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BULLETIN
OF
WASHINGTON UNIVERSITY
ST. LOUIS



THIRTY-THIRD ANNUAL
CATALOGUE
OF
THE SCHOOL OF MEDICINE

FEBRUARY, 1922

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XX NUMBER IV

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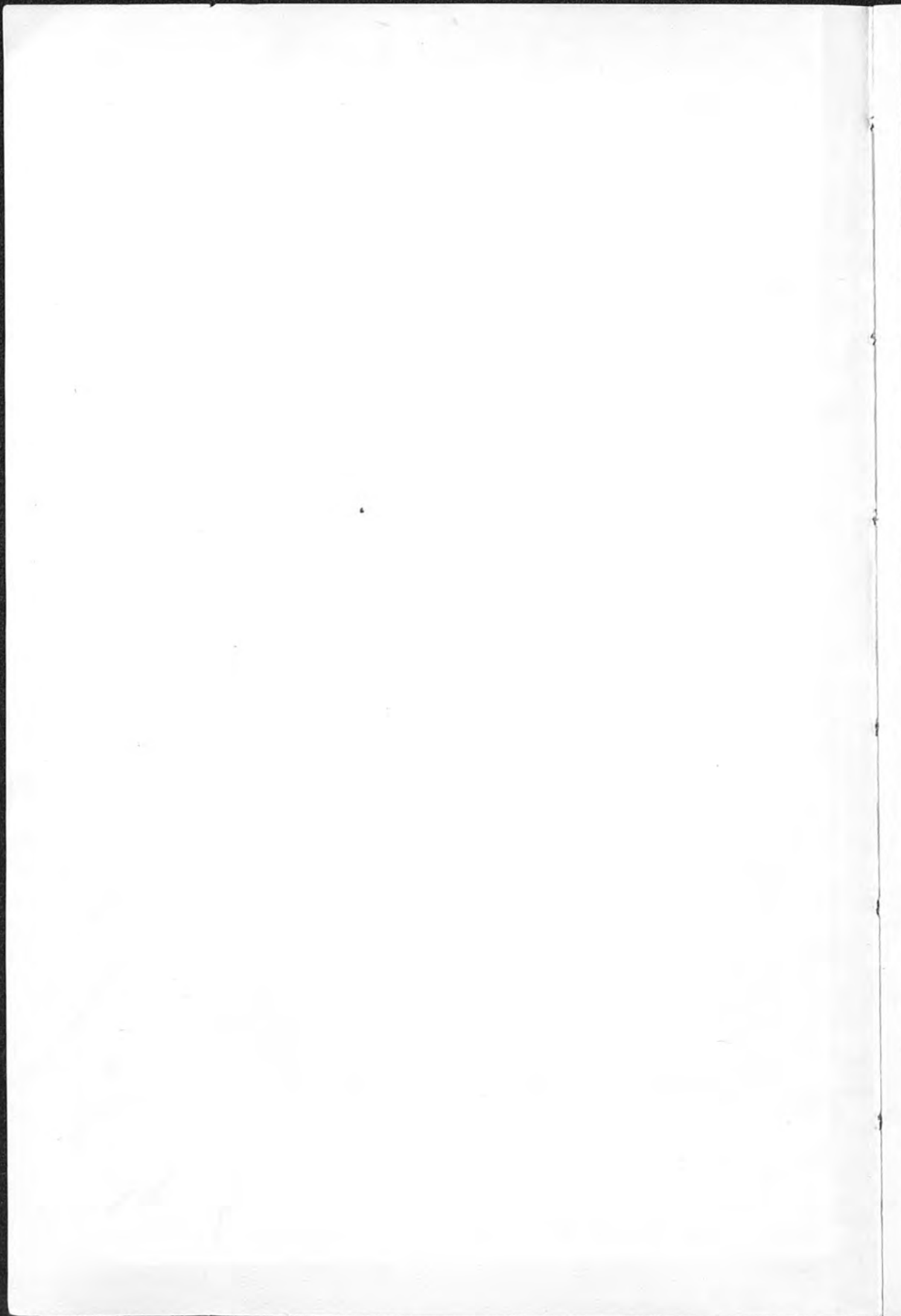
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BULLETIN
OF
WASHINGTON UNIVERSITY
ST. LOUIS



THIRTY-THIRD ANNUAL
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OF
THE SCHOOL OF MEDICINE

FEBRUARY, 1922

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XX NUMBER IV

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WASHINGTON UNIVERSITY

ST. LOUIS



THIRTY-THIRD ANNUAL

CATALOGUE

THE SCHOOL OF MEDICINE

FEbruary, 1922

WASHINGTON UNIVERSITY

ST. LOUIS

Published by the University Press

at the University Press

CALENDAR

1921-22

Examinations for Advanced Standing and Removal of Conditions,
Monday, Tuesday, and Wednesday, September 19, 20, and
21, 1921.

Academic Year (First Trimester) begins Thursday, September
22, 1921.

Holiday, Thanksgiving Day, Thursday, November 24, 1921.

First Trimester ends Thursday, December 22, 1921.

Christmas Recess, Friday, December 23, 1921, to Monday, Janu-
ary 3, 1922, inclusive.

Second Trimester begins Wednesday, January 4, 1922.

Holiday, Washington's Birthday, Wednesday, February 22, 1922.

Second Trimester ends Saturday, March 11, 1922.

Third Trimester begins Monday, March 13, 1922.

Holiday, Good Friday, April 14, and Saturday, April 15, 1922.

Third Trimester ends Saturday, May 27, 1922.

Final Examinations begin Monday, May 29, 1922.

Commencement, Thursday, June 8, 1922.

1922-23

Examinations for Advanced Standing and Removal of Conditions,
Monday, Tuesday, and Wednesday, September 25, 26, and
27, 1922.

Academic Year (First Trimester) begins Thursday, September
28, 1922.

Holiday, Thanksgiving Day, Thursday, November 30, 1922.

First Trimester ends Friday, December 22, 1922.

Christmas Recess, Saturday, December 23, 1922, to Tuesday, Jan-
uary 3, 1923, inclusive.

Second Trimester begins Wednesday, January 3, 1923.

Holiday, Washington's Birthday, Thursday, February 22, 1923.

Second Trimester ends Saturday, March 17, 1923.

Third Trimester begins Monday, March 19, 1923.

Holiday, Good Friday, March 30, and Saturday, March 31, 1923.

Third Trimester ends Saturday, June 2, 1923.

Final Examinations begin Monday, June 4, 1923.

Commencement, Thursday, June 14, 1923.

CALENDAR

1921

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1		1	2	3	4	5						1	2	3
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
							30	31																			

1922

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	1	2	3	4	..	..	1	2	3	4	..	..	..	..	..	..	1	..	..
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31	26	27	28	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	30

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
28	29	30	31	..	..	..	25	26	27	28	29	30	..	23	24	25	26	27	28	29	27	28	29	30	31	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	1	..	2	3	4	5	6	7	1	2	3	4	1	2
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
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17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31	26	27	28	29	30	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..

1923

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	1	2	3	1	2	3	4	1	2	3	4	5	6	7
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	25	26	27	28	25	26	27	28	29	30	31	29	30
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MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	1	2	3	4	1	2	1	2	3	4	5	6	7	1	2	3	4
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27	28	29	30	31	24	25	26	27	28	29	30	29	30	31	26	27	28	29	30	31	..
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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, 1909-10. Dean, Washington University School of Medicine, 1915-19. *Chemist to the Barnes and the St. Louis Children's Hospitals.*

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

719 Westgate Avenue

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B.S., University of North Carolina, 1904; M.D., Cornell University, 1910. Assistant in Chemistry, University of North Carolina, 1903-04; Assistant in Bio-chemistry, Cornell University Medical School, 1904-06; Instructor in Biological Chemistry, Washington University Medical School, 1910-14; Instructor and Associate in Pediatrics, Johns Hopkins University, 1914-17; Associate Pediatrician, Johns Hopkins Hospital, 1915-17; Consulting Physician, St. Louis City Hospital, 1918-21. *Physician in Chief to the St. Louis Children's Hospital, Pediatrician in Chief to the Barnes Hospital and the Washington University Dispensary, and Consulting Physician, Infectious Disease Hospital.*

4763 Westminster Place

EVARTS AMBROSE GRAHAM, M.D. *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, 1919-21. *Surgeon in Chief to the Barnes Hospital, the St. Louis Children's Hospital, and the Washington University Dispensary.*

4711 Westminster Place

HERBERT SPENCER GASSER, M.D. . . . *Professor of Pharmacology*

A.B., University of Wisconsin, 1910, and A.M., 1911; M.D., Johns Hopkins University, 1915. Instructor in Physiology, 1911-13, and in Pharmacology, 1915-16, University of Wisconsin. Instructor, Associate, and Associate Professor of Physiology, Washington University School of Medicine, 1916-21. *Pharmacologist to the Barnes and the St. Louis Children's Hospitals.*

5246 Waterman Avenue

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A.B., Yale University, 1902; M.D., Johns Hopkins University, 1906. Interner, Assistant Resident Physician, and Assistant Administrator, Massachusetts General Hospital, 1906-12; Assistant Superintendent, Peter Bent Brigham Hospital, 1912-17. *Superintendent of the Barnes Hospital and Administrator of the St. Louis Children's Hospital.*

4954 Lindell Boulevard

CHARLES HASKELL DANFORTH, PH.D. *Associate Professor of Anatomy*

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

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A.B., University of Kansas, 1904; M.D., Johns Hopkins University, 1909; Interner, 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-

* On leave of absence.

13. Student Instructor in Chemistry, University of Kansas, 1902-04; Assistant, Instructor, and Associate in Pediatrics, Washington University Medical School, 1913-17. *Associate Physician to the St. Louis Children's Hospital; Associate Pediatrician to the Barnes Hospital; Chief of the Pediatric Clinic, Washington University Dispensary, and Visiting Physician, Infectious Disease Hospital.*

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500 S. Kingshighway

FRANK ADAM MCJUNKIN, M.D. *Associate Professor of Pathology*

M.D., University of Michigan, 1906, and A.M., 1912; Interne, University Hospital, Ann Arbor, Michigan, 1906-07. Assistant in Pathology, New York Post-Graduate Hospital, 1907-08; Instructor in Bacteriology, University of Michigan, 1908-09; Professor of Pathology and Bacteriology, University of Utah, 1909-11; Assistant in Pathological Laboratory, Boston City Hospital, 1912-14; Professor of Pathology, Marquette University School of Medicine, 1914-20. *Associate Pathologist to the Barnes and St. Louis Children's Hospitals.*

7239 Lyndover Place

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4949 Forest Park Boulevard

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1025 Yale Avenue

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A.B., St. Louis University, 1906; A.M., 1910; M.D., 1911. Interne, St. Louis City Hospital, 1911-14. Fellow in Medical Research, 1914-17, and Instructor in Medicine, 1915-17, Columbia University; Assistant Attending Physician, Presbyterian Hospital, New York, 1917; Professor of Experimental Medicine, St. Louis University, 1919-21. *Associate Physician to the Barnes Hospital.*

5808 Westminster Place

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

14 Thornby Place

SAMUEL WOLCOTT CLAUSEN, M.D. *Associate in Pediatrics*

A.B., Williams College, 1910; M.D., Johns Hopkins University, 1915; Interne and Assistant Resident Physician, Johns Hopkins Hospital, 1915-

17. Instructor in Pediatrics, Washington University School of Medicine, 1917-20. *Assistant Physician to the St. Louis Children's Hospital, Assistant Pediatrician to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.*

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A.B., University of Illinois, 1914, and M.S., 1916; Ph.D., Harvard University, 1920. Assistant in Biological Chemistry, Harvard Medical School, 1915-17.

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A.B., St. Louis University, 1910; A.M., 1918; and M.D., 1914. Interne, Providence Hospital, Washington, D. C., 1914-15; Assistant Physician, Jewish Hospital, 1916-17. Assistant in Medicine and Pathology, St. Louis University School of Medicine, 1916-17; Fellow and Assistant in Pathology and Bacteriology, Rockefeller Institute for Medical Research, 1917-19; Professor, Head of Department of Pathology, Bacteriology, and Preventive Medicine, Loyola University School of Medicine, 1919-20. *Assistant Physician to Barnes Hospital, and Chief of the Medical Clinic, Washington University Dispensary.*

1515 Bellevue Avenue

ROBERT WILLIAM KERR, M.D., Major, Medical Corps, United States Army. *Assistant Professor of Military Science and Tactics*

M.D., Yale University, 1908. Interne, New York Children's Hospital, 1903-04; New York Infant Asylum and Marion Street Maternity Hospital, 1904-05. Bacteriologist, 1907-08, Attending Physician, 1908, Newport Hospital.

5316 Pershing Avenue

OTTO HENRY SCHWARZ, M.D. *Associate in 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 and Instructor in Clinical Obstetrics, 1915-21; Assistant Gynecologist to Barnes Hospital, 1917-21. *Obstetrician in Chief to the Barnes Hospital and to the Washington University Dispensary.*

4937 Laclede Avenue

GEORGE HOLMAN BISHOP, Ph.D. *Associate in Physiology*

A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.
Instructor in Zoölogy, Northwestern University, 1919-20; Assistant Professor of Histology, University of Tennessee Medical College, 1920-21.

4949 Forest Park Boulevard

GEORGE CASTLEMAN MACKAY, LL.B. *Instructor in Medical Jurisprudence*

LL.B., Harvard University, 1904.

Security Building

EDGAR ALLEN, Ph.D. *Instructor in Anatomy*

Ph.B., Brown University, 1915; A.M., 1916, and Ph.D., 1921. Arnold Fellow in Biology, 1916-17, and Laboratory Instructor in Embryology and Histology, Brown University, 1915-17; Assistant Bacteriologist, Rhode Island State Board of Health, 1919.

4555a McKinley Avenue

FRANK HENRY EWERHARDT, M.D. *Instructor in Medicine*

M.D., Washington University, 1909. Assistant in Anatomy, 1913-14, and Assistant in Medicine, 1915-20, Washington University Medical School; Assistant Surgeon, Orthopedic Out Patient Clinic, St. Louis Children's Hospital, 1912-14. Surgeon to Out Patients, Washington University Dispensary, 1915-21. *Physician in Charge of Hydro- and Physical-Therapeutic Department, Barnes Hospital.*

5204 Kensington Avenue

KIRSTEN UTHEIM, M.D. *Instructor in Pediatrics*

M.D., University of Norway, 1916. Interne, Kristiania Kommunale Sykehus, 1916-17; Voluntary Assistant in Pediatrics, University of Copenhagen, 1917-18; Assistant in Pediatrics, University of Norway, 1918-19. *Physician to Out Patients, Washington University Dispensary.*

St. Louis Children's Hospital

LEWIS DUNBAR STEVENSON, M.D. *Instructor in Neuropathology*

B.A., M.D., C.M., Queen's University, Canada, 1916. Interne and Resident Neurologist, Bellevue Hospital, 1919-20. Visiting Neurologist, Glenwood Sanatorium. *Physician to Out Patients, Washington University Dispensary.*

1606 Bellevue Avenue

L. S. NEWMAN WALSH, M.D. *Instructor in Pathology*

D.V.M., Kansas City Veterinary College, 1912; M.D., St. Louis University, 1916. Assistant in Comparative Pathology, 1916-17, and Assistant in Pathology, 1919-21, Washington University School of Medicine; 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

WILLIAM ANDREW HUDSON, M.D. *Instructor in Pathology*

B.S., Washington University, 1918, and M.D., 1920. Assistant in Physiology, Kansas State Normal School, Summer Session, 1919; Assistant in Pathology, Washington University School of Medicine, 1920-21. Pathologist to St. Louis City Hospital, 1920-21.

5059 Vernon Avenue

HARVEY LESTER WHITE, M.D. *Instructor in Physiology*

B.S., Washington University, 1918, and M.D., 1920. Interne, St. Louis Children's Hospital, 1920. Assistant in Physiology, Washington University School of Medicine, 1920-21.

4433 Laclede Avenue

ETHEL RONZONI, A.M. *Instructor in Biological Chemistry*

B.S., Mills College, 1913; A.M., Columbia University, 1914. Instructor in Home Economics, University of Missouri, 1914-17; Assistant Professor of Home Economics, University of Minnesota, 1917-18; Assistant and Instructor in Physiology, University of Wisconsin, 1918-21.

5591 Waterman Avenue

BEATRICE WHITESIDE, Ph.D. *Instructor in Anatomy*

A.B., Vassar College, 1913; Ph.D., University of Zurich, 1920.

4537 Forest Park Boulevard

WAYNE ARTHUR RUPE, M.D. *Assistant in Pediatrics*

A.B., University of Missouri, 1916; M.D., Washington University, 1918. Interne, Assistant Resident Physician, and Resident Physician, St. Louis Children's Hospital, 1918-21. *Assistant Physician to the St. Louis Children's Hospital, Assistant Pediatrician to the Barnes Hospital and Physician to Out Patients, Washington University Dispensary.*

St. Louis Children's Hospital

IRENE KOECHIG, A.M. *Assistant in Biological Chemistry*

A.B., Washington University, 1912; A.M., 1913.

5122 Waterman Avenue

ALFRED POYNEER BRIGGS, B.S. *Assistant in Biological Chemistry*

B.S., University of Colorado, 1912.

4949 Forest Park Boulevard

GLOVER H. COPPER, M.D. *Assistant in Surgery*

A.B., University of Missouri, 1916; M.D., Washington University, 1918.

Assistant Resident Surgeon, Barnes Hospital, 1918-20. *Resident Surgeon, Barnes and St. Louis Children's Hospitals.*

Barnes Hospital

EARL CALVIN PADGETT, M.D. *Assistant in Surgery*

B.S., University of Kansas, 1916; M.D., Washington University, 1918.

Interne and Assistant Resident Surgeon, Barnes Hospital, 1919-21. *Assistant Resident Surgeon, Barnes Hospital.*

Barnes Hospital

WILLIAM HAROLD CHAMBERS, PH.D. *Assistant in Experimental Surgery*

B.S., University of Illinois, 1915; M.S., 1917; Ph.D., Washington University, 1920. Assistant in Research Laboratories, Barnard Free Skin and Cancer Hospital.

7347 Marietta Avenue

OTTO ST. CLAIR KREBS, M.D. *Assistant in Obstetrics*

B.S., Washington University, 1917, and M.D., 1919. Interne, Assistant Resident, and Resident Obstetrician and Gynecologist, Barnes Hospital, 1918-21. Assistant in Clinical Obstetrics, Washington University School of Medicine, 1920-21. *Clinical Assistant to the Barnes Hospital, and Obstetrician to Out Patients, Washington University Dispensary.*

4433 Laclede Avenue

FOREST HENRY STALEY, M.D. *Assistant in Anatomy*

A.B., University of Wisconsin, 1909; M.D., Washington University, 1918; Interne, Assistant Resident Surgeon, and Acting Resident Surgeon,

Barnes Hospital, 1917-19. Assistant in Surgery and in Clinical Surgery, Washington University School of Medicine, 1919-21.

4267 Manchester Avenue

LEONARD TOMB DAVIDSON, M.D. *Assistant in Pediatrics*
A.B., Oberlin College, 1912; M.D., Johns Hopkins University, 1919. Interne, Peter Bent Brigham Hospital, 1919-20; Assistant Resident Physician, Presbyterian Hospital, New York, 1920-21. Assistant in Medicine, Columbia University, 1920-21. *Resident Physician, St. Louis Children's Hospital.*

Children's Hospital

DUFF SHEDERIC ALLEN, M.D. *Assistant in Surgery*
M.D., Washington University, 1919. Interne, St. Luke's Hospital, 1918-19.

5942 Minerva Avenue

ROBERT LEV NOVY, M.D. *Assistant in Medicine*
A.B., University of Michigan, 1913; M.S., 1914; M.D., 1919. Interne, Peter Bent Brigham Hospital, 1919-20; Interne, Boston City Hospital, 1920. Instructor in Chemistry, University of Iowa, 1914-15; Fellow in Heart Station, Washington University School of Medicine, 1920-21.

1440 Rankin Boulevard

THEODORE EDWARD FRIEDEMANN, A.M. . . . *Assistant in Biological Chemistry*

B.S., Oklahoma Agricultural and Mechanical College, 1915; A.M., University of Missouri, 1921. Instructor in Chemistry, Michigan Agricultural College, 1915-17; Assistant Chemist, Michigan Agricultural Experiment Station, 1917-19; Assistant in Agricultural Chemistry, Missouri Agricultural Experiment Station, 1920-21.

4949 Forest Park Boulevard

CHARLES DARRELL O'KEEFE, M.D. *Assistant in Obstetrics*
A.B., University of Missouri, 1916; M.D., Washington University, 1918. Interne and Assistant Resident Obstetrician and Gynecologist, Barnes Hospital, 1919-21. *Resident Obstetrician and Gynecologist, Barnes Hospital.*

Barnes Hospital

HIRAM SHAW LIGGETT, M.D. *Assistant in Pathology*
M.D., Washington University, 1920. Interne, Ancon Hospital, Canal Zone, 1920-21. *Resident Pathologist, Barnes and St. Louis Children's Hospitals.*

Barnes Hospital

BRANSFORD LOUIS ADELSBERGER, M.D. *Assistant in Surgery*
M.D., Washington University, 1920. Interne, Barnes Hospital, 1920-21.
Assistant Resident Surgeon, Barnes Hospital.

Barnes Hospital

MINAS JOANNIDES, M.D. *Assistant in Physiology*
M.D., Washington University, 1921. Interne, Barnes Hospital, 1921.

Barnes Hospital

FREDERICK AUGUSTUS JOSTES, M.D. *Assistant in Surgery*
B.S., Washington University, 1918; M.D., 1920. Interne, Barnes Hos-
pital, 1920-21. *Assistant Resident Surgeon, Barnes Hospital.*

Barnes Hospital

BESS LUCILE LLOYD, B.S. *Assistant in Anatomy*
B.S., Northwestern University, 1921.

4537 Forest Park Boulevard

LESLIE HERMAN DUNHAM, M.D. *Assistant in Surgery*
(*Radiology*)

A.B., University of Missouri, 1916; M.D., St. Louis University, 1918.
Interne, St. Louis City Hospital, 1918, and Los Angeles County Hospital,
1919. *Assistant Roentgenologist to Barnes Hospital.*

4339 Olive Street

JOHN BLASDEL SHAPLEIGH, M.D. . . . *Clinical Professor of Otology*

A.B., Washington University, 1878; M.D., St. Louis Medical College,
1881; Interne, St. Louis City Hospital, 1881-82; Interne, Female Hos-
pital, 1882-83. Lecturer on Diseases of the Ear, 1886-90, and Clinical
Professor, Diseases of the Ear, 1890-95, St. Louis Medical College; Dean
of the Medical Faculty, Medical Department of Washington University,
1901-02; Professor of Otology, St. Louis Medical College and Washington
University Medical School, 1895-1912. Member of the Hospital Board of
the City of St. Louis, 1910-12; Member of the Medical Staff of St. Luke's
Hospital, and Barnard Free Skin and Cancer Hospital. *Otologist to the*
the Barnes Hospital, St. Louis Children's Hospital, and the Washington
University Dispensary.

Humboldt Building

HENRY SCHWARZ, M.D. *Professor Emeritus of Obstetrics
and Gynecology*

M.D., St. Louis Medical College, 1879, and University of Giessen, 1880; Resident Physician, Recurrent Fever Hospital, Giessen, 1879-80; Assistant Physician and Tutor, Department of Obstetrics, University of Giessen, 1880-81; and University of Heidelberg, 1881-88. Clinical Lecturer on Gynecology, 1886-89, and Clinical Professor of Gynecology, 1889-99, St. Louis Medical College; Professor of Obstetrics, 1899-1908, Professor of Obstetrics and Gynecology, 1908-12, and Clinical Professor of Obstetrics, 1912-21, Washington University School of Medicine; Obstetrician in Chief to the Barnes Hospital and the Washington University Dispensary, 1915-21; Consulting Surgeon, St. Louis City Hospital, 1914-21. *Consultant in Obstetrics to the Barnes Hospital.*

440 N. Newstead Avenue

PAUL YOER TUPPER, M.D. *Clinical Professor of Surgery*

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

Wall Building

FRANCIS RHODES FRY, M.D. . . . *Professor Emeritus of Neurology*

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 Sanitarium, and of the Consulting Staff of the Jewish Hospital and of St. John's Hospital.

Humboldt Building

HARVEY GILMER MUDD, M.D. . . . *Clinical Professor of Surgery*

M.D., St. Louis Medical College, 1881; Interne, St. Louis City Hospital and Female Hospital, 1881-82. Demonstrator of Anatomy, Lecturer on Osteology and Professor of Osteology and Regional Anatomy, 1888-99, Professor of Fractures and Dislocations and Clinical Surgery, 1899, St. Louis Medical College. Surgeon and Chief of Staff, St. Luke's Hospital; Surgeon to the Barnard Free Skin and Cancer Hospital.

Humboldt Building

GEORGE MARVINE TUTTLE, M.D. *Clinical Professor of Pediatrics*

A.B., Columbia University, 1888, and M.D., 1891; Interne, St. Luke's Hospital, New York, and New York Nursery and Child's Hospital, 1892-94. Professor of Therapeutics, Washington University Medical School, 1899-1908. 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, and Visiting Physician to the Infectious Disease 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.*

Humboldt Building

ARTHUR EUGENE EWING, M.D. *Professor Emeritus of Ophthalmology*

A.B., Dartmouth College, 1878; M.D., St. Louis Medical College, 1883; A.M., Washington University, 1912. Clinical Lecturer on Ophthalmology, St. Louis Medical College, 1895; Clinical Lecturer on Diseases of the Eye, 1888-1902, Clinical Professor of Diseases of the Eye, 1902-08, Professor of Clinical Ophthalmology, 1908-12, and Clinical Professor of Ophthalmology, 1912-21, Washington University School of Medicine. Ophthalmologist to the Barnes Hospital and the St. Louis Children's Hospital, and Chief of the Ophthalmological Clinic, Washington University Dispensary, 1915-21. Member of Staff of St. Luke's Hospital and of Barnard Free Skin and Cancer Hospital.

Metropolitan Building

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 Clinical Medicine and Urinology, 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. *Laryngolo-*

gist to the Barnes Hospital, the St. Louis Children's Hospital, and the Washington University Dispensary.

