hours.

**Dr. Bell**

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 five trimesters in the third and fourth years. **Professor Burrows, Dr. Walsh, Dr. Hodges**

6. **Medical Zoology.** The student will be provided with material suitable for the study of protozoa, parasitic worms and parasitic and blood-sucking insects. He will familiarize himself with the clinical diagnosis of animal parasites and the patho-
logical changes caused by them in man. The inspection of meat
to determine the presence of laval parasites will be practiced. The
relation of the subject to public health will be considered. Hours
to be arranged in the third trimester.

Professor Opie, Dr. Walsh

7. Pathology of Tuberculosis. The course is offered to
physicians who are making a special study of tuberculosis. The
pathology of first infection in tuberculosis will be studied at
autopsy by means of pathological specimens and by X-ray plates
and its relation to the apical lesions of adults will be considered.
Special attention will be given to latent tuberculosis and its
relation to clinical tuberculosis will be considered. The rela-
tion of human and bovine bacilli to various types of human
tuberculosis will be determined by appropriate methods. Pro-
blems of experimental tuberculosis will be considered and ex-
periments will be performed. There will be no lectures; the work
will be directed by the instructor and reading will be assigned. 
Physicians with the necessary preliminary training who desire
to take the course will give their entire time to the work. Hours
to be arranged.  

Professor Opie

Comparative Pathology

Leo Loeb, M.D. . . . . Professor of Comparative Pathology

1. Seminar for the discussion of selected problems in compar-
ative and general pathology. Open to a limited number of
students.

2. Qualified students may be admitted to the laboratory for
research in comparative pathology.

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
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 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 each group studies 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. 84 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,
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gastro-intestinal and tuberculosis 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.

Dr. Cook, Dr. Sale, Dr. Singer, Dr. Larimore

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. 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 be-
fore 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

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

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
Leland B. Alford, M.D. . . Associate in Clinical Neurology
Second and Third Years

1. NeurOlogy.

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

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

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

Third and Fourth Years


(a) Neurological ward rounds with the medical group. Neurological and such psychiatrical cases as are suitable for hospital treatment are studied. Two hours a week for one trimester for each medical group. 22 hours. Professor Schwab

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

4. Psychiatric Clinic. Selected cases illustrating the various groups of mental disorders are demonstrated and discussed. This clinic is held at the St. Louis City Sanitarium. Three hours a week for one trimester. 33 hours. Dr. Barnes
Dermatology

Martin F. Engman, M.D. . Clinical Professor of Dermatology
Frederick Eberson, Ph.D. . Associate in 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 Dispensary, 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 identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity; and malpractice. 22 hours.

Surgery

Evarts A. Graham, 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. . Professor of Clinical Neurological Surgery
Nathaniel Allison, M.D. . . Professor of Clinical Orthopedic Surgery
Major G. Seelig, M.D. . . Professor of Clinical Surgery
Willard Bartlett, M.D. . . Associate in Clinical Surgery
Vilray P. Blair, M.D. . . Associate in Clinical Surgery
Malvernn B. Clopton, M.D. . Associate in Clinical Surgery
John R. Calk, M.D. . . Associate in Clinical Genito-Urinary Surgery
Barney Brooks, M.D. . . Associate in Clinical Surgery
Arthur O. Fisher, M.D. . . Associate in Clinical Surgery
Sherwood Moore, M.D. . . Associate in Surgery (Radiology)
Archer O'Reilly, M.D. . . Assistant in Clinical Orthopedic Surgery
Walter C. G. Kirchner, M.D. . Assistant in Clinical Surgery
Charles E. Hyndman, M.D. . Assistant in Clinical Surgery
Charles A. Stone, M.D. . . Assistant in Clinical Orthopedic Surgery
William M. Robertson, M.D. . Assistant in Clinical Surgery
H. McClure Young, M.D. . Assistant in Clinical Surgery
Ellis Fischel, M.D. . . Assistant in Clinical Surgery
Harry G. Greditzer, M.D. . Assistant in Clinical Genito-Urinary Surgery
Edwin P. Lehman, M.D. . . Assistant in Surgery
Warren R. Rainey, M.D. . Assistant in Clinical Surgery
Frederick B. Abbott, M.D. . Assistant in Clinical Orthopedic Surgery
Forest H. Staley, M.D. . . Assistant in Surgery
Leon C. McAmis, M.D. . . Assistant in Clinical Surgery
J. Edgar Stewart, M.D. . . Assistant in Clinical Orthopedic Surgery
Bennett Y. Alvis, M.D. . . Research Fellow in Surgery and Assistant in Surgery
Julian Y. Malone, A.B., M.S. Fellow in Neurological Surgery
Charles R. Fancher, A.B. . Fellow in Surgery
Mynie G. Peterman, B.S. . Student Assistant in Surgery
Walter S. Priest, A.B. . . Student Assistant in Surgery
Second and Third Years

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

2. **Surgery.** The course is subdivided as follows:

(a) **Surgical Out Clinic.** For one trimester, four 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.