3542 Washington Avenue

MARTIN FEENEY ENGMAN, M.D. *Clinical Professor of Dermatology*

M.D., University of New York, 1891; Interne, New York Skin and Cancer Hospital and Gouverneur Hospital, New York, 1891-93. Lecturer on Dermatology, New York Post Graduate Medical School, 1894; Lecturer on Dermatology, St. Louis University, 1910-12. Assistant in Skin Department, Demilt Dispensary, and Vanderbilt Clinic, New York, 1894. Member of the Hospital Board, City of St. Louis, 1912; Visiting Physician, St. Louis City Hospital, 1914-21; President of the Medical Board, Barnard Free Skin and Cancer Hospital. *Dermatologist to the Barnes Hospital and the St. Louis Children's Hospital, and Dermatologist in Chief to the Washington University Dispensary.*

Wall Building

BORDEN SMITH VEEDER, M.D. . . . *Professor of Clinical Pediatrics*

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

Humboldt Building

SIDNEY ISAAC SCHWAB, M.D. . . . *Professor of Clinical Neurology*

M.D., Harvard University, 1896. Professor of Nervous and Mental Diseases, St. Louis University, 1904-12; Non-resident Lecturer on Nervous and Mental Diseases, University of Missouri School of Medicine, 1909-10; Associate in Neurology, and Associate Professor of Clinical Neurology, Washington University Medical School, 1913-19. Visiting Neurologist to the St. Louis City Hospital and Sanitarium, 1909-13; Neurologist to the Jewish Hospital. *Neurologist to the Barnes Hospital and the St. Louis Children's Hospital; Chief of the Neurological Clinic, Washington University Dispensary, and Consulting Physician, St. Louis City Sanitarium.*

Humboldt Building

ERNEST SACHS, M.D. . . . *Professor of Clinical Neurological Surgery*

A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904; Interne, Mt. Sinai Hospital, New York, 1904-07; Clinical Clerk, National

Hospital, London, 1908. 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. Associate Surgeon in Charge of Neurological Surgery, Jewish Hospital. *Associate Surgeon to the Barnes Hospital and the St. Louis Children's Hospital; Surgeon to Out Patients, Washington University Dispensary; Consulting Surgeon, St. Louis City Sanitarium.*

97 Arundel Place

MAJOR GABRIEL SEELIG, M.D. *Professor of Clinical Surgery*

A.B., Harvard University, 1896; M.D., Columbia University, 1900; Interne and Resident Surgeon, Mount Sinai Hospital, New York City, 1900-03; Instructor, Assistant Professor, and Professor of Surgery, St. Louis University School of Medicine, 1904-19. Surgeon to the Jewish Hospital.

University Club Building

HARRY STURGEON CROSSEN, M.D. *Clinical Professor of Gynecology*

M.D., St. Louis Medical College, 1892; Interne, Senior Assistant, and Chief Assistant, St. Louis City Hospital, 1892-95; Superintendent and Surgeon in Charge, St. Louis Female Hospital, 1895-99; Clinical Assistant, Surgeon to Out Patients, and Chief of Gynecologic Dispensary, Washington University Hospital, 1901-11; Chairman of the Gynecological Staff of the St. Louis City Hospitals, 1910-12; Associate in Gynecology and in Clinical Gynecology, Washington University Medical School, 1912-21. Gynecologist, St. Luke's Hospital; Consulting Gynecologist, Jewish Hospital, St. John's Hospital, Bethesda Hospital, and St. Louis Maternity Hospital. *Gynecologist to the Barnes Hospital, and Gynecologist in Chief to the Washington University Dispensary.*

Metropolitan Building

WILLIAM EWING SHAHAN, M.D. *Professor of Clinical Ophthalmology*

A.B., Washington University, 1901; M.D., 1904; A.M., 1912. Instructor in Chemistry, 1903, Assistant in Ophthalmology, 1914-17, Instructor and Associate in Clinical Ophthalmology, 1917-21, Washington University Medical School. *Ophthalmologist to the Barnes Hospital and the St. Louis Children's Hospital, and Chief of the Ophthalmological Clinic, Washington University Dispensary.*

Metropolitan Building

ALBERT ERNEST TAUSSIG, M.D. *Associate Professor of Clinical Medicine*

A.B., Harvard University, 1891; M.D., St. Louis Medical College, 1894; Interne, St. Louis City Hospital, 1894-95; Professor of Physiology, 1909, Clinical Professor of Medicine, 1910-12, and Associate in Medicine, 1912-14, Washington University Medical School; Visiting Physician, St. Louis City Hospital, 1914-21; Physician to the Jewish Hospital. *Assistant Physician to the Barnes Hospital.*

3519 Washington Avenue

MEYER WIENER, M.D. *Associate Professor of Clinical Ophthalmology*

M.D., Missouri Medical College, 1896; Interne, St. Louis City Hospital, 1896-97. Visiting Surgeon, St. Louis City Hospital, 1914-21; 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. *Assistant Ophthalmologist to the Barnes and the St. Louis Children's Hospitals, and Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

JOHN ROBERTS CAULK, M.D. *Associate Professor of Clinical Genito-Urinary Surgery*

A.B., St. John's College, 1901, and A.M., 1912; M.D., Johns Hopkins Medical School, 1906; Interne and Second Assistant Resident Physician, Union Protestant Infirmary, Baltimore, 1906-07; Assistant Resident Surgeon, Johns Hopkins Hospital, 1908-10. Instructor and Associate in Genito-Urinary Surgery, Washington University Medical School, 1911-21. Genito-Urinary Surgeon to St. Luke's Hospital. *Assistant Surgeon to the Barnes Hospital, Urologist to the St. Louis Children's Hospital, and Chief of the Clinic for Genito-Urinary Surgery, Washington University Dispensary.*

University Club Building

WILLARD BARTLETT, M.D. *Associate in Clinical Surgery*

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

Metropolitan Building

VILRAY PAPIN BLAIR, M.D. *Associate in Clinical Surgery*

A.M., Christian Brothers College, 1890; M.D., St. Louis Medical College, 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 Barnes Hospital and the St. Louis Children's Hospital.*

Metropolitan Building

GEORGE GELLHORN, 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; Consulting Obstetrician to St. Louis Maternity Hospital; Consulting Gynecologist to St. John's Hospital. *Assistant Gynecologist to the Barnes Hospital, and Visiting Surgeon, St. Louis City 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. *Assistant Gynecologist to the Barnes Hospital, and Visiting Surgeon, St. Louis City Hospital.*

3519 Washington Avenue

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

Humboldt 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.*

3701 Westminster Place

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

4918 Forest Park Boulevard

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 and the St. Louis Children's Hospitals, and Chief of the Surgical Clinic, Washington University Dispensary.*

Humboldt Building

LELAND BARTON ALFORD, M.D. *Associate in Clinical Neurology*

A.B., University of Missouri, 1908; M.D., Washington University, 1912. Acting Pathologist and Research Officer, Monson State Hospital, Palmer, Mass., 1910-11; Interne, Telfair Hospital, Savannah, 1912. Assistant in Pathology, 1912-14, and Instructor in Neurology, 1914-17, Washington University Medical School. *Assistant Neurologist to the Barnes Hospital; Physician to Out Patients, Washington University Dispensary; Visiting Physician, St. Louis City Hospital and City Sanitarium.*

3542 Washington Avenue

WILLIAM FREDERIC HARDY, M.D. *Associate in Clinical Ophthalmology*

M.D., Washington University, 1901; Interne, St. Louis City Hospital, 1901-02. Assistant and Instructor in Clinical Ophthalmology, Washing-

ton University School of Medicine, 1917-20; Visiting Surgeon to the St. Louis City Hospital, 1918-21. *Assistant Ophthalmologist to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

WILLIAM HARWOOD OLMSTED, M.D. *Associate in Clinical Medicine*

B.S., Coe College, 1909; M.D., Johns Hopkins University, 1918; Interne, Washington University Hospital, 1913-14. *Assistant Resident Physician, Barnes Hospital, 1914-17. Assistant Physician to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.*

Lister Building

JAMES ARCHER O'REILLY, M.D. *Associate 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; Visiting Surgeon, St. Louis City Hospital, 1914-21. Orthopedic Surgeon to St. John's Hospital, Rebekah Hospital, and Mt. St. Rose Hospital. Assistant Surgeon to the Barnes and the St. Louis Children's Hospitals; Surgeon to Out Patients, Washington University Dispensary.*

3534 Washington Avenue

HARRY WEBSTER LYMAN, M.D. *Associate in Clinical Otolology*

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 Otolologist, 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 Otolology, 1914-16, and Instructor in Clinical Otolology, 1916-20, Washington University Medical School. Visiting Consultant in Diseases of the Ear, Nose, and Throat, U. S. Public Health Service Hospital No. 35. Assistant Otolologist to the Barnes Hospital and to the St. Louis Children's Hospital, and Chief of Otolological Clinic, Washington University Dispensary.*

Carleton Building

HUGH McCULLOCH, M.D. *Associate in Clinical Pediatrics*

A.B., University of Arkansas, 1908; M.D., Johns Hopkins University, 1912; Resident House Officer, Washington University Hospital, 1912-13;

Resident Physician, Washington University and Barnes Hospitals, 1912-15. Assistant in Medicine, 1913-15, Assistant and Instructor in Pediatrics, 1915-19, and Instructor in Clinical Pediatrics, 1919-21, Washington University School of Medicine. *Assistant Physician, St. Louis Children's Hospital, and Physician to Out Patients, Washington University Dispensary.*

University Club Building

THEODORE C. HEMPELMANN, M.D. *Associate 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; Assistant and Instructor in Pediatrics, 1913-17, and Instructor in Clinical Pediatrics, 1917-21, Washington University School of Medicine. Pediatrician to the Deaconess Hospital. *Associate Physician to the St. Louis Children's Hospital; Physician to Out Patients, Washington University Dispensary, and Visiting Physician, St. Louis City Hospital and Infectious Disease Hospital.*

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, and St. Louis Mullanphy Hospital, 1911-19. 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 and Rhinology*

M.D., St. Louis Medical College, 1896. Interne, St. Louis City Hospital and Female Hospital, 1896-97. Assistant Physician, St. Louis Insane Asylum, 1897-98; Clinical Instructor in Laryngology, Washington University Medical School, 1906-11; Clinical Assistant, Surgeon to Out Patients, and Chief of Laryngological Out Patient Clinic, Washington University Hospital, 1907-14; Assistant Laryngologist to the Barnes Hospital, 1915-20; Visiting Surgeon, St. Louis City Hospital, 1914-21; Otologist and Laryngologist to St. Louis Mullanphy Hospital and Bethesda Hospital; Laryngologist to St. Louis Maternity 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, 1914-20; Attending Physician, Barnard Free Skin and Cancer Hospital; Dermatologist, Missouri Pacific Railway Hospital. *Assistant Dermatologist to the Barnes Hospital and the St. Louis Children's 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; Visiting Physician, St. Louis City Hospital, 1914-21; Associate Physician to the Jewish Hospital; Consulting Physician, St. Louis Maternity 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. *Associate Obstetrician to the Barnes Hospital and Chief of the Obstetrical Clinic, Washington University Dispensary.*

Wall 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; Visiting Physician, St. Louis City Hospital, 1917-21. Associate Physician, Jewish Hospital; Consulting Physician, St. John's Hospital. *Physician to Out Patients, Washington University Dispensary.*

3519 Washington Avenue

ADRIEN 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 School of Medicine; Active Pediatrician, St. Louis Maternity Hospital. *Assistant Physician, St. Louis Children's Hospital; Physician to Out Patients, Washington University Dispensary, and Visiting Physician, St. Louis City Hospital.*

University Club Building

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

M.D., St. Louis Medical College, 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, 1900-18; Visiting Physician, Deaconess Hospital.

Metropolitan 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 and to the Jewish Hospital. *Physician to Out Patients, Washington University Dispensary.*

Metropolitan Building

WILLIAM MORGAN CASE BRYAN, M.D.*Instructor in Clinical Laryngology and Rhinology*

A.B., Washington University, 1897; M.S., University of Michigan, 1898; M.D., Johns Hopkins University, 1902; Interne, German Hospital, 1902-04. Instructor, Ear, Nose and Throat Diseases, St. Louis University, 1908-16; Assistant in Clinical Laryngology and Rhinology, Washington University School of Medicine, 1917-19; Chief of Laryngological Clinic, Washington University Dispensary, 1919-21; Consultant in Oto-Laryngology, Alexian Brothers Hospital and St. John's Hospital. *Assistant Laryngologist to the Barnes Hospital, and Surgeon to Out Patients, 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; Physician to Out Patients, Washington University Dispensary, 1919-20. Assistant in Clinical Medicine, Washington University School of Medicine, 1909-19. Visiting Physician, St. Luke's Hospital. *Assistant Physician to the Barnes Hospital, and Visiting Physician, St. Louis City Hospital.*

Humboldt Building

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 Resident Physician and Resident Physician, Barnes Hospital, 1914-17; Assistant in Medicine, Washington University Medical School, 1915-17. *Assistant Physician to the Barnes Hospital, and Visiting Physician, St. Louis City Hospital.*

University Club Building

EDWIN PARTRIDGE LEHMAN, M.D. .*Instructor in Clinical Surgery*

A.B., Williams College, 1910; M.D., Harvard University, 1914; Interne, Peter Bent Brigham Hospital, 1914-15. Assistant Resident Surgeon, Barnes Hospital, 1915-16, and Resident Surgeon, 1919-20. Assistant and Instructor in Surgery, Washington University School of Medicine, 1916-21. *Surgeon to Out Patients, Washington University Dispensary, and Visiting Surgeon, St. Louis City Hospital.*

Lister Building

RICHARD SIMON WEISS, M.D. .*Instructor in Clinical Dermatology*

M.D., Washington University, 1909; Interne, St. Louis City Hospital, 1909-10. Visiting Physician, St. Louis City Hospital, 1914-15; Visiting Physician, City Sanitarium and Isolation Hospital, St. Louis; Dermatologist to Lutheran Hospital. *Physician to Out Patients, Washington University Dispensary, and Visiting Physician, St. Louis City Hospital.*

Wall Building

ISAAC DEE KELLEY, JR., M.D. . . .*Instructor in Clinical Otolaryngology*

B.S., St. Louis University, 1918, 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; Assistant in Clinical Otolaryngology, Washington University School of Medicine, 1919-20. Consulting Oto-

Laryngologist, St. Louis City Hospital, 1913-14; Oto-Laryngologist, St. Mary's Infirmary, 1913-20. *Assistant Otologist to the Barnes Hospital; Surgeon to Out Patients, Washington University Dispensary; Visiting Surgeon, St. Louis City Hospital.*

Humboldt Building

CHARLES ALLEN STONE, M.D. *Instructor in Clinical Orthopedic Surgery*

B.S., Blackburn College, 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, 1914-21; Orthopedic Surgeon to St. Louis Mullanphy Hospital; Consultant in Orthopedic Surgery to U. S. Public Health Hospital No. 35. *Clinical Assistant in Orthopedic Surgery to St. Louis Children's Hospital; Surgeon to Out Patients, Washington University Dispensary.*

3534 Washington Avenue

WARREN ROBERT RAINEY, M.D. *Instructor in Clinical Surgery*

M.D., Northwestern University Medical School, 1910. Interne and Resident, Mercy Hospital, Chicago, 1910-13. *Clinical Assistant to the Barnes Hospital and the St. Louis Children's Hospital; Surgeon to Out Patients, Washington University Dispensary, and Visiting Surgeon, St. Louis City Hospital.*

University Club Building

QUITMAN UNDERWOOD NEWELL, M.D. *Instructor in Clinical Gynecology*

M.D., University of Alabama, 1911; Interne, Southern Infirmary, Mobile, 1911; House Officer, 1911-12, and Resident Obstetrician and Gynecologist, 1912-14, Washington University Hospital; Assistant in Obstetrics and in Clinical Obstetrics, Washington University School of Medicine, 1914-21; Surgeon to Out Patients, Washington University Dispensary, 1914-21; Obstetrician, St. Louis Maternity Hospital. *Clinical Assistant to the Barnes Hospital, and Chief of the Gynecological Clinic, Washington University Dispensary.*

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MILLARD FILLMORE ARBUCKLE, M.D. *Instructor in Clinical Laryngology and Rhinology, and Assistant in Clinical Otology*

M.D., Washington University, 1909; Resident Physician, St. Louis Mullanphy Hospital, 1909-10. Assistant in Clinical Laryngology and

Rhinology, Washington University School of Medicine, 1910-21. *Assistant Laryngologist to the Barnes and St. Louis Children's Hospitals, and Chief of the Laryngological Clinic, Washington University Dispensary.*

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LAWRENCE TYLER POST, M.D. . . . *Instructor in Clinical Ophthalmology*

A.B., Yale University, 1909; M.D., Johns Hopkins University, 1918; Interne, Johns Hopkins Hospital, 1918-14. Associate in Surgery, South Baltimore Eye, Ear, Nose, and Throat Hospital, 1914-15; Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1919-21. *Clinical Assistant to the Barnes Hospital; Assistant Ophthalmologist, St. Louis Children's Hospital; and Surgeon to Out Patients, Washington University Dispensary.*

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MARTIN HAYWARD POST, M.D. *Instructor in Clinical Ophthalmology*

A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912; Interne, St. Louis City Hospital, 1912-18; Assistant Ophthalmologist, St. Louis Children's Hospital, 1918-14; Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1919-21; Member of Staff, St. Luke's Hospital. *Surgeon to Out Patients, Washington University Dispensary, and Visiting Surgeon, St. Louis City Hospital.*

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FREDERICK OSCAR SCHWARTZ, M.D. *Instructor in Clinical Ophthalmology*

M.D., Washington University, 1910. Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1919-21. Consulting Oculist, St. Anthony's Hospital. *Clinical Assistant to the Barnes Hospital; Surgeon to Out Patients, Washington University Dispensary; and Visiting Surgeon, St. Louis City Hospital.*

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MAX WILLIAM JACOBS, M.D. *Instructor 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, 1920-21; Assistant in Clinical Ophthalmology, Washington University School of Medicine, 1920-21. Assistant in Ophthalmology, Jewish Hospital; Visiting Oculist, St. Louis City Sanitarium. *Clinical Assistant to the Barnes Hospital;*

Surgeon to Out Patients, Washington University Dispensary; and Visiting Surgeon, St. Louis City Hospital.

Carleton Building

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; Surgeon to Out Patients, Washington University Dispensary, 1919-21. *Assistant Obstetrician to the Barnes Hospital.*

3153 Longfellow Boulevard

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; Physician to Out Patients, Washington University Dispensary, 1915-20; Pediatricist, St. Louis Mullanphy Hospital; Visiting Pediatrician, St. Louis Lutheran Hospital. *Visiting Physician, Infectious Disease Hospital.*

Wall Building

WILLIAM MURRAY ROBERTSON, M.D. *Assistant in Clinical Genito-Urinary 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 Genito-Urinary 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; Surgeon to Out Patients, Washington University Dispensary, 1914-20. Consultant in Genito-Urinary Surgery to the U. S. Public Health Service Hospital No. 35. *Visiting Surgeon, St. Louis City Hospital.*

University Club Building

JOSEPH WILLIAM LARIMORE, M.D. *Assistant in Clinical Medicine*

A.B., DePauw University, 1903; M.D., Washington University, 1913; Interne, Washington University Hospital, 1913-14. *Assistant Roentgenologist to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.*

University Club Building

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; Assistant Phy-*

sician to the Barnes Hospital, and Physician to Out Patients, Washington University Dispensary.

Humboldt Building

ELLIS FISCHER, 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; Consulting Surgeon, St. Anthony's Hospital. *Visiting Surgeon, St. Louis City Hospital.*

Metropolitan Building

RALEIGH K. ANDREWS, M.D. *Assistant in Clinical Medicine*

B.S., University of Nebraska, 1915; M.D., Washington University, 1916. Interne, St. Louis Children's Hospital, 1916-17; Assistant Resident and Resident Physician, Barnes Hospital, 1917-19. Physician to Out Patients, Washington University Dispensary, 1920. Visiting Physician, St. Louis City Hospital, 1920-21.

Wall Building

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

FRANK POWELL McNALLEY, M.D. *Assistant in Clinical Obstetrics*

B.S., Washington University, 1915; M.D., 1917. Interne, 1917-18, and Resident Obstetrician and Gynecologist, 1918-20, Barnes Hospital. *Clinical Assistant to the Barnes Hospital, and Obstetrician to Out Patients, Washington University Dispensary.*

Wall Building

HARRY GUS GREDITZER, M.D. *Assistant in Clinical Genito-Urinary Surgery*

M.D., Washington University, 1912; Interne, Washington University Hospital, 1912-13. Assistant Surgeon to Out Patients, Washington University Dispensary, 1913-17. *Surgeon to Out Patients, Washington University Dispensary.*

University Club Building

MAURICE JULIUS LONSWAY, M.D. . . . *Assistant in Clinical Pediatrics*

B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914. Interne, Washington University Hospital, 1914-15; Resident Physician, St. Louis Children's Hospital, 1917-18. *Assistant Physician to the St. Louis Children's Hospital, and Physician to Out Patients, Washington University Dispensary.*

Wall Building

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; Chairman, St. Louis City Hospital Visiting Staff, 1912-14. Acting Professor of Physiology, Washington University Dental School, 1917-18. *Visiting Physician, St. Louis City Hospital.*

Metropolitan 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.*

Humboldt Building

FRANK DE VORE GORHAM, M.D. . . . *Assistant in Clinical Medicine*

A.B., Indiana University, 1910; M.D., Washington University, 1912; Interne, Washington University Hospital, 1912-13; Volunteer 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, Frankfurt A. M., Germany, 1916; Visiting Physician, St. Luke's Hospital and Bethesda Hospital. *Physician to Out Patients, Washington University Dispensary.*

Lister Building

ADOLPH MITCHELL FRANK, M.D. . . . *Assistant in Clinical Medicine*

M.D., University of Illinois, 1913; Interne, German Hospital, Chicago, 1913-14. *Physician to Out Patients, Washington University Dispensary.*

Carleton Building

EUGENE ROBERT VAN METER, M.D. *Assistant in Clinical
Laryngology and Rhinology*

M.D., Washington University, 1905. *Assistant Laryngologist to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

University Club Building

JOSEPH EDGAR STEWART, M.D. *Assistant in Clinical Orthopedic
Surgery*

M.D., University of Pennsylvania, 1914. *Assistant Surgeon to Out Patients, Washington University Dispensary, 1915-20. Clinical Assistant in Orthopedic Surgery to the Barnes Hospital, and Surgeon to Out Patients, Washington University Dispensary.*

University Club Building

JAMES LEWALD, M.D. *Assistant in Clinical Psychiatry*

M.D., Washington University, 1911; *Interne, St. Louis City Hospital, 1911-12. Assistant Physician, St. Louis City Sanitarium, 1912-14; Assistant Superintendent, 1914-.*

5400 Arsenal Street

ARTHUR WALTER PROETZ, M.D. *Assistant in Clinical Laryngology and Rhinology, and in Clinical Otology*

A.B., Washington University, 1910, and M.D., 1912. *Interne and Resident Assistant, St. Louis City Hospital, 1912-14; Assistant Surgeon to Out Patients in Otology, Washington University Dispensary, 1916-21; Assistant, Out Patient Department, St. Louis Mullanphy Hospital. Surgeon to Out Patients, Washington University Dispensary.*

University Club Building

PARK JERAULD WHITE, JR., M.D. *Assistant in Clinical Pediatrics*

A.B., Harvard University, 1913; M.D., Columbia University, 1917. *Interne, New York Hospital, 1917-18; Assistant Physician to Out Patients, Washington University Dispensary, 1919-21. Assistant Physician, St. Louis Children's Hospital, and Physician to Out Patients, Washington University Dispensary.*

5870 Bartmer Avenue

DALTON KEATS ROSE, M.D. *Assistant in Clinical Genito-Urinary
Surgery*

M.D., Washington University, 1915. *Interne and Assistant Resident, Barnes Hospital, 1915-18; Assistant Surgeon to Out Patients, Washing-*

ton University Dispensary, 1919-21. *Surgeon to Out Patients, Washington University Dispensary.*

Wall Building

GROVES BLAKE SMITH, M.D. . . . *Assistant in Clinical Neurology*

M.D., Columbia University, 1916. Interne, Bellevue Hospital, 1916-17. *Physician to Out Patients, Washington University Dispensary.*

Godfrey, Illinois

HERMAN BENJAMIN MILLER, M.D. *Assistant in Clinical Laryngology and Rhinology*

M.D., Washington University, 1901. Interne, St. Louis City Hospital, 1901-02; Assistant Physician, St. Louis City Sanitarium, 1902-04; Interne, General Hospital, Vienna, 1907-09. *Surgeon to Out Patients, Washington University Dispensary.*

Metropolitan Building

SAMUEL FRANK ABRAMS, M.D. . . . *Assistant in Clinical Obstetrics*

B.S., Washington University, 1915; M.D., 1917. Interne, 1917-18, and Assistant Resident, 1918, Barnes Hospital; Assistant Resident, St. Louis City Hospital, 1919. Assistant in Gynecology, Jewish Hospital. *Obstetrician to Out Patients, Washington University Dispensary, and Visiting Obstetrician, St. Louis City Hospital.*

University Club Building

EDWARD LEE DORSETT, M.D. . . . *Assistant in Clinical Obstetrics*

M.D., St. Louis University, 1906. Interne, St. Louis City Hospital, 1906-07; Assistant and Instructor in Obstetrics and Gynecology, St. Louis University School of Medicine, 1908-16. Gynecologist and Obstetrician, Missouri Baptist Sanitarium and Evangelical Deaconess Hospital. *Obstetrician to Out Patients, Washington University, and Visiting Obstetrician, St. Louis City Hospital.*

University Club Building

REINHARD ERNEST WOBUS, M.D. *Assistant in Clinical Gynecology*

M.D., Washington University, 1905. Roentgenologist, Washington University Hospital, 1905-06; Assistant in Clinical Gynecology, Washington University Hospital Dispensary, 1906-12; Associate in Gynecology, Barnard Free Skin and Cancer Hospital, 1910-13; Assistant in Surgery,

Jewish Hospital Dispensary, 1916-18; Visiting Surgeon, St. Louis City Hospital, 1917-21.

Metropolitan Building

BENNETT YOUNG ALVIS, M.D. *Assistant in Clinical Ophthalmology*

B.S., St. Louis University, 1916; M.D., 1918. Assistant in Anatomy, St. Louis University, 1916-18; Research Fellow and Assistant in Surgery, Washington University School of Medicine, 1918-20. *Surgeon to Out Patients, Washington University Dispensary.*

Carleton Building

JOHN RUSSELL VAUGHAN, M.D. *Assistant in Clinical Gynecological Surgery*

M.D., Washington University, 1910. Interne, Washington University Hospital, 1910-11. *Surgeon to Out Patients, Washington University Dispensary.*

University Club Building

LUX HUGO BOCK, M.D. *Assistant in Clinical Gynecological Surgery*

M.D., Washington University, 1915. Interne, Barnes Hospital, 1915-16; Physician, St. Louis City Dispensary, 1916-17; Physician, St. Louis City Jail, 1917; Receiving Room Physician, St. Louis City Hospital, 1919-21. *Surgeon to Out Patients, Washington University Dispensary.*

2208 S. Jefferson Avenue

AMALIE MARIE NAPIER, M.D. *Assistant in Clinical Ophthalmology*

M.D., Barnes Medical College, 1908. Volunteer Assistant Surgeon, Eye Clinic, and Service, Ancon Hospital, Canal Zone, 1909-15; Assistant Surgeon to Out Patients, Washington University Dispensary, 1915-21. *Surgeon to Out Patients, Washington University Dispensary.*

3158 Ohio Avenue

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Otto H. Schwarz, M.D.	Obstetrician in Chief
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Joseph Erlanger, M.D.	Physiologist
Philip A. Shaffer, Ph.D.	Chemist
Robert J. Terry, M.D.	Anthropologist
Herbert S. Gasser, M.D.	Pharmacologist

Medicine

Ralph A. Kinsella, M.D.	Associate Physician
Elsworth S. Smith, M.D.	} . . Assistant Physicians
Albert E. Taussig, M.D.	
R. Walter Mills, M.D.	
Jerome E. Cook, M.D.	
Walter Fischel, M.D.	
Walter Baumgarten, M.D.	
William H. Olmsted, M.D.	
George W. Wilson, M.D.	
Drew W. Luten, M.D.	
Charles H. Eyermann, M.D.	} . . Resident Physician
Jacob J. Singer, M.D.	
Edwin H. Terrill, M.D.	
Samuel J. House, M.D.	
Donald F. Kudner, M.D.	
Alfred Goldman, M.D.	} . . Assistant Resident Physicians
Archie D. Carr, M.D.	

Samuel H. Kahn, M.D.	}	. . .	House Officers
Roland M. Klemme, M.D.			
Oliver W. Lohr, M.D.			
Howard B. Mettel, M.D.			
Clifford C. Sherburne, M.D.	}	. . .	Dentist
William B. Spotts, D.D.S.			
E. Alfred Marquard, D.D.S.			
			Assistant Dentist

Surgery

Ernest Sachs, M.D.	Associate Surgeon
Harry S. Crossen, M.D.	Gynecologist
Nathaniel Allison, M.D.	} . . Assistant Surgeons
Vilray P. Blair, M.D.	
Malvern B. Clopton, M.D.	
John R. Caulk, M.D.	
Arthur O. Fisher, M.D.	
Barney Brooks, M.D.	} . . Assistant Gynecologists
J. Archer O'Reilly, M.D.	
George Gellhorn, M.D.	
Fred J. Taussig, M.D.	} . . Clinical Assistants
Montrose T. Burrows, M.D.	
J. Edgar Stewart, M. D.	
Warren R. Rainey, M.D.	
Quitman U. Newell, M.D.	} . . Resident Surgeon
Glover H. Copher, M.D.	
Earl C. Padgett, M.D.	
Bransford L. Adelsberger, M.D.	} . . Assistant Resident Surgeons
Frederick A. Jostes, M.D.	
Joseph P. Evans, M.D.	} . . House Officers
George C. Bates, M.D.	
Grover E. Christensen, M. D.	
Warren H. Cole, M.D.	
Minas Joannides, M.D.	
Julian Y. Malone, M.D.	
William H. Probert, M.D.	
Riley M. Waller, M.D.	} . . Dentist
James A. Brown, D.D.S.	

Obstetrics

Grandison D. Royston, M.D.	. .	Associate Obstetrician
Adolph G. Schlossstein, M.D.	. .	Assistant Obstetrician
Otto St. Clair Krebs, M.D.	}	Clinical Assistants
Frank P. McNalley, M.D.		
Charles D. O'Keefe, M.D.	. .	Resident Obstetrician
Ray T. Woolsey, M.D.	}	Assistant Resident Obstetricians
Patrick H. Kennedy, M.D.		
William A. Michael, M.D.	}	House Officers
Henry C. Scholer, M.D.		
Richard Paddock, M.D.		

Pediatrics

Philip C. Jeans, M.D.	. . . .	Associate Pediatrician
Jean V. Cooke, M.D.	}	Assistant Pediatricians
Samuel W. Clausen, M.D.		
Wayne A. Rupe, M.D.		

Special Departments

John B. Shapleigh, M.D.	. . . .	Otologist
Harry W. Lyman, M.D.	}	Assistant Otologists
Isaac D. Kelley, M.D.		
William E. Shahan, M.D.	. . . .	Ophthalmologist
Meyer Wiener, M.D.	}	Assistant Ophthalmolo- gists
William F. Hardy, M.D.		
Max W. Jacobs, M.D.	}	Clinical Assistants in Ophthalmology
Lawrence Post, M.D.		
M. Hayward Post, M.D.		
Frederick O. Schwartz, M.D.	}	Laryngologist
Greenfield Sluder, M.D.		
William M. C. Bryan, M.D.		
Millard F. Arbuckle, M.D.	}	Assistant Laryngologists
Eugene R. Van Meter, 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. . . .	Physician in Charge of Hydro- and Physical- Therapeutic Depart- ment.
R. Walter Mills, M.D.	Roentgenologist
Sherwood Moore, M.D.	Roentgenologist in Charge
Joseph W. Larimore, M.D. . . .	} . . Assistant Roentgenolo- gists
Leslie H. Dunham, M.D.	

Pathology

Frank A. McJunkin, M.D.	Associate Pathologist
L. S. Newman Walsh, M.D.	Assistant Pathologist
Hiram S. Liggett, M.D.	Resident Pathologist

THE ST. LOUIS CHILDREN'S HOSPITAL

Louis H. Burlingham, M.D.	Administrator
Frances C. Daily, R.N.	Assistant Administrator
Mary M. Reynolds, R.N.	Assistant Administrator at Ridge Farm
Evarts A. Graham, M.D.	Surgeon in Chief
W. McKim Marriott, M.D.	Physician in Chief
Eugene L. Opie, M.D.	Pathologist
Joseph Erlanger, M.D.	Physiologist
Philip A. Shaffer, Ph.D.	Chemist
Robert J. Terry, M.D.	Anthropologist
Herbert S. Gasser, M.D.	Pharmacologist

Pediatrics

George M. Tuttle, M.D.	} . . Consulting Physicians
Borden S. Veeder, M.D.	
Philip C. Jeans, M.D.	} . . Associate Physicians
Theodore C. Hempelmann, M.D.	

Hugh McCulloch, M.D.	}	. . Assistant Physicians
Jean V. Cooke, M.D.		
Samuel W. Clausen, M.D.		
Adrien Bleyer, M.D.		
Maurice J. Lonsway, M.D.		
Park J. White, M.D.	}	. . Resident Physician
Wayne A. Rupe, M.D.		
Leonard T. Davidson, M.D.		
W. Roger Moore, M.D.	}	. . Assistant Resident Physicians
Rolf R. Struthers, M.D.		
Iris M. Chamberlain, M.D.	}	. . House Officers
Lester J. Evans, M.D.		
Alexis F. Hartmann, M.D.		
John C. McKitterick, M.D.		

Surgery

Ernest Sachs, M. D.	}	. . Associate Surgeons
Malvern B. Clopton, M.D.		
Nathaniel Allison, M.D.		
Vilray P. Blair, M.D.	}	. . Assistant Surgeons
Archer O'Reilly, M.D.		
Arthur O. Fisher, M.D.		
Barney Brooks, M.D.	}	. . Clinical Assistants
Warren R. Rainey, M.D.		
Charles A. Stone, M.D.		

Special Departments

John B. Shapleigh, M.D.	. . . .	Otologist
Harry W. Lyman, M.D.	. . . .	Assistant Otologist
William E. Shahan, M.D.	. . . .	Ophthalmologist
Lawrence Post, M.D.	}	. . Assistant Ophthalmologists
Meyer Wiener, M.D.		
Greenfield Sluder, M.D.	. . . .	Laryngologist
Millard F. Arbuckle, M.D.	. . . .	Assistant Laryngologist
Martin F. Engman, M.D.	. . . .	Dermatologist
William H. Mook, M.D.	. . . .	Assistant Dermatologist
Sidney I. Schwab, M.D.	. . . .	Neurologist
John R. Caulk, M.D.	. . . .	Urologist
Frank A. McJunkin, M.D.	. . . .	Associate Pathologist

Hiram S. Liggett, M.D.	Resident Pathologist
Roy C. Mallory, D.D.S.	Dentist
Virgil Loeb, M.D., D.D.S.	Stomatologist

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

George Dock, M.D.	Physician in Chief
Evarts A. Graham, M.D.	Surgeon in Chief
W. McKim Marriott, M.D.	Pediatrician in Chief
Otto H. Schwarz, M.D.	Obstetrician in Chief
Harry S. Crossen, M.D.	Gynecologist in Chief
John B. Shapleigh, M.D.	Otologist in Chief
Greenfield Sluder, M.D.	Laryngologist 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
Letty Hughes Alvis	Registrar

Medicine

George W. Wilson, M.D.	Chief of Clinic
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General Medical Division

Charles H. Eyermann, M.D.	Physician in Charge
Llewellyn Sale, M.D.	} . Physicians to Out Patients
Jerome E. Cook, M.D.	
William H. Olmsted, M.D.	
Arthur E. Strauss, M.D.	
Horace H. Shackelford, M.D.	
Anthony B. Day, M.D.	} . Assistant Physicians to Out Patients
Louis W. Schreiber, M.D.	
Lee P. Gay, M.D.	
Percy Newman, M.D.	
Maurice J. Press, M.D.	
C. Kleinschmidt, M.D.	

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 Physicians to Out Patients
Guy Simpson, M.D.	
Louis A. Brandenburger, M.D.	

Tuberculosis Division

Jacob J. Singer, M.D.	Physician in Charge
Adolph M. Frank, M.D.	Physician to Out Patients
Adelheid C. Bedal, M.D.	} . . Assistant Physicians to Out Patients
Solon Cameron, M.D.	
Andrew C. Henske, M.D.	
David Lamb, M.D.	

Surgery

Arthur O. Fisher, M.D.	Chief of Clinic
Ernest Sachs, M.D.	} . . Surgeons to Out Patients
Montrose T. Burrows, M.D.	
Barney Brooks, M.D.	
Edwin P. Lehman, M.D.	
Warren R. Rainey, M.D.	
Forest H. Staley, M.D.	} . . Assistant Surgeons to Out Patients
Henry S. Brookes, Jr., M.D.	
Jacob G. Probst, M.D.	

Obstetrics

Grandison D. Royston, M.D.	Chief of Clinic
Otto S. Krebs, M.D.	} . . Obstetricians to Out Patients
E. Lee Dorsett, M.D.	
Samuel F. Abrams, M.D.	
Frank P. McNalley, M.D.	

Gynecology

Quitman U. Newell, M.D.	Chief of Clinic
John R. Vaughn, M.D.	} . . Surgeons to Out Patients
Lux H. Bock, M.D.	
Ephraim A. Stranquist, M.D.	

Treston R. Ayars, M.D.	}	. . Assistant Surgeons to Out Patients
Harry D. Carley, M.D.		
Oscar O. Smith, M.D.		

Pediatrics

Philip C. Jeans, M.D.	Chief of Clinic
Jean V. Cooke, M.D.	Acting Chief of Clinic
Theodore C. Hempelmann, M.D.	}	. . Physicians to Out Patients
Adrien Bleyer, M.D.		
Hugh McCulloch, M.D.		
Samuel W. Clausen, M.D.		
Kirsten Uthelm, M.D.		
Maurice J. Lonsway, M.D.		
Wayne A. Rupe, M.D.		
Park J. White, M.D.	}	. . Assistant Physician to Out Patients
Samuel E. Pesetke, M.D.		

Neurology

Sidney I. Schwab, M.D.	. . . . .	Chief of Clinic
Leland B. Alford, M.D.	}	. . Physicians to Out Patients
James Lewald, M.D.		
Lewis D. Stevenson, M.D.		
Groves B. Smith, M.D.		
Berry C. Marshall, M.D.	. . . . .	Assistant Physician to Out Patients

Dermatology

William H. Mook, M.D.	Chief of Clinic
Richard S. Weiss, M.D.	}	. . Physicians to Out Patients
Adolph H. Conrad, M.D.		
William G. Coleman, M.D.	}	. . Assistant Physicians to Out Patients
William D. Davis, M.D.		
George D. Stilson, M.D.		
LeRoy F. Heimbürger, M.D.		

Orthopedic Surgery

Nathaniel Allison, M.D.	. . . . .	Chief of Clinic
J. Archer O'Reilly, M.D.	}	. . Surgeons to Out Patients
Charles A. Stone, M.D.		
J. Edgar Stewart, M.D.		
Theodore P. Brookes, M.D.	. . . . .	Assistant Surgeon to Out Patients

Ophthalmology

William E. Shahan, M.D.	. . .	Chief of Clinic
Meyer Wiener, M.D.	}	. . Surgeons to Out Patients
William F. Hardy, M.D.		
Frederick O. Schwartz, M.D.		
Lawrence Post, M.D.		
M. Hayward Post, M.D.		
Max W. Jacobs, M.D.		
Bennett Y. Alvis, M.D.		
Amalie M. Napier, M.D.	}	. . Assistant Surgeons to Out Patients
Dorcas F. Meadows, M.D.		
Leverett H. Crapp, M.D.		
Guy H. Hopkins, M.D.		

Otology

Harry W. Lyman, M.D.	. . .	Chief of Clinic
Isaac D. Kelley, M.D.	}	. . Surgeons to Out Patients
Millard F. Arbuckle, M.D.		
Arthur W. Proetz, M.D.	}	. . Assistant Surgeons to Out Patients
Charles L. Davis, M.D.		
William L. Hanson, M.D.		
Thomas P. Lawton, M.D.		
Charles A. Kelly, M.D.		
F. Clemont Howard, M.D.		

Laryngology

Millard F. Arbuckle, M.D.	. . .	Chief of Clinic
William M. C. Bryan, M.D.	}	. . Surgeons to Out Patients
Eugene R. Van Meter, M.D.		
Arthur W. Proetz, M.D.		
Herman B. Miller, M.D.	}	. . Assistant Surgeons to Out Patients
Richard J. Payne, M.D.		
Ulysses S. Short, M.D.		
Lemuel B. Short, M.D.		
Edward H. Lane, M.D.		
August Dutzi, M.D.		
William F. A. Schultz, M.D.		
Charles L. Davis, M.D.		
William L. Hanson, M.D.		
Guy Y. Briggs, M.D.		

Genito-Urinary Surgery

John R. Caulk, M.D.	Chief of Clinic
Harry G. Greditzer, M.D.	} . . Surgeons to Out Patients
Dalton K. Rose, M.D.	
Newton W. Amos, M.D.	} . . Assistant Surgeons to Out Patients
Otto J. Wilhelmi, M.D.	
Royal Tharp, M.D.	
Emmett W. McBratney, M.D.	
J. Hoy Sanford, M.D.	
George W. Belcher, M.D.	

Dentistry

E. Alfred Marquard, D.D.S. Dentist to Out Patients

WASHINGTON UNIVERSITY TRAINING SCHOOL FOR NURSES

Helen Wood, A.B., R.N.	Director of the School and Superintendent of Nurses
Leone N. Ivers, R.N.	First Assistant Superin- tendent of Nurses
Hanna Peterson, R.N.	Second Assistant and Practical Instructor
Susie A. Watson, A.B., B.S., R.N. .	Instructor
Laura Hornbach, R.N.	Assistant Superintendent of Nurses for St. Louis Children's Hospital
Marjorie Hulsizer, B.S., R.N. . . .	Instructor in Dietetics
Alice P. Maull, R.N.	Assistant Instructor

SOCIAL SERVICE

Agnes G. Deans, R.N. Director

THE ST. LOUIS CITY HOSPITAL

Visiting Physicians and Surgeons to the City Hospital* and

* Appointed by the City upon nomination by the University.

other City institutions are designated by Washington University to act as follows:

Medicine

Drew W. Luten, M.D.	Lionel S. Luton, M.D.
Walter Fischel, M.D.	Lee P. Gay, M.D.
Oliver H. Campbell, M.D.	Anthony B. Day, M.D.

Surgery

Warren R. Rainey, M.D.	Charles E. Hyndman, M.D.
Walter C. G. Kirchner, M.D.	Ellis Fischel, M.D.
Edwin P. Lehman, M.D.	

Obstetrics

E. Lee Dorsett, M.D.	Samuel F. Abrams, M.D.
----------------------	------------------------

Pediatrics

Borden S. Veeder, M.D.	Theodore C. Hempelmann, M.D.
Adrien Bleyer, M.D.	

Neurology

Leland B. Alford, M.D.

Dermatology

Richard S. Weiss, M.D.

Gynecology

George Gellhorn, M.D.	Fred J. Taussig, M.D.
Raymond M. Spivy, M.D.	

Ophthalmology

M. Hayward Post, M.D.	Frederick O. Schwartz, M.D.
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Laryngology and Otology

Isaac D. Kelley, M.D.	Vischer V. Wood, M.D.
Walter L. Johnson, M.D.	

Orthopedic Surgery

J. Edgar Stewart, M.D.	Theodore P. Brookes, M.D.
------------------------	---------------------------

Genito-Urinary Surgery

William M. Robertson, M.D. H. McClure Young, M.D.

Stomatology

James A. Brown, D.D.S.

INFECTIOUS DISEASE HOSPITAL

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

CITY SANITARIUM

Sidney I. Schwab, M.D.	. . . . . Consulting Physician
Ernest Sachs, M.D.	. . . . . Consulting Surgeon
Leland B. Alford, M.D.	. . . . . Associate Physician

STUDENTS, 1921-22

STUDENTS ATTENDING GRADUATE AND SPECIAL COURSES

Brooksher, William Riley, Jr.	Fort Smith, Ark.
A.B., Onachita Coll., '15.	
M.D., Tulane Univ., '19.	
Burr, Wayne Billingsly	Longton, Kan.
M.D., Kan. Med. Coll., '13.	
Coffey, Lee Matthew	Kaboka, Mo.
M.D., Washington Univ., '03.	
Cox, Lee	Springfield, Mo.
M.D., Mo. Med. Coll., '91.	
Dice, Henry Foster	Ridgefarm, Ill.
M.D., Mo. Med. Coll., '97.	
Evans, Edward Purdon	Milwaukee, Wis.
M.D., Rush Med. Coll., '94.	
Fleming, Forest Elroy	Los Angeles, Cal.
Fortner, Herbert Calvin	Forest Grove, Ore.
M.D., Louisville and Hospital Med. Coll., '08.	
Gardner, Albert Johnston	Orleans, Neb.
M.D., Washington Univ., '01.	
Gordon, Charles Howard	Ashland, N. H.
M.D., Bowdoin Med. Sch., '19.	
Hill, Lawrence Henry	Idabel, Okla.
M.D., Washington Univ., '07.	
Honeywell, Edna Mildred	Clayton, Mo.
Ingram, William Casey	Browning, Mo.
M.D., Vanderbilt Univ., '93.	
Johnston, Florence Dorothy	Cedar Rapids, Iowa
B.S., Coe Coll., '15.	
M.D., Univ. of Pa., '19.	
Kneale, Carl Ellsworth	St. Louis, Mo.
M.D., St. Louis Univ., '12.	
Magidson, Shepherd Joseph	St. Louis, Mo.
Mann, Frederick Philip	Valley Falls, Kan.
M.D., St. Louis Univ., '04.	
Mathae, George Herman	St. Louis, Mo.
M.D., St. Louis Univ., '09.	
McMillin, Howard Clarence	Morton, Ill.
M.D., Chicago Coll. of Med. and Surg., '07.	
McMullen, Edwin Clare	Pine Bluff, Ark.
M.D., Rush Med. Coll., '07.	
Metzner, Abraham	Cleveland, Ohio
M.D., Ohio State Univ., '12.	
Nelson, Audley Emmet	Sidney, Iowa
M.D., Jefferson Med. Coll., '97.	
Panter, Samuel Goodall	University Place, Neb.
M.D., Univ. of Neb., '86.	
M.D., Mo. Med. Coll., '06.	
Pickens, Edgar Allen	Wichita, Kan.
M.D., Ensworth Med. Coll., '08.	
Shelton, William Judson	Severance, Kan.
M.D., Ensworth Med. Coll., '06.	
Toney, Lee Egbert	Piedmont, Mo.
M.D., Univ. of Louisville, '07.	
Underwood, Ross Holland	Kansas City, Mo.
M.D., Univ. Med. Coll. of Kansas City, '13.	
Waymire, Elbert Shirk	Denver, Ind.
A.B., Ind. Univ., '08.	
M.D., Ind. Univ., '10.	
Wilson, John Hiram	Keokuk, Iowa
M.D., Keokuk Med. Coll., '07.	
Wyatt, Douglas	New Florence, Mo.
M.D., Kansas City Med. Coll., '04.	

Total, 30

FOURTH YEAR CLASS

Baum, William Wells	Shelbyville, Ill.
Bersche, Bertram Louis Jacob	Columbia, Ill.
B.S., Washington Univ., '20.	

Bohrer, Eldon Claude.....	West Plains, Mo.
A.B., Univ. of Mo., '20.	
Briggs, Alfred Poyneer.....	Dixon, Cal.
B.S., Univ. of Colo., '12.	
Cady, Lee De.....	Utica, Mo.
A.B., Univ. of Mo., '18.	
A.M., Washington Univ., '21.	
Campbell, Leon George.....	Pasadena, Cal.
Canepa, Francis John.....	St. Louis, Mo.
Chamberlain, Gilbert Lee.....	Murphysboro, Ill.
A.B., Univ. of Mo., '20.	
Chouke, Kehar Singh.....	Ludhiana, India
H.A., Agra Med. Sch., '06.	
Clay, Calvin.....	Augusta, Mo.
Cole, Carol Skinner.....	St. Louis, Mo.
B.S., Washington Univ., '21.	
Connell, John William.....	Fond du Lac, Wis.
Costen, James Bray.....	Paragould, Ark.
A.B., Univ. of Ark., '16.	
Deakin, Vinell Rogers.....	St. Louis, Mo.
Delaney, Oscar Minton.....	Wharton, N. J.
Dickson, Green Knowlton.....	Walters, Okla.
B.S., Okla. Agri. and Mech. Coll., '17.	
Dieckmann, William Joseph.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Eskeles, Irwin Herman.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Esserman, Arthur Losos.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Fenton, Ward Caldwell.....	Rocky Ford, Colo.
Fleming, Samuel Ward.....	Farmington, Mo.
Hanser, Theodore Henry.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Harper, Henry Winston, Jr.....	Austin, Tex.
A.B., Univ. of Mo., '19.	
Hofsommer, Armin Conrad.....	Breese, Ill.
Hoover, Walter Boyd.....	Trenton, Mo.
Jannopoulos, Aphrodite Maria.....	Webster Groves, Mo.
A.B., Washington Univ., '18.	
Johnson, Walfred.....	Worcester, Mass.
A.B., Univ. of S. D., '19.	
Jostad, Odmund.....	Colton, S. D.
A.B., Univ. of S. D., '20.	
Keeble, Charles Burton.....	St. Louis, Mo.
Krumm, John Frederick.....	Chicago, Ill.
B.S., Univ. of Wis., '20.	
Lasersohn, Martin.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Lohr, Curtis Henry.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Martin, Kirby Armstrong.....	Hamilton, N. D.
Maynard, Merlin Trevor-Roper Dacre.....	San José, Cal.
A.B., Leland Stanford Jr. Univ., '20.	
Norton, William Hudson.....	Troy, Mo.
A.B., Univ. of Mo., '19.	
A.M., Univ. of Mo., '21.	
Pittman, John Edward.....	Sedalla, Mo.
A.B., Univ. of Mo., '20.	
Post, Winfred Luscombe.....	Carthage, Mo.
A.B., Univ. of Mo., '20.	
Reed, Carl Henry.....	Excelsior Springs, Mo.
A.B., Univ. of Mo., '20.	
Rice, Justus Bulkley.....	St. Louis, Mo.
Schindewolf, Theodore Eecarius.....	St. Louis, Mo.
Sheldon, Paul Benedict.....	St. Louis, Mo.
A.B., Oberlin Coll., '17.	
Shrader, Eugene Lee.....	Moberly, Mo.
A.B., Univ. of Mo., '20.	
Smith, Gervais Dean.....	Walnut Grove, Mo.
Sultzman, Francis Eugene.....	Hannibal, Mo.
A.B., Univ. of Mo., '20.	
Tremain, Irl George.....	Maplewood, Mo.
Wall, Albert.....	St. Louis, Mo.
Weymann, Morie Frederick.....	St. Joseph, Mo.