   Professor Graham, Professor Sachs, and Assistants

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

   Professor Seelig

(c) **Fractures.** Demonstrations, conferences and lectures on the more common fractures. Patients both in the hospitals and in the dispensary will be used in this course. One hour weekly during the second trimester. 11 hours.

   Professor Sachs, Dr. Brooks, and Dr. Lehman

(d) **Operative Surgery.** A three-hour exercise given weekly during the second trimester of the third year. Actual case his-
tories are discussed, and the operations indicated from these discussions are performed on animals by the students. The surgical technique is as rigid as in the operating room, and it is required that the operations shall be performed without pain to the animal. The course is given in two sections. 33 hours.

Professor Sachs, Dr. Fisher

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

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

(g) 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. 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 Graham and the surgical resident discuss the general surgical cases. Professor Sachs makes rounds on the special neurological cases once a week. Professor Allison, Dr. Caulk, Dr. Blair, and Dr. Clopton 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 anesthetic, and do some of the surgical dressings. They also attend autopsies
performed on the cases studied by them and are required to be present at the weekly pathological conference at which these cases are discussed. (See Pathology 5.) One day each week the group spends the period from 9 a.m. to 12 m. at the St. Louis Children’s Hospital, where Professor Allison demonstrates the orthopedic cases and Dr. Clopton the general surgical cases. 198 hours.

Professor Graham, 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. 33 hours.

Professor Graham, 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 Graham, 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 are encouraged to work at some unsolved 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

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

12. **Journal Club.** Approved students may attend the staff journal club, which meets weekly, at which current literature of interest is discussed.

**Ophthalmology**

Arthur Eugene Ewing, M.D. Clinical Professor of Ophthalmology
Meyer Wiener, M.D. . . . Associate in Clinical Ophthalmology
William E. Shahan, M.D. . Associate in Clinical Ophthalmology
William F. Hardy, M.D. . Associate in Clinical Ophthalmology
Frederic O. Schwartz, M.D. Assistant in Clinical Ophthalmology
M. Hayward Post, M.D. . . . Assistant in Clinical Ophthalmology
Lawrence Post, M.D. . . . Assistant in Clinical Ophthalmology
Harvey D. Lamb, M.D. . . . Assistant in Clinical Ophthalmology
Max W. Jacobs, M.D. . . . Assistant in Clinical Ophthalmology

(a) **Ophthalmology.** 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) **OPHTHALMOLOGICAL 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.

**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  
Isaac D. Kelley, M.D. . . . Assistant in Clinical Otology  

**Otology.** Eleven lectures are given during the third trimester of the third year. Practical instruction is given to sections of the class during the third trimester of the third year and the first and second trimesters of the fourth year, each section attending four hours a week during one trimester. Cases are demonstrated and patients are assigned to the students, who are required, under supervision, to make examinations and diagnoses, and carry out routine treatment. 55 hours.

**Professor Shapleigh, 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  
Eugene R. Van Meter, M.D. . . . Assistant in Clinical Laryngology and Rhinology

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* Died February 28, 1920.
LARYNGOLOGY AND RHINOLOGY. Eleven lectures are given by Professor Sluder 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
Quitman U. Newell, M.D. . . Assistant in Clinical Obstetrics
Frank P. McNalley, M.D. . . Assistant in Clinical Obstetrics
Raymond M. Spivy, 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, Dr. Newell

(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. 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, and Associates
(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. 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. Veeder, 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 Clinical Pediatrics
Samuel W. Clausen, M.D. . . Instructor in Pediatrics
Kirsten Utheim, M.D. . . Assistant in Pediatrics
Wayne A. Rupe, M.D. . . Assistant in Pediatrics
Phelps G. Hurford, M.D. . . Assistant in Clinical Pediatrics
Maurice J. Lonsway, M.D. . . Assistant in Clinical Pediatrics
Warren C. Fargo, M.D. . . Fellow in Pediatrics
A. Crump Kirby, M.D. . . Fellow in Pediatrics

Second and Third Years

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

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

Third and Fourth Years

3. PEDIATRICS. The course is composed of the following subdivisions:

(a) Pediatric Ward Work. Examination of assigned cases and discussion of diagnosis and treatment. Individual instruction in preparation of milk formulae, examination of throat cultures, and such procedures as lumbar puncture, intubation, administration of antitoxin, vaccination, etc. Daily for five and one-half weeks. 33 hours. Professor Marriott, Professor Veeder, Professor Jeans, Dr. Cooke

(b) Pediatric Dispensary. Practical work in history taking, physical and laboratory diagnosis, and infant feeding. Two afternoons a week for one trimester. 44 hours. Professor Jeans, and Assistants

Fourth Year

4. PEDIATRIC CLINIC. A weekly amphitheater clinic is held throughout the school year. Demonstration of selected cases from the Hospital and from the Dispensary. 33 hours. Professor Marriott, Professor Tuttle, Professor Veeder, Professor Jeans, Dr. Clausen, Dr. McCulloch

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

6. Pediatrics. Elective course. This course is offered during the last trimester of the fourth year. Students are required to make an intensive study of certain disease conditions from the clinical and laboratory standpoints and to report on assigned literature. 150 hours.