Wiese, Harry William.....	St. Louis, Mo.
B.S., Washington Univ., '20.	
Wu, Chin-Sheng.....	Amoy, China
B.S., Univ. of Chicago, '20.	Total, 49

THIRD YEAR CLASS

Abel, Oliver, Jr.....	St. Louis, Mo.
Alava, Petronio Zosimo.....	Pila, Laguna, P. I.
A.B., Univ. of Mo., '21.	
Aselmeyer, Alfred John.....	Boonville, Mo.
Batts, Jett McCormick.....	St. Louis, Mo.
B.S., Washington Univ., '21.	
Becke, William George.....	St. Louis, Mo.
Berg, David Tormod.....	Helena, Mont.
Bierman, Max John.....	St. Louis, Mo.
Boyden, Alphonso Webster.....	Issaquah, Wash.
Bradford, William Leslie.....	Sedalia, Mo.
A.B., Univ. of Mo., '20.	
Breckenridge, Elmer Oesterle.....	St. Louis, Mo.
Broeder, William Hugo.....	St. Louis, Mo.
Brown, James Barrett.....	Hannibal, Mo.
Bull, Ben May.....	St. Louis Mo.
A.B., Univ. of Mo., '21.	
Coray, Quince Burt.....	Salt Lake City, Utah
A.B., Univ. of Utah, '21.	
Corson, Harold Fee.....	Springfield, Ill.
Davidoff, Isidore Zolmon.....	Milwaukee, Wis.
B.S., Univ. of Wis., '21.	
Decker, Walter Joseph.....	Elmira, N. Y.
B.S., St. John's Coll., '18.	
Deutsch, Hans.....	Vienna, Austria
Ph.B., Yale Univ., '17.	
Dredge, Thomas Joseph.....	Green Bay, Wis.
B.S., Univ. of Wis., '21.	
Duncan, Perry Emory.....	University, Miss.
B.S., Univ. of Miss., '17.	
Facultad José Maria.....	Pototan, Iloilo, P. I.
A.B., Univ. of Mo., '21.	
Felst, George Van.....	Monett, Mo.
A.B., Univ. of Mo., '20.	
Frick, John Paul.....	Kansas City, Mo.
A.B., Univ. of Kan., '20.	
Giese, Edward Bernard.....	East Grand Forks, Minn.
A.B., Univ. of N. D., '21.	
Harris, John Harold.....	Kiowa, Kan.
A.B., Southwestern Coll., '20.	
Hawklus, Thomas Lee.....	Helena, Mont.
Heideman, Milo Lawrence.....	St. Louis, Mo.
A.B., Washington Univ., '18.	
Higgins, Charles Clair.....	Huron, S. D.
Holman, Parley Leon.....	Fountain Green, Utah
A.B., Univ. of Utah, '20.	
Hyslop, Volney Butman.....	Madison, Wis.
Klinkerfuss, George Henry.....	Clayton, Mo.
A.B., Univ. of Mo., '21.	
Le Vine, Davis.....	Kansas City, Mo.
Margrave, Edmund De Lolme.....	St. Louis, Mo.
B.S., Univ. of Cal., '14.	
Marquis, Charles Edward.....	Berkeley, Cal.
Neill, Glenn G.....	Richfield, Utah
B.S., Univ. of Utah, '21.	
Ostlund, Elvira Ottilia.....	Butte, Mont.
A.B., Univ. of Wis., '20.	
A.M., Univ. of Wis., '21.	
Richards, Guy Smith.....	Pleasant Grove, Utah
B.S., Univ. of Utah, '21.	
Rothwell, William David.....	Denver, Colo.
Schlomovitz, Elias Herman.....	Milwaukee, Wis.
B.S., Univ. of Wis., '21.	
Senturia, Ben Druze.....	St. Louis, Mo.
B.S., Washington Univ., '21.	
Skelton, Neva.....	Eldorado, Ill.
B.S., McKendree Coll., '19.	
Smith, Dudley Reeves.....	Southwest City, Mo.

Smith, Leslie Albert.....	Logan, Utah
B.S., Agri. Coll. of Utah, '13.	
Snyder, Harrison Blaine.....	Honolulu, Hawaii
B.S., Univ. of Utah, '21.	
Stahl, Phineas David.....	St. Louis, Mo.
B.S., Washington Univ., '21.	
Stuebner, Roland William.....	St. Joseph, Mo.
Teel, Charles Edmond.....	Bellingham, Wash.
Thompson, John William, Jr.....	Granite City, Ill.
Trowbridge, Juel Elias.....	Salt Lake City, Utah
B.S., Univ. of Utah, '21.	
Ulmer, Walter Pierce.....	Dawson, Neb.
B.S., Western Union Coll., '19.	
Vingom, Clair Odin.....	Fairfield, Mont.
B.S., Univ. of Wis., '21.	
Webb, Paul Kingsley.....	St. Louis, Mo.
B.S., Washington Univ., '21.	
Williams, John Wood, Jr.....	Springfield, Mo.
Wilson, Kenneth Oscar.....	St. Louis, Mo.
Wimber, Thomas Charles.....	Alton, Ill.
	Total, 55

SECOND YEAR CLASS

Abbey, Frank Lincoln, Jr.....	Newton, Kan.
A.B., Univ. of Kan., '21.	
Adams, Alfred Oliver.....	West Plains, Mo.
Anderson, Charles Elliott.....	St. Louis, Mo.
Auer, Eugene Solomon.....	St. Louis, Mo.
Baskett, Roy F.....	Holton, Kan.
Beasley, Charles Henderson.....	East St. Louis, Ill.
Beckmann, Jacob William.....	St. Louis, Mo.
A.B., Univ. of Mich., '20.	
Bindbeutel, Arthur Henry.....	St. Louis, Mo.
Colgate, Cleon Edward.....	Madison, Ind.
A.B., Hanover Coll., '16.	
Cooper, Henry Sage Fenimore.....	St. Louis, Mo.
A.B., Yale Univ., '17.	
Cowgill, David Martin.....	Topeka, Kan.
B.S., Washburn Coll., '19.	
Crank, Rawser Paul.....	Greenfield, Mo.
Darrough, Lawrence Earl.....	Carbondale, Ill.
Davis, Harry Joseph.....	Topeka, Kan.
Delicate, Henry Brinkmann.....	Edwardsville, Ill.
Dyer, Martha Emily.....	St. Louis, Mo.
A.B., Washington Univ., '20.	
Efferding, Floyd Victor.....	Dubuque, Iowa
Ehrlich, Ralph Louis.....	St. Louis, Mo.
Fuson, William Arthur.....	Bogota, Ill.
Gibson, Harry Victor.....	Wichita, Kan.
Graubarth, Julian.....	Las Vegas, N. M.
Gunn, Herman Melville.....	Bloomington, Ill.
Halley, Edward Carlton.....	St. Louis, Mo.
Harris, Everett Grant.....	St. Louis, Mo.
A.B., Trinity Coll., '17.	
Holmes, Arthur Jinny.....	Webster Groves, Mo.
Irick, Carl Cuthbert.....	Hadley, Ill.
Jacoby, James Alexander.....	Burlington, Iowa
Johnson, Scott.....	St. Louis, Mo.
Jorstad, Louis Helmar.....	St. Louis, Mo.
Kaplan, Edward Emanuel.....	St. Louis, Mo.
Kenner, Howard William.....	Osage, Ark.
Knox, Lawrence Mountjoy.....	Little Rock, Ark.
A.B., Transylvania Coll., '20.	
Leuschner, Curt Ernest.....	Belleville, Ill.
Levy, Milton Lester.....	Los Angeles, Cal.
A.B., Leland Stanford Jr. Univ., '20.	
Lewis, Claud.....	Bible Grove, Ill.
Lindsey, Maude Louise.....	Iowa Park, Texas
Lipschitz, Leon.....	St. Louis, Mo.
Miller, Lloyd Chauncey.....	St. Louis, Mo.
Miller, Norman Cornelius.....	Palestine, Texas
Moranville, Benedict August.....	St. Louis, Mo.
A.B., Univ. of Mo., '21.	

Roberts, Samuel Jennings.....	De Kalb, Mo.
Rountree, Charles Ross.....	Springfield, Mo.
B.S., Drury Coll., '20.	
Satterfield, Val Beyer.....	St. Louis, Mo.
Saunders, Edward Watts.....	Seattle, Wash.
Shearer, Beryl Cecil.....	Winfield, Iowa
B.S., Parsons Coll., '20.	
Shilling, Jerome Warren.....	Los Angeles, Cal.
Sigoloff, Emanuel.....	St. Louis, Mo.
Smith, John Raymond.....	Delaware, Ohio
A.B., Ohio Wes. Univ., '18.	
Smith, Stuart Gross.....	Springfield, Ill.
Stahr, Roland Winfred.....	Topeka, Kan.
Sun, Yun Chan.....	Honan, China
A.B., Univ. of Cal., '21.	
Tedstrom, Milo Kenney.....	Pine Bluff, Ark.
Thompson, Elizabeth Ellen.....	Tarkio, Mo.
A.B., Tarkio Coll., '18.	
B.S., Tarkio Coll., '20.	
Ulrich, Henry John.....	St. Louis, Mo.
Wangelin, Evans Hugo.....	Belleville, Ill.
Weinel, Francis Gustave.....	St. Louis, Mo.
Whitener, Paul Rowland.....	St. Louis, Mo.
A.B., Univ. of Mo., '21.	
Whitney, Caroline Elizabeth.....	Boulder, Colo.
A.B., Univ. of Colo., '20.	
Whitsell, Ora Earl.....	St. Joseph, Mo.
Wood, John Andrew.....	Ashdown, Ark.
	Total, 60

FIRST YEAR CLASS

Ahlvin, Reno Arthur.....	Joliet, Ill.
Bain, Katherine.....	Columbia, Mo.
A.B., Univ. of Mo., '20.	
Barksdale, E. Hamilton.....	Slater, Mo.
Barrette, Louis Charles.....	Placerville, Cal.
A.B., Univ. of Cal., '21.	
Campbell, Walter Vaughn.....	Oskaloosa, Iowa
Carlile, Morton Nichols.....	Grand Rapids, Mich.
Crossen, Robert James.....	St. Louis, Mo.
A.B., Oberlin Coll., '21.	
Davis, Myron Woodward.....	Des Moines, Iowa
Dawson, Charles Nash.....	Beloit, Wis.
Denny, Hubert Macom.....	St. Louis, Mo.
Donahue, James Joseph.....	East St. Louis, Ill.
Drennan, George Leland.....	Virden, Ill.
A.B., Ill. Coll., '21.	
Dryden, Donovan Mitchell.....	Parsons, Kan.
Dunklin, Allaire Jennings.....	Dell, Ark.
Ebandjeff, George Georgieff.....	Madison, Ill.
El-Driny, Mohamed Hamed.....	Cairo, Egypt
Ellison, Leroy Ellis.....	Vermont, Ill.
B.S., Ill. Coll., '21.	
Erickson, Hilding Walfred.....	Joliet, Ill.
Finley, Leander.....	New Concord, Ohio
A.B., Muskingum Coll., '21.	
Fox, Ben.....	West Frankfort, Ill.
Gallant, Adolph.....	St. Louis, Mo.
Glassberg, Bertrand Younker.....	St. Louis, Mo.
Goldstein, Harry.....	Erie, Pa.
Hamm, William Gideon.....	Gainesville, Ga.
B.S., Univ. of Ga., '21.	
Harris, Harold Shelton.....	Morley, Mo.
Hart, William Eustis.....	Cumberland, Wis.
Hartman, Emil Ernst.....	Carrollton, Mo.
Hartwig, John Adam.....	St. Louis, Mo.
Herington, William Ayers.....	Green City, Mo.
Hinshaw, Charles Theron.....	Winfield, Kan.
A.B., Southwestern Coll., '21.	
Jasperson, Clarence Philip.....	Topeka, Kan.
A.B., Univ. of Ill., '21.	
Johnson, George Summers.....	Monticello, Mo.
A.B., William Jewell Coll., '21.	
Kelley, James Howard, Jr.....	Palmyra, Mo.
A.B., Westminster Coll., '19.	

Kimmel Richard Klais.....	St. Louis, Mo.
Knott, James Isaiah.....	Montrose, Colo.
Kotler, Morris John.....	Topeka, Kan.
Langenbach, Alfred Michel.....	St. Louis, Mo.
Larsen, Myron Wilbur.....	Whalan, Minn.
A.B., Luther Coll., '19.	
Leibow, Louis Manuel.....	New York, N. Y.
Levy, Jerome Sickles.....	Hot Springs, Ark.
Lunde, Alert Johannes.....	Huxley, Iowa
A.B., Luther Coll., '18.	
Margulois, Benjamin.....	St. Louis, Mo.
McCormack, Charles Goodsell.....	St. Louis, Mo.
A.B., Drury Coll., '18.	
Metz, Charles Oliver.....	St. Louis, Mo.
Moore, Loren Donovan.....	Webster Groves, Mo.
Nail, James Otho.....	Clay, Ky.
Nemours, Paul Roland.....	St. Louis, Mo.
Nesche, George Elwood.....	Oakland, Cal.
Neupert, Carl Nicholas.....	London, Wis.
Popovsky, George Naum.....	Madison, Ill.
Raines, Omer Marvin.....	Topeka, Kan.
Riddell, Orin Joseph.....	Alhambra, Cal.
Roblee, Melvin Andrew.....	St. Louis, Mo.
Roe, Allen Norman.....	St. Louis, Mo.
Rosenberger, Charles Frederick.....	East St. Louis, Ill.
Slater, Roland Adecock.....	Moline, Ill.
B.S., Eureka Coll., '21.	
Stacy, Winton T.....	Princeton, Mo.
Stickler, Ralph O.....	Green City, Mo.
B.S., Kirksville State Teachers Coll., '20.	
Thompson, David Gilmore, Jr.....	Trinidad, Colo.
Thompson, Gershom Joseph.....	Granite City, Ill.
Turner, Thomas Freeman.....	Cherry Box, Mo.
von Detten, Harold Joseph.....	Stockton, Cal.
A.B., Univ. of Cal., '20.	
Wagner, Hugo Otto.....	St. Louis, Mo.
Waugh, Charles LeRoy Albert.....	Oakland, Cal.
Wertheimer, Jeanne.....	St. Louis, Mo.
Westerman, Henry Cornelius.....	St. Louis, Mo.
Woodard, Julius Harold.....	Windsor, Mo.
Wright, Nelson Amos, Jr.....	Manito, Ill.
Zahorsky, Theodore Saunders.....	St. Louis, Mo.
Zener, Francis Bertram.....	White Salmon, Wash.
Total, 71	

SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

Graduate and Special Students.....	30
Fourth Year Class.....	49
Third Year Class.....	55
Second Year Class.....	60
First Year Class.....	71
Total, 265	

DEGREES CONFERRED

The degree of Doctor of Medicine was conferred upon the following, June 9, 1921:

- Balazs, Karl John.....St. Louis, Mo.
B.S., Washington Univ., '19.
- Blasdel, Harry Emert.....Hutchinson, Kan.
A.B., Univ. of Kan., '19.
- Bunch, Harold McKinley.....Atlanta, Mo.
A.B., Univ. of Mo., '19.
- Carr, Archie Dreyfus.....St. Louis, Mo.
B.S., Washington Univ., '18.
- Cashatt, FayeCoon 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, LouisSt. Louis, Mo.
B.S., Washington Univ., '19.
- Conklin, Tracy Roscoe, Jr.....Abilene, Kan.
B.S., Univ. of Kan., '19.
- Cooper, Dewey Hobson.....St. Louis, Mo.
- Coughlin, Albert Neville.....St. Louis, Mo.
A.B., Univ. of Mo., '19.
- Evans, Joseph Patton.....Meridian, Miss.
B.S., Univ. of Miss., '18.
- Evans, Lester J.....St. Louis, Mo.
- Gruber, Charles Merl Michael.....Lawrence, Kan.
A.B., Univ. of Kan., '11.
A.M., Univ. of Kan., '12.
Ph.D., Harvard Univ., '14.
- Haddox, Charles Hugh.....Pawnee, Okla.
A.B., Univ. of Kan., '19.
- Hartmann, Alexis Frank.....St. Louis, Mo.
B.S., Washington Univ., '19.
- Indenbaum, SamuelPhoenix, Ariz.
A.B., Univ. of Mo., '19.

- Joannides, MinasChicago, Ill.
 Kahn, Samuel Herman.....Dallas, Texas
 Kirksey, William Albert.....Morganton, N. C.
 A.B., Univ. of N. C., '13.
 Kleinschmidt, Ralph Edwin.....St. Louis, Mo.
 Klemme, Roland Metzler.....Belleville, Ill.
 Lewis, William Benjamin.....Granite City, Ill.
 Lohr, Oliver Willison.....St. Louis, Mo.
 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, Mo.
 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, RichardTerre Haute, Ind.
 Probert, William Henry.....St. Louis, Mo.
 A.B., Westminster Coll., '17.
 Pyne, Herbert Samuel, Jr.....Provo City, Utah
 Rees, Maurice Holmes.....Tarkio, Mo.
 A.B., Monmouth Coll., '04.
 A.M., Univ. of Ill., '05.
 Ph.D., Univ. of Chicago, '17.
 Reitz, Thomas Frederick.....Evansville, Ind.
 B.S., Ind. Univ., '19.
 Rusk, Harvey Schenck.....Brookfield, Mo.
 Sherburne, Clifford Clare.....Newark, Ohio
 B.S., Denison Univ., '18.
 Showman, Winfred Aaron.....Hoxie, Ark.
 A.B., Univ. of Mo., '19.
 Simpson, Eber Edward, Jr.....Oshkosh, Wis.
 B.S., Univ. of Wis., '18.

Spinzig, Edgar Walter.....	St. Louis, Mo.
B.S., Washington Univ., '19.	
Summers, Caldwell Blanford.....	Harrisonville, Mo.
Vogel, Eugene August.....	St. Louis, Mo.
A.B., Univ. of Mo., '19.	
Wise, David Clarence.....	Carthage, Mo.
A.B., Leland Stanford Jr. Univ., '18.	
Zink, Oscar Charles.....	Belleville, Ill.

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

Medical Service

Archie D. Carr	Roland M. Klemme
Samuel H. Kahn	Oliver W. Lohr
Clifford C. Sherburne	

Surgical Service

Warren H. Cole	Julian Y. Malone
Minas Joannides	William H. Probert
Riley M. Waller	

Obstetrical Service

Grover E. Christensen	William A. Michael
Joseph P. Evans	Richard Paddock

Pediatric Service

Iris M. Chamberlain	Alexis F. Hartmann
Lester J. Evans	John C. McKitterick

Pathological Service

Hiram S. Liggett

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, 917.

In 1910 the Corporation of the University, appreciating the value of the service which a medical school can give to the community, with the coöperation 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.

In 1919, the Department of Pharmacology was placed on a full university basis by an endowment for that department of three hundred thousand dollars, half of which was contributed by the General Education Board and half by 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 reception rooms, a class room, and administrative offices. The upper floors are arranged to accommodate 125 nurses.

About 70 nurses are housed in one of the buildings of the Barnes Hospital.

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, 1921) 32,137 bound volumes and receives 433 of the most important medical periodicals, selected with reference to the needs of students and investigators. Of these 387 are in complete series. Including obsolete journals, there are 467 complete sets.

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

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

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

The 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 for investigation.

The museum is combined with the class laboratories in order that it may be used for reference at all times. It comprises specimens and models of adult organs and organic systems, variations, and preparations illustrating development. During the past year a valuable collection of anatomical specimens prepared with unusual skill and care by Bohumil Hochmann has been purchased for the museum. The collection contains an extensive series of skeletons, Indian crania and other material for anthropological study, microscopical sections, embryos, and models, and materials for the study of comparative anatomy.

The Museum of Pathology contains specimens prepared and catalogued for use in the teaching of pathological anatomy. Specimens needed by any department of the School for demonstrations or lectures may be obtained from the museum under regulations similar to those in force in the Library. The Departments of Surgery and Obstetrics have aided in the collection of material suitable for the teaching of these subjects and other special departments have the opportunity to coöperate 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 proceedings 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. Physicians of St. Louis and visiting physicians are welcome.

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 leading to the medical and surgical wards, and to the private pavilion and service buildings. These buildings are of fire-proof construction.

The main entrance of the administration building opens upon a spacious rotunda. On either side of this rotunda are situated the general information office, the administrative office, the trustees' room, offices of the superintendent, the admitting office, and rooms for the physician-in-chief. The resident medical staff is housed in the second and third stories of this building. On the top floor 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 temporarily used by nurses, 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 250 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 Hospital is wired for the electrocardiograph, which is located in the Dispensary building.

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, AND THE JEWISH
HOSPITAL OF ST. LOUIS

Since December, 1914, when the Washington University Dispensary moved into its new building, all clinics have been held at this one place. The Dispensary is an organic part of the School of Medicine and is entirely controlled by the Corporation of the University through a Committee of the Medical Faculty. It acts as the out-patient clinic for the Barnes Hospital, the St. Louis Children's Hospital, and the Jewish Hospital of St. Louis. There were recorded in the Dispensary during 1920, 116,180 visits, and during 1921, 153,619 visits. The heads of the various departments in the School of Medicine control their departments in the out-patient clinic and these departments are responsible for the care of patients. All clinical facilities are available for teaching purposes, and the members of the third and fourth year classes in small sections work in these clinics under the supervision of the out-patient staff. The work of all services is facilitated by the coöperation of the Departments of Nursing and Social Service.

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

At the invitation of the authorities of the Hospital Division of the City of St. Louis, Washington University has assumed control and has become responsible for the medical care of one-half of the patients in City Hospital No. 1, 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 coöperation, it is also possible for the University to render a distinct service to the community and to the sick poor. The number of beds made available by this arrangement is approximately 500.

The general plan of organization of the Washington University units in these hospitals is the same as that in operation at the Barnes 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.

REQUIREMENTS FOR ADMISSION

Applications for admission must be made to the Registrar before July 1. Application may be filed at any time, but except under unusual circumstances, they will not be considered formally before July 1. Notification of acceptance or of non-acceptance will be sent to all candidates as soon as possible after July 1 and not later than July 15. On acceptance of the applicant, he must make a deposit of twenty-five dollars, which shall be in the hands of the Registrar within ten days after the receipt of notification of acceptance. This deposit of twenty-five dollars will be applied towards the first payment of his tuition, and will not be returnable.

Applicants for admission are required to have satisfactorily completed 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, six semester hours.
2. French or German, ten semester hours in either language.*

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

Eight semester hours following one high school unit, six semester hours following two high school units, and four semester hours following three high school units.

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

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

4. Chemistry, twelve semester hours, of which at least eight semester hours must be in general inorganic chemistry, including four semester hours of laboratory work, and at least four semester hours must be in organic chemistry. In the interpretation of this rule, work in qualitative analysis may be counted as general inorganic chemistry. The preparation in chemistry should include also quantitative analysis.

5. Biology (Zoölogy and Botany), 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.

As the size of each class is limited, it is attempted, provided there is a larger number of applicants, to select sixty of the most promising, according to the status of the college in which the applicant completed his pre-medical work, his standing in pre-medical courses, and the estimate of his fitness to undertake the study of medicine as stated in a personal letter from one of his science instructors to the Dean.

While two years of collegiate work, as in part above specified, fulfill 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 or not 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. The degree is not granted to students taking their pre-medical course elsewhere than in the College of Washington University.

PRE-MEDICAL CURRICULUM

Freshman Year

General Descriptive Chemistry.....	Chemistry 1, 6 units.
Composition and Rhetoric.....	English 1, 6 units.
Elementary French	French 2, 10 units,
or	or
Elementary German	German 2, 10 units.
General Biology	Zoölogy 1, 6 units.
Elective	———, 6 units.
Physical Education	Phys. Ed. 1,
or	or
Military Training	M. S. and T. 1.

Sophomore Year

Qualitative and Quantitative Analysis..	Chemistry 11 and 14,
	6 units.
Organic Chemistry	Chemistry 21, 6 units.
General Introduction to English Lit-	
erature	English 11, 6 units.

Advanced French	French 8, 3 units,
or	or
Advanced German	German 10, 3 units.
Elementary Physics	Physics 2, 8 units.
Embryology	Zoölogy 4, 3 units.
Physical Education	Phys. Ed. 2, ———
or	or
Military Training	M. S. and T. 2, ———

The following options and restrictions are effective:

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

(b) Students attaining a grade of B (85-95%) in French 2 or German 2 may elect some other course in place of advanced French or advanced German.

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

(d) Candidates for the B.S. degree are required to attain an average grade of average C ($77\frac{1}{2}\%$) in the required work of the Sophomore year.

2. Sixty semester hours, including the minimum requirements for admission to the School of Medicine, will be accepted for the B.S. degree, provided the candidate has attained an average grade of B (85-95%) in the courses offered.

3. Those students who do not wish to become candidates for the B.S. degree, and who do not wish to pursue the course outlined above, may elect their two years of college work in accordance with the following schedule:

<i>Freshman Year</i>	<i>Sophomore Year</i>
Chemistry 1, 6 units.	Chemistry 11 and 14, 6 units.
English 1, 6 units.	Chemistry 21, 6 units.
French 1, 6 units,	French 6, 6 units,
or	or
German 1, 6 units.	German 3, 6 units.
Zoölogy 1, 6 units.	Physics 2, 8 units.
Electives, 6 units.	Electives, 3 units.

French or German may be omitted and an elective substituted by students who show evidence on examination of a reading knowledge of the language.

ADMISSION TO ADVANCED STANDING

Applications for advanced standing must be made to the Registrar before July 1. Applications may be filed at any time, but, except under unusual circumstances, they will not be considered formally before July 1. Notification of acceptance or of non-acceptance will be sent to all candidates as soon as possible after July 1 and not later than July 15. On acceptance of the applicant, he must make a deposit of twenty-five dollars, which shall be in the hands of the Registrar within ten days after the receipt of notification of acceptance. This deposit of twenty-five dollars will be applied towards the first payment of his tuition, and will not be returnable.

Applications for advanced standing will be considered only insofar as there are vacancies in the advanced classes.

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 satisfactorily pass examinations in those subjects in the work for which they have asked credit. These examinations may be waived at the discretion of the instructor in charge of the corresponding course. The applicant must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which admission is sought.

(a) Students who have received from an approved medical school credit for courses equivalent to those of the first year of this School in anatomy, chemistry, and physiology may be admitted to the second year class without examination, but, at the discretion of instructors, may be examined in these subjects at the end of the second year. (b) Students who have received from an approved medical school credits in anatomy, chemistry, physi-

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

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

Applicants for advanced standing are required to furnish, in addition to the credentials required for admission, credentials from the medical school in which they have studied, enumerating the completed medical courses for which credit is asked and stating the number of completed years of medical work.

ADMISSION OF GRADUATES IN MEDICINE

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

special courses are being offered in medicine, surgery, and the specialties, concerning which full information will be found in that part of the catalogue devoted to Post-Graduate Instruction.

STANDING AND PROMOTION

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

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

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

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

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

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

A student who, because of poor quality of work in courses or for any other reason, is judged by the Faculty as unfit for the practice of medicine, will be required to withdraw.

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 1922-23 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.

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

WINNERS OF PRIZES AND HONORS, 1920-21

Gill Prize in Anatomy

Cleon Edward Colgate, A.B.

Gill Prize in Diseases of Children

Alexis Frank Hartmann, 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 Professor of Surgery.

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

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

MATRICULATION FEE

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

LATE REGISTRATION FEE

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

TUITION FEE

The tuition fee is \$200.00, payable in two equal instalments, at the beginning of the first trimester and on February 1. There are no laboratory fees.

DIPLOMA FEE

At the completion of the course a diploma fee of \$5.00 will be charged.

RENTAL OF MICROSCOPES

A microscope is needed by each student throughout each year in the School and is equally essential to the physician after graduation. 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 who entered 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, or at the office of the Registrar of the School of Medicine. No rebate of the tuition fee can be made for absence, whether such absence occurs at the beginning, middle, or end of the trimester, except in cases of prolonged illness certified to by a physician. Checks should be made payable to Washington University.

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 physicians or to specialists.

MEN'S DORMITORY

A dormitory building containing rooms for about sixty students is located on Forest Park Boulevard, in close proximity to Forest Park, one of the most attractive localities in the city. There is a tennis court in the rear of the building, and there are public

golf links, tennis courts and baseball grounds in Forest Park. Each room is furnished with the following articles: a bed and mattress, one pillow, one table, two chairs, one chifforobe, costumer, toilet cabinet, student's lamp, two small rugs. Each occupant must furnish his own bed covering, consisting of sheets, pillow cases, counterpanes, and blankets.

The rental of a room is \$120.00 an academic year, payable in two instalments in advance, at the beginning of the first trimester and on February 1. Reservations are made upon the express understanding that the applicant agrees to occupy the room reserved until the close of the ensuing academic year. Application for reservation should be made on a prescribed form to the Registrar of the School of Medicine, and must be accompanied by a reservation fee of \$10.00. This fee will be returned, should the room not be assigned, but it will not be refunded for any other reason. If a room is assigned, the fee will not apply on the room rent, but will be held by the University to cover losses resulting from possible damage to the room or to the furniture. Any portion not so used will be refunded.

GENERAL PLAN OF INSTRUCTION

Instruction in the School of Medicine is given to candidates for the degree of Doctor of Medicine and to graduate students who may or may not be candidates for higher degrees. Courses which are open to students in the University, not candidates for the degree of Doctor of Medicine, are described under "Courses of Instruction" in the catalogue of the College and of the Graduate School.

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. 72 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 profitably can are encouraged to take extra work in the subjects of their greatest interest. To meet this demand, suitable optional courses are offered by each department in the School.

The curriculum, covering four years, is divided into 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, pathology, and bacteriology. For this first period, the whole interest of the student is concentrated on the scientific basis of medicine, and every effort is made to train the faculty of critical and independent observation. Anatomy and biological chemistry are studied during the first year. In the last trimester

of this year, the study of physiology begins, and bacteriology is studied in preparation for work in pathology. During the first two trimesters of the second year physiology and pathology are completed; and in the last trimester of this period courses in pharmacology, physical diagnosis, medical observation, and surgical technic are introduced, 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 in the clinical subjects. The work in the out-patient departments occupies from 6 to 8 hours per week. Patients are examined by the student and treated under the direction of the attending staff. During the second half of this period, the students are assigned to the various wards of the hospitals, and each section of the class serves a full trimester in the wards of medicine, surgery, and obstetrics and pediatrics, respectively. During the second period 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 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, 1922, exclusive of examination hours:

SUBJECTS	HOURS	SUBJECTS	HOURS
Histology	252	Dermatology	44
Neurology	90	Medical Jurispru-	
Human Dissection	297	dence	22
Topographical An-		Surgery	649
atomy	72	Ophthalmology	66
Applied Anatomy	24	Otology	55
Biological Chemistry..	251	Laryngology and	
Physiology	245	Rhinology	55
Pharmacology	110	Obstetrics	154
Bacteriology	121	Gynecology	66
Pathology	362	Pediatrics	169
Internal Medicine.....	623	Preventive Medicine...	33
Neurology and		Elective	300*
Psychiatry	143		
		TOTAL.....	4,203

See p. 85.

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
Edgar Allen, Ph.D.	Instructor in Anatomy
Beatrice Whiteside, Ph.D.	Instructor in Anatomy
Bess Lloyd, B.S.	Assistant in Anatomy
Forest H. Staley, M.D.	Assistant in Anatomy
Mildred Trotter, M.S.	Research Assistant in Anatomy
Morie F. Weymann	Student Assistant in Anatomy
Kehar Singh Chouke, H.A.	Student Assistant in Anatomy
Yun Chan Sun, A.B.	Student Assistant in Anatomy

First Year

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

Professor Danforth, Dr. Whiteside, Mr. Weymann

5. NEURO-ANATOMY. 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 neuro-histology, of fiber tracts, nuclei, the interrelations of the neurone systems, and functional significance of special organs. Eleven hours a week during the second trimester. 121 hours.

Professor Terry, Professor Danforth, Dr. Allen,
Dr. Whiteside, and Assistants

6. HUMAN DISSECTION. The course offers opportunity for the systematic study of the gross structure of the human body. Each student is provided with material for the preparation and study of the muscles, joints, and skeleton; the viscera; the vascular system and peripheral nerves. Lectures 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, Dr. Allen, Dr. Staley and Assistants

Second Year

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 second 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, Dr. Whiteside

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.

Dr. 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.

Dr. Allen

7. *Conference in Anatomy.* One hour a week throughout the year.

Professor Terry

8. *Topographical Anatomy.* Six hours a week in the third trimester 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

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

Professor Terry

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.

Dr. Allen

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. Professor Terry

BIOLOGICAL CHEMISTRY

Philip A. Shaffer, Ph.D. . . Professor of Biological Chemistry
Edward A. Doisy, Ph.D. . . Associate in Biological Chemistry
Ethel Ronzoni, M.S. Instructor in Biological Chemistry
Theodore E. Friedemann, A.M. Assistant in Biological Chemistry
Alfred P. Briggs, B.S. . . . Assistant in Biological Chemistry
Irene Koechig, A.M. Assistant in Biological Chemistry
Milo L. Heideman, A.B. . . 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. It will not be offered after 1921-22. First trimester, five hours a week. 60 hours.

Mr. Friedemann

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

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.

PHYSIOLOGY

Joseph Erlanger, M.D.	Professor of Physiology
George H. Bishop, Ph.D.	Associate in Physiology
H. Lester White, M.D.	Instructor in Physiology
Minas Joannides, M.D.	Assistant in Physiology
Paul B. Sheldon, A.B.	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 trimester of the second year. Properly prepared students in the College and, under exceptional circumstances, medical students will be permitted to begin the course at the opening of the college year. The course is so arranged that students are enabled to acquire some knowledge of anatomy, embryology, histology, neurology, and biological chemistry before the physiological aspects of the related topics are considered. The following subjects are covered in the lectures: muscle and nerve, central nervous system, senses, blood, circulation, respiration, secretion, digestion, nutrition, and reproduction. Only those students will be admitted to the course who have completed or have begun the study of anatomy and biological chemistry. 107 hours.

Professor Erlanger, Dr. Bishop, Dr. White

Second Year

3. PHYSIOLOGY. Laboratory Course. This course must be taken in conjunction with Physiology 2. The experiments are

so arranged as to serve at one and the same time to illustrate fundamental principles of physiology and to familiarize the student with the more important bio-physical methods employed in experimental physiology and medicine. The class works in groups of two. Each group has its individual table, which is supplied with all the apparatus necessary for the performance of the general experiments. To the groups is assigned in rotation the apparatus needed for the performance of special experiments. As far as practicable the students serve as subjects of the special experiments and study upon themselves by quantitative methods certain phases of the physiology of muscle and nerve, and of the circulation, respiration, central nervous system, and sense organs. The instruction in the laboratory is largely individual. Weekly conferences are held for the discussion and correlation of the experimental data. First trimester of the second year. 169 hours.

Professor Erlanger, Dr. Bishop, Dr. White, Mr. Sheldon

4. *Demonstration Methods.* This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in Courses 2 and 3. It consists mainly of experiments demonstrated in Course 2. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

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

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

PHARMACOLOGY

Herbert S. Gasser, M.D. . . . Professor of Pharmacology

Charles M. M. Gruber,

Ph.D., M.D. Associate Professor of Pharmacology

Lee D. Cady, A.M. Student Assistant in Pharmacology

Arthur L. Esserman, 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 Gasser, Professor Gruber

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

Professor Gasser, Professor Gruber

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
Frank A. McJunkin, M.D. .	Associate Professor of Pathology
Howard H. Bell, M.D. . . .	Associate Professor of Bacteriology
L. S. Newman Walsh, M.D. .	Instructor in Pathology
William A. Hudson, M.D. . .	Instructor in Pathology
Hiram S. Liggett, M.D. . .	Assistant in Pathology
Leslie A. Smith, B.S. . . .	Student Assistant in Bacteriology
Mrs. Paul B. Sheldon, A.B. .	Research Assistant in Pathology

First Year

1. **BACTERIOLOGY.** This course is a general survey of the entire field of bacteriology from the biological point of view. Special attention is given to the subjects of fermentation, putrefaction and toxin production, sterilization and disinfection, and the nature of infection and its effects. In the laboratory the methods of observing and staining bacteria and methods of bacteriological diagnosis are taught. Eleven hours a week during the third trimester. 110 hours.

Professor Bell

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 and demonstrations given in association with the study of the gross and histological characters of lesions together with experiments performed by

the student. Pathological histology will be studied by means of sections stained for microscopic examination by the student, supplemented by specially prepared specimens which are loaned; students are urged to describe and to draw the lesions they find. Some familiarity with the literature of pathology will be obtained by reports upon special topics made by members of the class during one hour each week in the second trimester. Lectures and laboratory work, 12 hours a week in the first trimester and 14 hours in the second trimester. 278 hours.

Professor Opie, Professor McJunkin, Dr. Walsh,
Dr. Hudson, Dr. Liggett

(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. One hour a week. 26 hours.

Professor Opie, Professor McJunkin

(c) CONDUCT OF AUTOPSIES. 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 McJunkin, Dr. Walsh,
Dr. Hudson, Dr. Liggett

(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. 66 hours.

Professor McJunkin and Assistants

3. INFECTION AND IMMUNITY. Lectures on the nature of infection and immunity will be given in the first trimester of the second year. 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 agglutinating sera, and will study the serum reactions used for the diagnosis of syphilis. One lecture and 3 hours of laboratory work each week during the first trimester. 52 hours. Professor Opie, Professor Bell

4. CLINICAL AND PATHOLOGICAL CONFERENCE. The clinical history and treatment of patients who have died is discussed before the class by the physicians and surgeons of the departments concerned. The specimens and microscopical slides from the corresponding autopsies are reviewed with reference to the clinical histories. The important gross and microscopical lesions are illustrated by lantern slides. One hour a week during five trimesters in the third and fourth years.

Professor Opie and Staff

5. *Medical Zoölogy*. 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 pathological changes caused by them in man. The inspection of meat to determine the presence of larval 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

6. *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 relation of human and bovine bacilli to various types of human tuberculosis will be determined by appropriate methods. Problems of experimental tuberculosis will be considered and experiments will be performed. 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

7. *Research.* The laboratory offers facilities for research in pathology and bacteriology. Specialists with adequate training who desire to extend their knowledge of the pathology of their specialty will be given opportunity for this study.

Comparative Pathology

Leo Loeb, M.D. Professor of Comparative Pathology
Osamu Ishii, M.D. Research Assistant in Comparative Pathology

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

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

3. Lectures on selected problems in comparative and general pathology.

MEDICINE

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

George Dock, M.D. Professor of Medicine
Ralph Kinsella, M.D. Associate Professor of Medicine
George W. Wilson, M.D. . . . Associate in Medicine
Frank H. Ewerhardt, M.D. . . Instructor in Medicine
Robert Novy, M.D. Assistant in Medicine

Elsworth S. Smith, M.D. . . . Clinical Professor of Medicine
Albert E. Taussig, M.D. . . . Associate Professor of Clinical Medicine
R. Walter Mills, M.D. . . . Associate in Clinical Medicine
William H. Olmsted, M.D. . . Associate in Clinical Medicine
Walter Baumgarten, M.D. . . Instructor in Clinical Medicine
Jerome E. Cook, M.D. . . . Instructor in Clinical Medicine
Llewellyn Sale, M.D. . . . Instructor in Clinical Medicine
Louis H. Hempelmann, M.D. . Instructor in Clinical Medicine

Jacob J. Singer, M.D.	Instructor in Clinical Medicine
Walter Fischel, M.D.	Instructor in Clinical Medicine
Drew W. Luten, M.D.	Instructor in Clinical Medicine
Joseph W. Larimore, M.D.	Assistant in Clinical Medicine
Adolph M. Frank, M.D.	Assistant in Clinical Medicine
Oliver H. Campbell, M.D.	Assistant in Clinical Medicine
Charles H. Eyermann, M.D.	Assistant in Clinical Medicine
Raleigh K. Andrews, M.D.	Assistant in Clinical Medicine
Lionel S. Luton, M.D.	Assistant in Clinical Medicine
Arthur E. Strauss, M.D.	Assistant in Clinical Medicine
Frank D. Gorham, M.D.	Assistant 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 Dock

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. Novy

(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.

Professor Kinsella, Dr. Olmsted

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

(a) Recitation in Medicine. Continuation of Course 2 (a). In these two courses, completed at the end of the second trimester of the third year, an effort is made to see that the student gains a theoretical knowledge of the most important internal diseases and that he has learned how to read and to look up medical subjects in the literature. Diseases that can be thoroughly studied in the clinics are passed over rapidly with special attention to etiology and pathology only. Specimens from the Pathological Museum, all of which have clinical histories and are carefully classified, are used. 55 hours.

Dr. Wilson, Dr. Strauss, Dr. Novy

(b) Medical Dispensary. One-third of the class work in the medical dispensary during each trimester. This group is subdivided and the sub-groups rotate through the general medical, gastro-intestinal 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. Eyermann, Dr. Wilson, Dr. Strauss, Dr. Sale,
Dr. Singer, Dr. Gorham

7. THERAPEUTICS. A course designed to give students a practical knowledge of the methods, the various drugs, and the agen-

cies 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. One hour a week during two trimesters. 22 hours.

Professor Kinsella, 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 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, and Assistants

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

Professor Dock

(c) A weekly clinic in which a series of subjects, such as gastrointestinal diseases, arterial hypertension, disturbances of internal secretions, pulmonary tuberculosis, and the mechanism of the

heart beat are presented. Material from the Out-Patient Department is presented by members of the dispensary staff. 33 hours.

Professor Smith, Professor Schwab, Dr. Mills, Dr. Sale,
Dr. Singer, Dr. Luten, Dr. Strauss,
Dr. Eyermann, Dr. Gorham

(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 4.)

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.

Dr. Strauss

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.

Professor Kinsella

16. *Research in Medicine.* Specially qualified students are encouraged to undertake research in problems bearing on medicine in the laboratories of the department. Credit to be arranged. Maximum credit 24 units.

Professor Dock

Neurology and Psychiatry

Sidney I. Schwab, M.D. . . . Professor of Clinical Neurology
Leland B. Alford, M.D. . . . Associate in Clinical Neurology

Lewis D. Stevenson, M.D. . . . Instructor in Neuropathology
James Lewald, M.D. . . . Assistant in Clinical Psychiatry
Groves B. Smith, M.D. . . . Assistant 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. Stevenson and Assistants

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

Professor Schwab, Dr. Alford, Dr. Stevenson,
Dr. Lewald and Assistants

Third and Fourth Years

3. NEUROLOGY.

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

(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. Lewald

Dermatology

Martin F. Engman, M.D. . . Clinical Professor of Dermatology
William H. Mook, M.D. . . . Instructor in Clinical Dermatology
Richard S. Weiss, M.D. . . . Instructor in Clinical Derma-
tology
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

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

Evarts A. Graham, M.D. . . . Professor of Surgery
 Montrose T. Burrows, M.D. . . Associate Professor of Experimental Surgery
 Sherwood Moore, M.D. . . . Associate in Surgery (Radiology)
 Glover H. Copher, M.D. . . . Assistant in Surgery
 Earl C. Padgett, M.D. . . . Assistant in Surgery
 William H. Chambers, Ph.D. . . Assistant in Experimental Surgery
 Frederick A. Jostes, M.D. . . . Assistant in Surgery
 Bransford L. Adelsberger, M.D. Assistant in Surgery
 Duff S. Allen, M.D. Assistant in Surgery
 Leslie H. Dunham, M.D. . . . Assistant in Surgery (Radiology)
 Lee D. Cady, A.M. Student Assistant in Surgery
 Julian Y. Malone, M.D. . . . Fellow in Neurological Surgery
 Vincil R. Deakin Fellow in Surgery

Paul Y. Tupper, M.D. Clinical Professor of Surgery
 Harvey G. Mudd, M.D. Clinical Professor of Surgery
 Nathaniel Allison, M.D. . . . Professor of Clinical Orthopedic Surgery
 Ernest Sachs, M.D. Professor of Clinical Neurological Surgery
 Major G. Seelig, M.D. Professor of Clinical Surgery
 John R. Caulk, M.D. Associate Professor of Clinical Genito-Urinary Surgery
 Willard Bartlett, M.D. Associate in Clinical Surgery
 Vilray P. Blair, M.D. Associate in Clinical Surgery
 Malvern B. Clopton, M.D. . . Associate in Clinical Surgery
 Barney Brooks, M.D. Associate in Clinical Surgery
 Arthur O. Fisher, M.D. Associate in Clinical Surgery
 J. Archer O'Reilly, M.D. . . . Associate in Clinical Orthopedic Surgery
 Charles A. Stone, M.D. Instructor in Clinical Orthopedic Surgery

Edwin P. Lehman, M.D. . .	Instructor in Clinical Surgery
Warren R. Rainey, M.D. . .	Instructor in Clinical Surgery
Walter C. G. Kirchner, M.D. .	Assistant in Clinical Surgery
Charles E. Hyndman, M.D. .	Assistant in Clinical Surgery
William M. Robertson, M.D. .	Assistant in Clinical Genito- Urinary Surgery
H. McClure Young, M.D. . .	Assistant in Clinical Genito- Urinary Surgery
Ellis Fischel, M.D.	Assistant in Clinical Surgery
Harry G. Greditzer, M.D. . .	Assistant in Clinical Genito- Urinary Surgery
J. Edgar Stewart, M.D. . .	Assistant in Clinical Orthopedic Surgery
Dalton K. Rose, M.D. . . .	Assistant in Clinical Genito- Urinary 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.

Dr. Lehman 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. This is supplemented by several optional hours at the City Hospital, during which time the extensive fracture material of that hospital is shown to the students.

Professor Allison, Dr. Brooks, and Dr. Rainey

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

Professor Caulk

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

Dr. 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, Professor 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 some of the operations and with the anæsthetic, 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 4.) 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 Allison, Professor Sachs,
Professor Caulk, Dr. Clopton, 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

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.

Professor 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.

Gynecology

Harry S. Crossen, M.D. . . .	Clinical Professor of Gynecology
George Gellhorn, M.D. . . .	Associate in Clinical Gynecology
Frederick J. Taussig, M.D. . .	Associate in Clinical Gynecology
Quitman U. Newell, M.D. . .	Instructor in Clinical Gynecology
Reinhard E. Wobus, M.D. . .	Assistant in Clinical Gynecological Surgery
Lux H. Bock, M.D.	Assistant in Clinical Gynecological Surgery
John R. Vaughan, M.D. . . .	Assistant in Clinical Gynecological Surgery
Ephraim A. Stranquist, M.D. .	Fellow in Gynecological Surgery

1. GYNECOLOGY. The course is divided as follows:

(a) Clinical Lectures on Selected Gynecological Subjects. One hour a week during the second trimester of the third year. 11 hours. Professor Crossen, Dr. Gellhorn, Dr. Taussig

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

Dr. Newell (Dispensary) and Dr. Wobus (Laboratory)

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

Ophthalmology

William E. Shahan, M.D.	. . . Professor of Clinical Ophthalmology
Meyer Wiener, M.D.	. . . Associate Professor of Clinical Ophthalmology
William F. Hardy, M.D.	. . . Associate in Clinical Ophthalmology
Frederic O. Schwartz, M.D.	Instructor in Clinical Ophthalmology
M. Hayward Post, M.D.	. . . Instructor in Clinical Ophthalmology
Lawrence Post, M.D.	. . . Instructor in Clinical Ophthalmology
Max W. Jacobs, M.D.	. . . Instructor in Clinical Ophthalmology
Bennett Y. Alvis, M.D.	. . . Assistant in Clinical Ophthalmology
Amalie M. Napier, M.D.	. . . Assistant in Clinical Ophthalmology

(a) OPHTHALMOLOGY. Eleven lectures are given in the second trimester of the third year. 11 hours. Professor Wiener

(b) OPHTHALMOLOGY. 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. 44 hours. Professor Shahan, Professor Wiener, Dr. Hardy, and Instructors

(c) 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. Dr. Hardy

Otology

John B. Shapleigh, M.D.	. . . . . Clinical Professor of Otology
Harry W. Lyman, M.D.	. . . . . Associate in Clinical Otology
Isaac D. Kelley, M.D.	. . . . . Instructor in Clinical Otology
Arthur W. Proetz, M.D.	. . . . . Assistant in Clinical Otology
Millard F. Arbuckle, M.D.	. . . . . Assistant in Clinical Otology

(a) **OTOLOGY.** Eleven lectures are given during the third trimester of the third year. 11 hours.

Professor Shapleigh, and Assistants

(b) **OTOLOGY.** 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. 44 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

William M. C. Bryan, M.D. . . Instructor in Clinical Laryngology
and Rhinology

Millard F. Arbuckle, M.D. . . Instructor in Clinical Laryngology
and Rhinology

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

Arthur W. Proetz, M.D. . . . Assistant in Clinical Laryngology
and Rhinology

Herman B. Miller, M.D. . . . Assistant in Clinical Laryngology
and Rhinology

(a) **LARYNGOLOGY AND RHINOLOGY.** Eleven lectures are given during the second trimester of the third year. 11 hours.

Professor Sluder

(b) **LARYNGOLOGY AND RHINOLOGY.** Small sections of the fourth year class receive practical instruction twice weekly in the Out Patient Clinic. 44 hours.

Professor Sluder, and Assistants

OBSTETRICS

Otto H. Schwarz, M.D. . . . Associate in Obstetrics
Otto St. Clair Krebs, M.D. . . Assistant in Obstetrics
Charles D. O'Keefe, M.D. . . Assistant in Obstetrics

Grandison D. Royston, M.D. . Instructor in Clinical Obstetrics
Adolph G. Schlossstein, M.D. . Assistant in Clinical Obstetrics
Frank P. McNalley, M.D. . . Assistant in Clinical Obstetrics
E. Lee Dorsett, M.D. . . . Assistant in Clinical Obstetrics
Samuel F. Abrams, M.D. . . Assistant in Clinical Obstetrics

Second and Third Years

1. OBSTETRICS.

(a) Recitations and Demonstrations. This course, beginning in the third trimester of the second year and ending the second trimester of the third year, consists of recitations and demonstrations based upon assigned reading of a prescribed text-book.

Recitations and demonstrations during the three trimesters deal with the physiology and pathology of pregnancy, labor, and the puerperium. 33 hours. Dr. Royston, Dr. Krebs

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

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

Dr. O. Schwarz, Dr. Dorsett, Dr. McNalley, Dr. Krebs,
Dr. Abrams

Fourth Year

2. OBSTETRICS.

(a) Attendance on Obstetrical Cases. The obstetrical service furnishes more than 900 cases (about 450 hospital and about

450 out-clinic cases). The students attend these cases personally during delivery and visit them during the lying-in period. All work is done under the supervision of instructors. Attendance on these cases is required during the five and one-half weeks' period that the student is assigned to Obstetrics during his senior year. Twelve cases are required for each student. Students are urged to volunteer for obstetrical out-patient duty during the summer vacation between the junior and senior years, as the required number of cases cannot be obtained during the assigned five and one-half weeks' period.

Dr. O. Schwarz, Dr. Royston, Dr. Krebs, Dr. McNalley

(b) Clinical Lectures on Selected Obstetrical Topics. One hour a week during the second trimester. 11 hours.

Dr. H. Schwarz, Dr. O. Schwarz, Dr. Royston, Dr. Dorsett

(c) Obstetrical Ward Work. Sections composed of one-sixth of the class act as clinical clerks in the obstetrical division of the Barnes Hospital for a period of five and one-half weeks. The members of these sections, under the guidance of instructors, participate in the entire work of the division; they take histories and make examinations (including those of the laboratory); make ward rounds; assist at major obstetrical operations; attend clinical conferences and manikin practice. Twelve hours a week for five and one-half weeks. 66 hours.

Dr. O. Schwarz, Dr. Royston, Dr. Schlossstein, Dr. Krebs

PEDIATRICS

W. McKim Marriott, M.D. . . . Professor of Pediatrics
Philip C. Jeans, M.D. Associate Professor of Pediatrics
Jean V. Cooke, M.D. Associate Professor of Pediatrics
Samuel W. Clausen, M.D. . . . Associate in Pediatrics
Kirsten Utheim, M.D. Instructor in Pediatrics
Wayne A. Rupe, M.D. Assistant in Pediatrics
Leonard T. Davidson, M.D. . Assistant in Pediatrics

George M. Tuttle, M.D. Clinical Professor of Pediatrics
Borden S. Veeder, M.D. Professor of Clinical Pediatrics

Theodore C. Hempelmann, M.D. Associate in Clinical Pediatrics
Hugh McCulloch, M.D. . . . Associate in Clinical Pediatrics
Adrien S. Bleyer, M.D. . . . Instructor in Clinical Pediatrics
Phelps G. Hurford, M.D. . . . Assistant in Clinical Pediatrics
Maurice J. Lonsway, M.D. . . Assistant in Clinical Pediatrics
Park J. White, M.D. . . . Assistant in Clinical 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, Dr. Clausen

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 formulæ, 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, Professor 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 4.)

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.

8. *Pediatric Journal Club.* Meets bi-weekly. Reports on current literature by members of the staff. Open to fourth-year students.

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, and some other subjects 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

Military Science and Tactics

Robert W. Kerr, M.D., Major,

M.C., U. S. A. Assistant Professor of Military
Science and Tactics

Under the authority of the Army Reorganization Act of June 4, 1920, there has been established in Washington University School of Medicine a Medical Corps Unit of the Reserve Officers' Training Corps. Instruction is given by a medical officer of the Regular Army detailed to the School as Assistant Professor of Military Science and Tactics. The course is given in order to instruct medical students in the outlines of military medicine as a preparedness measure.

Enrollment in the course in Military Science and Tactics is voluntary.