7. Research. Properly qualified students may engage in clinical or laboratory research under the direction of the Pediatric Staff. Fourth-year students may elect to do research in place of Course 6.


Courses for Graduates

9. Pediatrics. A four weeks course is offered to general practitioners. The course is given twice yearly, in September and in April. Instruction daily morning and afternoon throughout the four weeks period. Lectures, demonstrations and ward rounds in the St. Louis Children's Hospital, the Isolation Hospital, and the City Negro Hospital. Instruction is also given in the more important laboratory methods of diagnosis, and in the interpretation of X-ray plates, electrocardiographic tracings, etc. A prospectus of this course may be obtained from the Registrar's office. Fee $50.00.

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 sub-
jects bearing upon the maintenance of health, will be given twice a week during the first trimester and once a week during the second. 33 hours.

Dr. Bleyer

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. 11 hours.

TRAINING SCHOOL FOR NURSES

Helen Wood, A.B., R.N. . . Director of the School and Superintendent of Nurses
Helen O. Potter, R.N. . . Assistant Superintendent of Nurses
Susie A. Watson, A.B., R.N. . Theoretical Instructor
Minnola Stallings, R.N. . Practical Instructor

The Washington University Training School is 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 six 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 tuberculosis 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 each year is available for some member 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.
# GENERAL SCHEDULES

**WASHINGTON UNIVERSITY SCHOOL OF MEDICINE**

Schedule of First Year. First Trimester 1920-21

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*Analytical Chemistry: Chemistry 1—Monday 8-5 p.m.; Wednesday 2-5 p.m. This course is required of those who do not present credit for Analytical Chemistry on admission.*
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Dissection
Anatomy 6

Dissection
Anatomy 6
## Washington University School of Medicine

Schedule of Second Year, First Trimester

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WASHINGTON UNIVERSITY SCHOOL OF MEDICINE 1920-21

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.*

<table>
<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
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<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<th>SATURDAY</th>
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<tbody>
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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 4</td>
<td>Medicine Clinic Medicine 10</td>
<td>Obstetrics Lecture Obstetrics 3 I and II Trimesters</td>
<td>Medicine Clinic Medicine 10</td>
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<tr>
<td>2 to 3</td>
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<td>4 to 5</td>
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<td>Surgery Lecture Surgery 4</td>
<td>Medical Jurisprudence I and II Trimesters</td>
<td>Otology Lecture III Trimester</td>
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*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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<th>HOURS</th>
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<th>TUESDAY</th>
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<th>THURSDAY</th>
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<tr>
<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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<th>12 to 1</th>
<th>Neurology Clinic</th>
<th>Surgery Clinic</th>
<th>Pediatric Clinic</th>
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<th>Obstetrics Lecture</th>
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<td>Neurology 3</td>
<td>Surgery 4</td>
<td>Pediatrics 4</td>
<td>Medicine 10</td>
<td>Obstetrics 8</td>
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<td>2 to 3</td>
<td>Otology</td>
<td>Laryngology</td>
<td>Ophthalmological Pathology I Trimester</td>
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<td>3 to 4</td>
<td>Clinical Pathological Conference</td>
<td>Surgery Lecture</td>
<td>Medical Jurisprudence I and II Trimesters</td>
<td>Otology Lecture</td>
<td>III Trimester</td>
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<td>Pathology 5</td>
<td>Surgery 4</td>
<td>I and II Trimesters</td>
<td>III Trimester</td>
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*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.
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.*

<table>
<thead>
<tr>
<th>HOURS</th>
<th>MONDAY</th>
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<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>10 to 11</td>
<td>Genito-Urinary O. P. D. Surgery 5</td>
<td>Genito-Urinary O. P. D. Surgery 5</td>
<td>Medicine Clinic Medicine 10</td>
<td>Obstetrics Lecture Obstetrics 8 I and II Trimesters</td>
<td>Medicine Clinic Medicine 10</td>
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<tr>
<td>11 to 12</td>
<td>Neurology Clinic Neurology 3</td>
<td>Surgery Clinic Surgery 4</td>
<td>Pediatric Clinic Pediatrics 4</td>
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<td>Pediatric Clinic Pediatrics 3</td>
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<td>Surgery Lecture Surgery 4</td>
<td>Medical Jurisprudence I and II Trimesters</td>
<td>Otology Lecture III Trimester</td>
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*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.
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 800 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*
    Walter E. McCourt, A.M., Dean

III. The School of Architecture (Skinker road and Lindell boulevard)
     Alexander S. Langsdorf, M.M.E., Dean*
     Walter E. McCourt, A.M., 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 avenue)
     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**
     Tyrrell Williams, A.B., LL.B., Acting 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 avenue)
     Edmund H. Sears, A.M., Principal

The Training School for Nurses (600 S. Kingshighway)
     Helen Wood, A.B., Superintendent

* Resigned January 31, 1920
** Resigned October 31, 1919