Military Science and Tactics is divided into a basic course and an advanced course. The basic course is given in the first two years and the advanced course in the last two years. A student who enrolls in the basic course need not continue in the advanced course unless he so elects. Enrollment in the advanced course depends upon having completed satisfactorily the basic course and having demonstrated fitness and ability to take up the advanced work. In case a student who is enrolled in either the basic or advanced course severs his connection with the School, he automatically terminates his obligation to the Government insofar as this school is concerned. Students who are enrolled in the advanced course will receive commutation of subsistence at the rate of the value of an army ration for the last two years that they are members of the Medical Corps Unit. It is required by the law, as set forth in the above-mentioned act, that all students must attend one summer encampment in order to have completed the advanced course in Military Science and Tactics. Students attending this encampment are paid at the rate of \$30 per month, and in addition receive traveling allowance of five cents per mile, quarters, rations, medical attendance, and medical supplies while attending the camp. The summer encampment is held at Carlisle, Pennsylvania.

Upon graduation and completion of the advanced course, the student becomes eligible for a commission in the Medical Officers' Reserve Corps.

First and Second Years

1. **BASIC COURSE.** This course consists of lectures and recitations devoted to medico-military instruction and particularly to teaching the organization and functions of the Army in peace and war, the relations of the Medical Department therein, and the basic principles of the following subjects: hygiene, customs of the service, equipment of the sanitary soldier, elements of sketching and map reading, posts of the Medical Department in open and stable warfare, and toxic gases in warfare.

Third and Fourth Years

2. **ADVANCED COURSE.** There is further development of the subjects given in the basic course by lectures and recitations upon the manual and pamphlets of the Medical Department of the U. S. Army. These deal with organization and equipment of the sanitary units attached to a regiment, brigade, division, corps, and army. The instruction also includes casualty expectancy tables, the supply system of the army, hospitalization, military psychiatry and malingering, army regulations, field sanitary regulations, rules of land warfare, abstracts of the Manual for Courts Martial, and organized voluntary aid in war.

3. **MILITARY INSTRUCTION AT SUMMER ENCAMPMENTS.** The camp to be established for the training of Medical Corps R. O. T. C. Units will be maintained at Carlisle, Pennsylvania, where the Medical Department has established a Field Training School. Attendance of all students taking the advanced course, compulsory for at least one encampment, either at the end of the second year or the end of the third year, or as may be modified by army regulations. Upon arrival at the camp, students are issued the necessary uniforms and equipment by the Government. The instruction is practical, including military and sanitary tactics and an opportunity to demonstrate in the open the theoretical knowledge acquired in the military courses at the School of Medicine. As far as possible, actual field service conditions will be simulated. The students will be required to live under tentage. Physical training, including athletic competition, will be given special attention.

TRAINING SCHOOL FOR NURSES

- Helen Wood, A.B., R.N. . . . Director of the School and Superintendent of Nurses
Leone N. Ivers, R.N. . . . Assistant Superintendent of Nurses
Susie A. Watson, A.B., B.S.,
R.N. Theoretical Instructor
Hanna Peterson, 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, nutrition 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 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 Hos-

pital 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 to students holding degrees from recognized colleges or universities. 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.

DEPARTMENT OF SOCIAL SERVICE

Agnes G. Deans, R.N. Director

The Department of Social Service carries out its work in the Washington University Dispensary, the Barnes Hospital, the St. Louis Children's Hospital, and the Jewish Hospital of St. Louis. At the head of the Department of Social Service is a director, who has seventeen paid workers, each of whom is responsible for a special type of work.

Students in the School of Medicine may volunteer in the department and gain thereby 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 which gives them experience in working out the individual problems of the patients seeking relief. Such students gain as well an understanding of the function of social agencies in community life.

Nurses who are undergoing training in the Washington University Training School for Nurses are given instruction in the methods of carrying out social service work in hospitals and dispensaries, as well as the relationship which social service work bears to medicine and nursing. Any graduate of the Training School of Nurses may be assigned to practical work in the Department of Social Service.

POST GRADUATE INSTRUCTION

GENERAL STATEMENT

The graduate studies are planned to meet the requirements of three distinct types of students: (1) Those who desire to enroll in the Graduate School of Washington University with the purpose in view of complying with the requirements necessary for obtaining a graduate degree in medicine. These requirements are outlined in the catalogue of Washington University; and each applicant for such graduate work will be considered individually after receipt of his application. (2) Those who desire to spend a year or more of resident work, leading to ultimate qualification as a specialist. (3) Those who wish to spend from four to twelve weeks in brushing up on clinical or laboratory methods, in order to keep abreast of the times, and to maintain a high degree of personal professional efficiency. The courses will utilize all the teaching facilities at the disposal of the Washington University School of Medicine, the various laboratories, Barnes Hospital, Washington University Dispensary, the St. Louis Children's Hospital, City Hospital No. 1, Jewish Hospital, and the Library and Reading Room of the Washington University School of Medicine.

ADMISSION

The following are eligible for admission:

A. *Registered Practitioners.* Any reputable person licensed to practice medicine may be admitted to such courses as he is qualified to take.

B. *Graduates in Medicine* who are not registered practitioners. Graduates of an acceptable medical school, who are not registered practitioners, are eligible for admission.

C. *Undergraduates in Medicine.* Undergraduates of the School of Medicine of Washington University or of medical schools in Class A (A.M.A. classification) may be admitted for such courses as they are competent to take. During the sessions

of their own schools such undergraduates will be accepted only by special vote of the Executive Faculty of Washington University School of Medicine.

The Faculty of the School of Medicine of Washington University reserves the right:

(1) To judge the qualifications of all candidates for admission and to refuse such as in its opinion are undesirable.

(2) To terminate a student's connection with the School for such reason as it deems proper.

(3) To refuse to admit a student to any course for such reason as it considers proper, even if he be admitted to other courses in the School.

(4) To exclude a student from any course to which he may have been admitted, if in the opinion of the faculty he is not qualified to continue the course, or for any other reason which the faculty may consider proper.

These reservations are made especially for the benefit of the students. In those instances where it may be necessary to exclude a student, a refund of fee will be made, but this refund is never to be more than one-half of the total fee for the course.

FEES. The four-week courses are arranged on the basis of occupying all the time either of half or a whole day. Those courses running for one-half a day will be charged for at the rate of \$75.00 for the four-week period, and the whole day course at the rate of \$100.00 for the four-week period. A fee of \$125 will be charged for combination courses where the morning is devoted to work in one department and the afternoon to work in another department, for the four-week period.

Those students desiring to elect special work may arrange with the registrar concerning the fee.

APPLICATION AND REGISTRATION

Application for courses should be made to the Registrar, Washington University School of Medicine, Scott and Euclid Avenues, St. Louis, Mo.

In his application the candidate must state: Name; residence; date of birth; when and where medical diploma was obtained;

when and where hospital internship, if any, was pursued; when and where licensed (if licensed); type of practice engaged in (general or a specialty). He must state the course or courses he desires to take. With his application the applicant must enclose a registration fee of \$10.00. No course will be available to any applicant who fails to send this registration fee with his application. The registration fee will constitute a part payment of the cost of the course. Fees for all courses are payable in advance on the first day of the course.

Applications will be considered in the order of their receipt. It is important, therefore, since most of the courses are limited as to the number of students who may participate in them, that applications be sent in at the earliest moment.

INTERNAL MEDICINE

The Department of Internal Medicine of Washington University offers to Doctors of Medicine a short course in internal medicine. The course covers a period of four weeks and is designed to consume the entire time of the students. It consists of a series of courses covering the more important special divisions of internal medicine. The courses are so arranged as to devote the entire mornings to clinic, ward rounds, and lectures, while the afternoons will be largely devoted to laboratory work.

The courses comprising the full course are outlined below.

1. GENERAL MEDICINE. (a) Tuesdays and Fridays, 3 to 4 p. m. Dr. Dock

Illustrated lectures on important medical subjects, including endocrine disturbances.

- (b) City Hospital No. 1, Thursdays, Fridays, and Saturdays, 9 to 11 a. m. Dr. Luten and Visiting Staff

A series of visits to the medical wards in which the diagnosis and treatment of disease is discussed and exemplified by the study of patients.

- (c) Washington University Dispensary, Tuesdays, 9 to 10 a. m. Dr. Eyermann

Protein sensitization and asthma.

2. DISEASES OF THE CHEST. Washington University Dispensary. Mondays and Wednesdays, 10 a. m. to 12 m.

Dr. Singer

A series of eight clinical lectures and demonstrations in the Out-Patient Department, on diseases of the chest. Particular emphasis is laid on the study of pulmonary tuberculosis, including physical diagnosis, fluoroscopy, roentgenography, the use of tuberculin and pneumothorax.

3. DISEASES OF THE HEART. Washington University Dispensary. Tuesdays, 10 a. m. to 12 m.

Dr. Strauss

A series of four clinical lectures and demonstrations in the Out-Patient Department, including a discussion of the graphic methods of recording cardiac disturbances.

4. DISEASES OF METABOLISM. Barnes Hospital. Mondays and Wednesdays, 9 to 10 a. m.

Dr. Olmsted

A series of eight lectures and clinical demonstrations with special emphasis on the more recent methods of study of diabetes, nephritis, and diseases of the endocrine glands.

5. DISEASES OF THE CENTRAL NERVOUS SYSTEM. Washington University Dispensary. Mondays and Thursdays, 12 m. to 1 p. m.

Dr. Schwab, Dr. Alford, Dr. Stevenson

A series of eight clinics on selected cases exhibiting the more common disorders of the central nervous system.

6. DISEASES OF THE GASTRO-INTESTINAL SYSTEM. Washington University Dispensary. Wednesdays and Fridays, 12 m. to 1 p. m.

Dr. Gorham, Dr. Gilbert, Dr. Gay

A series of eight clinical lectures on the diagnosis and treatment of disorders of the stomach and intestines.

6a. X-RAY DIAGNOSIS OF GASTRO-INTESTINAL DISEASES. Tuesdays and Saturdays, 12 m. to 1 p. m.

Dr. Mills

7. CLINICAL MICROSCOPY AND CHEMISTRY. Washington University Dispensary. Wednesdays and Thursdays, 2 to 4 p. m.

Dr. Kinsella, Dr. Wilson

A series of eight lectures and laboratory exercises in the laboratory methods of diagnosis of disease. Subjects discussed are

urine, sputum, gastric contents, feces, blood, and puncture fluids. Eight periods of two hours each.

7a. CLINICAL BACTERIOLOGY. Mondays, 2 to 4 p. m.

Dr. Kinsella

A series of demonstrations and exercises illustrating clinical methods such as blood cultures, smear staining and diagnosis, agglutination reactions and interpretation of Wassermann tests.

8. CLINICAL PATHOLOGICAL CONFERENCE. Autopsy Amphitheatre, Barnes Hospital. Mondays, 4 to 5 p. m., and Thursdays, 4:30 to 5:30 p. m.

A series of conferences of the staffs of the clinical and pathological departments in which the cases that have come to autopsy are discussed from the point of view of the clinical and pathological findings.

The fee for the entire course for a full day of instruction over a period of four weeks is \$100.00. The fee for a half day of instruction over a period of four weeks is \$75.00. The fee for single courses will be \$25.00 each, except for course No. 7, for which the fee will be \$50.00.

SPECIAL INTENSIVE COURSES IN MEDICINE

For those who desire more intensive courses in some of the divisions of Internal Medicine, the following are offered:

9. TUBERCULOSIS. Washington University Dispensary.

Dr. Singer and assistants

This course consists of a series of didactic lectures on the epidemiology of tuberculosis, the physics of sound and light in relation to physical diagnosis of the chest, fluoroscopic and roentgenographic examination of the lungs, the use of tuberculin in the diagnosis and treatment of tuberculosis, the use of artificial pneumothorax and the general treatment of tuberculosis. In addition there will be practical exercises on patients, covering the above subjects. Special stress will be laid upon the social aspects of the tuberculosis problem, including demonstrations by social workers trained in the field. Students will be expected to devote their entire time daily to this work, and the course will extend

over a period of four weeks. Limited to not more than seven students and not less than three. Fee \$50.00.

10. A special course in the technique of roentgenographic and fluoroscopic examination of the chest, designed to supplement the preceding course. Limited to not more than seven students and not less than three. Fee \$50.00.

11. GASTRO-ENTEROLOGY. Washington University Dispensary. Tuesdays, 10 a. m. to 12 m. Dr. Larimore

This course consists of a series of practical exercises in diseases of the gastro-intestinal system, in which the anamnesis and the examination of cases are taken up. New cases will be carried through their history and physical examination with special attention given to developing the symptomatology of gastro-intestinal diseases and other complications. A special outline for developing the anamnesis is followed. The course will last indefinitely, depending upon the applicant's wishes. Limited to four students. Fee \$50.00.

11a. PROCTOSCOPY. Wednesdays and Thursdays, 12 m. to 1 p. m.

This course consists of a series of demonstrations and practical exercises in the technique of making proctoscopic examinations. Duration of course, four weeks. Limited to four students. Fee \$25.00.

11b. Fridays, 12 m. to 1 p. m.

This course consists of a clinical review of completed cases of gastro-intestinal disease in which a final diagnosis has been determined by X-ray examination, operation, or autopsy. Limited to eight students. Fee \$25.00.

12. PHYSICAL DIAGNOSIS. City Hospital No. 1. Daily, 10 a. m. to 12 m. Dr. Luten

A series of practical exercises and demonstrations in the principles and technique of elementary physical diagnosis. Duration two weeks. Fee \$25.00.

The foregoing special intensive courses are not given at stated periods of the year, but will be given upon application, subject to the conditions noted. The time will have to be arranged between the applicants and instructors.

SCHEDULE OF COURSE IN INTERNAL MEDICINE

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Diseases of Metabolism (Course No. 4)	Protein Sensi- tization and Asthma (Course No. 1C)	Diseases of Metabolism (Course No. 4)	City Hospital No. 1 (Course No. 1B)		
10 to 11	Diseases of Chest (Course No. 2)	Diseases of Heart (Course No. 3)	Diseases of Chest (Course No. 2)			
11 to 12						
12 to 1	Neurology (Course No. 5)	Gastro-Intestinal Diseases (Course No. 6A)	Gastro-Intestinal Diseases (Course No. 6)	Neurology (Course No. 5)	Gastro-Intestinal Diseases (Course No. 6)	Gastro-Intestinal Diseases (Course No. 6A)
2 to 3	Clinical Bacteriology (Course No. 7A)	Lectures (Course No. 1A)	Clinical Microscopy (Course No. 7)	Clinical Microscopy (Course No. 7)	Lectures (Course No. 1A)	
3 to 4						
4 to 5	Clinical Pathological Conference (Course No. 10)			Clinical Pathological Conference (Course No. 10)		

PEDIATRICS

The Department of Pediatrics offers a four-weeks' post-graduate course in Pediatrics. The course is given twice yearly, in October and in April. The major portion of the instruction is given in the wards of the St. Louis Children's Hospital. This hospital has 160 beds and provides for children from birth to 14 years of age. Medical, surgical, and contagious cases are admitted. The hospital also maintains a Country Department for the treatment of nutritional conditions and bone and joint tuberculosis. At the Country Department students are instructed in the technique of the Rollier treatment. Practical instruction is also given in the Children's Division of the Out-Patient Department of the Washington University Dispensary. Approximately 1,200 visits are made to the Children's Clinic each month. Additional instruction is given in the pediatric wards of the St. Louis City Hospital and in the Municipal Welfare clinics.

The schedule is so arranged that the physician has his entire time occupied in intensive work during the month. The course is a systematic one, designed especially for the needs of the practitioner. It is given independently of undergraduate instruction.

The course includes the following divisions:

1. **INFANT FEEDING.** Lectures, demonstrations, and ward rounds in the St. Louis Children's Hospital and practical work in the out-patient feeding clinics. The fundamental principles of infant nutrition are discussed in relation to the feeding of normal and sick infants. Instruction in the preparation of milk mixtures. Treatment of gastro-intestinal and nutritional disorders peculiar to infancy.

Dr. Marriott, Dr. Veeder

2. **COMMON DISEASES OF CHILDREN.** Lectures, demonstrations, and ward rounds in the St. Louis Children's Hospital and the St. Louis City Hospital. Especial emphasis is laid on diagnosis and treatment. Consideration of the clinical value and interpretation of X-ray plates, electrocardiographic tracings, etc., physical diagnosis as applied to children, instruction in such procedures as lumbar puncture and intravenous and intraperitoneal methods of administration. Consideration of the diagnosis and

control of contagious diseases and instruction in intubation and examination of throat cultures.

Dr. Marriott, Dr. Veeder, Dr. Tuttle, Dr. Jeans,
Dr. Cooke, Dr. Hempelmann, Dr. McCulloch

3. NEWLY BORN CLINIC. Instruction given in the obstetrical nursery of the Barnes Hospital. Care and feeding of the newly born infants. Diseases peculiar to the newly born. Dr. Rupe

4. CHILD HYGIENE. Preventive medicine and hygiene as applied to infants and children. Practical work in the Welfare clinics. Dr. Veeder

5. DIAGNOSTIC METHODS. Instruction in the more important laboratory methods of diagnosis, especially as applied to diseases of children. Examination of blood, urine, and spinal fluids. The newer methods of laboratory diagnosis are especially considered. Each member of the class is given the opportunity to carry out the methods himself. Dr. Cooke, Dr. Clausen

6. SPECIALTIES. A series of lectures and demonstrations in the wards and Out-Patient Department by members of the teaching staff other than those of the Department of Pediatrics. Specialties are considered in their clinical application to children and include general surgery, orthopedic surgery, oral surgery, dermatology, laryngology, ophthalmology, psychiatry, and physio-therapy.

7. ROUND TABLE DISCUSSIONS. These are informal discussions conducted by members of the staff. Each student is urged to bring up his especial problems or the topics he wishes discussed.

Dr. Marriott

8. CLINICAL PATHOLOGICAL CONFERENCE. A course conducted jointly by the Department of Pathology and the Department of Pediatrics. Detailed consideration of autopsy findings on cases previously studied in the wards. Dr. Opie, Dr. Marriott

9. CURRENT LITERATURE. Critical reviews and discussions of recently appearing pediatric literature.

FEES. The fee for the month's course, including all of the divisions indicated, is \$100.00. The number of students admitted to this course is limited to sixteen.

A general arrangement of the courses and the time devoted to each is indicated in the following schedule:

SCHEDULE OF COURSE IN PEDIATRICS

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 10	Diseases of Heart Dr. McCulloch	Surgical Conditions in Children Dr. O'Reilly Dr. Clopton	Diagnostic Methods Dr. Cooke	Infant Feeding Dr. Marriott	Pediatric Clinic Dr. Veeder	Contagious Diseases Dr. Jeans Dr. Cooke	
10 to 11	Infant Feeding Dr. Marriott						Ward Walk Dr. Marriott	Round Table Discussion	Ward Walk Dr. Jeans
11 to 12							
12 to 1	Neurological Clinic Dr. Schwab	Surgical Clinic Dr. Graham	Pediatric Clinic Dr. Tuttle	Medical Clinic Dr. Dock	Newly Born Clinic Dr. Rupe	Medical Clinic Dr. Dock	
2 to 3	Child Hygiene Dr. Veeder	Infant Feeding Clinic Dr. Veeder	Metabolic Diseases Dr. Clausen	Infant Feeding Clinic Dr. Veeder	Specialties	Country Department	
3 to 4	Pediatric Clinic Dr. Hempelmann			Pediatric Dispensary Dr. Jeans Dr. Cooke			
4 to 5	City Hospital No. 1						Clinical-Pathological Conference	Current Literature

Sunday, 10:00 a. m.—Ward Walk, St. Louis Children's Hospital.
Dr. Marriott.

ADVANCED WORK

A limited number of physicians who desire to specialize further in Pediatrics are, on completion of the regular graduate course, permitted to continue work in the wards of the hospital and in the clinic. They are privileged to attend any of the teaching exercises of the department. Those doing such advanced work are encouraged to make a special study of certain types of cases and to do work under supervision which is calculated to advance our knowledge of disease in children. For further information regarding graduate work in Pediatrics, address the Department of Pediatrics, 500 S. Kingshighway, St. Louis.

NEUROLOGY

1. A four-weeks' course in neuro-pathology and study and interpretation of spinal fluids. Laboratory course four weeks. Daily (hours to be arranged later).

Dr. Schwab, Dr. Alford, Dr. Stevenson

This course is primarily intended for the general practitioner or internist who is interested in the field of neuro-psychiatry.

It is especially planned to meet the requirements of the general practitioner who is so situated that he finds it a difficult matter to obtain special neurological advice or consultation.

This course can be taken with Course 2, which is the clinical application of the ground work demonstrated in Course 1.

Lectures and demonstrations on the normal anatomy and histology of the central nervous system, together with the general physiology of the central nervous system.

A routine and detailed examination of microscopic sections of the important organic diseases of the central nervous system, with a study of tract degeneration, chiefly from the clinical point of view. The student will be expected in this course to make drawings of sections and prepare a laboratory book.

During this course special instruction will be given in the technique of lumbar puncture, examination of cerebro-spinal fluid, cell counts, simple chemical reactions for globulin, preparation and interpretation of colloidal gold test, quantitative sugar, etc.

2. NEURO-PSYCHIATRY. Four weeks. Daily (hours to be arranged later).

Dr. Schwab, Dr. Stevenson

The course in Neuro-Psychiatry will be carried out in the Out-Patient Department and the wards of the Barnes Hospital. An attempt will be made to demonstrate important diseases which occur in such material. As far as possible, it will be the purpose to make use of the information gained in the laboratory in its application to actual clinic work. Special attention will be given to syphilis of the central nervous system, methods of examination, the technique of testing special sense organs, preparation of visual fields, etc., in such a way that the general practitioner can master such methods for use in the everyday examination of neurological cases.

3. PSYCHOMETRIC CLINIC. Three times a week (days and hours to be arranged later), for four weeks. Dr. Smith

This course is designed to acquaint the practitioner with methods and interpretation of intelligence measurements.

This course is to be given with special reference to its use by men and women engaged in institutional work, or work with defective children, in juvenile court and social service work.

In this course the student will be personally instructed in obtaining the data necessary for arriving at and estimating the mental age of children and adults.

4. CLINIC AT GLENWOOD SANATORIUM. Three afternoons a week. Dr. Stevenson

In this course an opportunity is given to a limited number of practitioners to study the commoner types of mental disease requiring institutional care. Modern methods of hydrotherapy, psychotherapy, etc., will be discussed and illustrated. This course is limited to three.

The fee for all of these courses will be \$75.00. For each course, if taken separately, the fee will be \$25.00.

GENERAL SURGERY

The general plan of arrangement of the post-graduate instruction in general surgery is such that the student may devote all or part of his time to this subject. The clinical courses are all

given in the mornings and the laboratory courses in the afternoons. The student may register for all the courses as *The Combined Course* in general surgery and this will occupy all of his time during the four weeks of post-graduate instruction. He may register for the clinical courses only and thus leave his afternoons free for doing work in other departments. Finally, he may register for all or part of the laboratory courses either in combination with or independently of the clinical courses. The clinical course, or morning course, must be registered for as a whole.

CLINICAL COURSE—COURSE A (MORNINGS)

The schedule for this course is such that the group registering for it spend five mornings each week from 9 to 12 o'clock in the wards and operating rooms of the Barnes Hospital, the St. Louis Children's Hospital, the Jewish Hospital, and the St. Louis City Hospital, in which hospitals there is abundant material for review of the various phases of general surgery, the teaching in each hospital being done for the most part by the surgeon in chief of the hospital. One morning each week is spent in the Out-Patient Department in which the treatment of ambulatory patients is studied. On four days each week there is an hour clinic or lecture on certain of surgical specialties; viz., Neurological Surgery, Genito-Urinary Surgery, Orthopedic Surgery, and Oral and Plastic Surgery. These lectures or clinics are given by the surgeons in charge of these surgical specialties. Provision is made for the student to attend the regular weekly clinic of Dr. Graham. The remaining hour each week is devoted to a surgical conference of the entire group with Dr. Seelig, in which conference there is an open discussion of any question which may be brought up by any student.

LABORATORY COURSE—COURSE B (AFTERNOONS)

1. OPERATIVE SURGERY. North Building. Tuesdays and Fridays, 2 to 5 p. m. Dr. Sachs

This course occupies two entire afternoons each week, during which the students under careful supervision perform selected operations on animals. In addition to operative technique, the

student is instructed in methods of hemostasis, asepsis, and anesthesia. The students work in groups of two or three and alternate as operator and assistant. It has been found from experience that the student learns more by this method than when he is assisted by the instructor. Each operation is carried out under the same precautions as are used in the hospital operating room.

2. SURGICAL PATHOLOGY. North Building. Mondays and Wednesdays, 3 to 5 p. m. Dr. Lehman

This course occupies two hours on each of two afternoons a week. Under the guidance of the instructor the students study material from the operating room, both fresh and preserved. Emphasis is placed on the gross changes resulting from disease and the progress of these changes. The object of the course is to correlate the underlying pathological processes with the clinical course of surgical disease as seen by the practicing surgeon. There will be given demonstrations on animals of the pathology of such conditions as intestinal obstruction and peritonitis.

3. ROENTGENOLOGY. Roentgen Laboratory, Barnes Hospital. Mondays and Wednesdays, 2 to 3 p. m. Dr. Moore

Two periods of one hour each are devoted to the study of the diagnostic value of the X-ray. The abundant material in the X-Ray Department of the Barnes Hospital is used. No attempt is made to instruct the students in the technical phase of roentgenology; the instruction is confined to the interpretation of X-ray plates.

4. SPECIAL LECTURES AND DEMONSTRATIONS.

These special lectures are being included in post-graduate instruction for the first time. The lectures are intended to reveal to the student as clearly as possible the pathologic anatomy, physiology, and chemistry of what may be called the "Operation Period." The lectures will be given by the heads of the various departments and such demonstrations as may be instructive will be prepared. In addition, one lecture will be given on the special physiology of thoracic surgery.

5. CLINICAL PATHOLOGICAL CONFERENCE. Autopsy Amphitheatre, Barnes Hospital. Thursdays, 4:30 to 5:30 p. m.

Dr. Opie

This is a conference of the clinicians and pathologists, concerning the relation between the ante-mortem and post-mortem findings of selected hospital cases which have come to autopsy. All post-graduate students are urged to attend these conferences.

FEES

Combined Course, Mornings and Afternoons.....	\$100.00
Clinical Course—Course A.....	75.00
Laboratory Course—Course B.....	75.00
Operative Surgery	50.00
Surgical Pathology	35.00

SCHEDULE OF COURSE A IN GENERAL SURGERY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Ward Rounds Barnes Hospital Dr. Graham	Ward Rounds Jewish Hospital Dr. Seelig	Ward Rounds Barnes Hospital Dr. Brooks	Ward Rounds City Hospital Dr. Rainey	Surgical Diseases of Children, Ward Teaching and Operations Children's Hospital Dr. Clopton	Orthopedic Surgery Dr. Allison
10 to 11	Operations Barnes Hospital Dr. Graham	Operations Jewish Hospital Dr. Seelig	Operations Barnes Hospital Dr. Brooks	Acute and Traumatic Surgery City Hospital Dr. Rainey and Staff		Minor Surgery Washington University Dispensary Dr. Fisher
11 to 12						
12 to 1	Neurological Surgery Barnes Hospital Dr. Sachs	Surgical Clinic Barnes Hospital Dr. Graham	Genito-Urinary Surgery Dr. Caulk		Oral and Plastic Surgery Dr. Blair	Surgical Conference Surgical Lecture Room Dr. Seelig

SCHEDULE OF COURSE B IN GENERAL SURGERY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2 to 3	Röntgenology Barnes Hospital Dr. Moore (Course No. 3)		Röntgenology Barnes Hospital Dr. Moore (Course No. 3)	Special Surgical Lectures and Demonstrations (Course No. 4) April 27 Pathological Lecture Room Dr. Opie		
3 to 4	Surgical Pathology Surgical Laboratory Dr. Lehman (Course No. 2)	Operative Surgery on Animals Surgical Laboratory Dr. Sachs (Course No. 1)	Surgical Pathology Surgical Laboratory Dr. Lehman (Course No. 2)	May 4 Physiology Lecture Room Dr. Erlanger May 11 Chemical Lecture Room Dr. Shaffer May 18 Surgical Lecture Room Dr. Graham	Operative Surgery on Animals Surgical Laboratory Dr. Sachs (Course No. 1)	
4 to 5				Clinical Pathological Conference Autopsy Room Dr. Opie (Course No. 5)		

ORTHOPEDIC SURGERY

To those students primarily interested in surgery of the skeletal system, muscles, tendons, and joints, the Department of Orthopedic Surgery offers a set of six courses during the morning hours, for a period of four weeks. The fee for these six courses is \$75.00. The full course is limited to eight students.

1. ORTHOPEDIC SURGERY IN ADULTS. Barnes Hospital.
Wednesdays and Saturdays, 9 to 10 a. m. Dr. Stewart

This course will consist of bedside instruction, by ward rounds, in the methods of examination and differential diagnosis of orthopedic cases in adults. It will include instruction in pre-operative and post-operative measures in cases which require operative treatment.

2. OPERATIVE CLINIC. Barnes Hospital. Tuesdays, 9 to 10 a. m.
Dr. Allison and staff

This course will consist in a demonstration of the various operative procedures incident to the correction of congenital deformities, the mobilization of joints by manipulation and arthroplasty, and the stabilizing of joints by arthrodesis. In this course the patients demonstrated and operated upon will be almost exclusively adults.

3. DIAGNOSTIC AMBULATORY CLINIC. Washington University Dispensary. Daily, 10 a. m. to 12 m.

Dr. O'Reilly, Dr. Stone, Dr. Stewart, Dr. Ewerhardt,
Dr. Brookes

This course will consist in the diagnosis and treatment of all ambulatory cases, including tuberculosis of bones and joints, osteoarthritis, back strain, flat foot and foot strain. Instruction will be given in the use and application of plaster of Paris in ambulatory cases, measurement and application of braces and orthopedic appliances. One period a week will be devoted to the use of hydro- and mechano-therapeutics, massage and exercises in the treatment of diseases and injuries of the bones and joints, flat foot, and postural defects.

4. ORTHOPEDIC SURGERY IN CHILDREN. Children's Hospital. Mondays and Thursdays, 9 to 10 a. m. Dr. Stone

This course will consist of ward rounds, devoted to bedside instruction in the diagnosis and treatment of Pott's disease, tuberculosis of the hip and tuberculosis of other joints, acute and chronic poliomyelitis, congenital club foot, congenital dislocation of the hip and other malformations.

5. OPERATIVE CLINIC. Children's Hospital and Barnes Hospital. Fridays, 9 to 10 a. m. Dr. Allison and staff

This course, devoted almost exclusively to orthopedic diseases of children, will be devoted to operations for the correction of congenital and acquired deformities; stabilizing operations, such as muscle and tendon transference and fusion of joints; operations for the correction of rachitic deformities.

6. AMBULATORY CLINIC FOR CHILDREN. Washington University Dispensary. Daily, 10 a. m. to 12 m.

Dr. O'Reilly, Dr. Stone, Dr. Ewerhardt, Dr. Stewart,
Dr. Brookes

This course embraces the diagnosis and treatment of all ambulatory cases, including tuberculosis of bones and joints, non-tuberculous arthritis, and poliomyelitis. Instruction will be given in the use and application of plaster of Paris bandages in the correction of scoliosis. One period a week will be devoted to instruction in the application of hydro- and mechano-therapeutics, massage and muscle training in the treatment of poliomyelitis and other nerve conditions and corrective exercises in the treatment of postural defects. One morning during this course will be devoted to a trip to the Convalescent Home at Valley Park for a demonstration by Dr. O'Reilly of the open-air and heliotherapy methods in the treatment of bone and joint tuberculosis.

The Clinical Pathological Conference, Thursdays, 4:30 to 5:30 p. m., is open to all post-graduate students.

GENITO-URINARY SURGERY

The various courses outlined below have been planned so as to constitute a combined course of four weeks' duration. Every

effort will be made to give intensive training on any one phase to those desiring it, and an abundant opportunity will be given the practitioner to handle routine cases of genito-urinary diseases.

1. CLINICAL COURSE. Washington University Dispensary. Mondays, Tuesdays, Thursdays, and Fridays, 9 a. m. to 12 m.

Dr. Rose

In surgical urological diseases the cases are followed through from the history taking, examinations, general and special, including cystoscopic, endoscopic, functional tests and X-ray, to the final diagnosis and in the majority of instances to operation. An opportunity will be given to the student to learn the use of the cystoscope and endoscope in the diagnosis and treatment of bladder, kidney, and urethral diseases in both male and female. Particular attention will be given to the treatment of venereal diseases and to the diagnosis and treatment of deep infections of the prostate, seminal vesicles, and deep urethra. Minor operations, such as drainage of bubos, circumcisions, dorsal incisions, meatotomies, and the treatment of chancroids and venereal warts, will be included. This course is designed to equip the student to diagnose and carry out the treatment of ordinary types of genito-urinary diseases. They will be familiarized with ureteral catheterization, functional kidney tests, pyelography and treatment of bladder tumors by the high-frequency current. Instructions will be given also on the Wassermann reaction, gonorrheal fixation test, and the various blood examinations which have a bearing on kidney function.

2. OPERATIVE COURSE. Amphitheatre, Barnes Hospital. Wednesdays, 9 a. m. to 12 m., and other days as the material presents.

Dr. Caulk

Here the student will be given an opportunity to watch major operations upon the kidney, ureters, bladder, and genitals, and be thoroughly drilled in operating-room technique. This course is supplemented by the ward rounds. Tuesdays from 9 to 10 a. m. Wards of the Barnes Hospital and St. Louis Children's Hospital. In the latter, kidney infections in children and congenital malformations, such as hypospadias and the like, may be studied.

3. UROLOGICAL CONFERENCE. Washington University Dispensary. Tuesdays, 3 to 5 p. m.

This course will consist of didactic lectures on genito-urinary topics with suggestions to the student regarding a study of the literature on topics of interest in order that he may be made familiar with the progress of urology; also all current cases will be discussed.

Library. Wednesday, 2 to 3 p. m.

This time is to be devoted to looking up references given at the urological conferences and it is hoped the student will familiarize himself with current periodicals.

4. GENERAL COURSE. St. Louis City Hospital No. 1. Mondays, 2 to 4 p. m.; Fridays, 3 to 5 p. m.

Dr. Robertson, Dr. Young

This course will be given in the operating room and wards of City Hospital No. 1, and will afford the student the opportunity to see the routine cases, to observe and handle the cystoscope in the diagnosis and treatment of genito-urinary diseases, to follow the surgery of these cases and to see the patients on the wards and to carefully watch their after-treatment. In this course there will be an opportunity to see more of the urgent urological cases, such as extravasation of urine, traumatic injuries, etc.

5. OPERATIVE COURSE ON ANIMALS AND SURGICAL PATHOLOGY. Surgical Pathology Laboratory. Saturdays, 9 a. m. to 12 m.

Gross specimens and their microscopic sections will be demonstrated, together with the history of the case, of kidney and bladder, testicle, etc., removed at operation.

6. SYPHILOGRAPHY. Skin Clinic, Washington University Dispensary. Tuesdays, Thursdays, Fridays, and Saturdays, 2 to 3 p. m.

Dr. Weiss, Dr. Conrad, Dr. Coleman

To those registering for the Genito-Urinary course this will include only the diagnosis and treatment of syphilis. This work is further supplemented at the option of the student by the Skin Night Clinic and the plan to be followed is: Tuesdays and

Thursdays, 2 to 3 p. m., venipuncture and salvarsan administrations. Fridays, 2 to 3 p. m., clinical lecture on skin and syphilis. Saturdays, 2 to 3 p. m., mercury injections. Tuesdays, 6:30 to 7:30 p. m., mercury injections. Thursdays, 6:30 to 7:30 p. m., mercury injections. Fridays, 6:30 to 7:30 p. m., venipuncture.

7. NIGHT CLINIC. Genito-Urinary Dispensary. Mondays, Tuesdays, Thursdays, and Fridays, 6:30 to 7:30 p. m.

Dr. Belcher

Acute venereal diseases only are treated. There is an abundance of material and, under guidance of the instructor, the student may receive and follow his cases throughout the term. At his option he may, on Tuesday, Thursday, and Friday nights attend the Night Skin Clinic as outlined above.

CLINICAL PATHOLOGICAL CONFERENCE. Autopsy Amphitheatre, Barnes Hospital. Thursdays, 4:30 to 5:30 p. m.

In this conference autopsy material is presented and discussed with reference to the clinical history preceding autopsy. 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 who conducted the treatment in the hospital.

Fees \$100.00 for the entire course.

SCHEDULE OF COURSE IN GENITO-URINARY SURGERY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 12	Genito-Urinary Dispensary (Course No. 1)		Surgical Amphitheatre (Course No. 2)	Genito-Urinary Dispensary (Course No. 1)		Operative Course on Animals and Surgical Pathology (Course No. 5)	
2 to 3	General Course City Hospital No. 1 (Course No. 4)	Syphilography Skin Clinic (Course No. 6)	Library (Course No. 3)	Syphilography Skin Clinic (Course No. 6)			
3 to 4		Urological Conference (Course No. 3)		Pathological Conference 4:30 to 5:30	General Course City Hospital No. 1 (Course No. 4)		
4 to 5							
6:30 to 7	Night Clinic Genito-Urinary Dispensary (Course No. 7)	Night Clinic G.-U. Disp. or Skin Clinic (Course No. 7)		Night Clinic Genito-Urinary Dispensary or Skin Clinic (Course No. 7)			

GYNECOLOGY

The Department of Gynecology offers a special course of four weeks for those desiring to concentrate their time in this field of study. Various combinations with courses offered by the Department of Surgery and the Department of Obstetrics can be arranged as outlined below (Courses 2 to 5). Special emphasis will be laid upon diagnosis and non-operative treatment, but ample opportunity will be given to see at close range the various forms of operative procedure. A majority of the operative cases will be examined before operation by the members of the group and in as many cases as possible opportunity will be given to palpate structures during the course of the operations. Direct assistance in operations cannot, however, be arranged for.

1. GYNECOLOGY. This course will occupy the full time for the entire four-week period, as shown in the accompanying schedule. Besides operative clinics, diagnostic clinics, laboratory work, and radiotherapy, it will include courses in gynecologic anatomy and pathology and special demonstrations and clinics in the associated surgical specialties of obstetrics, orthopedics, urology, oral surgery, neurologic surgery, and general surgery. There will be the usual training in bimanual examination and differential diagnosis, and in addition a demonstration of the various methods of non-operative treatment with radium, X-ray, hydrotherapy, organotherapy, pessary, etc. The operative clinics will furnish opportunities to see the various regular procedures in surgical treatment. The course in anatomy will utilize the material and collections of the Anatomical Department in a brief review of the topography of the pelvic organs. The course on gynecologic pathology will lay stress on the recognition of the important diseases and tumors in the gross specimens. A series of special lectures by Dr. Erlanger, Dr. Opie, Dr. Shaffer, and Dr. Graham will be given on such border-line topics as shock, anesthesia, metabolism, and thoracic surgery. An hour's round-table conference each week will give opportunity for questions and discussions on topics selected by members of the group. Limited to six students.

2. GYNECOLOGY-SURGERY. This course follows the schedule

for gynecology in the morning and that of general surgery in the afternoon. Limited to eight students.

3. SURGERY-GYNECOLOGY. This course follows the schedule for surgery in the morning and that of gynecology in the afternoon. Limited to eight students.

4. GYNECOLOGY-OBSTETRICS. This course follows the schedule for gynecology in the morning and that of obstetrics in the afternoon. Limited to nine students.

5. GYNECOLOGY AND ANIMAL OPERATIONS. This course follows the schedule for gynecology with the exception of Tuesday and Friday afternoons, when Dr. Sachs' course in operative work on animals will be substituted for the regular schedule. Limited to three students out of the six accepted for course 1.

Any other combination of work or arrangements for spending half time in post-graduate study can be made only if a vacancy is left after the full-time men have been provided for.

The fees for these courses will be in accordance with the general statement under the head of Fees.

SCHEDULE OF COURSE IN GYNECOLOGY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	Operative Gynecology Dr. Crossen*	Operative Gynecology Dr. F. J. Taussig City Hospital No. 1	Operative Gynecology Dr. Gellhorn*	Operative Gynecology Dr. Crossen Barnes Hospital	Gynecological Diagnosis and Non-Operative Treatment Dr. Taussig and Dr. Spivy City Hospital No. 1	Operative Gynecology Dr. Taussig and Dr. Spivy City Hospital No. 1
12 to 1	Neurological Surgery Dr. Sachs Barnes Hospital	Surgical Clinic Dr. Graham Barnes Hospital	Genito-Urinary Surgery Dr. Caulk Barnes Hospital	Obstetrical Surgery Dr. Royston Barnes Hospital	Oral Surgery Dr. Blair Barnes Hospital	Surgical Conference Dr. Seelig
2 to 3	Diagnostic Gynecology Dr. Newell Dispensary	2 to 3:30 Radiotherapy in Gynecology Special Clinics Dr. Gellhorn and Dr. Taussig*	Diagnostic Gynecology Dr. Newell Dispensary	Special Lectures and Demonstrations: Shock Dr. Erlanger Anesthesia Dr. Opie Metabolism Dr. Shaffer Thoracic Surgery Dr. Graham	Gynecologic Pathology Gross and Microscopic Specimens Dr. Wobus	
3 to 4		3:30 to 5 Gynecologic Anatomy Dr. Taussig and Dr. Wobus Department of Anatomy				
4 to 5	Round-Table Conference Dr. Taussig			4:30 to 5:30 Pathological Conference Barnes Hospital		

* Place of operative clinic will be announced each week in advance.

OBSTETRICS

The Department of Obstetrics offers a four-weeks' course in Obstetrics to general practitioners. This course will utilize all of the teaching facilities at the disposal of the Washington University School of Medicine, the various laboratories, Barnes Hospital, Washington University Dispensary, St. Louis City Hospital and the Library and Reading Room of the Washington University School of Medicine. Three mornings each week will be devoted to work in the Barnes Hospital and the remaining three mornings will be given to work with the large amount of material in the City Hospital.

Every effort will be made to teach the men taking this course to make an accurate obstetrical diagnosis so as to enable them to make a safe and efficient forceps delivery and also to repair all obstetrical injuries.

In connection with this work, special emphasis will be given methods of examination, pelvimetry, the usual laboratory methods employed in obstetrics, etc. An instructor from the St. Louis Children's Hospital will devote an hour daily to the newborn infants in Barnes Hospital.

Special lectures on obstetrical subjects, such as the toxemias of pregnancy, eclampsia, placenta previa, hemorrhage, contracted pelvis, etc., will be given three times each week; in addition to which one hour each week will be devoted to an informal round-table discussion on subjects to be selected by the men taking the course.

The afternoons will be devoted to work in the obstetrical clinic of the Washington University Dispensary, where individual instruction will be given daily. This work is seldom finished before 4 p. m., after which mannikin practice, including the usual forceps operations, perineal repairs, etc., will be practiced from 4 to 6 p. m. three times each week. On Thursdays from 4:30 until 5:30 p. m. the Pathological Conference is held in the autopsy amphitheatre of Barnes Hospital.

All post-graduate students are privileged to attend normal labors at all times and will be called for every abnormal case delivered in the Barnes Hospital and the City Hospital during this course.

1. **WARD ROUNDS.** Barnes Hospital. Mondays, Wednesdays, and Fridays, 9 to 10 a. m. Dr. Otto Schwarz

Diagnosis and treatment of pregnant, parturient, and puerperal patients are given special consideration. The management of labor, obstetrical asepsis, the use of anesthetics, including nitrous oxide oxygen and twilight sleep, are taught in the delivery rooms.

2. **OBSTETRICAL TECHNIQUE AND ESSENTIAL LABORATORY WORK FOR OBSTETRICAL PATIENTS.** Barnes Hospital, Mondays, Wednesdays, and Fridays, 10 to 11 a. m. Dr. Krebs

Includes methods of obtaining material for examinations in the laboratory, examinations of blood, urine, vaginal, and uterine smears and cultures, blood pressure and other means of examination employed in making an obstetrical diagnosis.

3. **CARE OF NEWBORN BABIES.** Barnes Hospital. Mondays, Wednesdays, and Fridays, 11 a. m. to 12 m. Dr. Rupe

4. **CITY HOSPITAL.** Tuesdays, Thursdays, and Saturdays, 9 to 11 a. m. Dr. Dorsett, Dr. Abrams

Examination and care of pregnant, parturient, and puerperal women.

5. **ROUND-TABLE DISCUSSION.** Barnes Hospital. Mondays, 12 m. to 1 p. m. Dr. Royston

Informal discussion of topics suggested by the post-graduates, so as to bring out for free discussion subjects that might otherwise be overlooked.

6. **SPECIAL LECTURES ON OBSTETRICAL SUBJECTS.** Barnes Hospital. Tuesdays, Thursdays, and Saturdays, 12 m. to 1 p. m. Dr. Henry Schwarz, Dr. Royston

Lectures on obstetrical subjects, covering the usual abnormalities.

7. **WORK IN WASHINGTON UNIVERSITY OBSTETRICAL DISPENSARY.** Daily, 2 to 3:30 p. m. Dr. McNalley

Includes examination and care of pregnant and puerperal women, obstetrical diagnosis, methods of determining positions and approximate size of fetus, pelvimetry, etc.

8. OPERATIVE COURSE ON MANNIKIN. Barnes Hospital. Mondays, Wednesdays, and Fridays, 4 to 6 p. m. Dr. Royston

Includes various forceps applications, version, breech extractions, episiotomy, repair of perineal lacerations, etc.

FEES. The fee for the whole course is \$100.00.

SCHEDULE OF COURSE IN OBSTETRICS

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Ward Rounds Course No. 1	City Hospital Course No. 4	Ward Rounds Course No. 1	City Hospital Course No. 4	Ward Rounds Course No. 1	City Hospital Course No. 4
10 to 11	Laboratory Work Course No. 2		Laboratory Work Course No. 2		Laboratory Work Course No. 2	
11 to 12	Care of Newborn Babies Course No. 3		Care of Newborn Babies Course No. 3		Care of Newborn Babies Course No. 3	
12 to 1	Round-Table Discussion Course No. 5	Lecture Course No. 6		Lecture Course No. 6		Lecture Course No. 6
2 to 3:30	Obstetrical Dispensary Course No. 7					
4 to 6	Mannikin Practice Course No. 8		Mannikin Practice Course No. 8	4:30 to 5:30 Pathological Conference	Mannikin Practice Course No. 8	

DERMATOLOGY

The Department of Dermatology offers the following courses. If all of them are taken, they will furnish the student with a comprehensive outlook on Dermatology, but they are not intended in any way to qualify him as a specialist. Special courses, extending over a period of one to two years, may be arranged for those physicians who intend to become specialists in Dermatology. All of the courses run for four weeks.

1. WASHINGTON UNIVERSITY DISPENSARY. Mondays and Fridays, 2 to 3 p. m. Barnard Free Skin and Cancer Hospital. Wednesdays, 2 to 3 p. m. Dr. Engman, Dr. Mook, Dr. Weiss

This course will consist of the clinical demonstration of patients who present themselves at the Dispensary for the cure of skin diseases and syphilis. Methods of diagnosis and treatment will be described. The weekly clinical conference at the Barnard Free Skin and Cancer Hospital is conducted by Dr. Engman. At this conference all of the rarer types of skin diseases and syphilis are presented and discussed.

2. SYPHILIS. Washington University Dispensary. Tuesdays, Thursdays, and Saturdays, 2 to 3 p. m., and Tuesdays, Thursdays, and Fridays, 6:30 to 7:30 p. m.

Dr. Conrad, Dr. Coleman

- (a) The technique of venipuncture.
- (b) Intramuscular mercury injections.
- (c) Intravenous mercury injections.
- (d) Arsphenamine administration.

This course will provide a short intensive training in the treatment of syphilis.

3. DERMATOLOGY AND SYPHILIS. City Hospital No. 1. Tuesdays, Thursdays, and Saturdays, 10 to 11 a. m. Dr. Weiss

Ward rounds at the St. Louis City Hospital. Demonstration of patients with short talks on the various phases of syphilis and skin diseases.

4. GENITO-URINARY CLINIC. Washington University Dispensary. Mondays, Wednesdays, and Fridays, 9 a. m. to 12 m.

Dr. Rose and associates

Diagnosis and treatment of ambulant genito-urinary cases. This course does not include major genito-urinary surgery, endoscopy or cystoscopy, and is intended to supplement the Dermatology course. It may be taken only in conjunction with the entire Dermatology course.

The fees for this course will be in accordance with the general statement under the head of Fees.

SCHEDULE OF COURSE IN DERMATOLOGY

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Genito-Urinary Clinic Course No. 4		Genito-Urinary Clinic Course No. 4		Genito-Urinary Clinic Course No. 4	
10 to 11		Ward Rounds City Hospital No. 1 Course No. 3		Ward Rounds City Hospital No. 1 Course No. 3		Ward Rounds City Hospital No. 1 Course No. 3
11 to 12						
2 to 3	Dermatology and Syphilis Clinical Lecture Course No. 1	Venipuncture Technique and Arsphenamine Injection Course No. 2	Clinical Conference Course No. 1	Venipuncture Technique and Arsphenamine Injection Course No. 2	Dermatology and Syphilis Clinical Lecture Course No. 1	Mercury Administration Course No. 2
4:30 to 5:30				Clinical Pathological Conference		
6:30 to 7:30		Mercury Administration Course No. 2		Venipuncture Technique Course No. 2	Mercury Administration Course No. 2	

OPHTHALMOLOGY

The following courses are offered by the Department of Ophthalmology:

COURSE 1.

Lectures and demonstrations. This course is open only to those who have had ophthalmological experience. It is in the nature of a general review with special reference to the newer methods of treatment. Forty-eight hours of lectures and forty-eight hours of demonstrations are given. The daily program consists in a lecture from 1:30 to 2:30 p. m.; a demonstration from 2:30 to 4:30 p. m., and a lecture from 4:30 to 5:30 p. m. The lectures cover, in a didactic way, the most important ophthalmological subjects. The demonstrations are clinical instruction in treatment, surgery, and refraction. Collateral reading is outlined for those desiring to occupy the mornings with ophthalmology. Any of the morning courses offered by any of the other departments of medicine, surgery, or specialties may be taken in conjunction with this course in Ophthalmology. Fee for the course, if taken alone, \$75.00; if in conjunction with a morning course, \$125.00 for the two courses.

COURSE 2.

As there is a demand for a combined course in Ophthalmology, Otology, and Laryngology, the University offers a four-months' course which will include 64 lectures and 128 hours' clinical work in refraction and diseases of the eye. The clinics are in the afternoons and the lectures will be given mainly in the afternoons. The students will be expected to spend their morning hours in the library investigating the subjects given in the course. The course will occupy four months and the fee will be \$500.00 for the combined work in the three specialties. This course will not be given unless at least three applicants register. It is open only to those who are familiar with the fundamentals of these specialties.

COURSE 3.

A post-graduate course will be given in Ophthalmology extending over a period of two years. Opportunity is provided to

study and investigate for one's self under the guidance of a skilled instructor. It differs from the undergraduate course in that the student is given the opportunity for self-improvement without being overburdened with lectures. It is suggestive, not didactic, and contemplates equipping the student for special ophthalmic practice.

After spending the number of weeks indicated in acquiring the essentials for intelligent ophthalmic practice, it is recommended that the student employ the remainder of the two years in some original investigation work on the eye, either selected by himself or with the aid of his instructors.

In addition to this course of instruction the students will have the opportunity to attend all important surgery on the eye, ear, nose, throat, and head in the clinics of the Washington University Dispensary, Barnes, Children's and the City Hospitals. The operations are posted daily on the Clinic bulletin board. The students will also have the privilege of attending the Thursday afternoon conference in pathology, which is conducted by Dr. Opie for the staffs and interns of the hospitals.

The object of this course in Ophthalmology is knowledge and self-reliance. The knowledge is largely acquired in the laboratory and in the library; the self-reliance, in the practical work of the clinics and the hospitals.

The course is conducted by the Ophthalmic staff of Washington University and consists of lectures, quizzes, laboratory work, library work, and clinics.

Lectures. These will consist of from one-half to one hour explanations and instruction on the work for the week, one in Anatomy or Pathology in the morning and one in Refraction in the afternoon, Mondays.

Quizzes. At the end of each week, quizzes of from one-half hour to an hour will be held on the subjects of the week.

Laboratory. The work in the laboratory will consist of collecting, fixing, cutting, staining, mounting, and delineating specimens, all necessary bacteriology, experiments on animals, operations on animals' eyes, and on the cadaver when opportunity may present itself. It will also include work with optical apparatus.

Library. The Ophthalmic Library consists of ophthalmic literature collected by Dr. John Green, Sr., and by Dr. Adolf Alt during their lives, and includes nearly every text-book, periodical, and encyclopedia that is of value to the ophthalmologist. In addition to this, the library subscribes to all leading ophthalmic journals and society reports. It will be expected of the students that all possible spare time be given to the investigation of the subjects of the week.

Clinics. The clinical work will consist of twelve hours each week, of which six hours will be devoted to pathology and six hours to refraction. Excepting holidays, this will be continued throughout the course. This time will be devoted entirely to practical work with patients.

This is the course recommended to those who wish to become practitioners of ophthalmology. The fee for this course will be the same as that paid by the undergraduates. At present not more than four students can be accommodated.

SPECIAL SHORT COURSES.

In addition, special short courses will be given in (1) Ophthalmoscopy, (2) Refraction, Skiascopy, and Perimetry, (3) Diagnosis and Treatment, (4) Ophthalmic Surgery, (5) Laboratory, Histology, and Pathology. Each course will consist of from 12 to 20 lectures, morning library or laboratory work, and afternoon clinical work, and will cover a period of six weeks. The fee for each course will be \$100.00.

OTOLOGY

The Department of Otology offers to Doctors of Medicine several courses in Otology covering periods of from four weeks' to twenty-four months' duration, planned with the object of utilizing the abundant clinical and operative material at their disposal and of covering the field of Otology to meet the needs of the post-graduate applicants; i. e., those desiring simply to review the subject and those wishing to become specialists in this field. These courses are so arranged that not only complete instruction can be had in Otology, together with Rhino-Laryngology and Ophthalmology, but can be combined with courses in

Surgery, Medicine, Pediatrics, etc., occupying morning hours, thus insuring the applicant a complete day's work during the period of his stay.

Five courses will be given by the corps of instructors in the Department of Otology as follows:

COURSE 1.

For applicants who have done work in otology and desire an intensive review of the otological field. Covering a period of four weeks, daily from 2 to 5 p. m., and embracing—

(a) Clinical examination, diagnosis, and treatment of ear cases. Washington University Dispensary, Barnes Hospital, and City Hospital, 44 hours.

(b) Lectures and discussions on diseases of the ear, including Barany tests and allied topics. Washington University Dispensary, 16 hours.

(c) Anatomy, Histo-Pathology, Physiology, and operative demonstrations on cadaver (simple and radical mastoids with complications). Anatomical Laboratory, Medical School, 8 hours.

(d) General Pathological Conference. Autopsy Amphitheatre, 4 hours.

Fee \$75.00, or when combined with morning courses in other departments, \$125.00 for the two courses.

COURSE 2.

For the applicant desiring an intensive review of ear, nose, and throat work, whose previous training in this field qualifies him as a specialist. Covering a period of four weeks. Daily from 2 to 5 p. m.

(a) Ear, nose, and throat examination, diagnosis, and treatment of cases. Ear Dispensary, 20 hours; Nose and Throat Dispensary, 24 hours. Total, 44 hours.

(b) Lectures and discussions on diseases of the ear, nose, and throat. Dispensary and Anatomical Laboratory. Ear, 8 hours; Nose and Throat, 8 hours. Total, 16 hours.

(c) Anatomy, Histo-Pathology, Physiology, and cadaver operative demonstrations on the ear. Anatomical Laboratory, 8 hours.

(d) General Pathological Conference. Pathological Laboratory, 4 hours.

Fee \$75.00, or combined with morning courses in other departments, \$125.00 for the two courses.

COURSE 3.

Combined Otological, Rhino-Laryngological, and Ophthalmological courses for applicants with previous training in these fields desiring to perfect themselves in a specialty embracing diseases of the eye, ear, nose, and throat, covering a period of four months. Date of commencement determined on application.

Ear schedule:

(a) Anatomy and Physiology. Dispensary. Lectures, one hour twice a week for three weeks, 4 to 5 p. m.

(b) Dissection. Anatomical Laboratory, two hours once a week for three weeks, 9 to 10 a. m.

(c) Pathology. Pathological Laboratory, two hours once a week for six weeks, 9 to 11 a. m.

(d) Diseases of the Ear. Dispensary. Lectures and demonstrations. One hour twice a week for thirteen weeks, 4 to 5 p. m.

(e) Operative Course on the Cadaver. Anatomical Laboratory, two hours once a week for ten weeks, 8:30 to 10:30 a. m.

(f) Clinical Course. Dispensary. Practical work in clinic, two hours twice a week for sixteen weeks, 2 to 4 p. m.

This course combines with the four months' course scheduled and listed under Ophthalmology and Rhino-Laryngology.

Fee \$500.00. Given for no less than three registered applicants.

COURSE 4.

Offered for post-graduates having had little or no training in ear work and who desire to become specialists in Otology. This course covers a period of one year, and when desired may be combined with a similar course in Rhino-Laryngology. Complete instruction will be given in Otological Anatomy, Histo-Pathology, Physiology, and operative cadaver work. Special attention will be directed to the clinical examination, diagnosis, and treatment

of all ear cases available in the Dispensary and Barnes Hospital, and discourses covering diseases of the ear with collateral reading outlined to cover the entire field. All ear operative work in Barnes Hospital will be viewed by the applicant and when his qualifications permit, he will be given an opportunity to assist with this work.

The fee charged is the yearly undergraduate Medical School tuition fee.

Any information desired concerning the course will be forwarded on request.

COURSE 5.

Combines Otology, Rhino-Laryngology, with Ophthalmology complete in each department, and affords the applicant opportunity to specialize in these fields. The course covers a period of two years and the work is so arranged that instruction is given in each department as briefly outlined in Otological Course 4.

The yearly undergraduate Medical School tuition will be charged for this course, and any information desired will be mailed on request.

Individual course, such, for example, as labyrinth testing (Barany tests), will be arranged on special application.

SCHEDULE OF COURSE IN OTOLGY* (FOUR-WEEK COURSE)

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2 to 3	Clinical Examination Diagnosis Treatment Ear Cases Out-Patient Department and Barnes Hospital		Clinical Examination Diagnosis Treatment Ear Cases Bedside Examination City Hospital No. 1	Clinical Examination Diagnosis Treatment Ear Cases Out-Patient Department and Barnes Hospital		Anatomy Histo-Pathology Physiology Operative Demonstration on Cadaver Anatomical Laboratory Medical School
3 to 4						
4 to 5	Discourse Diseases of the Ear Dispensary			Clinical Pathological Conference Autopsy Amphitheatre	Discourse Diseases of the Ear Dispensary	Discourse Diseases of the Ear Laboratory

* An opportunity will be afforded to witness all ear operations in Barnes Hospital.

SCHEDULE OF COMBINED COURSE IN OTOTOLOGY-RHINOLOGY-LARYNGOLOGY*—(FOUR WEEKS)

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2 to 3	Clinical Examination Diagnosis Treatment Nose and Throat Cases Out-Patient Department and Barnes Hospital		Clinical Examination Diagnosis Treatment Ear Cases Bedside Examination City Hospital No. 1	Clinical Examination Diagnosis Treatment Nose and Throat Cases Out-Patient Department and Barnes Hospital	Clinical Examination Diagnosis Treatment Ear Cases Out-Patient Department and Barnes Hospital	Anatomy Histo-Pathology Physiology Operative Demonstration on Cadaver Anatomical Laboratory Medical School (Ear)
3 to 4						
4 to 5	Discourse Diseases of Nose and Throat Dispensary			Clinical Pathological Conference Autopsy Amphitheatre	Discourse Diseases of the Ear Dispensary	Discourse Diseases of the Ear Laboratory

*An opportunity will be afforded to witness all ear, nose and throat operations in Barnes Hospital.

LARYNGOLOGY AND RHINOLOGY

The Department of Laryngology and Rhinology offers to graduates of medicine several courses covering periods of from four weeks to two years. These courses are planned with the object of utilizing the rich clinical material of the Barnes Hospital, Children's Hospital, and Washington University Dispensary. The department purposes to meet the needs of those graduates of medicine who wish to learn thoroughly the fundamentals of this specialty, and of those who desire to become nose and throat specialists. The four-weeks' course is devoted only to fundamentals. The longer courses furnish training for the specialist. Provisions are made for combining work with the Departments of Otology and Ophthalmology.

COURSE 1.

A four-weeks' course intended primarily to convey the general fundamentals and possibilities of the specialty.

Washington University Dispensary. Daily, 2 to 4 p. m.

Dr. Sluder and assistants

Children's Hospital. Tuesdays and Fridays, 8:30 a. m.

Dr. Arbuckle

Clinical instruction in the diagnosis and treatment of the various diseases of the nose and throat, such, for example, as deflection of the nasal septum, suppuration of the nasal accessory sinuses, functional and organic diseases of the larynx, diseases of the tonsils and adenoid tissue, etc.

To students taking this course Dr. Sluder will deliver three lectures (Tuesdays, 3 p. m.) in the surgical lecture room of the North Building, on the following topics:

1. General scope of Laryngology and Rhinology, including its relationship to other subjects, such, for example, as Ophthalmology, Otology, Neurology, Pediatrics, General Medicine, Dentistry, etc.

2. Consideration of the tonsils and adenoids.

3. Discussion of methods of examining the nose and throat,

devoting particular attention to methods of examining the nasal accessory sinuses.

Arrangements may be made to combine this work with work in the Departments of Otology and Ophthalmology.

The fee for this course is \$75.00. If this work be combined with one of the morning courses in some other subject, the fee will be \$125.00 for the two courses.

COURSE 2.

A course of four months' duration, given in combination with the Departments of Ophthalmology and Otology, and intended only for specialists who desire advanced work. This course will be given to no less than three registered applicants. The fee will be \$500.00.

COURSE 3.

A course extending over a period of from twelve months to two years, according to the number of subjects taken; for example, for men who are not specialists, the course in Oto-Rhino-Laryngology will cover a period of twelve months with the privilege and advice to remain longer; while, if in addition to these subjects that of Ophthalmology is taken, the courses will extend over a period of twenty-four months.

The instruction in Rhinology and Laryngology in either instance will include subjects such as Anatomy, Pathology and Histology, post-mortem examination, history taking and examining of patients for diagnosis and treatment of all the ailments of the nose and throat and the complications thereof. The instruction in treatment will include the various operative, as well as non-operative, measures.

The fee for this course will be the same as that charged for yearly undergraduate medical tuition, and any information desired will be mailed upon request addressed to the Registrar of the School of Medicine.

All students in this department are privileged to attend the Clinical Pathological Conference held in the autopsy amphitheatre of Barnes Hospital by Dr. Opie, on Thursdays from 4:30 to 5:30 p. m.

CURRENT MEDICAL LITERATURE

Library of the Washington University Medical School.

Dr. Loeb

The purpose of this course is to study current medical literature, at convenient hours, either late in the afternoon or in the evening. The aim of the course is two-fold: (1) to survey the principal publications in the various fields of theoretical and practical medicine and to discuss ways and means of tracing the literature in a certain field; (2) to become acquainted with some of the principal problems, especially in theoretical medicine, under investigation at the present time.

This course will run for four weeks. Fee for the course \$25.00.

ANATOMY

In the Departments of Surgery, Gynecology, Ophthalmology, Otology, and Laryngology and Rhinology, the Department of Anatomy coöperates in the anatomical teaching. The various courses in regional anatomy outlined under the heads of the different departments are all given under the direction of the Department of Anatomy.

GENERAL SCHEDULES
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
 Schedule of First Year. First Trimester

1922-23

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	<div style="display: flex; justify-content: space-around;"> <div>Histology</div> <div>Laboratory</div> </div> <div style="text-align: center; margin-top: 20px;">Anatomy 3</div>					
10 to 11						
11 to 12						
12 to 1	Military Science and Tactics 1					
2 to 3						
3 to 4		Dissection Anatomy 6		Dissection Anatomy 6		
4 to 5						

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of First Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Biological Chemistry Laboratory Chemistry 3		Neurology Laboratory Anatomy 5			Biological Chemistry Laboratory Chemistry 3
10 to 11						
11 to 12						
12 to 1						
2 to 3	Military Science and Tactics 1	Dissection Anatomy 6	Biological Chemistry Lecture Chemistry 3			
3 to 4						
4 to 5						

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of First Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
9 to 10	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	Biological Chemistry Laboratory Chemistry 3	Bacteriology Laboratory Pathology 1	
10 to 11							
11 to 12							
12 to 1	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	Bacteriology Lecture Pathology 1	Biological Chemistry Lecture Chemistry 3	Physiology Lecture Physiology 2	Physiology Lecture Physiology 2	
2 to 3	Bacteriology Lecture Pathology 1	Dissection Anatomy 6		Dissection Anatomy 6			
3 to 4							
4 to 5	Military Science and Tactics 1						

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of Second Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Laboratory Pathology 2	Infection and Immunity Lecture and Laboratory Pathology 3	Pathology Laboratory Pathology 2	Physiology Lecture Physiology 2	Pathology Laboratory Pathology 2	Pathology Recitation Pathology 2
10 to 11						Gross Pathology Pathology 2
11 to 12						Lecture on Infection and Immunity Pathology 3
12 to 1		Physiology Lecture Physiology 2		Physiology Lecture Physiology 2		
2 to 3	Physiology Lecture Physiology 2	Physiology Laboratory Physiology 3		Physiology Laboratory Physiology 3		
3 to 4	Military Science and Tactics 1					
4 to 5	Physiology Conference Physiology 3					

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
Schedule of Second Year. Second Trimester

1922-23

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pathology Laboratory Pathology 2	Applied Anatomy Anatomy 9	Pathology Laboratory Pathology 2	Pathology Lecture Pathology 2	Pathology Laboratory Pathology 2	Pathology Lecture Pathology 2
10 to 11				Surgery Clinic Surgery 1		Gross
11 to 12		Introductory Clinic Medicine 2		Introductory Clinic Medicine 2		Pathology 2
12 to 1		Pharmacology Lecture Pharmacology 1		Pharmacology Lecture Pharmacology 1		Applied Anatomy Anatomy 9
2 to 3	Physical Diagnosis Medicine 1	Medicine Recitation Medicine 2		Military Science and Tactics 1	Physical Diagnosis Medicine 1	
3 to 4		Introduction to Surgery Surgery 1		Introduction to Surgery Surgery 1		
4 to 5	Medicine Recitation Medicine 2					

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of Second Year. Third Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Group A	Group C Physical Diagnosis, Medicine 4 City Hospital 9-12	Group B	Obstetrics Recitation Obstetrics 1a	Pharmacology Lecture Pharmacology 1
10 to 11	Group A Medicine 6	Group B Surgery 2	Group A Medicine 6	Group A Medicine 6	Group A Medicine 6	Gross Pathology
11 to 12	Group B Surgery 2 Group C Obstetrics 1b	Group C $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group B Surgery 2	Group C $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group B Surgery 2 Group C Obstetrics 1b	Pathology 2
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Medicine Recitation Medicine 6	Surgery Conference Surgery 2	Pharmacology Lecture Pharmacology 1	Medicine Recitation Medicine 6
2 to 3	Pharmacology Lecture Pharmacology 1	Pharmacology	Surgical Pathology	Pharmacology	Group C	
3 to 4		Laboratory	Surgery 3	Laboratory	Gynecology 1b	
4 to 5	Military Science and Tactics 1	Pharmacology 1		Pharmacology 1	Pediatrics Clinical Conference Pediatrics 2	

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of Third Year. First Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Group B	Group A Physical Diagnosis, Medicine 4 City Hospital 9-12	Group C	Obstetrics Recitation Obstetrics 1a	Pediatrics Clinical Conference Pediatrics 2
10 to 11	Group A Obstetrics 1b Group B Medicine 6	Group A $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group B Medicine 6	Group A $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group A Obstetrics 1b Group B Medicine 6	Neuro-Pathology Neurology 1
11 to 12	Group C Surgery 2	Group C Surgery 2	Group C Surgery 2	Group B Medicine 6	Group C Surgery 2	
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Medicine Recitation Medicine 6	Surgery Conference Surgery 2	Medicine Recitation Medicine 6	Preventive Medicine
2 to 3	Preventive Medicine	Group A Gynecology 1b	Clinical Microscopy Medicine 5	Clinical Microscopy Medicine 5	Clinical Microscopy Medicine 5	
3 to 4	Pediatrics Clinical Conference Pediatrics 2		Surgical Pathology			
4 to 5	Clinical Patho- logical Conference Pathology 5	Military Science and Tactics 2	Surgery 3			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

Schedule of Third Year. Second Trimester

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Pediatrics Clinical Conference Pediatrics 2	Group C	Group B Physical Diagnosis, Medicine 4 City Hospital 9-12	Group A	Obstetrics Recitation Obstetrics 1a	Pediatrics Clinical Conference Pediatrics 2
10 to 11	Group A Surgery 2 Group B Obstetrics 1b	Group A Surgery 2	Group A Surgery 2	Group B $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group A Surgery 2 Group B Obstetrics 1b	Genito-Urinary Surgery Lecture Surgery 2
11 to 12	Group C Medicine 6	Group B $\frac{1}{2}$ Neurology 1 $\frac{1}{2}$ Pediatrics 1	Group C Medicine 6	Group C Medicine 6	Group C Medicine 6	Therapeutics Medicine 7
12 to 1	Surgery Recitation Surgery 2	Surgery Clinic Surgery 2	Gynecology Lecture Gynecology 1a	Surgery Conference Surgery 2	Neurology Lecture Neurology 1	Military Science and Tactics 2
2 to 3	Dermatology Lecture	Group B Gynecology 1b	Ophthalmology Lecture	Group 1 Operative Surgery Surgery 2	Group 2 Operative Surgery Surgery 2	
3 to 4	Preventive Medicine		Surgical Pathology			
4 to 5	Clinical Patho- logical Conference Pathology 5	Laryngology Lecture	Surgery 8			

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

1922-23

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.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p>Medicine 10. Ward Work, Barnes Hospital.</p> <p>Neurology 3. Neurological Ward and Out Patient Work.</p>					
12 to 1	Neurology Clinic Neurology 3	Surgery Clinic Surgery 4	Pediatric Clinic Pediatrics 4	Medicine Clinic Medicine 10	Obstetrics 2b Lecture II Trimester Dietetics, Med. 8 III Trimester	Medicine Clinic Medicine 10
2 to 3	Dermatology O. P. D.	Dermatology O. P. D.	Ophth. Path. I Trimester Therapeutics Medicine 7 III Trimester		Dermatology O. P. D.	
3 to 4			Psychiatry Neurology 4 II Trimester 2-5 p. m.			
4 to 5	Clinical Patho- logical Conference Pathology 5		Medical Jurisprudence I Trimester		Med. Jurisprud. I Trimester Otology Lecture III Trimester	Military Science and Tactics 2

*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

1922-23

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.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 12	<p>Surgery 4. Ward Work, Barnes or St. Louis Children's Hospital.</p> <p>Surgery 6. Orthopedic Surgery, Barnes or St. Louis Children's Hospital.</p>					
12 to 1	Neurology Clinic Neurology 3	Surgery Clinic Surgery 4	Pediatric Clinic Pediatrics 4	Medicine Clinic Medicine 10	Obstetrics 2b Lecture II Trimester Dietetics, Med. 8 III Trimester	Medicine Clinic Medicine 10
2 to 3	Otology O. P. D.		Ophth. Path. I Trimester Therapeutics Medicine 7 III Trimester	Otology O. P. D.	Laryngology O. P. D.	
3 to 4			Psychiatry Neurology 4 II Trimester 2-5 p. m.			
4 to 5	Clinical Patho- logical Conference Pathology 5		Medical Jurisprudence I Trimester	Medical Jurisprudence I Trimester Otology Lecture III Trimester	Military Science and Tactics 2	

*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 1922-23
 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.*

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	Section 1. Obstetrics 2c. Ward Work, Barnes Hospital: 9-12 M., T., F., and S. Gynecology 2. Ward Work, Barnes Hospital: 9-12, W. and Th. Section 2. Pediatrics 3. Ward Work, St. Louis Children's Hospital: 9-10. Sections change at the middle of the trimester. Genito-Urinary Surgery is taken by Section 2.					
10 to 11	Genito-Urinary O. P. D.		Genito-Urinary O. P. D.			Genito-Urinary O. P. D.
11 to 12	Surgery 5		Surgery 5			Surgery 5
12 to 1	Neurology Clinic Neurology 3	Surgery Clinic Surgery 4	Pediatric Clinic Pediatrics 4	Medicine Clinic Medicine 10	Obstetrics 2b Lecture II Trimester Dietetics, Med. 8 III Trimester	Medicine Clinic Medicine 10
2 to 3	Ophthalmology O. P. D.	Pediatric Clinic Pediatrics 3	Ophth. Path. I Trimester Therapeutics Medicine 7 III Trimester	Ophthalmology O. P. D.	Pediatric Clinic Pediatrics 3	
3 to 4			Psychiatry Neurology 4 II Trimester 2-5 p. m.			
4 to 5	Clinical Patho- logical Conference Pathology 5		Medical Jurisprudence I Trimester	Medical Jurisprudence I Trimester Otolaryngology Lecture III Trimester	Military Science and Tactics 2	

*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

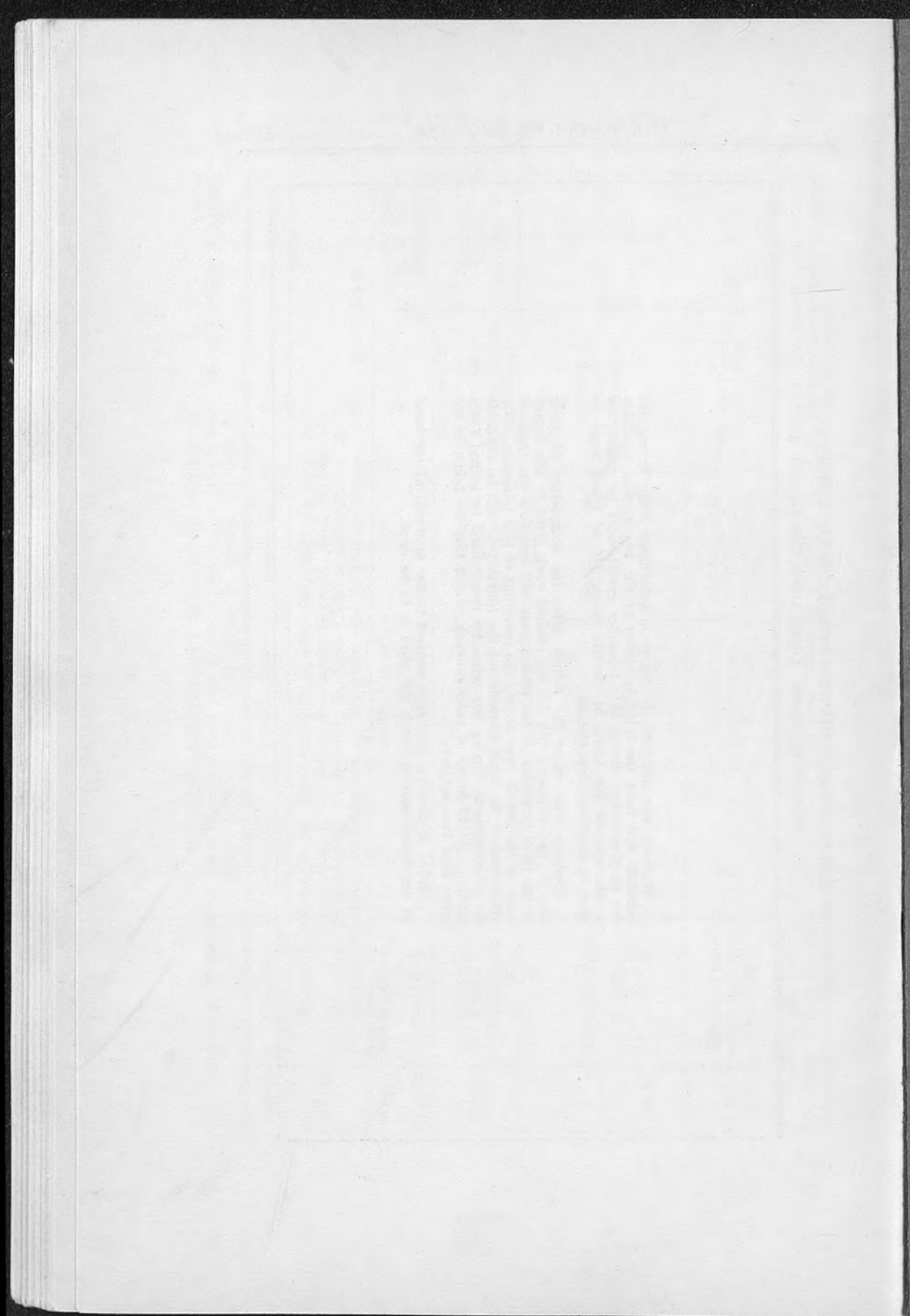
1922-23

Schedule of Fourth Year. Third Trimester

Students who complete the course in accordance with the regular schedule will have the third trimester of the fourth year available for elective work; during this trimester credit must be gained for a minimum of 300 hours of elective work, 150 of which must be done in some one department.

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

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



Washington University

Frederic A. Hall, A.M., Litt.D., L.H.D., LL.D., Chancellor

- I. The College (Skinker road and Lindell boulevard)
George O. James, Ph.D., Dean
- II. The School of Engineering (Skinker road and Lindell boulevard)
Walter E. McCourt, A.M., Dean
- III. The School of Architecture (Skinker road and Lindell boulevard)
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 avenues)
George T. Moore, Ph.D., Engelmann Professor of Botany
- VI. The Graduate School (Skinker road and Lindell boulevard)
Otto Heller, Ph.D., Chairman of the Board of Graduate Studies
- VII. The School of Law (Skinker road and Lindell boulevard)
Richard L. Goode, A.M., LL.D., Dean
- VIII. The School of Medicine (Kingshighway and Euclid avenue)
Nathaniel Allison, M.D., Dean
- IX. The School of Dentistry (Twenty-ninth and Locust streets)
John H. Kennerly, M.D., D.D.S., Dean
- X. The School of Fine Arts (Skinker road and Lindell boulevard)
Edmund H. Wuerpel, Director
- XI. Division of University Extension (Skinker road and Lindell boulevard)
Frederick W. Shipley, Ph.D., Director

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

- Mary Institute—A Preparatory School for Girls (Waterman and Lake avenues)
Edmund H. Sears, A.M., Principal
- The Training School for Nurses (600 S. Kingshighway)
Helen Wood, A.B., Superintendent

